HEART FAILURE SHATTERS MILLIONS OF LIVES

Chronic heart failure is a growing crisis—with little improvement in hospitalization rates or mortality outcomes over the last 10 years.¹²

LET’S WORK TOGETHER TO CHANGE THAT


VISIT BOOTH 417 TO LEARN MORE
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Information included in the Final Program is accurate as of the publishing date and is subject to change.
Committee on Scientific Sessions Program

The American Heart Association is grateful to members of the Committee on Scientific Sessions Program for their dedication and leadership throughout the year in planning the program.

Welcome to Scientific Sessions 2014
The American Heart Association and the Committee on Scientific Sessions Program thank participants for sharing their research, best practices, knowledge and time to help improve medical care for cardiovascular patients.

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Faculty is required to identify all relationships within the last 12 months that might be perceived as a real or potential conflict of interest. A relationship is “relevant” if the relationship or interest is with proprietary entities producing health care goods or services, with the exemption of non-profit or government organizations and non-health care related companies; or has the reasonable potential to result in financial, professional or other personal gain or loss for you, members of your household or employer.

A relationship is considered to be “Significant” if (a) the person receives $10,000 or more during any 12 month period, or 5% or more of the person’s gross income; or (b) the person owns 5% or more of the voting stock or share of the entity, or owns $10,000 or more of the fair market value of the entity. A relationship is considered to be “Modest” if it is less than “Significant” under the preceding definition.

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<tr>
<td>Sue Sendelbach S. Sendelbach</td>
<td>None.</td>
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<tr>
<td>Gregory Shelness G.S. Shelness</td>
<td>None.</td>
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<tr>
<td>Mintu Turakhia M. Turakhia</td>
<td>Honoraria; modest; Biotronik, Medtronic. Employment; Significant; Veterans Affairs. Research Grant; Significant; Gilead Sciences, Medtronic Inc, iMyfthm, AHA, VA. Consultant/Advisory Board; Significant; Precision Health Economics, St. Jude Medical, Medtronic, Medtronic, Gilead Sciences.</td>
</tr>
<tr>
<td>Mani Vannan M.A. Vannan</td>
<td>Research Grant; Significant; Siemens- but this was paid to institution not to me. Honoraria; modest; Siemens. Honoraria; Significant; Lantheus.</td>
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<tr>
<td>Tom Vondriska T.M. Vondriska</td>
<td>None.</td>
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<td>Yibin Wang Y. Wang</td>
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<tr>
<td>Steven Warach S. Warach</td>
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<tr>
<td>Jennifer Wessel J. Wessel</td>
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<td>Daniel Woo D. Woo</td>
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<tr>
<td>Kathryn Wood K. Wood</td>
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<td>Robert Yeh R. Yeh</td>
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<tr>
<td>Gerald Yonga G. Yonga</td>
<td>None.</td>
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<tr>
<td>Chun Yuan C. Yuan</td>
<td>Research Grant; modest; Philips Medical. Consultant/Advisory Board; modest; PhilipsHealthcare RMAN, Bristol Myers Squibb.</td>
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<tr>
<td>Osama Zaidat O. Zaidat</td>
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</tr>
<tr>
<td>Jianyi Zhang J. Zhang</td>
<td>None.</td>
</tr>
<tr>
<td>Dong Zhao D. Zhao</td>
<td>None.</td>
</tr>
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</table>
Speaker/Presenter Disclosures
All presenters are required to disclose any financial relationships with any commercial interests. Disclosures can be found using the following resources:

- Speaker Slide or Poster
- Program Planner (scientificsessions.org/programming)
- Abstracts on Disc
- Mobile Meeting Guide (scientificsessions.org/mobile)
- Circulation online (circ.ahajournals.org)

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
Dear Colleagues:

It is my pleasure to invite you to attend Scientific Sessions 2014 in Chicago, IL. The American Heart Association’s annual meeting offers a unique opportunity to gather and network with colleagues from around the world in an exciting educational and professional environment. The scope and quality of the scientific exchange make Scientific Sessions the premier cardiovascular research and instructional meeting in the world.

Programming this year will continue to center on seven multidisciplinary cardiovascular core science areas. Each of the following areas of cardiovascular science covers the four broad areas of basic, translational, clinical and population science:

- Cardiovascular Imaging
- Epidemiology and Prevention of CV Disease: Physiology, Pharmacology and Lifestyle
- Genetics, Genomics and Congenital CV Disorders
- Heart Rhythm Disorders and Resuscitation Science
- Myocardium: Function and Failure
- Catheter-Based and Surgical Interventions
- Vascular Disease: Biology and Clinical Science

To further facilitate the efficient navigation of the meeting, Scientific Sessions now offers 26 program tracks that allow you to focus your education in your specialty or expand your knowledge in other areas:

- Acute Coronary Syndrome
- Atherosclerosis and Thrombosis
- Cardiac Structure and Function
- Cardiopulmonary Resuscitation
- Cardiovascular and Stroke Nursing
- Cardiovascular Stem Cell Biology and Development
- Congenital Heart Defects, Children and Health Throughout the Lifespan
- Diabetes, Lipids and Cardiometabolic Syndrome
- Early Career/Professional Development
- Electrophysiology
- General Cardiology and Structural Heart Disease
- Genetics/Genomics
- Global Congress on Big Data
- Heart Failure
- Hypertension and Kidney Disease
- Imaging
- Interventional Cardiology
- Myocyte Signaling and Ion Channels
- Peripheral Vascular Disease
- Pharmacology
- Prevention, Behavior Change and Healthy Lifestyles
- Pulmonary & Systemic Vascular Biology and Disease
- Quality of Care Outcomes and Epidemiology
- Stroke and Cerebrovascular Disease
- Surgery
- Systems Biology/Physiology including Omics

This year, our Global Congress will be on “Big Data in Cardiovascular Science and Care” and will run concurrently with Scientific Sessions. The intent is to offer a global perspective on big data science for understanding basic mechanisms of cardiovascular disease. In addition, the track will offer opportunities to improve clinical research as well as advance cardiovascular care and health.

We will continue with the very well received “Case Theaters: Learning at the Movies,” which offer 45-minute live presentations of recorded cases, accompanied by panel discussion. Other highlights this year include an increased number of joint scientific sessions with professional societies from around the world, Professor Rounds of posters, a poster reception highlighting some of the best basic science research, as well as many more.

Scientific Sessions continues to evolve and improve with the input from our attendees making an already great meeting an even more spectacular educational and networking event. We thank you for your input in the past and we hope you have the opportunity to experience the enhancements to our meeting. Most importantly, we hope the meeting addresses the greater mission of the American Heart Association, to reduce the global burden of cardiovascular disease.

Sincerely yours,

Robert Harrington, MD, FAHA
Chairman, Committee on Scientific Sessions Program
Dear Colleague:

On behalf of the American Heart Association, welcome to Scientific Sessions 2014. We have an exceptional program filled with the latest scientific information to help you better understand, treat and prevent cardiovascular diseases and stroke — regardless of your professional background or country of origin. You’ll learn about novel discoveries, new treatments, challenging quality initiatives and provocative interventions.

Bringing you the latest science is an important part of the American Heart Association’s goal to save and improve lives around the globe. Indeed, Sessions truly is an international meeting, with presenters and attendees gathered from more than 105 countries.

Sessions this year offers important education on “Big Data,” a critical subject because of ongoing problems interpreting the tidal wave of information engulfing us. We must think differently about the treatment of heart disease and stroke — because today's technology allows us to do just that. At the Global Congress on Big Data, for example, you’ll hear how big data science is key to understanding disease mechanisms; epidemiological determinants and practice for the accelerated improvement in the prevention; treatment and clinical care of cardiovascular disease; and stroke on a global scale.

Sessions uniquely links basic, translational, clinical and population science. Our ongoing emphasis on thematic tracks helps focus these disciplines towards our common goals. This year’s program continues to emphasize multidisciplinary interactions that will open lines of communication and stimulate new thoughts and directions. We must be armed with knowledge and develop unique new weapons to fight the following facts:

• Hypertension, obesity and diabetes are dangerous worldwide problems.
• The delivery of care frequently falls short of the evidence-based standards recommended in our practice guidelines.
• Disparities in care continue to challenge our healthcare delivery systems.
• The pathway for young, basic scientists is an increasingly difficult challenge.
• We continue to need more scientific research to find novel therapies.

Planning and managing Scientific Sessions is a daunting and complex task. We express our sincere appreciation to Drs. Harrington and Sellke for their terrific leadership. They have been ably assisted by the Committee on Scientific Sessions Program, Council Program Committees, hundreds of scientific reviewers and the American Heart Association staff. They have put together an outstanding program and I am so grateful.

Thank you for being here. Enjoy your time, expand your knowledge, make a new connection and help us build healthier lives free of cardiovascular diseases and stroke.

Sincerely yours,

Elliott Antman, MD, FAHA
President, American Heart Association
Join or renew your AHA/ASA Professional Membership onsite and receive a free gift in HeartQuarters Booth 1059
### Past Presidents of the American Heart Association

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>1924–25</td>
<td>Lewis A. Conner</td>
</tr>
<tr>
<td>1925–26</td>
<td>Joseph Sailer</td>
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<tr>
<td>1927–28</td>
<td>James B. Herrick</td>
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<tr>
<td>1929–30</td>
<td>William H. Robey</td>
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<td>1931–32</td>
<td>Robert H. Halsey</td>
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<td>1933–34</td>
<td>Stewart R. Roberts</td>
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<td>1935–36</td>
<td>John Wyckoff</td>
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<td>1937–38</td>
<td>William J. Kerr</td>
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<td>1939–40</td>
<td>William D. Stroud</td>
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<td>1941–42</td>
<td>Paul D. White</td>
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<td>Roy W. Scott</td>
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<td>1945–46</td>
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<td>1946–47</td>
<td>Howard F. West</td>
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<tr>
<td>1948–49</td>
<td>Arlie R. Barnes</td>
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<td>1949–50</td>
<td>Tinsley R. Harrison</td>
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<td>1950–51</td>
<td>H. M. Marvin</td>
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<td>1952–53</td>
<td>Irving S. Wright</td>
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<td>1953–54</td>
<td>Robert L. King</td>
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<td>1954–55</td>
<td>E. Cowles Andrus</td>
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<td>1955–56</td>
<td>Irvine H. Page</td>
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<td>1956–57</td>
<td>Edgar V. Allen</td>
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<td>1957–58</td>
<td>Robert W. Wilkins</td>
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<td>Francis L. Chamberlain</td>
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<td>1961–62</td>
<td>J. Scott Butterworth</td>
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<td>1962–63</td>
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<td>John J. Sampson</td>
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<td>1964–65</td>
<td>Carleton B. Chapman</td>
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<td>Helen B. Taussig</td>
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<td>Lewis E. January</td>
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<td>1967–68</td>
<td>Jesse E. Edwards</td>
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<td>1969–70</td>
<td>W. Proctor Harvey</td>
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<td>1970–71</td>
<td>William W. L. Glenn</td>
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<td>1971–72</td>
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<td>1972–73</td>
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<td>1973–74</td>
<td>Richard S. Ross</td>
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<td>1974–75</td>
<td>Elliot Rapaport</td>
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<td>1975–76</td>
<td>John T. Shepherd</td>
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<td>1976–77</td>
<td>Harriet P. Dusant</td>
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<td>James A. Schoenberger</td>
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<td>Donald C. Harrison</td>
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<td>1983–84</td>
<td>Antonio M. Gotto Jr.</td>
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<td>1984–86</td>
<td>Thomas J. Ryan*</td>
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<td>1986–87</td>
<td>Kenneth I. Shine</td>
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<td>Howard E. Morgan</td>
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<td>1988–89</td>
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<td>1989–90</td>
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<td>W. Virgil Brown</td>
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<td>1993–94</td>
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<td>1996–97</td>
<td>Jan L. Breslow</td>
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<td>1997–98</td>
<td>Martha N. Hill</td>
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<td>1998–99</td>
<td>Valentin Fuster</td>
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<td>1999–00</td>
<td>Lynn A. Smaha</td>
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<td>Rose Marie Robertson</td>
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<td>2001–02</td>
<td>David P. Faxon</td>
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<td>2002–03</td>
<td>Robert O. Bonow</td>
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<td>2003–04</td>
<td>Augustus O. Grant</td>
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<td>2004–05</td>
<td>Alice K. Jacobs</td>
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<td>2006–07</td>
<td>Raymond J. Gibbons</td>
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<td>Timothy J. Gardner</td>
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<td>Clyde W. Yancy</td>
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<td>2010–11</td>
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<td>2011–12</td>
<td>Gordon F. Tomaselli</td>
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<tr>
<td>2012–13</td>
<td>Donna K. Arnett</td>
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<tr>
<td>2013–14</td>
<td>Mariell Jessup</td>
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*Dr. Ryan served from November 1984 to July 1986.

### Past Chairmen of the Committee on Scientific Sessions Program

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<td>Russell V. Leupker</td>
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<td>Rose Marie Robertson</td>
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<td>2009–10</td>
<td>Mariell Jessup</td>
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<tr>
<td>2011–12</td>
<td>Elliott M. Antman</td>
</tr>
</tbody>
</table>
AHA Scientific Sessions Team
The AHA staff welcomes you to Scientific Sessions and hopes you have a wonderfully productive week.
Gayle Whitman, Senior Vice President, Science Operations
Matthew Bannister, Executive Vice President, Corporate Communications and Brand Content
John Meiners, Executive Vice President, Emergency Cardiovascular Care and Global Strategies

Communications
Aron, Jaime
Astle, Karen
Carr, Joanna
Del Barto, Julie
Fairbank, Katie
McFarland, John
McNeill, Bridgette
McRae, Tagni
Pederson, Kathey
Rodriguez, Mara
Rogers, Dina
Sardos, Amanda
Spitz, Darcy
Thacker, Carrie

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Iacobucci, David

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Dunphy, Liz
Egan, Loren
Gee, Casey
Hazard, Joslyn
Hopson, Felicia
Humphrey, Jennifer
Johnson, Angela
Korte, Katie
Morales, Veronica
Murtha, Michael
Perry, Jo Ann
Ponzio, John
Prince, Lindsay
Ragsdale, Stacy
Richardson, Kim
Rimal, Archie
Rowell, Lauren
Thomas, Dena
Tran Doan, Lan
Winningham, Stacey
Wolke, Alice
Zamora, Veronica

Meetings
Carter, Jazmine
Croll, Beth
Daniels, Barbara
Davis, Julie
Dixon, Shanna
Farris, Paula
Gold, Viola
Green, Julie
Hamideh, Deena
Hawkins, Connie
Jarvis, Melissa
Kunish, Susan
Larrick, Molly
Mathis, Tracie
Magill, Alecia
Pacheco, Rita
Starks, Heather
Van Fleet, Julia
Ware, Jason
Whitzel, Emily
Wilson, Misty

Science and Medicine
Alger, Heather
Bruns, Michelle
DiBuono, Marco
Hughes, Daphne
Hurdle, Steven
Lehotzky, Rebecca
Leonard, Anne
Lehotzky, Rebecca
Leonard, Anne
Perkins, Cheryl
Ochoa, Luci
Zimmerman, Scott
Sheehan, Katherine
Stephens, Donna
Turner, Melanie
Vafiadis, Dorothea

Scientific Publishing
Bright, Frances
Goodell, Heather
Hayes, Gabrielle
Hundley, Jody
Loftin, Joe
Sims, Stacey

Customer Service
Nivens, Jaime

Design
Earnest, Danny
Elliott, Ryon
Hester, Mica

Emergency Cardiovascular Care
Eigel, Brian
Ferrer, Jose
Gent, Lana
Griffin, Russell
Rodriguez, Amber

Butler, Jo
Farmer, John
Participate in the 2nd Annual Walking Challenge

Get ready to track your daily steps and watch it feed into a leaderboard so you can compete against fellow attendees.

Participants will get a free sneaker pin. Visit the AHA/ASA Professional Membership counter at HeartQuarters Booth 1059 to pick up. Limited quantities available.

Learn more and register at the AHA Walking Challenge booth in the Grand Concourse Lobby of McCormick Place starting Saturday, Nov. 15 or at scientificsessions.org/walkingchallenge.
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Sign in with your username and password at learn.heart.org. If you do not have an account, please create one.

• Select the Scientific Sessions 2014 link under the “Live Conference Credit Claim” box on the homepage

• Click the ‘Register’ button and follow the prompts to enroll in the activity

• Authorization codes will be provided with your badge

• Complete the evaluation, then claim and print your certificate

• Credit must be claimed within 30 days of program completion

For a full list of conference accreditation statements and credit designation see scientificsessions.org.

On-Demand
CME/CE Activities Available

To see a full list of available CME/CE activities check out the ‘Activities Catalog’ at learn.heart.org.
Learning at the Movies

CASE THEATERS

Attend 45-Minute Live Presentations of recorded cases by experts in procedures such as structural heart disease, vascular surgery, VAD + transplant, electrophysiology, TAVR, and heart failure management.

Each presentation is accompanied by panel discussion and audience response.

<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter</th>
<th>Time/Location</th>
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<tbody>
<tr>
<td>Coronary Case</td>
<td>Adhir Shroff, Chicago, IL</td>
<td>Sunday, Nov. 16 3:00–3:45 PM</td>
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<td>Structural Heart Disease:</td>
<td>Srihari Naidu, Mineola, NY</td>
<td>Sunday, Nov. 16 4:00–4:45 PM</td>
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<td>Residual Problem After Mitraclip</td>
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<td>PAD/Vascular Surgery:</td>
<td>J. Dawn Abbott, Providence, RI</td>
<td>Monday, Nov. 17 2:00–2:45 PM</td>
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<td>Retrograde Pedal Access Case</td>
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<td>VAD + Transplant:</td>
<td>Navin Kapur, Boston, MA</td>
<td>Monday, Nov. 17 3:00–3:45 PM</td>
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<td>VAD Clot/Dysfunction</td>
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<td>Electrophysiology:</td>
<td>Elad Anter, Boston, MA</td>
<td>Tuesday, Nov. 18 10:00–10:45 AM</td>
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<tr>
<td>Complex VT Ablation</td>
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<td>TAVR:</td>
<td>Jon Resar, Baltimore, MD</td>
<td>Tuesday, Nov. 18 11:00–11:45 AM</td>
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<tr>
<td>Paravalvular Leak After TAVR</td>
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<td>Heart Failure Management</td>
<td>Robb Kociol, Boston, MA</td>
<td>Tuesday, Nov. 18 1:00–1:45 PM</td>
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New in 2014!
Prevention Case Theaters: Application of 2013 ACC/AHA Cholesterol Guidelines

Primary and secondary prevention cases presented and discussed by our panel experts with opportunities for audience interaction and comment.

Moderator: Jennifer G. Robinson, Iowa City, IA
Panel: Donald M. Lloyd-Jones, Chicago, IL
        Neil J. Stone, Chicago, IL
        Vera Bittner, Birmingham, AL
        Clyde W. Yancy Jr., Chicago, IL

Monday, Nov. 17, 4:00–6:00 PM

JOIN US in South Hall A1, Booth 1676!
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We’re proud to introduce the Conference Notes application. Created especially for events like the Scientific Sessions, it’s an app that unlocks the full potential of medical conferences.

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Available during the Scientific Sessions on the App Store. It can be used in the following meeting halls and sessions: Plenary Session (Hall B1), Special Sessions (S100ab & S106ab), Global Congress (S100c) and CVN Symposium (N427abc)

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INFORMATION TO HELP YOU NAVIGATE
Scientific Sessions

TURN THE PAGE —
CONVENTION CENTER MAP INSIDE

Abstracts on Disc
Science & Technology Hall A1, Janssen Booth 659

AHA Hands-Only CPR Training
Science & Technology Hall A1, Booth 825

AHA HeartQuarters
Science & Technology Hall A1, Booth 1059

AHA Professional Membership
Science & Technology Hall A1, AHA HeartQuarters Booth 1059

Arrhythmia Research Summit
(Wednesday, Nov. 19; requires a separate registration fee)
Room N426bc

ATM Machines
South Building, Level 2.5
North Building, Level 2
Lakeside Center, Level 2 (near the ACT Box)

Best of AHA Specialty Conferences
Abstracts
South Hall A2

Bistro in the Science & Technology Hall
Science & Technology Hall A1, Booth 1600

Blood Pressure Kiosks
Science and Technology Hall A1, AHA HeartQuarters Booth 1059
Science and Technology Hall A1, Allto Connections Booth 1079
Four kiosks at Walking Challenge Booth, Grand Concourse Lobby
Speaker Resource Center, Grand Concourse Lobby
Member Circle, North Building Lobby

Business Center (FedEx Kinko’s)
Level 2.5

Cardiovascular Expert Theaters
Science & Technology Hall A1, Booths 108, 174 and 1725

Cardiovascular Nursing Clinical Symposium
(Tuesday, Nov. 18, and Wednesday, Nov. 19; requires a separate registration fee)
CVN Symposium: N427abc
CVN Speaker Resource Room: N426a
CVN Breakfast & Reception Room: N427d

Case Theater: Learning at the Movies
Science & Technology Hall A1, Booth 1676

Coat & Bag Check
Grand Concourse Hallway (between Hyatt and McCormick Place)
North Building, Level 1
Lakeside Center, Level 2

Communication Centers
Grand Concourse Level 2.5
Grand Concourse Lobby

Conference Notes
Grand Concourse Lobby, Speaker Resource Center, Room N130
Science & Technology Hall A1 Booth 338

Continuing Education Credit
(beginning Saturday, Nov. 15)
Communication Centers
learn.heart.org

ePosters
South Hall A2 and throughout the convention center

Early Career Lounge
Grand Concourse Lobby

Early Career Reception (Saturday, Nov. 15)
Grand Concourse Lobby

Emerging Science & Technology Showcase
Science & Technology Hall A1, Booth 1325

Fellows of the AHA (FAHA) Lounge
South Building Lobby, Level 2.5
Lakeside Center, Level 1

Global Congress
Room S105c

Hotel Assistance (Housing Desk)
Grand Concourse Lobby

International Attendance Verification
At self-registration counters, Registration, Grand Concourse Lobby

Maintenance of Certification (MOC)
Room S105d

Meet the Trialists
(Monday, Nov. 17 and Tuesday, Nov. 18)
Science & Technology Hall A1, Booth 870

Members Circle
North Building Lobby, Level 2

Mobile Meeting Guide App
scientificsessions.org/mobile

Mother’s Room
South Building, Level 2.5, First Aid Room

News Media Center
Rooms E253, E270, E271, E353, E451

Plenary Sessions
North Hall B
(Note: Plenary Sessions will move to Room S100a on Wednesday, Nov. 19.)

Poster Hall
South Hall A2

Prayer Room
Room N135

PVD Workshop (Saturday, Nov. 15)
Room S406b

Registration/Exhibitor Registration/ Speaker Registration
Grand Concourse Lobby

Resuscitation Science Symposium (ReSS) (requires a separate registration fee)
Plenary Session: Lakeside Hall D1

Restaurant Reservations
Grand Concourse Lobby

Science & Technology Hall
South Hall A1

Science Sub Committee Lounge/Networking
Science & Technology Hall A1

See You Next Year Booth
(Sessions 2015 — Orlando)
Grand Concourse Lobby

Sessions OnDemand®
AHA HeartQuarters Booth 1059
Level 2.5

Shop Heart (Association Store)
Science & Technology Hall A1, Booth 1386

Show Management Office
Grand Concourse Lobby

Speaker Resource Center
Grand Concourse Lobby

Walking Challenge Booth
Grand Concourse Lobby

Wi-Fi Charging Lounge
Science & Technology Hall A1
South Building, Level 1 Lobby

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- Includes Late Breaking Clinical Trials, the Resuscitation Science Symposium, the Cardiovascular Nursing Clinical Symposium & the Arrhythmia Research Summit
- Optional USB Drive for On-the-Go Access*

* USB drive ships 10 weeks after the meeting. Only presentations that have been approved by the speakers will be included. Pricing excludes shipping and handling. Professional membership must be activated by 11/19/2014. Discounts do not apply to general or professional associate members.

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AHA HeartQuarters Booth #1059

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**Purchase Today At:**

Sessions OnDemand™
Sales Booth, Grand Concourse Lobby
AHA HeartQuarters Booth #1059

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Purchase During Registration or Onsite & Save $200!*
Scientific Sessions is the leading cardiovascular meeting for basic, translational, clinical and population science, in the United States, with more 18,000 cardiovascular experts from more than 105 countries, in addition to more than 1.5 million virtual professional attendees.

Programming is designed to improve patient care by communicating the most timely and significant advances in prevention, diagnosis and treatment of cardiovascular disease from many different perspectives. Sessions includes five days of comprehensive, unparalleled education through more than 5,000 presentations, with 1,000 invited faculty, and 4,000 abstract presentations; all from the world’s leaders in cardiovascular disease. It also includes more than 200 exhibitors showcasing the latest cardiovascular technology and resources.

**Target Audience**
Researchers, scientists, physicians, nurses, pharmacists and other healthcare professionals who care for and treat patients with cardiovascular disease and stroke.

**Meeting Objectives**
Scientific Sessions is structured around seven cardiovascular cores that reflect the evolution of scientific investigation and practice, which includes and integrates basic, translational, clinical and population science, and will increase interaction among attendees. In addition, we have expanded our programming to 26 tracks. Our goals in organizing this year’s Scientific Sessions are listed below. With your participation, we will accomplish them.

- To present recent advances in the diagnosis, treatment and prevention of cardiovascular disease and stroke for physicians, scientists (basic, clinical, population and translational), nurses and healthcare professionals.
- To present new clinical research advances through the Late-Breaking Clinical Trials sessions.
- To provide a forum for the exchange of new research by scientists/investigators working in cardiovascular disease and stroke.
- To provide an opportunity, in various forums including small groups, for attendees to interact with experts in question and answer sessions related to daily practice and public health issues.
- To provide, through the Cardiovascular Seminars, How-To Sessions, Daytime Seminars and Sunday Morning Programs, a review of current patterns in the prevention, diagnosis and treatment of cardiovascular disease and stroke.
- To provide attendees, through the Plenary Sessions, an opportunity to learn about state-of-the-art cardiovascular research and how it applies to clinical practice.

**Learning Objectives**
After completing this program, participants will be able to:

### Basic Science
- Identify major advances in key areas of cutting-edge research and technology in heart failure, atherosclerosis, stroke, cardiovascular genetics, molecular biology and arrhythmias.
- Understand basic processes linking molecular and cellular biology and biochemistry with cardiovascular physiology and pathophysiology.
- Recognize the promises and pitfalls of cell and gene therapy for cardiovascular disease.

### Clinical Science
- Translate emerging clinical science to clinical practice in patients with cardiovascular disease and stroke.
- Evaluate and implement new diagnostic and therapeutic strategies for treating cardiovascular disorders and stroke.

### Population Science
- Evaluate the impact of new diagnostic and therapeutic strategies on health costs and outcomes.

### Translational Science
- Understand the adaptation and testing of fundamental scientific discoveries to the diagnosis and treatment of cardiac and vascular disease in patients.

*Please note: The American Heart Association shall not be liable for cancellation of the Scientific Sessions caused by strikes, civil disorders, acts of war, acts of terrorism, fires, weather conditions, or other acts of God or for any damages or losses resulting from such cancellation.*
How to Navigate the Program

Scientific Sessions integrates four broad areas of basic, translational, clinical and population sciences into its more than 5,000 presentations. To assist you in navigating the meeting, Scientific Sessions offers 26 program tracks. These tracks allow you to focus your education in your specialty or expand your knowledge in other areas.

- Acute Coronary Syndrome
- Atherosclerosis and Thrombosis
- Cardiac Structure and Function
- Cardiopulmonary Resuscitation
- Cardiovascular and Stroke Nursing
- Cardiovascular Stem Cell Biology and Development
- Congenital Heart Defects, Children and Health Throughout the Lifespan
- Diabetes, Lipids and Cardiometabolic Syndrome
- Early Career/Professional Development
- Electrophysiology
- General Cardiology and Structural Heart Disease
- Genetics/Genomics
- Global Congress on Big Data
- Heart Failure
- Hypertension and Kidney Disease
- Imaging
- Interventional Cardiology
- Myocyte Signaling and Ion Channels
- Peripheral Vascular Disease
- Pharmacology
- Prevention, Behavior Change and Healthy Lifestyles
- Pulmonary & Systemic Vascular Biology and Disease
- Quality of Care Outcomes and Epidemiology
- Stroke and Cerebrovascular Disease
- Surgery
- Systems Biology/Physiology including Omics

These tracks can be found behind the “Track” tab in this book or electronically in the mobile app (scientificsessions.org/mobile) or Program and Itinerary Planner (scientificsessions.org/programming).

Don’t Miss!

Opening Session
Sunday, Nov. 16, 1–3 PM, McCormick Place Convention Center, North Hall B

<table>
<thead>
<tr>
<th>Welcome and Presidential Address</th>
<th>Elliott Antman, Boston, MA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairman’s Award Presented to:</td>
<td>Jennifer H. Mieres, Lake Success, NY</td>
</tr>
<tr>
<td>Distinguished Scientist Recognition</td>
<td>Robert M. Califf, Durham, NC</td>
</tr>
<tr>
<td>Basic Research Prize Presented to:</td>
<td>Andre Terzic, Rochester, MN</td>
</tr>
<tr>
<td>Clinical Research Prize Presented to:</td>
<td>Judith Hochman, New York, NY</td>
</tr>
<tr>
<td>Population Research Prize Presented to:</td>
<td>Vasan Ramachandran, Framingham, MA</td>
</tr>
<tr>
<td>Eugene Braunwald Academic Mentorship Award Presented to:</td>
<td>Jeremiah Stamler, Chicago, IL</td>
</tr>
<tr>
<td>Research Achievement Award Presented to:</td>
<td>Shaun R. Coughlin, San Francisco, CA</td>
</tr>
<tr>
<td>Lewis A. Conner Memorial Lecture</td>
<td>Don Ingber, Boston, MA</td>
</tr>
<tr>
<td>Scientific Sessions Program Chair’s Opening Remarks</td>
<td>Robert Harrington, Stanford, CA</td>
</tr>
</tbody>
</table>

- Early Career Development
  Early Career Day and the Early Career/Professional Development track promote networking and mentorship between early career members and senior investigators for scientific outreach and career building. The sessions are open to all attendees but are targeted to early career participants.

Join or renew your AHA/ASA Professional Membership onsite and receive a free gift in HeartQuarters Booth 1059
**Early Career Day**

Sat., Nov. 15 • 8 AM–6:30 PM

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9–NOON</td>
<td>Early Career Opening General Session</td>
<td>McCormick Place Convention Center, S100ab</td>
</tr>
<tr>
<td>NOON–1 PM</td>
<td>Early Career Lunch</td>
<td>McCormick Place Convention Center, S100c</td>
</tr>
<tr>
<td>1–5 PM</td>
<td>Early Career Day Programming</td>
<td>McCormick Place Convention Center</td>
</tr>
<tr>
<td>5–6:30 PM</td>
<td>Early Career Reception</td>
<td>McCormick Place Convention Center, Grand Concourse Lobby</td>
</tr>
<tr>
<td>8 AM–5:20 PM</td>
<td>Peripheral Vascular Disease Fellows in Training Workshop</td>
<td>McCormick Place Convention Center, S406b</td>
</tr>
</tbody>
</table>

**Young Investigator Awards**

Saturday, Nov. 15 • Sunday, Nov. 16

Don’t miss these council-sponsored sessions/competitions on Saturday and Sunday afternoon designed to recognize promising and outstanding investigators in the early stages of their careers and stimulate continued interest in basic or clinical research.

Visit the Early Career Engagement Lounge in Grand Concourse Lobby; network, be mentored, meet the social media experts and engage.

Please see the Early Career/Professional Development track for complete programming information.

• **Global Congress**
  
  *Harnessing the Power of Big Data — Bench-to-Bedside, to Population*

  This exciting, four-day series of seminars and how-to sessions, occurring within Scientific Sessions 2014, will bring together leading experts from around the world on the application of big data science in basic, translational, genomic, clinical, population, quality and outcomes science. Participants and attendees will hear state-of-the-art information on big data science for understanding disease mechanisms, epidemiological determinants and practice for the accelerated improvement in the prevention, treatment and clinical care of cardiovascular disease and stroke on a global scale. The importance of the collection, analysis and leveraging of large scale data resources across the world will be addressed.

• **Meet the Trialists** and engage in informal discussion in a casual setting.

<table>
<thead>
<tr>
<th>MT.01 Meet the Trialists</th>
<th>Monday, November 17, 2014, 1–1:45 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk and Benefit of Prolonged Dual Antiplatelet Therapy After Drug-eluting Coronary Stents: Primary Endpoint Results from the Dual Antiplatelet Therapy Study</td>
<td>Laura Mauri, Boston, MA</td>
</tr>
<tr>
<td>ODYSSEY ALTERNATIVE: Efficacy And Safety of the Proprotein Convertase Subtilisin/kexin Type 9 Monoclonal Antibody, Alirocumab, versus Ezetimibe, in Patients With Statin Intolerance as Defined by a Placebo Run-in and Statin Rechallenge Arm</td>
<td>Patrick Moriarty, Kansas City, KS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MT.02 Meet the Trialists</th>
<th>Tuesday, November 18, 2014, 1–1:45 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPROVE-IT Trial: A Comparison of Ezetimibe/Simvastatin versus Simvastatin Monotherapy on Cardiovascular Outcomes After Acute Coronary Syndromes</td>
<td>Christopher P. Cannon, Boston, MA</td>
</tr>
<tr>
<td>The Surgical Treatment of Moderate Ischemic Mitral Regurgitation: A Randomized Clinical Trial From the Cardiothoracic Surgical Trials Network</td>
<td>Peter K. Smith, Durham, NC</td>
</tr>
</tbody>
</table>
• Case Theaters: Learning at the Movies
Case Theaters are 45-minute live presentations of recorded cases accompanied by moderated panel and audience discussion. The Case Theaters will be presented in South Hall A1, Booth 1676. Seven cases will be presented, covering the following topics:

<table>
<thead>
<tr>
<th>Title</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coronary Case</td>
<td>Sunday, Nov. 16 3–3:45 PM</td>
</tr>
<tr>
<td>Structural Heart Disease: Residual Problem After Mitraclip</td>
<td>Sunday, Nov. 16 4–4:45 PM</td>
</tr>
<tr>
<td>PAD/Vascular Surgery: Retrograde Pedal Access Case</td>
<td>Monday, Nov. 17 2–2:45 PM</td>
</tr>
<tr>
<td>VAD + Transplant: VAD Clot/Dysfunction</td>
<td>Monday, Nov. 17 3–3:45 PM</td>
</tr>
<tr>
<td>Electrophysiology: Complex VT Ablation</td>
<td>Tuesday, Nov. 18 10–10:45 AM</td>
</tr>
<tr>
<td>TAVR: Paravalvular Leak After TAVR</td>
<td>Tuesday, Nov. 18 11–11:45 AM</td>
</tr>
<tr>
<td>Heart Failure Management</td>
<td>Tuesday, Nov. 18 1–1:45 PM</td>
</tr>
</tbody>
</table>

• Prevention Case Theaters:
Application of 2013 ACC/AHA Cholesterol Guidelines
Monday, November 17 4–6 pm

Primary and secondary prevention cases presented and discussed by our panel experts with opportunities for audience interaction and comment.

Moderator:
Jennifer G. Robinson, Iowa City, IA

Panel:
Donald M. Lloyd-Jones, Chicago, IL
Neil J. Stone, Chicago, IL
Vera Bittner, Birmingham, AL
Clyde W. Yancy Jr., Chicago, IL

• Maintenance of Certification
Participants must have signed up for these sessions by Oct. 15 through the AHA registration process. No onsite registration is allowed.

<table>
<thead>
<tr>
<th>Title</th>
<th>Time/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance of Certification: ABIM Learning Session — Cardiovascular Disease 2014 Update (A1-P)</td>
<td>Sunday, Nov. 16 9–11 AM Room S105d</td>
</tr>
<tr>
<td>Maintenance of Certification: ABIM Learning Session — Clinical Cardiac Electrophysiology 2014 Update (B3-P)</td>
<td>Monday, Nov. 17 9–11 AM Room S105d</td>
</tr>
<tr>
<td>Maintenance of Certification: ABIM Learning Session — Interventional Cardiology 2014 Update (B2-P)</td>
<td>Monday, Nov. 17 2–4 PM Room S105d</td>
</tr>
<tr>
<td>Maintenance of Certification: Part 2 Credit Using the American Board of Pediatrics Pediatric Cardiology Subspecialty Self-Assessment (2012, 2013, 2014)</td>
<td>Tuesday, Nov. 18 9–11 AM Room S105d</td>
</tr>
</tbody>
</table>

Special Lectures

Presidential Address
Elliott Antman, Philadelphia, PA
Sunday, Nov. 16, 1:00 PM, Opening Session, North Hall B

Lewis A. Conner Memorial Lecture
Don Ingber, Boston, MA
Sunday, Nov. 16, 1:00 PM, Opening Session, North Hall B

Nobel Laureate Lecture,
Robert Lefkowitz, Durham, NC
Monday, Nov. 17, 12:30–1:30 PM, Ballroom S100ab

Keynote Presentation
Vice President Dick Cheney
Monday, Nov. 17, 9:00 am, North Hall B

Distinguished Scientist Lecture
Robert M. Califf, Durham, NC
Tuesday, Nov. 18, 12:30 PM, Ballroom S100ab

Paul Dudley White International Lecture
Lars Wallentin, Uppsala, Sweden
Tuesday, Nov. 18, 2 PM, North Hall B
Program (Cont)

Abstract Sessions
Oral sessions have been modified to allow for more interaction with the presenter:

Abstract Oral Sessions will have 15 minutes allotted for each abstract presenter (10 minutes presentation followed by 5 minutes of Q&A). The moderators in the session will also serve as discussants. Each discussant will be given 10 minutes to provide a critical analysis of the studies and provide constructive criticism and informed interpretation. There will be a dedicated discussant for each group of five abstracts in the abstract oral session.

State of the Art will have state-of-the-science lectures on exciting areas of research. Speakers have not only made outstanding contributions to the field, but are also recognized for their talents in teaching and communicating information.

Early Career Investigator Award Sessions will recognize promising and outstanding investigators in the early stages of their careers, stimulate continued interest in basic or clinical research, and help early career investigators participate in AHA meetings. Finalists will present their abstracts on Saturday and Sunday afternoon.

Named Lectures are council-sponsored lectures presented throughout the meeting in honor of scientists and AHA volunteers who have made outstanding contributions to the field and the American Heart Association.

Poster Hall
Traditional posters are presented in the Poster Hall from Sunday through Wednesday. Authors are available from 9:30–11:00 AM or 3:00–4:30 PM with Poster Professors making rounds to meet authors for increased interaction and robust discussion.

Missed a poster presenter? QR codes will be available for each poster presentation, so you can view the abstract and listen to the author’s pre-recorded audio as they discuss their study. Just scan the tag with your smartphone!

Best of AHA Specialty Conferences will feature the top 10% abstracts presented at the ISC, EPI/NPAM, ATVB, QCOR, BCVS, and HBPR meetings. Stop by the Poster Hall on Monday from 9:30–11 AM to meet with the presenter. (The posters will be on display the remainder of the week.)

Basic Science Poster Session and Reception will highlight the top basic science abstracts as well as late-breaking basic science abstracts on Monday, Nov. 17, 2014, 4–6 PM South Hall A2, Best of Basic Science and Late-Breaking Basic Science.

eAbstracts are theater sessions featured in each core poster community, highlighting the must-see science of the day. Presenters will discuss their science and answer questions from the audience daily Sunday through Wednesday. Attend these exciting presentations or visit each presenter at their poster to learn more!

Late-Breaking Science
The American Heart Association recognizes that exciting research is often rapidly evolving and may not be available for submission in general. To highlight timely and novel work at Scientific Sessions, the Committee on Scientific Sessions Program developed a series of late-breaking sessions that allow later submission and more rapid presentation than previously possible.

Late-Breaking Clinical Trials
Trials will be presented during multiple sessions, more than ever before. Selection is based on impact and novelty of research, rigor of design/methods, major clinical end point and the quality of the statistical plan.

Clinical Science: Special Reports

Late-Breaking Basic Science
Late-Breaking Basic Science abstracts are evaluated and selected for oral or poster presentation. Evaluation for presentation is based on the impact and novelty of the science. Late-Breaking Basic Science abstracts will be published in Circulation Research, available at circres.ahajournals.org.
General Information

Abstract Author Listing in Final Program
In response to attendee requests for a smaller Final Program, only the presenting author (appearing in italics) and the senior author (appearing in plain text) are listed for each abstract presentation. The complete list of authors and institutions is included with the full text of the abstracts online, the Abstracts on Disc, and in Circulation online (circ.ahajournals.org).

Abstracts from Scientific Sessions 2014
For your convenience, abstracts are now provided electronically via the following products/services:

- Abstracts on Disc (Visit Booth 1059 for a complimentary copy)
- Circulation online (circ.ahajournals.org)
- Mobile Meeting Guide (scientificsessions.org/mobile)
- Online Program and Itinerary Planner (scientificsessions.org)

American Heart Association Daily Newspaper
The Daily News, the AHA’s daily newspaper during Sessions, is distributed at select hotels, at the McCormick Place Convention Center and online at scientificsessions.org. The newspaper contains breaking news, program highlights, upcoming events and other important information.

American Heart Association HeartQuarters
Location: South Hall A1 – Booth 1059
Make HeartQuarters your headquarters throughout Scientific Sessions 2014.

American Heart Association Web Resources
my.americanheart.org
My.americanheart.org for Professionals is the American Heart Association’s powerful Web resource for healthcare professionals. The site has become a valuable tool for countless professionals devoted to the fight against cardiovascular disease and stroke. The site features access to the American Heart Association’s 12 scientific journals, clinical updates, textbooks, statements and practice guidelines, continuing education, professional membership information, breaking medical news and much more.

scientificsessions.org
This site offers healthcare professionals anytime, anywhere access to all aspects of the annual meeting. Register online, learn more about the products and services exhibited at Scientific Sessions 2014, and keep up with the hottest news from the meeting as it happens. All of this and much more can be found at scientificsessions.org.

learn.heart.org
This website is where healthcare professionals can claim CME/CE credit.

Cardiac Life Support Systems
First aid stations are located in the South Building Level 2.5 and the Lakeside Center Level 1. Report emergencies to the nearest security guard or the Show office in the Grand Concourse Lobby. AEDs can be found in all buildings.

Children
Information on child care services is available through the concierge or front desk at each hotel. The AHA does not offer child care services. Because of limited seating capacity and the highly technical nature of the program, children are not allowed to attend sessions. Children between 6 months and 18 years of age are NOT allowed in the Science & Technology Hall. Infants under 6 months of age will be allowed in for show days only. For safety and insurance liability, infants must be held; strollers and infant carriers are not allowed. Parents are required to sign a liability waiver before entering the Science & Technology Hall and badges must reflect that a waiver has been signed. Waivers will be available at Exhibitor Registration in the Grand Concourse Lobby, South Building Level 3, in the McCormick Place Convention Center.

Early Career Engagement Lounge
Visit the Early Career Engagement Lounge in Grand Concourse Lobby; network, be mentored, meet the social media experts and engage.

Fellows of the American Heart Association Lounge (FAHA)
All AHA Fellows are invited to meet, mingle and recharge in the FAHA Lounge, located in South Building, Level 1 Lobby.

First Aid Medical Offices
First aid stations are located in the South Building Level 2.5 and the Lakeside Center Level 1. Report emergencies to the nearest security guard or the Show Office in the Grand Concourse Lobby. AEDs can be found in all buildings.

Guest Badges
Guest badges are for admittance to the Science & Technology Hall only. They can be purchased for $80 at the “Need to Register” counters in the Grand Concourse Lobby. A guest must be a spouse or family member who is age 18 and over but not in an industry-related position where registration would be required. Guest registrants cannot claim CME or CE credits.
**General Information (Cont)**

**Guests of Speakers**
Speaker Guest badges are available at registration in the Grand Concourse Lobby for immediate family of speakers. They must be returned after the presentation.

**Housing Assistance**
A housing desk is located in the Grand Concourse Lobby of the McCormick Place Convention Center and is open during registration hours.

**Loss of Badge Credentials**
The American Heart Association reserves the right to revoke or deny attendance of any registered participant, speaker, exhibitor, news media reporter or photographer at AHA/ASA scientific conferences and meetings.

**Lost Badges**
There will be a $20 charge to reissue lost badges on site.

**Lost and Found**
If you lose or find an item, please go to the American Heart Association Show Office in Show office in the Grand Concourse Lobby.

**Members Circle**
A place to relax, recharge and rejuvenate for AHA Members Only! Members Circle can be found in North Building, Level 2 Lobby.

AHA Membership is located in HeartQuarters Booth 1059. Join or renew onsite and receive a free gift.*

**Multimedia Products/Services**
The following multimedia products/services are available either on site or online at scientificsessions.org.

**Abstracts on Disc**
Search by full text, author, title, or topic. Limited quantities are available at Science and Technology Hall A1 – Booth 659 (Janssen).

**Cardiovascular Expert Theaters**
Enjoy complimentary lunch while learning the latest advances in cardiovascular practices, services and technologies.

<table>
<thead>
<tr>
<th>Booth</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>174</td>
<td>Sunday, November 16, 11:15 AM–1:15 PM  &lt;br&gt;Monday, November 17, Noon–2 PM  &lt;br&gt;Tuesday, November 18, Noon–2 PM</td>
</tr>
<tr>
<td>1725</td>
<td>Sunday, November 16, 11:15 AM–1:15 PM  &lt;br&gt;Monday, November 17, Noon–2 PM  &lt;br&gt;Tuesday, November 18, Noon–2 PM</td>
</tr>
<tr>
<td>108</td>
<td>Sunday, November 16, 11:15 AM–1:15 PM  &lt;br&gt;Monday, November 17, Noon–2 PM  &lt;br&gt;Tuesday, November 18, Noon–2 PM</td>
</tr>
</tbody>
</table>

**Communication Centers**
Convenient computer stations are available for attendees to leave and retrieve conference messages, access the Internet, search for other attendees, print airline boarding passes and claim CME/CE credit. Located in the Grand Concourse Level 2.5 and the Grand Concourse Lobby.

**e-Posters**
View posters online at workstations in the Poster Hall, throughout the Convention Center, or access anytime from any Internet browser and communicate with poster presenters via email. Twenty-four-hour access available online. Attendee log-in required.

**Wifi/Charging Lounges**
Stay connected! Power up your device and log on to free Wi-Fi in the Science and Technology Hall A1.

**Mobile Meeting Guide**
Access AHA Scientific Sessions information on-the-go with your handheld device or smart phone. Download the updated app, available at scientificsessions.org/mobile. Helpful staff members are available at the Mobile Meeting Guide App Desk in the Grand Concourse Lobby or at AHA HeartQuarters, Booth 1059.

**Sessions Itinerary Planner**
Create a personal itinerary by searching the Scientific Sessions program by track, author, keyword, title, session or category at scientificsessions.org. Full text of abstracts is also available.

**Sessions OnDemand™ Premium — Multimedia Sales**
Miss a Session? Sessions OnDemand™ Premium is a digital video library of this year’s meeting online and on a portable USB drive. Experience every session just as if you are in the room. Convenient online and mobile viewing on your iPad®, iPhone® and Android™ Device.

*Special Limited Time Offer*
Buy on site and save $200! Visit the booth in the Grand Concourse Lobby or the AHA HeartQuarters Booth 1059 to see a demo and reserve your copy.

*While supplies last.*
General Information

News Media
The News Media Center headquarters for Scientific Sessions 2014 is located in the Lakeside Building, Level 3. This facility is for the use of registered media only; press credentials are required. For information regarding news releases, news conferences and interviews, visit the News Media Center information desk.

The Industry Newsroom is provided for corporate, industry and academic communications and public relations representatives as a working room to display approved materials. Product news releases and other industry information pertaining to the Scientific Sessions 2014 program and directed to the news media may be left in this area. A fee is required for registration in the Industry Newsroom, located near the News Media Center, Lakeside Building, Level 3.

No-Smoking Policy
The American Heart Association policy prohibits smoking in all areas of the McCormick Place Convention Center and all hotel meeting rooms hosting American Heart Association functions. Thank you for your cooperation.

Photography and Audio/Visual Recording Policy
No person may record any portion of the AHA Scientific Sessions, scientific conferences, and the AHA/ASA International Stroke Conference, whether by video, still or digital photography; audio; or any other recording or reproduction mechanism. This includes recording of presentations and supporting A/V materials and of poster presentations and supporting poster materials. Additionally, science information shared by investigators during a meeting is confidential and often unpublished data. Taking photos of or recording the content of meeting room slides is also prohibited, and is considered intellectual piracy and unethical. Attendees who ignore this policy will be asked to leave the educational session and are at risk of losing their badge credentials. The American Heart Association (AHA) will take photographs and video during its conferences and may display, reproduce and/or distribute them in AHA educational, news or promotional material, whether in print, electronic or other media, including the AHA website. Your registration for an AHA conference is your grant to AHA the right to use your name, image and biography for such purposes as well as any other purpose. All photographs and/or videos become the property of AHA.

Registration
Registration in the Grand Concourse Lobby is open during the following times. Speaker Registration is located in the Grand Concourse Lobby.

Sat., Nov. 15, 7 AM–5:30 PM
Sun., Nov. 16, 7 AM–5:30 PM
Mon., Nov. 17, 7 AM–5:30 PM

Sat., Nov. 14, NOON–5:30 PM
Sat., Nov. 15, 7 AM–5:30 PM
Sun., Nov. 16, 7 AM–5:30 PM

Satellite Registration Hours
Hyatt Regency Chicago (On East Wacker), Skyway Bridge
Fri., Nov. 14, NOON–5:30 PM
Sat., Nov. 15, 7 AM–5:30 PM
Sun., Nov. 16, 7 AM–5:30 PM

Safety
Seating is on a first-come, first-served basis. According to fire code, a session must be closed if the room fills to capacity. Inappropriate behavior or undesirable conduct, including, but not limited to, verbal or physical abuse, whether threatened or performed, will not be permitted or tolerated. You must wear your name badge at all times in the convention center. Be sure to remove your badge when you leave the convention center or your hotel room.

Science & Technology Hall
Education happens in the Science & Technology Hall. This is where you can learn about the latest cardiovascular and stroke products and services. Stay connected by visiting the laptop lounge for free Wi-Fi access and charging stations. The Science & Technology Hall is open Sunday, 11 AM–6 PM; Monday, 10 AM–6 PM and Tuesday, 10 AM–2:30 PM.

Shop Heart Store
Visit Shop Heart for Sessions and AHA souvenirs located in the Grand Concourse Lobby

Shuttle Service
Shuttle bus service to and from official AHA hotels and McCormick Place Convention Center will be provided for those who make hotel reservations with AHA’s housing vendor. Service will be available Nov. 15–19.

Speaker Resource Center, Grand Concourse Lobby
Speakers should stop by the Speaker Resource Center to check presentation slides or to use one of the rehearsal rooms. A lounge is also available for speakers to check their email (Wi-Fi also available), grab some coffee or to simply relax.

Sat., Nov. 15, 7 AM–5:30 PM
Sun., Nov. 16, 7 AM–5:30 PM
Mon., Nov. 17, 7 AM–5:30 PM
Tue., Nov. 18, 7:30 AM–5:30 PM
Wed., Nov. 19, 7:30–11 AM

Wear Red Day
Monday is Wear Red Day in support of American Heart Association’s Go Red For Women®. Nationally sponsored by Macy’s®, Go Red For Women has become the world’s largest network standing together to end heart disease in women. Show your support to end the No. 1 killer of women by wearing red on Monday, and every day at Scientific Sessions!

Wear Sneakers Day
Tuesday, Nov 18th, is Sneaker Day at Scientific Sessions. Be sure to wear your athletic shoes and walk the pathways to health at the convention center.
Where Discovery Meets Practice

For the most significant and timely advances across the full spectrum of cardiovascular disease and stroke, visit:

www.ahajournals.org
For the most significant and timely advances across the full spectrum of cardiovascular disease and stroke, visit:

www.ahajournals.org
AHA/ASA Distinguished Scientists 2014

The American Heart Association recognizes the following Distinguished Scientists. This prestigious designation is bestowed on a select group of prominent scientists whose contributions to research have advanced our understanding of cardiovascular diseases and stroke.

Francois M. Abboud, MD FAHA
Peter Agre, MD FAHA
Piero Anversa, MD FAHA
Elizabeth Barrett-Connor, MD FAHA
Gerald Berenson, MD FAHA
Kenneth E. Bernstein, MD FAHA
Donald M. Bers, PhD FAHA
Roberto Bolli, MD FAHA
Eugene Braunwald, MD FAHA
Jan L. Breslow, MD FAHA
Michael Brown, MD FAHA
Robert M. Califf, MD FAHA
Mario R. Capecchi, PhD FAHA
Martin Chaffie, MD FAHA
Bruce Furie, MD FAHA
Barbara J. Drew, PhD RN FAHA FAAN
Charles T. Esmon, PhD FAHA
Gerald W. Dorn, II, MD FAHA
Bruce Farber, MD FAHA
Charles T. Farber, MD FAHA
Valentin Fuster, MD PhD FAHA
Jacques Genest, MD MACP FRCPC
Michael Gimbrone, MD FAHA
Myron Ginsberg, MD FAHA
David Ginsburg, MD FAHA
Joseph Goldstein, MD FAHA
Garrett J. Gross, PhD FAHA
Scott S. Grundy, MD PhD FAHA
Henry R. Halperin, MD MA FAHA
David G. Harrison, MD FAHA
Richard Havel, BA MS MD FAHA
Charles B. Higgins, MD FAHA
Helen Hobbs, MD FAHA
Louis J. Ignarro, MD FAHA
Tadashi Inagami, PhD FAHA
Hermes A. Kontos, MD PhD FAHA
Evangelia G. Kranias, PhD FAHA
Harlan M. Krumholz, MD SM, FAHA
Lewis H. Kuller, MD DrPH MPH FAHA
Robert Lefkowitz, MD FAHA
Richard Litton, MD PhD FAHA
Joseph Loscalzo, MD PhD FAHA
Robert W. Mahley, MD PhD FAHA
Kenneth G. Mann, PhD FAHA
JoAnn E. Manson, MD MPH DrPH FAHA
Eduardo Marban, MD PhD FAHA
D. Craig Miller, MD FAHA
J.P. Mohr, MD FAHA
Ferid Murad, MD PhD FAHA
Sharon-Lise Normand, BSc(Honours), MSc PhD FAHA
Eric Olson, PhD FAHA
Julio C. Palmaz, MD FAHA
Bruce M. Psaty, MD PhD FAHA
Marlene Rabinovitch, MD FAHA
Paul M. Ridker, MD MPH FAHA
Jeffrey Robbins, PhD FAHA
Dan M. Roden, MDCM FAHA
Joseph Rosch, MD FAHA
Abraham Rudolph, MD FAHA
Christine Seidman, MD FAHA
Jonathan G. Seidman, PhD FAHA
Donald M. Small, MD FAHA
Oliver Smithies, PhD FAHA
Jerimiah Stamler, MD FAHA
Jonathan S. Stamler, MD FAHA
Daniel Steinberg, MD PhD FAHA
Alan R. Tall, MB BS, FAHA
Richard Traystman, PhD FAHA
Roger Y. Tsien, PhD FAHA
Stephen Vatner, MD FAHA
Kenneth Walsh, PhD FAHA
E. Kenneth Weir, DM FAHA
Richard Weisel, MD FAHA
James Willerson, MD FAHA
Philip A. Wolf, MD FAHA
Warren M. Zapol, MD FAHA

2014 Distinguished Scientist Lecture

A Dream from 1978: Making Good Health Decisions Based on Evidence
Tuesday, Nov. 18, 12:30–1:30 pm • McCormick Place Convention Center, S100ab
Robert M. Califf, MD FAHA, Professor of Medicine, Division of Cardiology, Duke University Medical Center, Durham, NC

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
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- Unprecedented access to research and clinical information across multiple specialties.  
- Be a part of our AHA Professional Online Network — connect with peers and leaders in your specialty.  
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- Online access to any 7 AHA scientific journals of your choice (full text).

We’re proud that our membership includes more than 6,000 international professionals, in more than 109 countries outside the United States, dedicated to our mission of building healthier lives, free of cardiovascular diseases and stroke. Become part of a huge network making a global impact on the fight against cardiovascular diseases and stroke. We couldn’t fight this fight without you.

Visit our staff at HeartQuarters in the Science & Technology Hall, Booth 1059 to learn more about the benefits of professional membership and join our network of more than 32,000 members today.

* Benefits depend on membership tier.
Take advantage of your AHA/ASA PROFESSIONAL MEMBERSHIP BENEFITS at Scientific Sessions 2014.

Plus, enjoy many other benefits all year!

Early Career Engagement Lounge
Meet your peers, learn how AHA/ASA can enhance your career and participate in our social media with blogs, posts, tweets and more! Located outside Technology in the Grand Concourse Lobby in Registration.

FAHA Corner
If you are an American Heart Association Fellow, visit the FAHA Lounge, for Fellows only, located in the South Building, Level 1 Lobby. Network, relax and recharge with other AHA Fellows. If you are thinking of joining as a FAHA please visit HeartQuarters Booth 1059 for more information!

Members Circle
A place to relax, recharge and rejuvenate for all AHA/ASA Members! The Members Circle can be found in the North Building, Level 2 Lobby.

Join or renew on site and receive a free gift!**
Visit HeartQuarters in the Science & Technology Hall, Booth 1059.

**While supplies last.

Visit my.americanheart.org/membership for more information on Professional Membership.
AHA/ASA Professional Membership

AHA/ASA Professional Membership and its scientific councils.

The mission of the American Heart Association and its 16 scientific councils is to reduce disability and death from cardiovascular diseases and stroke. This is accomplished by attracting, developing and retaining science volunteers as a source of information to develop current and emerging cardiovascular and stroke science content that is credible, accurate and timely. Professional members participate in committees that determine how our research funding is allocated and which programs and abstracts will be presented at Scientific Sessions and other AHA scientific conferences. They also participate in writing groups that produce scientific statements and guidelines. Our vision is to be widely recognized by the public and healthcare professionals as the premier knowledge base for scientific information on the diagnosis, treatment and prevention of cardiovascular diseases and stroke. In pursuit of this mission, the scientific councils have established programs to serve the science community, highlight research and reward significant accomplishments in the field of cardiovascular diseases and stroke. These programs include the Young Investigator Competitions, Distinguished Achievement Awards and Named Lectures.

Council Luncheons, Receptions and Dinners

Tickets are required for admission to these council events. If you registered in advance, please go to the “Already Registered” counter in the registration area to pick up your ticket(s) and your badge. Tickets will be sold in the registration area in Grand Concourse Lobby until 3 PM Tuesday and then at the Hyatt Regency McCormick Place from 5–8 PM on Tuesday evening. Prices for tickets purchased on site increase $5–$10. Tickets are nontransferable and nonrefundable. You may attend only the event for which you purchase a ticket. No exceptions. For more information, see scientificsessions.org.
The Council on Arteriosclerosis, Thrombosis and Vascular Biology works to advance and disseminate novel, state-of-the-art information and to improve prevention, diagnosis and treatment of cardiovascular diseases and stroke. The council’s flagship activities include an interdisciplinary annual conference and its scientific journal. The council recognizes and supports highly accomplished junior and senior investigators with special activities and awards.

**George Lyman Duff Memorial Lecture**
Helen Hobbs, Dallas, TX
PCSK9: From Discovery to Therapeutics
Mon., Nov. 17, 10:45–11:15 AM
McCormick Place Convention Center, Room S504
The Society for the Study of Arteriosclerosis established this lecture in 1956 in memory of Dr. George Lyman Duff, a founding member and past president of the original society. Dr. Duff was one of Canada's most distinguished pathologists and medical educators. This award is among the most longstanding and prestigious of the AHA awards.

**Russell Ross Memorial Lecture in Vascular Biology**
Christopher Glass, La Jolla, CA
Deciphering the Genetic Code Specifying Macrophage Identity and Function
Tues., Nov. 18, 2–2:30 PM
McCormick Place Convention Center, Room S104
This lecture originated in 1982 as the Council on Thrombosis Lecture. The focus was changed to vascular biology in 1997 when the Arteriosclerosis Council, the Thrombosis Council and the Vascular Biology Working Group merged. In 1999, it was renamed to honor Dr. Russell Ross.

**Sol Sherry Distinguished Lecture in Thrombosis**
Sriram Krishnaswamy, Philadelphia, PA
Thrombin Formation: A Paradigm for Zymogen Activation in Coagulation
Mon., Nov. 17, 2–2:30 PM
McCormick Place Convention Center, Room S103bc
The Sol Sherry Lecture honors the founder of the Council on Thrombosis, which merged with the Council on Arteriosclerosis and the Vascular Biology Working Group in 1996. During the 1960s, Dr. Sherry had recognized that little attention was given to the study of thrombosis, and that there was inadequate appreciation of its importance as a major health problem. He initiated and headed a task force on thrombosis for the National Academy of Sciences National Research Council, resulting in the formation of the International Society on Thrombosis and Hemostasis, the creation of Specialized Centers of Thrombosis Research (NHLBI) and the start of the AHA's Council on Thrombosis. This award is made possible by individual contributions from colleagues of Dr. Sherry.

**Joint Program Committee Meeting**
Hyatt Regency Chicago, Soldier Field
Sun., Nov. 16 • 7–8 AM

**ATVB/Lifestyle Clinical Lipidology, Lipoprotein Metabolism and Thrombosis Committee Meeting**
Hyatt Regency McCormick Place, Boardroom 1
Sun. Nov. 16, 3:45–5 PM

**AHA Distinguished Scientist**
Bruce Furie, Boston, MA
PCSK9: From Discovery to Therapeutics
Mon., Nov. 17, 10:45–11:15 AM
McCormick Place Convention Center, Room S504
Pirkka-Pekka Laurila, Helsinki, Finland
Mireille Ouimet, New York, NY
Konstantinos Stellos, Frankfurt, Germany

**Research Achievement Award**
Kathy Griendling, Atlanta, GA
Bruce Furie, Boston, MA
ATVB Council Award for Outstanding Research by an Early Career Investigator
Hyatt Regency McCormick Place, Grand Ballroom S100ab
Sun., Nov. 16 • 7–8 AM

**Annual Awards and Business Meeting Luncheon**
Hyatt Regency McCormick Place, Grant Park CD/CC12cd
(All ATVB Council Members are invited.)
- Box lunch provided
- Officer election, committee reports, newly elected FAHAs, award presentations

**Special Recognition Awards**

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<thead>
<tr>
<th>Arteriosclerosis</th>
<th>Thrombosis</th>
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<tr>
<td>Ziad Mallat, Cambridge, UK</td>
<td>Alan Mast, Milwaukee, WI</td>
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<td>Catherine Reardon, Chicago, IL</td>
<td>Chantal Boulanger, Paris, France</td>
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<th>Vascular Biology</th>
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<td>Joseph Michael Miano, Rochester, NY</td>
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<td>William Charles Sessa Jr., New Haven, CT</td>
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**ATVB Distinguished Achievement Award**
Kathy Griendling, Atlanta, GA

**Research Achievement Award**
Shaun Coughlin, San Francisco, CA

**Early Career Networking Reception**
Hyatt Regency Chicago, Grand AB
Sat., Nov. 15 • 7–9 PM

**Early Career Investigator**
Kathryn Moore, New York, NY

**Special Thanks to the Arteriosclerosis, Thrombosis and Vascular Biology Scientific Sessions Program Committee**
Gregory Shelnutt, Winston-Salem, NC, Chair
Karry Anne Rye, New South Wales, Australia, Vice-Chair
Karen Bornfeldt, Seattle, WA
Hua Linda Cai, Los Angeles, CA
William Chilian, Rootstown, OH
Yabing Chen, Birmingham, AL
Judy Muller Delp, Gainesville, FL
Xiaoping Du, Chicago, IL

**Arteriosclerosis, Thrombosis and Vascular Biology**
Sat., Nov. 15 • 9–6:30 PM
9–Noon Early Career Opening General Session
McCormick Place Convention Center, Ballroom S100ab
Noon–1 PM Early Career Day Lunch
McCormick Place Convention Center, S100c
Early Career Luncheon sponsored by AHA/ASA Membership
1–5 PM Early Career Day Programming
McCormick Place Convention Center
5–6:30 PM Early Career Reception
McCormick Place Convention Center
Grand Concourse Lobby
Sat., Nov. 15 • 1–5 PM
Leadership Committee Meeting
Hyatt Regency Chicago, Regency A

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Basic Cardiovascular Sciences

The goals of the Council on Basic Cardiovascular Sciences are to promote research and education and to improve understanding of mechanisms of basic cardiovascular regulation. This supports development of new therapies and insights into the development of clinical cardiovascular disease. The council recognizes and supports junior and senior investigators with special activities and awards.

George E. Brown Memorial Lecture
Jianyi Zhang, Minneapolis, MN
Patching the Heart: Myocardial Metabolism, Perfusion, and Functional Recovery
Mon. Nov. 17, 10:45–11:15 AM
McCormick Place Convention Center, S404bcd
Friends of Dr. Brown established the lecture in 1935, soon after his death. His clinical research in the field of peripheral circulation resulted in many outstanding contributions. He was a member of one of the small groups that formed the Section for the Study of Peripheral Circulation (later to become the Council on Circulation) of the American Heart Association.

Thomas W. Smith Memorial Lecture
Junichi Sadoshima, Newark, NJ
Regulation of Myocardial Growth and Death By the Hippo Signaling Pathway
Tue. Nov. 18, 2:00–2:30 PM
McCormick Place Convention Center, S405
Established in 1997 by the Council on Basic Science to honor Dr. Thomas W. Smith, a pioneer in the application of biochemical, cellular and molecular approaches to investigative cardiac contractility. Made possible by a grant from Merck & Co, Inc.

Sat., Nov. 15 • 8–Noon
BCVS Leadership Committee Meeting
Hyatt Regency Chicago, Toronto

Sat., Nov. 15 • 9–6:30 PM
9–Noon Early Career Opening General Session
McCormick Place Convention Center, S100ab
Noon–1 PM Early Career Day Lunch
McCormick Place Convention Center, S100c
Early Career Luncheon sponsored by AHA/ASA Membership
1–5 PM Early Career Day Programming
McCormick Place Convention Center
5–6:30 PM Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby

Sun., Nov. 16 • 7–8 AM
BCVS Early Career Committee Meeting
Hyatt Regency Chicago, San Francisco

Sun., Nov. 16 • 3:45–5 PM
Louis N. and Arnold M. Katz Basic Science Research Prize for Young Investigators Competition
McCormick Place Convention Center, S406b

Sun., Nov. 16 • 5:15–6:30 PM
Melvin L. Marcus Young Investigator Award in Cardiovascular Science Competition
McCormick Place Convention Center, S106

Tues., Nov. 18 • 7–Noon
Annual Dinner and Business Meeting
Palmer House, Grand Ballroom
- Officer election and at-large member election, committee reports, award presentation

AHA Distinguished Scientist
Gerald W. Dorn, II, St. Louis, MO

BCVS Distinguished Achievement Award
Elizabeth McNally, Chicago, IL

Katz Basic Science Research Prize for Young Investigators
Jennifer Davis, Cincinnati, OH
Seitaro Nomura, Tokyo, Japan
Elaine E. Wirrig, Cincinnati, OH
Amy K. Rines, Boston, MA
Hector A. Cabrera-Fuentes, Giessen, Germany

Marcus Young Investigator Award in Cardiovascular Science
Haodi Wu, Stanford, CA
Dennis M. Abraham, Durham, NC
Svetlana Reilly, Oxford, UK
Nirmala Hariharan, San Diego, CA
Shoji Matsushima, Sapporo, Japan

Special Thanks to the Basic Cardiovascular Scientific Sessions Program Committee
Gerald W. Dorn II, St. Louis, MO, Chair
Jianyi (Jay) Zhang, Minneapolis, MN
Raj Kishore, Chicago, IL
Hong Wang, Philadelphia, PA
Jeanne Nerbonne, St Louis, MO
Thomas Vondriska, Los Angeles, CA
Walter J. Koch, Philadelphia, PA
Joseph Hill, Dallas, TX
The Cardiopulmonary, Critical Care, Perioperative and Resuscitation Council promotes research and training in the investigation of pulmonary vascular diseases, cardiopulmonary resuscitation and optimally effective emergency care. The council develops programs and sponsors conferences that disseminate current research results and collaborates with other disciplines to provide position papers based on current evidence. The council welcomes and honors clinicians, investigators and EMTs.

Dickinson W. Richards Memorial Lecture
Werner Seeger, Biebertal, Germany
Treatment of Pulmonary Hypertension: The Past and the Future
Tue., Nov. 18 9–9:30 AM
McCormick Place Convention Center, S103d
Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation (3CPR) established the lecture in 1973. Dr. Richards shared the Nobel Prize in 1956 with Drs. Andre Cournand and Werner Forssman for work leading to a practical method of cardiac catheterization. Dr. Richards served as associate editor of Circulation in the 1950s.

Sat., Nov. 15 • 8–6:15 PM
Resuscitation Science Symposium (ReSS)
McCormick Place Convention Center, Hall D
Requires Separate Registration Fee

Sat., Nov. 15 • 9–6:30 PM
9–Noon Early Career Opening General Session
McCormick Place Convention Center, S100ab
Noon–1 PM Early Career Day Lunch
McCormick Place Convention Center, S100c
1–5 PM Early Career Day Programming
Emerging Researchers from 3CPR Council: How to Build a Road Map for Your Career in Cardiopulmonary, Critical Care, Perioperative and Resuscitation Research
McCormick Place Convention Center S401bcd
5–6:30 PM Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby

Sat., Nov. 15 • 7–10 PM
Leadership Committee Meeting
Hyatt Regency Chicago, Soldier Field

Sun., Nov. 16 • 8 AM–6 PM
Resuscitation Science Symposium (ReSS)
McCormick Place Convention Center, Hall D
Requires Separate Registration Fee

Sun., Nov. 16 • 3:45–5 PM
Cournand and Comroe Young Investigator Award Competition
McCormick Place Convention Center, S402bcd

Mon., Nov. 17 • Noon–1:30 PM
3CPR Early Career Committee Meeting, Burnham C

Mon., Nov. 17 • Noon–1:30 PM
3CPR Early Career Committee Meeting
Hyatt Regency McCormick Place, Burnham C

Mon., Nov. 17 • 3:45–5 PM
2014 Cardiopulmonary Best Abstract Award Presentation
McCormick Place Convention Center, S103d
Francois Potus, QC, Canada

Tuesday, Nov. 18 • 9–10:15 AM
2014 Cardiopulmonary Best Abstract Award Presentation
McCormick Place Convention Center, S103d
Keiko Ryo, Pittsburgh, PA

Tues., Nov. 18 • 9–10:15 AM
2014 Resuscitation Best Abstract Award Presentation
McCormick Place Convention Center, S402bcd
Florence Dumas, Paris, France

Tues., Nov. 18 • Noon–1:30 PM
3CPR Early Career Committee Meeting Luncheon
Hyatt Regency McCormick Place, Grant Park B

Tues., Nov. 18 • 7–10 PM
Annual Reception, Dinner, and Business Meeting
Hyatt Regency Chicago, Regency B
• After-dinner talk
• Officer elections
• New Council fellows

Dickinson W. Richards Memorial Lecture Recognition
Werner Seeger, Biebertal, Germany

Distinguished Achievement Award
Kenneth Bloch, Boston, MA

Resuscitation Best Abstract Award
Florence Dumas, Paris, France

Cardiopulmonary Best Abstract Award
Francois Potus, QC, Canada
Keiko Ryo, Pittsburgh, PA

Cournand and Comroe Young Investigator Award Presentation
Evan Brittian, Nashville, TN
Eizo Marutani, Charlestown, MA
Yen-Chun Lai, Pittsburgh, PA
Ky Yuen, Stanford, CA
Joshua Lampe, Philadelphia, PA

Max Harry Weil Award Winner
Kotaro Kida, Charlestown, MA

Emergency Medical Services (EMS) Travel Stipend Recipients
After Dinner Talk
Benjamin Abella, Philadelphia, PA

The History of Therapeutic Hypothermia: A Global Journey
Special Thanks to the 3CPR Council’s Program Committee
Benjamin Abella, Philadelphia, PA, Chair
Fumito Ichinose, Charlestown, MA, Vice Chair
Tom Aufderheide, Milwaukee, WI
Raed Dweik, Cleveland, OH
Dana Edelson, Chicago, IL

Mark T. Gladwin, Pittsburgh, PA
Francois Haddad, Palo Alto, CA
Julia H. Indik, Tucson, AZ
Mary Ann Peberdy, Richmond, VA
John Ryan, Salt Lake City, UT
Jerry Vanden Hoek, Chicago, IL

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The Council on Cardiovascular Disease in the Young supports the mission of the AHA with an emphasis on heart health in children. We focus on promoting issues related to cardiovascular disease prevention, recognition and treatment of congenital and acquired heart disease in infants, children and young adults. Our interests range from clinical care and clinical research to the pursuit of questions at the basic science level. We encourage research studies that include the pediatric patient with cardiac issues. We also encourage our members to mentor newer members of the AHA pediatric cardiology community to promote ongoing outstanding cardiac care for children. The council awards the Outstanding Research Award in Pediatric Cardiology annually to three investigators whose work demonstrates innovative and outstanding research in cardiovascular disease of young people.

**William J. Rashkind Memorial Lecture**
Thomas McDade, Evanston, IL
An Anthropologist’s View of Child Health: What Can Other Cultures Teach Us About Disease Prevention
Tues., Nov. 18, 7–9:30 AM (CVDY Council Dinner)
Hyatt Regency Chicago, Plaza Ballroom
Dr. Rashkind and his family established the lecture in 1986, shortly before his death. Dr. Rashkind was an internationally recognized pediatric cardiologist and is credited for having developed balloon atrial septostomy and was an active volunteer for the American Heart Association at both the state and national level. It is well-known that Dr. Rashkind and his wife, Rita, demonstrated a passion for the performing arts as well as its linkage and interaction with the art of medicine. This lecture is made possible by a grant from the late Dr. Rashkind and his family.

**CVDY Alexander S. Nadas Memorial Lecture**
Bruce Gelb, New York, NY
The Genetics of Congenital Heart Disease: Past and Present, Tension Between Simple and Complex.
Mon. Nov. 17, 9–9:30 AM
McCormick Place Convention Center, S102d
The Alexander S. Nadas Memorial Lecture was established in 1986 by the Council on Cardiovascular Disease in the Young to honor Dr. Nadas, who is recognized as one of the pioneers of pediatric cardiology. Dr. Nadas is known for his teaching of fellows. Both directly and indirectly through those he has trained, he is responsible for many of the advances that have made pediatric cardiology in the U.S. second to none. He was an active supporter of AHA and the Council on Cardiovascular Disease in the Young for many years.

**Fri., Nov. 14 • 1–5 PM**
Rheumatic Fever, Endocarditis and Kawasaki Disease (RFEKD) Committee Meeting
Hyatt Regency Chicago, New Orleans

**Sat., Nov. 15 • 7–10 AM**
Congenital Cardiac Defects (CCD) Committee Meeting
Hyatt Regency Chicago, Haymarket

**Sat., Nov. 15 • 9–6:30 PM**
Early Career Opening General Session
McCormick Place Convention Center, S100ab

**NOON – 1 PM**
Early Career Day Lunch
McCormick Place Convention Center, S100c
Early Career Luncheon sponsored by AHA/ASA Membership

**1–3 PM**
Early Career Day Programming
Council on Cardiovascular Disease in the Young Breakout: Keys to Early Career Success in Pediatric Cardiology
McCormick Place Convention Center, S404a

**5–6:30 PM**
Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby
Sat., Nov. 15 • 1–5 PM
CVDY Leadership Committee Meeting
Hyatt Regency Chicago, Gold Coast

**Sun., Nov. 16 • 3:45–5 PM**
CVDY Early Career Investigator Award Competition
McCormick Place Convention Center, S101
James Priest, Redwood City, CA George Nicholson III, Atlanta, GA

**Mon., Nov. 17 • Noon–1:30 PM**
CVDY Early Career Networking Lunch
Join your colleagues for lunch and opportunity to network with peers.
Boxed Lunch provided!
Hyatt Regency McCormick Place, Grant Park BCD/CC12bcd
Mon., Nov. 17 • 7–9 PM
Adults with Congenital Heart Disease (ACHD) Committee Meeting
Joint CVDY/CLCDD
Hyatt Regency Chicago, San Francisco
Mon., Nov. 17 • 9–10:15 AM
Outstanding Research Awards in Pediatric Cardiology Abstract Presentations
McCormick Place Convention Center, S102d
Helena Gardiner, Houston, TX Shuta Ishigami, Okayama, Japan
Travis Wilder, Toronto, Canada

**Mon., Nov. 17 • Noon–1:30 PM**
Pediatric Heart Failure
Hyatt Regency McCormick Place, Clark A

**Tues., Nov. 18 • Noon–1:45 PM**
Atherosclerosis, Hypertension and Obesity in the Young (AHODY) Committee Meeting
Hyatt Regency McCormick Place, Clark A

**Tues., Nov. 18 • 7–9:30 PM**
CVDY Annual Business Meeting and Council Dinner
Hyatt Regency Chicago, Plaza Ballroom
William J. Rashkind Memorial Lecture
Thomas McDade, Evanston, IL
CVDY Alexander S. Nadas Memorial Lecture
Bruce Gelb, New York, NY

**AHA Award of Meritorious Achievement**
Dianne Atkins, Iowa City, IA

**CVDY Meritorious Achievement Award**
D. Woodrow Benson, Milwaukee, WI

**Outstanding Research Awards in Pediatric Cardiology**

**CVDY Early Career Investigator Award Presentation**

**CVDY Visiting Professorship Update**

**Newly Elected FAHAs**

**Special Thanks to the Cardiovascular Disease in the Young Program Committee**

**Meryl Cohen, Philadelphia, PA, Chair**
**Michelle Gurvitz, Boston, MA**
**Michael Ackerman, Rochester, MN**
**Yuk Law, Seattle, WA**
**Charles Berul, Washington, DC**
**Ariane Marelli, Quebec, Canada**
**Scott Bradley, Charleston, NC**
**Bradley Marino, Chicago, IL**
**Sarah De Ferranti, Boston, MA**
**Wolfgang Radtke, Wilmington, DE**
**Elizabeth Goldmuntz, Philadelphia, PA**
The Council on Cardiovascular and Stroke Nursing identifies and articulates the areas where nurses can lead in the American Heart Association’s fight against heart disease and stroke. The council’s committees develop educational programs and state-of-the-art position papers, give awards in clinical nursing and nursing research and highlight member accomplishments and activities in their newsletter and website.

Katharine A. Lembright Award and Lecture

Increasing Knowledge about Cognitive–Behaviorally Based Cardiovascular Risk Reducing Interventions in Vulnerable and Diverse Populations

Nancy Artinian, Detroit, MI

McCormick Place Convention Center, Room S502

This award recognizes and encourages excellence in cardiovascular research by established nurse scientists. Katharine A. Lembright, as the AHA’s assistant director for nursing (1960–81), played an important role in the development and growth of the Council on Cardiovascular Nursing.

Additional Sessions:

Tips for Building a Successful Program of Clinical Research
Barbara J. Drew, San Francisco, CA

Sat., Nov. 15 • 4:30–5 PM

McCormick Place Convention Center, Room S502

Established by the Cardiovascular and Stroke Nursing Council to recognize Dr. Kathleen Dracup as a Pillar of Excellence for exceptional and lifelong contributions to cardiovascular nursing, and CSVN’s commitment to fostering the development of the next generation of scientists. Dr. Dracup’s mentorship, dedication to and development of early-career cardiovascular nurse scientists has set in motion an incredible acceleration in the development in the cardiovascular nursing science and new knowledge to improve the care of patients with cardiovascular disease and their families.

Katharine A. Lembright Award and Lecture

Increasing Knowledge about Cognitive–Behaviorally Based Cardiovascular Risk Reducing Interventions in Vulnerable and Diverse Populations

Nancy Artinian, Detroit, MI

Sun., Nov. 16 • 3:45–4:15 PM

McCormick Place Convention Center, Room S100ab

This award recognizes and encourages excellence in cardiovascular research by established nurse scientists. Katharine A. Lembright, as the AHA’s assistant director for nursing (1960–81), played an important role in the development and growth of the Council on Cardiovascular Nursing.

Sat., Nov. 15 • 9–6:30 PM

9–Noon Early Career Opening General Session
McCormick Place Convention Center, S100ab

Noon–1 PM Early Career Day Lunch
McCormick Place Convention Center, S100c

1–5 PM Keys to Success in Contemporary Nursing Science
McCormick Place Convention Center, Room S502

5–6:30 PM Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby

Sat., Nov. 15 • 8–Noon

CVSN Leadership Committee Meeting
Hyatt Regency Chicago, Crystal A Room

Sun., Nov. 16 • 11–12:30 PM

Pediatric Nursing Committee Meeting
Hyatt Regency McCormick Place, Room Clark B/CC22b

Sun., Nov. 16 • 3:45–4:15 PM

Lembright Award and Lecture
McCormick Place Convention Center, Room S502

Sun., Nov. 16 • 4:15–5 PM

Martha N. Hill New Investigator Award Competition
McCormick Place Convention Center, Room S502

Sun., Nov. 16 • 7–9:30 PM

CLCD/CSVN Cardiovascular Disease and Stroke in Older Populations Committee Meeting
Hyatt Regency Chicago, Picasso Room

Tue., Nov. 18 • 9:15–9:30 AM

CVSN Best Abstract Award
McCormick Place Convention Center, S502

Eun Kyeung Song, Ulsan, Korea

Tues., Nov. 18 • 1–4:30 PM and Wed., Nov. 19 • 7 AM–3:00 PM

Cardiovascular Nursing Clinical Symposium 2014

McCormick Place Convention Center, Room N427ad

This cardiovascular clinical symposium provides the most up-to-date evidence-based practices for nurses who care for cardiovascular patients to promote optimal patient outcomes. Case studies will be presented to provide an opportunity for nurses to enhance critical thinking skills when caring for patients with cardiovascular disease. Separate registration required.

Tues., Nov. 18 • 7–8:00 AM

Complex Cardiovascular Patient and Family Care Committee Meeting
Hyatt Regency Chicago, Gold Coast Room

Tues., Nov. 18 • Noon–2 PM

Pediatric Research Networking Luncheon
Hyatt Regency McCormick Place, Burnham A & B/CC23AB

Tues., Nov. 18 • 7–10 PM

Annual Dinner, Business Meeting and Awards Presentation
Hyatt Regency Chicago, Regency A

• Networking
• Donor Recognition
• Recognition of new fellows and awardees

Katharine A. Lembright Award

Nancy Artinian, Detroit, MI

Martha N. Hill New Investigator Award Finalists
Salah S. Al-Zaiti, Monroeville, PA
Erica Schorr, Minneapolis, MN
Leonie L. Rose Bovino, Stratford, CT

CVSN Best Abstract Award

Eun Kyeung Song, Ulsan, Korea

Excellence in Clinical Practice Award
Sue Pugh, Baltimore, MD

Clinical Article of the Year Award
Terry Lennie, Lexington, KY

Research Article of the Year Award
Holli DeVon, Chicago, IL

Stroke Article of the Year Award
Ruth Taylor-Piliae, Tucson, AZ

Arteriosclerosis/Heart Failure Research Award
Martha Biddle, Lexington, KY

Marie Cowan Promising Young Investigator Award
Selina Berg, Copenhagen, Denmark

Esteemed in Aging Award
Mary Dolansky, Cleveland, OH

Special Thanks to the Cardiovascular and Stroke Nursing Program Committee

Nancy Artinian, Detroit, MI, Chair
Karen Uzark, Cincinnati, OH
Bunny Pozehl, Lincoln, NE, Vice Chair
Carole Decker, Kansas City, MO
Todd Ruppar, Columbus, MO
Holli DeVon, Chicago, IL
Kathy Berra, Menlo Park, CA
Kathy Wood, Durham, NC
Kathleen Hickey, New York, NY
Christopher Lee, Portland OR
Mary E. Lough, Stanford, CA
Rose Shaffer, Philadelphia, PA
Sue Sendelbach, Minneapolis, MN
Debra Wiegand, North Wales, PA
Leanne Steinke, Wichita, KS

Special Thanks to the Cardiovascular and Stroke Nursing Clinical Symposium Program Committee

Deborah Klein, Cleveland, OH, Chair
Sara Paul, Conover, NC
Barbara “Bobbi” Leeper, Dallas, TX
Rose Shaffer, Philadelphia, PA
Anthony McGuire, Long Beach, CA
Bonnie Tong, New York, NY
Marcia Murphy, Chicago, IL
Robin Trupp, Durham, NC

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
Cardiovascular Radiology and Intervention

The Council on Cardiovascular Radiology and Intervention comprises members of the imaging, interventional and clinical communities. The council is strengthened by relationships with many radiology professional societies, including SIR, NASCI, ASRT, ASNR, ASITN, RSNA and ARNA, as well as other AHA councils. This year the council sponsored travel stipends for young investigators to attend the NASCI conference and contributed to the student scholarships of the American Heart Association to stimulate students to conduct research projects in cardiovascular disease and stroke.

Charles T. Dotter Memorial Lecture
Joao A.C. Lima
Addressing Ischemic Heart Disease as the Number One Cause of Disease Burden Worldwide: A Call for Action from the Cardiovascular Imaging Community

Tues., Nov. 18 • 2–2:30 PM
McCormick Place Convention Center, Room N231

Established in 1987 by the Council on Cardiovascular Radiology in honor of Dr. Charles T. Dotter, who contributed significantly to the evaluation of cardiovascular angiography and who pioneered the development of angioplasty and other interventional cardiovascular procedures.

Sat., Nov. 15 • 7–8 AM
Vascular Imaging Committee Meeting (Joint CVRI/PVD)
Hyatt Regency Chicago, Acapulco Room

Sat., Nov. 15 • 9–6:30 PM
9–NOON Early Career Opening General Session
McCormick Place Convention Center, S100ab

NOON–1 PM Early Career Day Lunch
McCormick Place Convention Center, S100c

1–5 PM Early Career Luncheon sponsored by AHA/ASA Membership
McCormick Place Convention Center, S505

5–6:30 PM Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby

Sat., Nov. 15 • 6–10 PM
CVRI Leadership Committee Meeting
Hyatt Regency Chicago, Regency A Room

Sun., Nov. 16 • 11–12:30 PM
Cardiac Imaging (IMG) Committee Meeting (Joint CVRI/CLCD)
Hyatt Regency McCormick Place, Adler C/CC24c Room

Sun., Nov. 16 • 3:45–5 PM
Melvin Judkins Young Investigator Award Competition
McCormick Place Convention Center, Room N230b

Micaela Iantorno, Herndon, VA
Viky Suncion, Miami, FL
Michael Quail, Greater London, UK
Marianna Fontana, London, UK

Tues., Nov. 18 • 2–2:30 PM
Charles T. Dotter Memorial Lecture
McCormick Place Convention Center, Room N231
Joao A.C. Lima, Baltimore, MD

Tues., Nov. 18 • 7–9:30 PM
Annual Dinner, Business Meeting and Awards Presentation
Hyatt Regency Chicago, Crystal A

Melvin Judkins Young Investigator Award

Charles T. Dotter Memorial Lecturer Recognition

Distinguished Achievement Award
Arthur E. Stillman, Atlanta, GA

Early Career Investigator Travel Stipend Winners

Newly Elected FAHAs

Special Thanks to the Cardiovascular Radiology and Intervention Program Committee

Sanjay Misra, Rochester, MN, Chair
Jill Jacobs, New York, NY, Vice-Chair
Mouaz Al-Mallah, Detroit, MI
Leon Axel, New York, NY
David Bluemke, Bethesda, MD
James Carr, Chicago, IL
J. Kevin DeMarco, East Lansing, MI

Vincent Ho, Bethesda, MD
Thomas Gerber, Rochester, MN
Birgit Kantor, Rochester, MN
Harold Litt, Philadelphia, PA
Constantino Pena, Miami, FL
Pamela Woodard, St. Louis, MO
Chun Yuan, Seattle, WA
The Council on Cardiovascular Surgery and Anesthesia is made up of surgeons, anesthesiologists, scientists and allied health professionals focused on cardiac, vascular and thoracic diseases and interventions. The council is involved in the full range of activities of the American Heart Association, including basic science and clinical investigation, evidenced by the extensive array of presentations at this year’s Scientific Sessions. The council invites presenters at council-sponsored sessions to submit manuscripts for possible publication in the surgical supplement to Circulation. The council is dedicated to the development of the next generation of physician-scientists. During Scientific Sessions, council members will oversee the Vivien Thomas Young Investigator Award Competition. The council is a vibrant organization, and we invite applications for membership. Council members with special dedication to fulfilling the mission of the American Heart Association may apply for Fellowship.

**William W. L. Glenn Lecture**

Phillipe Menasche, Paris, France

*Stem Cells for the Treatment of Heart Failure: What is Still Missing for a Prime Time Use?*

Mon., Nov. 17, 9–9:30 AM

McCormick Place Convention Center, S406a

The Council on Cardiovascular Surgery and Anesthesia established the lecture in 1988 to honor Dr. William W. L. Glenn, American Heart Association president in 1970–71, and the first surgeon to hold that office. Dr. Glenn spearheaded early activities of the council and was very active in AHA programs. A pioneer in cardiac surgery, he made important contributions to the treatment of congenital and acquired heart disease. Made possible by individual contributions from friends and colleagues of Dr. Glenn.

**Sat., Nov. 15 • 1–5 PM**

Leadership Committee Meeting

Hyatt Regency Chicago, Comiskey
Clinical Cardiology

The Council on Clinical Cardiology supports the AHA mission by promoting excellence in patient care, education and clinical investigation. Through the efforts of its members, the council actively contributes to numerous educational programs and scientific statements across a broad spectrum of topics. It emphasizes mentorship, meaningful professional volunteerism and career development for clinician-scientists. It is a powerful advocate for the cardiovascular health of the public. During Scientific Sessions, council members will participate in the Fellows in Training and Early Career Program and oversee the Levine and Laennec competitions for young clinicians and investigators. The council will host its annual dinner on Saturday night, where the clinician winners and other significant awards will be announced along with the presentation of the prestigious Herrick Award.

James B. Herrick Award and Lecture
Kanu Chatterjee, Iowa City, Iowa
Sat., Nov. 15, 7–10 PM
Hyatt Regency Chicago, Regency B–D

The Council on Clinical Cardiology established the award in 1968 in honor of James Bryan Herrick, a pioneer among cardiologists, and is the council’s most prestigious honor. Most significant of Dr. Herrick’s many contributions was his classic paper on “Clinical Features of Sudden Obstruction of the Coronary Arteries,” published in 1912. Besides giving the medical world a definitive description of coronary thrombosis, his studies emphasized the important observation that sudden obstruction of a coronary artery is not necessarily fatal. Dr. Herrick served as president of the American Heart Association in 1927–28 and received the Gold Heart Award in 1951.

Laennec Clinician/Educator Lecture
Harry Dietz, Baltimore, MD
Tues. Nov. 18, 10:45–11:15 AM
McCormick Place Convention Center, N227b

This lecture was established in 1970 by the Laennec Society, a section of the Council on Clinical Cardiology at that time. The major aim of the lecture is to honor an outstanding clinician educator and promote the importance of bedside cardiology and the application of clinical research to the bedside.

Fri., Nov. 14 • 6–10 PM
CLCD Leadership Committee Meeting
Hyatt Regency Chicago, Toronto

Sat., Nov. 15 • 7–9 AM
Women in Cardiology Trainee Awards for Excellence
Art of Speaking Science Workshop, Part 1 — Invitation Only
Hyatt Regency Chicago, Plaza B

Sat., Nov. 15 • 9–6:30 PM
9–Noon Early Career Opening General Session
McCormick Place Convention Center, Ballrooms S100ab

Noon–1 PM Early Career Day Lunch
McCormick Place Convention Center, S100c
Early Career Luncheon sponsored by AHA/ASA Membership

1–3 PM Early Career Programming: “How to Thrive as an Early Career Academic Cardiovascular Specialist”
McCormick Place Convention Center

5–6:30 PM Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby

Sat., Nov. 15 • 2:15–3:30 PM
Samuel A. Levine Young Clinical Investigator Award Competition
McCormick Place Convention Center, S406a
Payal Kohli, San Francisco, CA
Andrew Goodman, Cleveland Heights, OH
Han Lim, Melbourne, Australia
Emily Bucholz, New Haven, CT
Guido Claessen, Heverlee, Belgium

Sat., Nov. 15 • 3:45–5 PM
Laennec Young Clinician Award Competition
McCormick Place Convention Center, S406a
Sadiya Khan, Chicago, IL
Kenta Nakamura, Boston, MA
Natalia Berry, Brookline, MA
Thomas Metcus, Lutherville-Timonium, MD
Lucas Zier, San Francisco, CA

Sat., Nov. 15 • 7–10 PM
Annual Dinner and Business Meeting
Hyatt Regency Chicago, Regency B–D
Recognition of FAHA Inductees
Laennec Young Clinician Award Presentation
Samuel A. Levine Young Investigator Award Presentation
Distinguished Achievement Award
N.A. Mark Estes III, Boston, MA
Laennec Clinician/Educator Lecturer
Harry Dietz, Baltimore, MD
Laennec Master Clinician Award
James Chen-Tson Fang, Salt Lake City, UT
Clinical Cardiology (Cont)

James B. Herrick Award and Lecture
Karu Chatterjee, Iowa City, Iowa

Women in Cardiology Mentoring Award Presentation
Martha Gulati, Columbus, OH

Women in Cardiology Trainee Awards for Excellence
Sun., Nov. 16 • 6:30–8 AM
Women in Cardiology Trainee Awards for Excellence
Art of Speaking Science Workshop, Part 2 — Invitation Only
Hyatt Regency Chicago Plaza B

Sun., Nov. 16 • 11–12:30 PM
CLCD/CVRI Cardiac Imaging Committee Meeting
Hyatt Regency McCormick Place, Adler C/CC24C

Sun., Nov. 16 • 11–12:30 PM
Exercise, Cardiac Rehabilitation, & Prevention Committee Meeting
Hyatt Regency McCormick Place, Burnham C/CC23C

Sun., Nov. 16 • 11–12:30 PM
Clinical Pharmacology Committee Meeting
Hyatt Regency Chicago, Plaza B

Sun., Nov. 16 • 5–6 PM
Acute Cardiac Care & General Cardiology Committee Meeting
Hyatt Regency Chicago, Atlanta

Sun., Nov. 16 • 7–8:30 PM
CLCD/CVSN Cardiovascular Disease and Stroke in Older Populations
Committee Meeting
Hyatt Regency Chicago, Picasso

Mon., Nov. 17 • 7–9 AM
CLCD/STROKE Cardiovascular Disease in Women and
Special Populations Committee Meeting
Hyatt Regency Chicago, Picasso

Mon., Nov. 17 • Noon–2 PM
Heart Failure and Transplantation Committee Meeting
Hyatt Regency Chicago Plaza B

Mon., Nov. 17 • Noon–2 PM
Women in Cardiology Networking Luncheon and Reception
Hyatt Regency McCormick Place, Grant Park BCD/CC12bcd

Mon., Nov. 17 • 5–7 PM
Interventional Cardiovascular Care Committee Meeting
Hyatt Regency Chicago, Plaza A

Monday, Nov. 17, 7–8 PM
Women in Cardiology Trainee Awards for Excellence
Dinner — Invitation Only
Hyatt Regency Chicago, Atlanta

Mon., Nov. 17 • 7–9 PM
CLCD/CVDY Adults with Congenital Heart Disease
Committee Meeting
Hyatt Regency Chicago, San Francisco

Tues., Nov. 18 • 10:45–12:10 PM
Laennec Clinician/Educator Lecture and
Laennec Master Clinician Award Presentation
McCormick Place Convention Center, N227b

Tues., Nov. 18 • Noon–2 PM
Electrocardiography & Arrhythmias Committee Meeting
Hyatt Regency McCormick Place, Burnham B/CC23b

Wed., Nov. 19 • 7 AM–3:30 PM
Arrhythmia Research Summit
McCormick Place Convention Center, Room N426bc
Separate Registration Required

Special Thanks to the Clinical Cardiology Program Committee
Harold Dauerman, Burlington, VT, Chair
Monique V. Chireau, Durham, NC
Tim Henry, Minneapolis, MN
Adrian Hernandez, Durham, NC
Win K. Shen, Rochester, MN
Randal Thomas, Rochester, MN
Navin Kapur, Boston, MA
Jeffrey Washam, Durham, NC
Mani Vannan, Atlanta, GA
Patrick Ellinor, Boston, MA
Mark Link, Boston, MA
Monica Colvin-Adams, Minneapolis, MN
Manesh R. Patel, Durham, NC
Darren K. McGuire, Dallas, TX
Epidemiology and Prevention

The Epidemiology and Prevention Council is a multidisciplinary group dedicated to understanding the causes of cardiovascular disease and applying knowledge to optimize cardiovascular health across the lifespan in diverse populations. Members are active in many aspects of the American Heart Association mission, including helping to develop the Heart Disease and Stroke Statistics Update annually, participating in development and writing of scientific statements, planning programs for Sessions and others.

We place a high priority on increasing the involvement of young investigators in the council, and have developed mentorship and other programs of benefit to our future colleagues. Included in these activities are our young investigator awards, such as the Elizabeth Barrett-Connor Young Investigator Award presented at the Scientific Sessions.

A primary focus of our council is the annual spring meeting, this year to be held in Baltimore, MD. During that meeting, we will confer several awards, some specifically targeted to our early career colleagues. These awards are the Jeremiah and Rose Stamler Research Award for New Investigators; Sandra A. Daugherty Award for Excellence in Cardiovascular Disease or Hypertension Epidemiology; Roger R. Williams Award for Genetic Epidemiology and the Prevention and Treatment of Atherosclerosis; and Trudy Bush Fellowships for Cardiovascular Disease Research in Women’s Health. This meeting is the pre- eminent forum in cardiovascular disease epidemiology and prevention, and always is an informative and fun event. Our motto is, “If it isn’t fun, it isn’t epidemiology!”

We welcome all of our colleagues, no matter their age or experience, to all the exciting programs at Sessions, especially those sponsored by our council. We also welcome all to our spring meeting and to membership and involvement in council activities.

Ancel Keys Memorial Lecture
JoAnn E. Manson, Boston, MA
Controversies in Primary Prevention: Aspirin, Estrogen, and Vitamin D Supplementation
Tues., Nov. 18, 2–2:30 PM
McCormick Place Convention Center, S501
The Council on Epidemiology (now the Council on Epidemiology and Prevention) established the lecture in 1990 to honor Dr. Ancel Keys. A founding member of the council, Dr. Keys had a long and distinguished scientific career in the study of cardiovascular diseases, their correlates, causes and prevention in the United States and abroad.

Sat., Nov. 16 • 6:30–8 AM
EPI/Lifestyle and Cardiometabolic Health Behavioral Committee Meeting
Hyatt Regency Chicago, Comiskey

Sun., Nov. 16 • 11–12:30 PM
EPI Early Career Committee Meeting
Hyatt Regency McCormick Place, Burnham A

Sun., Nov. 16 • 3:45–5 PM
Elizabeth Barrett-Connor Young Investigator Award Competition
McCormick Place Convention Center, S501
Tor Biering-Sorensen, Hellerup, Denmark
Nima Ghasemzadeh, Atlanta, GA
Parag H. Joshi, Baltimore, MD
Judith Kooiman, Leiden, The Netherlands
Maarten Leening, Rotterdam, The Netherlands

Mon., Nov. 17 • 6:30–8 AM
EPI Fall Program Committee Meeting
Hyatt Regency Chicago, Buckingham

Mon., Nov. 17 • NOON–1:30 PM
EPI & FGTB Molecular Determinants of Health Committee Meeting
Hyatt Regency McCormick Place, Burnham A

Tues., Nov. 18 • 6:30–8 AM
EPI & CVSN Prevention Science Committee Meeting
Hyatt Regency Chicago, Comiskey

Tues., Nov. 18 • NOON–1:45 PM
Statistics Committee Meeting
Hyatt Regency McCormick Place, Adler BC

Tues., Nov. 18 • 7–10 PM
Annual Reception (7 PM) and Dinner (7:30 PM) with the Council on Lifestyle and Cardiometabolic Health
Hyatt Regency Chicago, Crystal B

Eugene Braunwald Academic Mentorship Award
Jeremiah Stamler, Chicago, IL

Recognition of Ancel Keys Lecturer
JoAnn E. Manson, Boston, MA

EPI Distinguished Achievement Award Presentation
Mary Cushman, Burlington, VT

Elizabeth Barrett-Connor Young Investigator Award Presentation

Special Thanks to the Epidemiology and Prevention Scientific Sessions Program Committee

Jarett Barry, Dallas, TX Chair
Norrina Allen, Chicago, IL
Gerald S. Bloomfield Durham, NC
Eiman Jahangir, New Orleans, LA
Julie Johnson, Gainesville, FL
Emily B. Levitan, Birmingham, AL
Jun Ma, Palo Alto, CA
Laxmi Mehta, Columbus, OH
James Meigs, Boston, MA
Dariush Mozaffarian, Boston, MA
Gilles Paradis, Montreal, CA
Carlos J. Rodriguez, Winston-Salem, NC
David Siscovick, New York, NY
Jennifer Wessel, Indianapolis, IN
Joshua Z. Willey, New York, NY
Nathan Wong, Irvine, CA
Katherine Woodbury-Harris, Rockville, MD

Join or renew your AHA/ASA Professional Membership onsite and receive a free gift in HeartQuarters Booth 1059
Functional Genomics and Translational Biology

Functional Genomics and Translational Biology involves multiple approaches in basic, clinical, and population sciences that apply the rapidly evolving area of genomics and related fields for scientific breakthroughs in medicine. The goals of the field, specifically for the American Heart Association, include the identification of new screening tests to predict and/or detect risk or outcome of cardiovascular disease and stroke, to discover novel pathways and interactions involved in disease development, and to create new treatment modalities. Some of these advancements include the human genome project and comparative genomics, technological advancements in sequencing, genotyping, gene expression, proteomics, clinical measures and phenotyping, and bioinformatics, gene/environment interactions, cell-based therapies, and gene therapy.

Sat., Nov. 15 • 8–NOON
Leadership Committee Meeting
Hyatt Regency Chicago, Regency A

Sat., Nov. 15 • 9–6:30 PM
Early Career Opening General Session
McCormick Place Convention Center, Ballroom S100ab

NOON–1 PM
Early Career Day Lunch
McCormick Place Convention Center, S100c
Early Career Luncheon sponsored by AHA/ASA Membership

1–5 PM
Early Career Day Programming
McCormick Place Convention Center

5–6:30 PM
Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby

Sat., Nov. 15 • 1–3 PM
Career Development (Planned by the Councils on Functional Genomics and Translational Biology and Clinical Cardiology)
McCormick Place Convention Center, S404bcd

Sat., Nov. 15 • 3:30–3:45 PM
FGTB Medal of Honor
McCormick Place Convention Center, S404bcd
Jennifer Van Eyk, Los Angeles, CA
What’s on the Horizon for Cardiovascular Proteomics

Sat., Nov. 15 • 3–3:30 PM
FGTB Mentoring Award
McCormick Place Convention Center, Room D163
Andre Terzic, Rochester, MN
The Importance of Good Mentorship

Sat., Nov. 15 • 3–5 PM
Functional Genomics and Translational Biology:
How to Navigate the Omics World
McCormick Place Convention Center, S404bcd

Sat., Nov. 15 • 5–6:30 PM
Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby

Sun., Nov. 16 • 3:45–5 PM
Functional Genomics and Translational Biology
Young Investigator Award Competition
McCormick Place Convention Center, S102bc
Nabila Bouatia-Naji, Paris, France
Elena V. Dolmatova, Charlestown, MA
Dongtak Jeong, New York, NY
Stella Aslibekyan, Birmingham, AL

Tues., Nov. 18 • 1–3 PM
FGTB Early Career/Professional Education/CSSP Committee Meeting
Hyatt Regency Chicago, Regency C

Tues., Nov. 18 • 6:30–7:30 PM
Annual Reception and Business Meeting
Hyatt Regency Chicago, Crystal C
• Award Presentations
• Officer elections
• Recognition of FAHA Inductees
• Functional Genomics and Translational Biology Young Investigator Award Presentation

Functional Genomics and Translational Biology
Young Investigator Award Presentation
Nabila Bouatia-Naji, Paris, France
Elena V. Dolmatova, Charlestown, MA
Dongtak Jeong, New York, NY
Stella Aslibekyan, Birmingham, AL

Special Thanks to the Functional Genomics and Translational Biology Program Committee
Christopher Newton-Cheh, Boston, MA, Chair
Thomas Cappola, Vice-Chair
Giulio Agnetti, Baltimore, MD
Euan Ashley, Stanford, CA
Andrea Baccarelli, Boston, MA
Andreas Barth, Baltimore, MD
Jozef Bartunek, Aalst, Belgium
Amber Beitelshesee, Baltimore, MD
Nicole Glaser, Boston, MA
Roberta Gottlieb, San Diego, CA
Jennifer Hall, Minneapolis, MN
Andrew Johnson, Framingham, MA
Anne Kwitek, Iowa City, IA
Steven Lubitz, Boston, MA
Douglas Losordo, Chicago, IL
Manuel Mayr, London, UK
Susan Elizabeth Old, Bethesda, MD
Siddharth Prakash, Houston, TX
Nona Sotoodehnia, Seattle, WA
Scott Waldman, Philadelphia, PA

Special Thanks to the Functional Genomics and Translational Biology Program Committee
Christopher Newton-Cheh, Boston, MA, Chair
Thomas Cappola, Vice-Chair
Giulio Agnetti, Baltimore, MD
Euan Ashley, Stanford, CA
Andrea Baccarelli, Boston, MA
Andreas Barth, Baltimore, MD
Jozef Bartunek, Aalst, Belgium
Amber Beitelshesee, Baltimore, MD
Nicole Glaser, Boston, MA
Roberta Gottlieb, San Diego, CA
Jennifer Hall, Minneapolis, MN
Andrew Johnson, Framingham, MA
Anne Kwitek, Iowa City, IA
Steven Lubitz, Boston, MA
Douglas Losordo, Chicago, IL
Manuel Mayr, London, UK
Susan Elizabeth Old, Bethesda, MD
Siddharth Prakash, Houston, TX
Nona Sotoodehnia, Seattle, WA
Scott Waldman, Philadelphia, PA
The mission of the Council on Hypertension is “to foster excellence in hypertension research and education research and education” to achieve the American Heart Association’s objectives, through the Hypertension Council, “to build healthier lives, free of cardiovascular diseases and stroke” by preventing and improving management of hypertension. Considering that high blood pressure is the major risk factor for cardiovascular morbidity and mortality globally (WHO, 2010) there is much work to be done to better understand and manage hypertension.

If you are not yet a member of the AHA Council on Hypertension, now is the time to join. As a member, you are eligible for members-only privileges, including publications, discounts and many more. In addition, you have access to the multidisciplinary network through the membership directory. A highlight of the Hypertension Council is the annual international scientific conference that includes presentations on basic, clinical and population hypertension research.

**Sat., Nov. 15 • 9–6:30 PM**
**Early Career Opening General Session**
McCormick Place Convention Center, S100ab

**Tues., Nov. 18 • 7:30–8:45 AM**
**Contribution of Arterial Stiffness to the Development of Hypertension:**
From Bench to Bedside
McCormick Place Convention Center, Room S103a

**Tues., Nov. 18 • 5:30–6:45 PM**
**The Pressures of Aging**
McCormick Place Convention Center, Room S103a

**Wed., Nov. 19 • 9:30–10:15 AM**
**Joint AHA/American Society of Hypertension Session: Can We Identify Response Markers to Antihypertensive Drugs?**
McCormick Place Convention Center, Room S103a

**Special Thanks to the Council on Hypertension Scientific Sessions Program Committee**

Kenneth Baker, Temple, TX, Chair
Kenneth Bernstein, Los Angeles, CA, Vice-Chair
Christine Baylis, Gainesville, FL
Robin Davison, Ithaca, NY
Robert Danziger, Chicago, IL
Patrice Delafontaine, New Orleans, LA
Gregory Fink, East Lansing, MI
Celso Gomez-Sanchez, Jackson, MS
David Gutterman, Milwaukee, WI
Pedro Jose, Washington, DC
Frans Leenen, Ottawa, ON, Canada
Rhian Touyz, Glasgow, UK
Colin Young, Ithaca NY

The Kidney in Cardiovascular Disease council strives to reduce cardiovascular-related disability and death through research, communication, advocacy, education and training about how the kidney influences blood pressure, vascular and cardiac function. The Council for the Kidney in Cardiovascular Disease (KCVD) is a dynamic group of basic and clinical investigators and clinicians who are dedicated to unraveling the kidney’s role in hypertension, heart disease, and stroke. The KCVD Council works actively to support research into the causes of kidney-related cardiovascular disease, and to develop translational approaches to enhance patient care and disease prevention. This council is committed to developing the next generation of renal scientists. We strive to maintain an adequate academic, age, gender and ethnicity balance in our steering committee so every member is represented.

**Sat., Nov. 15 • 9–6:30 PM**
**Early Career Opening General Session**
McCormick Place Convention Center, S100ab

**Tues., Nov. 18 • 7:30–8:45 AM**
**From Bench to Bedside**
McCormick Place Convention Center, Room S103a

**Tues., Nov. 18 • 5:30–6:45 PM**
**The Pressures of Aging**
McCormick Place Convention Center, Room S103a

**Wed., Nov. 19 • 9:30–10:15 AM**
**Joint AHA/American Society of Hypertension Session: Can We Identify Response Markers to Antihypertensive Drugs?**
McCormick Place Convention Center, Room S103a

**Special Thanks to the Kidney in Cardiovascular Disease Scientific Sessions Program Committee**

Ravi Nistala, MD, MS
Jennifer L. Gooch, PhD
Radu Iliescu, MD PhD FAHA
Edgar Lerma, MD FAHA FACP
James “Matt” Luther, MD MSCI
Jim McCormick, PhD
Minolfa Prieto-Carrasquero, MD, PhD, FAHA

Join or renew your AHA/ASA Professional Membership onsite and receive a free gift in HeartQuarters Booth 1059
Lifestyle and Cardiometabolic Health

The Council on Lifestyle and Cardiometabolic Health promotes the expansion and exchange of knowledge with the ultimate goal of improving cardiovascular health across the lifespan. Our council promotes basic, clinical, epidemiological and translational science related to nutrition, lipids, obesity, diabetes, physical activity, and behavior change.

Robert I. Levy Endowed Lecture in Lipid Metabolism
Johannes J.P Kastelein, Amsterdam, Netherlands
Familial Hypercholesterolemia — The Journey From a Lethal Disorder to a Manageable Dyslipidemia
Sun., Nov. 16, 3:45–4:15 PM
McCormick Place Convention Center, S504
This lecture was established in 2000 in response to a wish expressed by Mrs. Robert I. Levy that an endowed be created in memory of her husband and in support of scientific discovery at the American Heart Association. Dr. Levy’s distinguished and varied scientific career was highlighted by his primary interest in lipid metabolism and his contribution to that scientific field. As director of the National Heart, Lung, and Blood Institute, he nurtured and mentored many young investigators who later emerged as leaders in the field of lipid metabolism. Dr. Levy’s association with the American Heart Association covered 20 years, during which he served on various committees and the executive committees of the councils on Basic Science and Arteriosclerosis. In the mid-1990s, Dr. Levy chaired the Pharmaceutical Roundtable. This endowed lecture is made possible by contributions from family, friends and colleagues of Dr. Levy.

Sat., Nov. 15 • 8–NOON
Nutrition Committee Meeting
Hyatt Regency Chicago, Gold Coast

Sat., Nov. 15 • 9–6:30 PM
Early Career Opening General Session
McCormick Place Convention Center, Ballroom S100ab

NOON–1 PM
Early Career Day Lunch
McCormick Place Convention Center, S100c
Early Career Luncheon sponsored by AHA/ASA Membership

1–5 PM
Early Career Day Programming
Lifestyle and Cardiometabolic Health Breakouts: Team Science, Big Data Research, and Finding a Job: A Primer for Early Career Epidemiology and Outcomes Investigators
McCormick Place Convention Center, S504

5–6:30 PM
Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby

Sat., Nov. 15 • 6–10 PM
Leadership Committee Meeting
Hyatt Regency Chicago, Acapulco

Sun., Nov. 16 • 6:30–8 AM
Lifestyle and Cardiometabolic Health/EPI
Behavior Change Committee Meeting
Hyatt Regency Chicago, Comiskey

Sun., Nov. 16 • 11 AM–12:30 PM
Lifestyle and Cardiometabolic Health/ATVB Clinical Lipidology, Lipoprotein Metabolism, and Thrombosis Committee Meeting
Hyatt Regency McCormick Place, Boardroom 1

Sun., Nov. 16 • 11 AM–12:30 PM
Early Career Committee Meeting
Hyatt Regency McCormick Place, Boardroom 2

Sun., Nov. 16 • 4:15–5 PM
Lifestyle and Cardiometabolic Health — Highlighted Science Session (Oral Abstract Presentation)
McCormick Place Convention Center, S504
Matti Marklund, Uppsala, Sweden
Stephanie Chiuve, Boston, MA
Nirupa Matthan, Boston, MA

Sun., Nov. 16 • 7–9 PM
Obesity Committee Meeting
Hyatt Regency Chicago, Haymarket

Mon., Nov. 17 • NOON–1:30 PM
Diabetes Committee Meeting
Hyatt Regency McCormick Place, Erie/Meeting Suite 4

Mon., Nov. 17 • 7–8:30 PM
Physical Activity Committee Meeting
Hyatt Regency Chicago, Soldier Field

Tues., Nov 18 • 7–10 PM
Annual Reception and Dinner with the Council on Epidemiology and Prevention
Hyatt Regency Chicago, Crystal B

Recognition of Robert I. Levy Lecturer
Johannes J.P Kastelein, Amsterdam, Netherlands

AHA Award of Meritorious Achievement
Ronald M. Krauss, Oakland, CA

AHA Physician of the Year Award
Neil Stone, Chicago, IL

Induction of New FAHAs

Special Thanks to the Lifestyle and Cardiometabolic Health Scientific Sessions Program Committee
Paul Poirier, Quebec City, QC, Canada, Chair
Caroline Fox, Framingham, MA, Vice-Chair
Deepak Bhatt, Boston, MA
Eliot Brinton, Salt Lake City, UT
Penny Kris Etherton, University Park, PA
Marie-France Hivert, Quebec, QC, Canada
Rachel K. Johnson, Burlington, VT
Mikhail Kosiborod, Kansas City, MO
Jesse A. Lieberman, Charlotte, NC
Bess Marcus, Providence, RI
Tiffany Powell, Bethesda, MD
Goutham Rao, Evanston, IL
Jennifer G. Robinson, Iowa City, IA
Deborah Rohm Young, Pasadena, CA
Peripheral Vascular Disease

The Peripheral Vascular Disease Council is dedicated to providing leadership in the area of peripheral vascular disease by using a multidisciplinary approach and by advocating for peripheral arterial disease research. We strive to translate the best knowledge into practice, improve physician adherence to guidelines, produce quality conferences and statements, raise public awareness and influence systems and providers.

Fri., Nov. 14 • 6:30–10 PM
Leadership Committee Meeting
Hyatt Regency Chicago, Gold Coast

Sat., Nov. 15 • 7–8 AM
CVRI/PVD Joint Vascular Imaging Committee Meeting
Hyatt Regency Chicago, Acapulco

Sat., Nov. 15 • 8 AM–5:20 PM
Peripheral Vascular Disease — Fellows in Training Workshop
McCormick Place Convention Center, S406b

Sat., Nov. 15 • 8 AM–6:30 PM
9–NOON Early Career Opening General Session
McCormick Place Convention Center, Ballrooms S100ab

NOON–1 PM Early Career Day Lunch
McCormick Place Convention Center, S100c

1–3 PM Early Career Programming
McCormick Place Convention Center

5–6:30 PM Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby

Quality of Care and Outcomes Research

The Council on Quality of Care and Outcomes Research is committed to supporting the overall mission and strategic goals of the AHA by promoting universal access to high-quality healthcare for all people with, or at risk for, heart disease and stroke. We pursue this aspect of the AHA’s mission through research, program and policy development, dissemination and implementation, sometimes labeled as knowledge discovery, translation and transfer. We believe AHA science volunteers should be involved in healthcare quality and outcomes research, assessment, policy development and assurance. The Council provides a forum for science volunteers to become more actively involved in these activities.

Sat., Nov. 15 • 8 AM–NOON
QCOR Leadership Committee Meeting
Hyatt Regency Chicago, Crystal A

Sat., Nov. 15 • 9 AM–6:30 PM
9–NOON Early Career Opening General Session
McCormick Place Convention Center, S100ab

NOON–1 PM Early Career Day Lunch
McCormick Place Convention Center, S100c

Early Career Luncheon sponsored by AHA/ASA Membership

1–2:45 PM Early Career Programming: Training and Funding: How to get Started as an Early Career Investigator (EPI/NPAM/QCOR)
McCormick Place Convention Center, Room D222

3–5 PM Early Career Programming: Starting a Successful Career in Quality of Care and Outcomes Research (QCOR)
McCormick Place Convention Center, Room D222

5–6:30 PM Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby

Sat., Nov. 15 • 7–8 PM
QCOR Reception
Hyatt Regency Chicago, Wrigley

Special Thanks to the Quality of Care and Outcomes Research Program Committee
Mikhail Kosiborod, Kansas City, MO, Chair
Adrian Hernandez, Durham, NC, Vice Chair
Nancy Albert, Cleveland, OH
David Cohen, Kansas City, MO
Mark Hlatky, Stanford, CA
Eric Smith, Calgary, AB, Canada
Henry Ting, Rochester, MN
Martha Radford, New York, NY, Immediate Past Chair
The mission of the Stroke Council is to provide science-based leadership and support to the American Stroke Association and the American Heart Association to accomplish the goal of reducing death and disability from stroke. The Stroke Council is uniquely dedicated to advancing the science of stroke prevention and treatment. The Stroke Council also provides support for the American Stroke Association’s work in translating stroke-related science into effective programs and products for use by the general public, healthcare professionals and policy makers.

Mon., Nov. 17 • 9–9:30 AM
Stroke Council Award and Lecture
McCormick Place Convention Center, S104
Cathy A. Sila, MD
Care Delivery Innovations for Stroke

Coming Together is a Beginning; Keeping Together is Progress; Working Together is Success. — Henry Ford

The Stroke Council Award and Lecture recognizes and encourages those who actively integrate stroke and heart disease in clinical care, education or research. The honoree is a leader in the field of stroke and has made meritorious contributions within the ASA and AHA. The honoree will also have a reputation for promoting awareness of cerebrovascular disease and its importance in the cardiovascular community in research and service.

Special Thanks to the Stroke Program Committee
Osama Zaidat, Milwaukee, WI, Chair
Jose Biller, Maywood, IL
Brett Cucchiara, Philadelphia, PA
Michael DeGeorgia, Cleveland, OH
Larry Goldstein, Durham, NC
David Hess, Augusta, GA
Tanya Turan, Charleston, SC
Lawrence Wechsler, Pittsburgh, PA

Sat., Nov. 15 • 9–6:30 PM
9–Noon Early Career Opening General Session
McCormick Place Convention Center, S100ab
Noon–1 PM Early Career Day Lunch
McCormick Place Convention Center, S100c
Early Career Luncheon sponsored by AHA/ASA Membership
1–5 PM Early Career Day Programming
McCormick Place Convention Center
5–6:30 PM Early Career Reception
McCormick Place Convention Center, Grand Concourse Lobby
GET IN ON THE ACTION AT SESSIONS

Stay on top of the latest in cardiology medicines, devices, products and services in the Science & Technology Hall.

YOU CAN ALSO:

- Recharge in the Science & Technology Hall with complimentary coffee breaks sponsored by AHA's Professional Membership
- Grab a free lunch in the Product Theaters
- Meet the Trialist: Connect with researchers in select trials and get your questions answered
- Engage with more than 200 exhibitors
- Get hands-on CPR training
- Get a professional photo taken FREE sponsored by AHA's Professional Membership
- Read a book in Publisher's Row
- Visit and learn in the Poster Sessions
- Use the complimentary Wi-Fi lounge and charging stations

SCIENCE & TECHNOLOGY HALL HOURS

NOV 16: 11 A.M. - 6 P.M. | NOV 17: 10 A.M. - 6 P.M. | NOV 18: 10 A.M. - 2:30 P.M.
AHA’s strategies for supporting cardiovascular research have evolved to keep pace with today’s revolution in how science goes about searching for groundbreaking discoveries.

**INVESTIGATOR INITIATED RESEARCH**

- **FOUNDATIONAL GRANTS**
  - Multiple grant programs at the national and affiliate level, comprising approximately 82% of all research funding in 2014.
  - $100 M in 2014

- **COLLABORATIVE GRANTS**
  - Supports research goals that can only be achieved through innovative collaboration between disparate disciplines.
  - $3 M in 2014

- **MENTOR/MENTEE**
  - Funds qualified mentors to support research in new areas by early-career scientists, with a special focus on underserved minorities.
  - $240 K in 2014

- **MERIT AWARD**
  - Supporting individuals with strong research track records who are highly likely to make substantial new contribution to CV science.
  - $2 M 2015–16

**CARDIOVASCULAR GENOME PHENOME STUDY (CVGPS)**

- The newest development in AHA’s commitment to cutting-edge CV research. Provides access to genomic and phenotypic data from major population studies, creating a unique network of data and biosamples to generate new insights toward personalized cures.
- $30 M over the first 5 years

**STRATEGICALLY FOCUSED NETWORKS**

- Multi-institutional, multidisciplinary collaboration directed toward a key strategic issue.
- $15 M per issue in 2014

**KEY ISSUES**

- Hypertension
- Disparities
- Prevention
- Basic
- Clinical
- Population

**JOIN OUR ANNUAL Awardee GROUP PHOTO**

- Current and past research awardees are invited to join AHA President Elliott Antman, MD, FAHA, and the other officers for our annual awardee group photo on Monday, November 17 at 1:30 PM in S100 lobby.
- All participants will receive a special Research Awardee pin.
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* USB drive ships 10 weeks after the meeting. Only presentations that have been approved by the speakers will be included. Pricing excludes shipping and handling. Professional membership must be activated by 11/19/2014. Discounts do not apply to general or professional associate members.

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17,000+ attendees
Global presence from 100+ countries

1,000 invited faculty
5,000 presentations

Orlando, Florida

Nov. 7–11 | Scientific Sessions
Nov. 8–10 | Exhibits
Nov. 7–8 | Resuscitation Science Symposium
Nov. 10–11 | Cardiovascular Nursing Clinical Symposium
Take Sessions Home with You

Pick up your complimentary copy of the Abstracts on Disc in the Science & Technology Hall, Booth 659.

Supported by Janssen Pharmaceuticals.
Participate in the 2nd Annual Walking Challenge

Get ready to track your daily steps and watch it feed into a leaderboard so you can compete against fellow attendees.

Participants will get a free sneaker pin. Visit the AHA/ASA Professional Membership counter at HeartQuarters Booth 1059 to pick up. Limited quantities available.

Learn more and register at the AHA Walking Challenge booth in the Grand Concourse Lobby of McCormick Place starting Saturday, Nov. 15 or at scientificsessions.org/walkingchallenge.

Supported by SANOFI | REGENERON

Going beyond today
Get ready to track your daily steps and watch it feed into a leaderboard so you can compete against fellow attendees.

Participants will get a free sneaker pin. Visit the AHA/ASA Professional Membership counter at HeartQuarters Booth 1059 to pick up. Limited quantities available.

Learn more and register at the AHA Walking Challenge booth in the Grand Concourse Lobby of McCormick Place starting Saturday, Nov. 15 or at scientificsessions.org/walkingchallenge.
Main Events

OPS.01  Opening Session
North Hall B
1:00 - 3:00 PM
Welcome and Introduction of Dr. Elliott Antman
Nancy Brown, Dallas, TX
Presidential Address: Saving and Improving Lives in the Information Age
Elliott Antman, Boston, MA
Chairman’s Award Presented to: Jennifer H Mieres, Lake Success, NY
Distinguished Scientist Recognition: Elliott Antman, Boston, MA
Basic Research Prize Presented to: Andre Terzic, Rochester, MN
Clinical Research Prize Presented to: Judith Hochman, New York, NY
Population Research Prize Presented to: Vasan Ramachandran, Framingham, MA
Eugene Braunwald Academic Mentorship Award Presented to: Jeremiah Stamler, Chicago, IL
Research Achievement Award Presented to: Shaun R Coughlin, San Francisco, CA
Lewis A. Conner Memorial Lecture: Biologically Inspired Engineering: From Human Organs-on-Chips to Nanotherapeutic Clot-Busters
Donald E Ingber, Boston, MA
Scientific Sessions Program Chair’s Opening Remarks
Robert Harrington, Stanford, CA

LBCT.01  Late-Breaking Clinical Trials
Risk and Benefit of Dual Antiplatelet Therapy
North Hall B
3:45 - 5:00 PM
Moderators:
Elliott Antman, Boston, MA
Fausto Pinto, Lisboa, Portugal
3:45 Increased Risk of Ischemic Events Upon Discontinuation of Prasugrel After 12 or 30 Months of Therapy Following Placement of the Taxus Liberté Paclitaxel-Eluting Coronary Stent
Kirk N Garratt, New York, NY
3:55 Randomized, Double Blind Trial of 6 Versus 12 Months Of Dual Antiplatelet Therapy After DES-Implantation (ISAR-SAFE)
Stefanie Schüpke (nee Schulz), Muenchen, Germany

4:05 Is 6 Months DAPT Post Coronary Stenting Non Inferior To 24 Months? The Italic/Italic+ Randomized Trial. Results of the One Year Primary Endpoint
Martine Gilard, Brest Cedex, France
4:15 Risk and Benefit of Prolonged Dual Antiplatelet Therapy After Drug-eluting Coronary Stents: Primary Endpoint Results from the Dual Antiplatelet Therapy Study
Laura Mauri, Boston, MA
4:25 Commentary
Gilles Montalescot, Paris, France
4:35 Panel Discussion
Marc Ruel, Ottawa, ON, Canada
Frans Van de Werf, Leuven, Belgium
Christian W Hamm, Bad Nauheim, Germany

SS.01  State of the Art: Heart Failure and Preserved Ejection Fraction
S100ab
3:45 - 5:00 PM
Moderators:
Amrut Ambardekar, Aurora, CO
Larry A Allen, Aurora, CO
Epidemiology of HfPEF
Veronique L Roger, Rochester, MN
New Insights into Etiology and Pathophysiology of HfPEF
Walter J Paulus, Amsterdam, Netherlands
4:15 New Treatment Strategies for HFpEF
Shin-ichi Momomura, Saitama, Japan
4:30 Why We’ve Had Such a Hard Time Finding a Cure: Insights from Clinical Trials in HFpEF
Chris O’Connor, Durham, NC
4:45 HFpEF: The Next Targets on the Frontier
Douglas L Mann, St Louis, MO
### Clinical Science: Special Reports

#### CS.03 Management of Cardiovascular Disease

**S100ab**  
7:00 - 8:50 AM

**Moderators:**  
Timothy J Gardner, Newark, DE  
Kim A Williams, Chicago, IL

**7:00** Impact of a Multidisciplinary Management Program on Recurrent Hospitalization and Mortality In Older Individuals With Chronic Atrial Fibrillation: A Multicentre Randomized Trial  
Simon Stewart, Victoria, Australia

**7:10** Discussant of Impact Of A Multidisciplinary Management Program On Recurrent Hospitalization And Mortality In Older Individuals With Chronic Atrial Fibrillation: A Multicentre Randomized Trial  
Pamela J McCabe, Rochester, MN

**7:13** Panel Discussion

**7:22** Efficacy and Safety of ZS-9 in Patients with Hyperkalemia: Results from the HyperkAlemia RandoMized interventiON multi-dose ZS-9 maintEnance (HARMONIZE) Clinical Trial  
Mikhail Kosiborod, Kansas City, MO

**7:32** Discussant of Efficacy and Safety of ZS-9 in Patients with Hyperkalemia: Results from the HyperkAlemia RandoMized interventiON multi-dose ZS-9 maintEnance (HARMONIZE) Clinical Trial  
Bertram Pitt, Ann Arbor, MI

**7:35** Panel Discussion

**7:44** Impact of Additive Use of Olmesartan in Patients With Chronic Heart Failure: The Supplemental Benefit of an Angiotensin Receptor Blocker in Hypertensive Patients With Stable Heart Failure Using Olmesartan (SUPPORT) Trial  
Yasuhiro Sakata, Sendai, Japan

**7:54** Discussant of Impact of Additive Use of Olmesartan in Patients with Chronic Heart Failure: The Supplemental Benefit of an Angiotensin Receptor Blocker in Hypertensive Patients with Stable Heart Failure Using Olmesartan (SUPPORT) Trial  
Eric J Velazquez, Durham, NC

**7:57** Panel Discussion

**8:06** Edoxaban Effects on Bleeding Following Punch Biopsy and Reversal by a 4-Factor PCC  
Hamim Zahir, Edison, NJ

**8:16** Discussant of Edoxaban Effects on Bleeding Following Punch Biopsy and Reversal by a 4-Factor PCC  
Jerrold H Levy, Durham, NC

**8:19** Panel Discussion

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#### Plenary

**PS.10 Living with Heart Failure: Patient, Physician, Surgeon and Nurse Perspectives**

North Hall B  
9:00 - 10:00 AM

**Moderators:**  
Clyde W Yancy Jr., Chicago, IL  
Mariell Jessup, Philadelphia, PA

**9:00** The LVAD and Daily Life: The Patient Experience  
Vice President Dick Cheney, Washington, DC

**9:15** Panel Discussion  
Vice President Dick Cheney, Washington, DC  
Jonathan Reiner, Washington, DC  
Alan Speir, Annandale, VA  
Kathleen L Grady, Chicago, IL

---

#### Plenary

**PS.02 2013 ACC/AHA Cholesterol Guidelines: 1 Year Later**

S100ab  
9:00 - 10:15 AM

**Moderators:**  
George Mensah, Bethesda, MD  
JoAnn E Manson, Boston, MA

**9:00** Cholesterol Guidelines: What Have We Learned?  
Sanjay Kaul, Los Angeles, CA

**9:15** Risk Assessment in Primary Prevention: Future Directions  
Michael Lauer, Bethesda, MD

**9:30** The Role of Lifestyle in Primary Prevention of CVD  
Lawrence J Appel, Baltimore, MD
**Main Events**

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:45</td>
<td>Clinical Decision Making Beyond the Trial Evidence</td>
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<td>10:00</td>
<td>Prevention Guidelines: A View from Abroad</td>
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**Plenary**

**Hypertension 2014**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>S106</td>
<td>9:00 - 10:15 AM</td>
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<tr>
<td></td>
<td>Moderators:</td>
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<td></td>
<td>Marc Pfeffer, Boston, MA</td>
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<td>Willie Lawrence, Kansas City, MO</td>
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<td>10:45</td>
<td>Global Burden and Epidemiology of Disease</td>
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<td>10:45</td>
<td>Current Controversies in Blood Pressure Assessment</td>
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<td>10:45</td>
<td>System-Based Approaches to Blood Pressure Control</td>
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<td>10:45</td>
<td>Interventional Approaches to Blood Pressure Control</td>
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<tr>
<td>10:00</td>
<td>An Approach to Challenging Blood Pressure Problems</td>
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**Special**

**Management of the Resuscitated Cardiac Arrest Patient: Growing Insights into the Bundle of Care Approach**

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<th>Time</th>
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<tr>
<td>S100ab</td>
<td>10:45 AM - 12:00 NOON</td>
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<td>Moderators:</td>
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<td></td>
<td>Jasmeet Soar, Bristol, United Kingdom</td>
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<td></td>
<td>Sharon Einav, Jerusalem, Israel</td>
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<tr>
<td>10:45</td>
<td>The Role of Early Postarrest Coronary Angiography</td>
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<td>11:00</td>
<td>Optimizing Hemodynamic Support Following Arrest Resuscitation</td>
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<tr>
<td>11:15</td>
<td>ICDs Post Arrest: Why Not Everyone?</td>
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<td>11:30</td>
<td>Neurologic Assessment and Its Effect on Aggressive Care in the Early Postarrest Phase</td>
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<tr>
<td>11:45</td>
<td>Putting Together the Bundle of Postarrest Critical Care</td>
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**Late-Breaking Clinical Trials**

**Anti-Lipid Therapy and Prevention of CAD**

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<tr>
<th>Time</th>
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<tr>
<td>10:45</td>
<td>Low-Dose Aspirin for Primary Prevention of Cardiovascular Events in Elderly Patients With Multiple Atherosclerotic Risk Factors: A Randomized Controlled Trial</td>
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<tr>
<td>10:55</td>
<td>Discussant of Low-Dose Aspirin for Primary Prevention of Cardiovascular Events in Elderly Patients with Multiple Atherosclerotic Risk Factors: A Randomized Controlled Trial</td>
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<tr>
<td>10:58</td>
<td>Panel Discussion</td>
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<td>11:07</td>
<td>Screening For Asymptomatic Obstructive Coronary Artery Disease Among High-Risk Diabetic Patients Using Coronary CT Angiography: Primary Results of FACTOR-64, a Randomized Controlled Trial</td>
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<tr>
<td>11:17</td>
<td>Discussant of Screening For Asymptomatic Obstructive Coronary Artery Disease Among High-Risk Diabetic Patients Using Coronary CT Angiography: Primary Results of FACTOR-64, a Randomized Controlled Trial</td>
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<tr>
<td>11:20</td>
<td>Panel Discussion</td>
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<td>11:29</td>
<td>ODYSSEY ALTERNATIVE: Efficacy And Safety of the Proprotein Convertase Subtilisin/kexin Type 9 Monoclonal Antibody, Alirocumab, versus Ezetimibe, in Patients With Statin Intolerance as Defined by a Placebo Run-in and Statin Rechallenge Arm</td>
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<tr>
<td>11:39</td>
<td>Discussant of ODYSSEY ALTERNATIVE: Efficacy And Safety Of The Proprotein Convertase Subtilisin/kexin Type 9 Monoclonal Antibody, Alirocumab, Versus Ezetimibe, In Patients With Statin Intolerance As Defined By A Placebo Run-in And Statin Rechallenge Arm</td>
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<tr>
<td>11:42</td>
<td>Panel Discussion</td>
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<td>11:51</td>
<td>IMPROVE-IT Trial: A Comparison of Ezetimibe/Simvastatin versus Simvastatin Monotherapy on Cardiovascular Outcomes After Acute Coronary Syndromes</td>
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<tr>
<td>12:01</td>
<td>Discusant of IMPROVE-IT Trial: A Comparison of Ezetimibe/Simvastatin versus Simvastatin Monotherapy on Cardiovascular Outcomes after Acute Coronary Syndromes</td>
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**Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059**
Main Events

**MONDAY**

**Special**

**SS.03**

**Nobel Laureate Lecture**

S100ab
12:30 - 1:30 PM

Moderator:
Gerald W Dorn, St Louis, MO

12:30 Seven Transmembrane Receptors
Robert J Lefkowitz, Durham, NC

**Plenary**

**PS.03**

**Atrial Fibrillation: New Science, New Guidelines and New Uncertainties?**

North Hall B
2:00 - 3:15 PM

Moderators:
Anne B Curtis, Buffalo, NY
John Camm, London, United Kingdom

2:00 Hot Off the Press: Three Lessons from the Bench
Stanley Nattel, Montreal, QC, Canada

2:15 NOACs and Periprocedural Anticoagulation Management: Fear of the Unknown?
Elaine Hylek, Boston, MA

2:30 Atrial Fibrillation in Heart Failure: What Are We Missing and Where Do We Go?
Clyde W Yancy Jr., Chicago, IL

2:45 How Much AF Is Too Much?
Jeff S Healey, Hamilton, ON, Canada

3:00 2014 AF Guidelines: What’s New? What’s Not?
Craig T January, Madison, WI

**Special**

**SS.04**

**Best of Other Cardiovascular Meetings (Domestic)**

S106
2:00 - 3:15 PM

Moderators:
Frank W Sellke, Providence, RI
Timothy J Gardner, Newark, DE

2:00 Science Highlights from Cardiac Electrophysiology Society
Glenn Fishman, New York, NY

2:15 Science Highlights from Heart Rhythm Society
John Day, Salt Lake City, UT

2:30 Science Highlights from Transcatheter Cardiovascular Therapeutics
Martin Leon, New York, NY

2:45 Science Highlights from American College of Cardiology
Prediman K Shah, Los Angeles, CA

3:00 Science Highlights from American Association for Thoracic Surgery
Ralph Damiano, St Louis, MO

**Special**

**SS.05**

**Do You See the Big Picture? Read Challenging Cardiovascular Imaging Case Studies with Experts**

S100ab
2:00 - 3:15 PM

Moderators:
Valentin Fuster, New York, NY
William Zoghbi, Houston, TX

2:00 Is This Severe Aortic Stenosis, and What Will You Do?
Philippe Pibarot, Quebec, QC, Canada

2:25 Is This HCM, Why, and What Is the Risk of SCD?
Carolyn Ho, Boston, MA

2:50 Is This PAH, Why, and Is It Reversible?
Richard Channick, Boston, MA

**Special**

**SS.15.gc**

**Harnessing Big Data for Precision and Personalized Medicine**

S100c
2:00 - 3:15 PM

Moderators:
Christopher Newton-Cheh, Boston, MA
Donna K Arnett, Birmingham, AL

2:00 Genomics for Precision and Personalized Cardiovascular Medicine
Geoffrey S Ginsburg, Durham, NC

2:15 Prospects for Pharmacogenomics for Patients and Populations
Julie A Johnson, Gainesville, FL

2:30 Personalized Preventive Approaches to Cardiovascular Disease
Sekar Kathiresan, Boston, MA

2:45 Genome Sequencing for Personalized Medicine
Christine Seidman, Boston, MA

3:00 Future Directions for Precision and Personalized Cardiovascular Medicine
Deepak Srivastava, San Francisco, CA
Preventing Vanderbilt Using Cell Northwestern Lessons Using

Discussant Efficacy Panel
PreSERVE-AMI: Panel Discussant
Ventricular 4:45

Main Events

**Plenary**

<table>
<thead>
<tr>
<th>PS.04</th>
<th>Next Innovations for Heart Failure</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Hall B</td>
<td>3:45 - 5:00 PM</td>
</tr>
</tbody>
</table>
| **Moderators:** | Justin Ezekowitz, Edmonton, AB, Canada 
  Monica Shah, Bethesda, MD |
| 3:45 | Cutting Edge Diagnostics Using MicroRNA |
  Thomas Thum, Hannover, Germany |
| 4:00 | Using Electricity or a Catheter |
  Jagmeet P Singh, Boston, MA |
| 4:15 | Using Smaller, Smaller and Smaller...Devices |
  O Howard Frazier, Houston, TX |
| 4:30 | Monitoring the Patient: Listening to the Patient or a Novel Device |
  Lynne Warner Stevenson, Boston, MA |
| 4:45 | Cell Therapy: Science Fiction or Science Fact |
  Roberto Bolli, Louisville, KY |

**Special**

<table>
<thead>
<tr>
<th>SS.17</th>
<th>AHA Strategically Focused Network: Directions for Prevention and What Does It Take to Be Successful?</th>
</tr>
</thead>
<tbody>
<tr>
<td>S106</td>
<td>3:45 - 5:00 PM</td>
</tr>
</tbody>
</table>
| **Moderators:** | Jennifer L Hall, Minneapolis, MN 
  Mark A Creager, Boston, MA |
| 3:45 | HFpEF Prevention Center—University of Texas Southwestern |
  Joseph A Hill, Dallas, TX |
| 3:57 | Vanderbilt University Strategically Focused Prevention Research Center |
  David G Harrison, Nashville, TN |
| 4:09 | Preventing Heart Disease in New York City Children and Their Caregivers—Icahn School of Medicine at Mount Sinai |
  Valentin Fuster, New York, NY |
| 4:21 | Northwestern University Prevention Research Center: Preserving and Promoting Cardiovascular Health from Birth to Age 50 |
  Philip Greenland, Chicago, IL |
| 4:33 | Lessons from the Outcomes Network: What It Takes to Be Successful |
  Mark Hlatky, Stanford, CA |
| 4:45 | Panel Discussion |

**Clinical Science: Special Reports**

<table>
<thead>
<tr>
<th>CS.02</th>
<th>Off the Beaten Pathologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>S100ab</td>
<td>3:45 - 5:13 PM</td>
</tr>
</tbody>
</table>
| **Moderators:** | Hiroaki Shimokawa, Sendai, Japan 
  JoAnn Lindenfeld, Aurora, CO |
| 3:45 | The Prospective Comparison of Angiotensin Receptor Neprilysin Inhibitor (ARNI) With ACEI to Determine Impact on Global Mortality and Morbidity in Heart Failure (PARADIGM-HF) Trial |
  John JV McMurray, Glasgow, United Kingdom |
| 3:55 | Discussant of The Prospective comparison of Angiotensin Receptor Neprilysin inhibitor (ARNI) with ACEI to Determine Impact on Global Mortality and morbidity in Heart Failure (PARADIGM-HF) trial |
  Gregg C Fonarow, Los Angeles, CA |
| 3:58 | Panel Discussion |
| 4:07 | PreSERVE-AMI: A Randomized, Double-Blind, Placebo-Controlled Clinical Trial of Intracoronary Infusion of Autologous CD34+ Cells in Patients With Left Ventricular Dysfunction Post STEMI |
  Arshed A Quyyumi, Atlanta, GA |
| 4:20 | Panel Discussion |
| 4:29 | Ventricular Functional Response to Spinal Cord Stimulation for Advanced Heart Failure: Primary Results of the Randomized Defeat-HF Trial |
  Douglas P Zipes, Indianapolis, IN |
| 4:39 | Discussant of Ventricular Functional Response to Spinal Cord Stimulation for Advanced Heart Failure: Primary Results of the Randomized Defeat-HF Trial |
  James E Udelson, Boston, MA |
| 4:42 | Panel Discussion |
| 4:51 | Efficacy of Left Ventricular Augmentation With Algisyl-LVR in the Treatment of Advanced Heart Failure Patients With Ischemic and Non-Ischemic Cardiomyopathy: Results of the AUGMENT-HF Multicenter Randomized Controlled Trial |
  Douglas L Mann, St Louis, MO |
| 5:01 | Discussant of Efficacy of Left Ventricular Augmentation with Algisyl-LVR in the Treatment of Advanced Heart Failure Patients with Ischemic and Non-ischemic Cardiomyopathy: Results of the AUGMENT-HF Multicenter Randomized Controlled Trial |
  Mariell Jessup, Philadelphia, PA |
| 5:04 | Panel Discussion |
Clinical Science: Special Reports

**Trials and Cardiovascular Registries**

**S100ab**
7:15 - 8:43 AM

**Moderators:**
George Mensah, Bethesda, MD
Federico Gentile, Naples, Italy

7:15 **High-Density Lipoprotein Cholesterol Efflux Capacity is Associated With Incident First Atherosclerotic Cardiovascular Events in the Multi-Ethnic, Population-Based Dallas Heart Study**
Anand Rohatgi, Dallas, TX

7:25 **Discussant of High-Density Lipoprotein Cholesterol Efflux Capacity is Associated with Incident First Atherosclerotic Cardiovascular Events in the Multi-Ethnic, Population-Based Dallas Heart Study**
Daniel J Rader, Philadelphia, PA

7:28 **Panel Discussion**

7:37 **A Cluster Randomized Controlled Trial to Evaluate The Effect of a Simplified Multifaceted Management Program in High Cardiovascular Disease Risk Patients in Rural China and India: Simcard Study**
Maoyi Tian, China, Beijing, China

7:47 **Discussant of A Cluster Randomized Controlled Trial To Evaluate The Effect Of A Simplified Multifaceted Management Program In High Cardiovascular Disease Risk Patients In Rural China And India: Simcard Study**
Valentin Fuster, New York, NY

7:50 **Panel Discussion**

7:59 **Intention-to-Tweet: A Randomized Trial of Social Media from Circulation**
Caroline Fox, Boston, MA

8:09 **Discussant of Intention-to-Tweet: A Randomized Trial of Social Media from Circulation**
Mintu Turakhia, Palo Alto, CA

8:12 **Panel Discussion**

8:21 **Determining the Risks of Magnetic Resonance Imaging at 1.5 Tesla for Patients with Non-MRI Conditional Pacemakers and Implantable Cardioverter Defibrillators: Final Results of The MagnaSafe Registry**
Robert J Russo, La Jolla, CA

8:31 **Discussant of Determining the Risks of Magnetic Resonance Imaging at 1.5 Tesla for Patients with Non-MRI Conditional Pacemakers and Implantable Cardioverter Defibrillators: Final Results of The MagnaSafe Registry**
Mark Link, Boston, MA

8:34 **Panel Discussion**

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**Plenary**

**Current Controversies in Coronary Revascularization**

North Hall B
9:00 - 10:15 AM

**Moderators:**
Patrice Delafontaine, New Orleans, LA
Thomas Gleason, Pittsburgh, PA

9:00 **Identification of Vulnerable Plaque: Is This Still a Goal?**
Patrick W Serruys, Rotterdam, Netherlands

9:15 **Diabetes and Coronary Artery Disease: Is PCI Still an Option?**
Marie Morice, Massy, France

9:30 **Measuring Ischemia to Determine Revascularization: Anatomy, Physiology and Current Tools**
William Fearon, Stanford, CA

9:45 **PCI for STEMI: Radials, Thrombectomy and Multivessel CAD—Has the State of the Art Changed?**
Stefan K James, Uppsala, Sweden

10:00 **Medical Therapy, PCI and CABG for Coronary Artery Disease: Perspectives of the Patient, Provider and Payers**
David Cohen, Kansas City, MO

---

**Special**

**Best of Other Cardiovascular Meetings (International)**

S106
9:00 - 10:15 AM

**Moderators:**
Elliott Antman, Boston, MA
Fausto Pinto, Lisboa, Portugal

9:00 **Science Highlights from Great Wall International Congress of Cardiology**
Dayi Hu, Beijing, China

9:15 **Science Highlights from European Society of Cardiology**
Genevieve Derumeaux, Créteil, France

9:30 **Science Highlights from Japanese Circulation Society**
Ryozo Nagai, Shimotsuke, Japan

9:45 **Science Highlights from Chinese Society of Cardiology**
Yong Huo, Beijing, China

10:00 **Science Highlights from Brazilian Society of Cardiology**
Maria Moreira, Belo Horizonte, Brazil
### Special

#### SS.07

**Weighty Matters: The Obesity Paradox and the Heart**

**S100ab**  
**9:00 - 10:15 AM**

**Moderators:**  
JoAnn E Manson, Boston, MA  
Paul Poirier, Quebec City, QC, Canada

**9:00**  
**Association of Weight Status with All-Cause Mortality**  
Mercedes Carnethon, Chicago, IL

**9:15**  
**Importance of Age and Cohort Factors on the Impact of Obesity and Mortality**  
Francisco Lopez-Jimenez, Rochester, MN

**9:30**  
**The Impact of Obesity from a Global Perspective**  
JoAnn E Manson, Boston, MA

**9:45**  
**Fitness, Fatness and the Obesity Paradox**  
Carl Lavie, New Orleans, LA

**10:00**  
**Interventions in Obesity: Nonpharmacologic, Drugs and Surgery**  
Quinn R Pack, Springfield, MA

### Special

#### SS.09

**The Heart—Brain Axis in Congenital Heart Disease Across the Life Span**

**S100ab**  
**10:45 AM - 12:00 NOON**

**Moderators:**  
Jane Newburger, Boston, MA  
Bradley Marino, Chicago, IL

**10:45**  
**The Brain and Heart Surgery: Seeing Is Believing**  
J William Gaynor, Philadelphia, PA

**11:00**  
**Neurodevelopmental Disorders in Children: Surveillance and Outcomes**  
Jane W Newburger, Boston, MA

**11:15**  
**The Aging Brain: Adding Insult to Injury**  
Ariane J Marelli, Montreal, QC, Canada

**11:30**  
**Stroke Prevention in Congenital Heart Disease**  
E Steve Roach, Columbus, OH

**11:45**  
**Quality of Life: Nature Versus Nurture**  
Bradley Marino, Chicago, IL

### Late-Breaking Clinical Trials

#### LBCT.03

**Treatment of Structural Heart Disease**

**North Hall B**  
**10:45 AM - 12:13 PM**

**Moderators:**  
Patrick T O’Gara, Boston, MA  
Robert O Bonow, Chicago, IL

**10:45**  
**Randomized Trial of Atenolol Versus Losartan in Children and Young Adults With Marfan Syndrome**  
Ronald V Lacro, Boston, MA

**10:55**  
**Discussant of Randomized Trial of Atenolol Versus Losartan in Children and Young Adults with Marfan Syndrome**  
John A Elefteriades, New Haven, CT

**11:07**  
**A Randomized Trial of Losartan In Hypertrophic Cardiomyopathy - The INHERIT Trial**  
Anna Axelsson, Stockholm, Sweden

**11:17**  
**Discussant of A Randomized Trial Of Losartan In Hypertrophic Cardiomyopathy - The INHERIT Trial**  
Euan Ashley, Stanford, CA

**11:20**  
**Panel Discussion**

**11:29**  
Mark J Dayer, Taunton, United Kingdom

**11:39**  
Didier Raoult, Marseille, France

**11:42**  
**Panel Discussion**

**11:51**  
**The Surgical Treatment of Moderate Ischemic Mitral Regurgitation: A Randomized Clinical Trial From The Cardiothoracic Surgical Trials Network**  
Robert Michler, Bronx, NY

**12:01**  
**Discussant of The Surgical Treatment of Moderate Ischemic Mitral Regurgitation: A Randomized Clinical Trial from The Cardiothoracic Surgical Trials Network**  
David H Adams, New York, NY

**12:04**  
**Panel Discussion**

---

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Main Events

Special

SS.06

Distinguished Scientist Lecture

SS100ab
12:30 - 1:30 PM

Moderator:
Mariene Rabinovitch, Stanford, CA

12:30
A Dream from 1978: Making Good Health Decisions Based on Evidence
Robert M Califf, Durham, NC

Plenary

PS.06

New Perspectives on Cardiovascular Research: A Global Approach

North Hall B
2:00 - 3:15 PM

Moderators:
Elliott Antman, Boston, MA
Robert Harrington, Stanford, CA

2:00
Paul Dudley White International Lecture: Improving Cardiovascular Outcomes by Integrating Research and Reality
Lars Wallentin, Uppsala, Sweden

2:30
iPS Cells for Development of Therapeutics
Joseph C Wu, Stanford, CA

2:45
Developing Devices for Developing Countries
Todd J Brinton, Stanford, CA

3:00
Heart on a Chip
Kevin Kit Parker, Cambridge, MA

Special

SS.10

Best of AHA Specialty Conferences

S106
2:00 - 3:15 PM

Moderators:
Lora E Burke, Pittsburgh, PA
Mary Cushman, Colchester, VT

2:00
Science Highlights from Epidemiology and Prevention | Nutrition, Physical Activity and Metabolism
Veronique L Roger, Rochester, MN

2:15
Science Highlights from Arteriosclerosis, Thrombosis and Vascular Biology
Muredach P Reilly, Philadelphia, PA

2:30
Science Highlights from Basic Cardiovascular Sciences
Burns Blaxall, Cincinnati, OH

Special

SS.11

Familial Hypercholesterolemia: Integrating Genetic Information into Clinical Care

S100ab
2:00 - 3:15 PM

Moderators:
Joshua Knowles, Stanford, CA
Eric Jg Sijbrands, Rotterdam, Netherlands

2:00
Use of FH Genetics in Cascade Screening Efforts
G Kees Hovingh, Amsterdam, Netherlands

2:15
Evidence for the Use of Genetic Testing as Part of Population Screening Efforts
Anthony S Wierzbicki, London, United Kingdom

2:30
Does Genetic Information Improve the Care of Individual Patients?
Anne T Tybjaerg-Hansen, Copenhagen, Denmark

2:45
Is Widespread Use of Genetic Testing for FH Possible and Useful Outside Europe?
Raul Santos, São Paulo, Brazil

3:00
The Case for FH Genetic Testing in the United States
Daniel J Rader, Philadelphia, PA

Special

SS.14.gc

The Life Cycle of Big Data: Origins, Applications and Opportunities

S100c
2:00 - 3:15 PM

2:15
The Payor Perspective on Big Data
Marcus Wilson, Wilmington, DE

2:30
The Governance of Big Data
Elen Holve, Washington, DC

2:45
Panelist: Decision Support
John Spertus, Kansas City, MO

2:52
Panelist: Comparative Effectiveness Research
Joe Ross, New Haven, CT

3:06
Q&A Discussion
Main Events

Plenary

PS.07

Reciprocal Extrapolation: Individualizing Care Using Population Data

North Hall B
3:45 - 5:00 PM

Moderators:
Thomas Cappola, Philadelphia, PA
Charles Rotimi, Bethesda, MD

3:45
Large-Scale Biobanking: Investing in Individualized Care
John M Gaziano, Roxbury Crossing, MA

4:00
Whole Genomes: The Whole Enchilada for Personalized Care!
Euan Ashley, Stanford, CA

4:15
The Era of Personalized Medicine Is Here: JAMA’s View
Howard C Bauchner, Chicago, IL

4:30
Applying General Guidelines to Individual Patients
Jeffrey Goldberger, Chicago, IL

4:45
Genetic and Societal Contributors to Racial Disparities
Charles Rotimi, Bethesda, MD

Clinical Science: Special Reports

CS.01

Update on Randomized Trials

S100ab
3:45 - 5:13 PM

Moderators:
Frederick A Masoudi, Aurora, CO
Michael E Farkouh, Toronto, ON, Canada

3:45
On-Treatment Analysis of the IMProved Reduction of Outcomes: Vytorin Efficacy International Trial (IMPROVE-IT)
Michael A Blazing, Durham, NC

3:55
Discussant of On-Treatment Analysis of the IMProved Reduction of Outcomes: Vytorin Efficacy International Trial (IMPROVE-IT)
Jeffrey Anderson, Murray, UT

Panel Discussion

4:07
Lifetime Clinical and Economic Benefits of Statin-Based LDL Lowering in the 20-Year Followup of the West of Scotland Coronary Prevention Study
Chris J Packard, United Kingdom

4:17
Discussant of Lifetime Clinical and Economic Benefits of Statin-based LDL Lowering in the 20-year Followup of the West of Scotland Coronary Prevention Study
Harvey White, Auckland, New Zealand

Panel Discussion

4:20
Regional Analysis of Treatment of Preserved Cardiac Function Heart Failure With an Aldosterone Antagonist (TOPCAT)
Marc Pfeffer, Boston, MA

4:39
Discussant of Regional Analysis of Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist (TOPCAT)
Judith Hochman, New York, NY

Panel Discussion

4:42
Comparison of Ischemic and Bleeding Events After Drug-Eluting Stents or Bare Metal Stents in Subjects Receiving Dual Antiplatelet Therapy: Results from the Randomized Dual Antiplatelet Therapy Study
Dean J Kereiakes, Cincinnati, OH

5:01
Discussant of Comparison of Ischemic and Bleeding Events After Drug-Eluting Stents or Bare Metal Stents In Subjects Receiving Dual Antiplatelet Therapy: Results from the Randomized Dual Antiplatelet Therapy Study
Daniel B Mark, Durham, NC

Panel Discussion

5:04

Special

SS.18

Creating a Culture of Health: AHA 2020 Impact Goals

S106
3:45 - 5:00 PM

Moderators:
Vincent Bufalino, Naperville, IL
Mary Ann Bauman, Oklahoma City, OK

3:45
Diet and Health
Dean Ornish, Sausalito, CA

4:00
Exercise Towards Health
Steven Blair, Columbia, SC

4:15
Assessing Cardiac Risk
Donald M Lloyd-Jones, Chicago, IL

4:30
Using Mobile Devices to Monitor and Change Healthy Behaviors
Michael V McConnell, Stanford, CA

4:45
Panel Discussion

5:01
Panel Discussion

5:04
Panel Discussion
Main Events

Clinical Science: Special Reports

CS.05
Results of ODYSSEY

S100ab
7:15 - 8:20 AM
Moderators:
Anne C Goldberg, St Louis, MO
David C Golf Jr., Aurora, CO

7:15 State of the Art: The Odyssey Trials
Amit Khera, Dallas, TX

7:30 Efficacy and Safety of Combining Alirocumab With Atorvastatin or Rosuvastatin versus Statin Intensification or Adding Ezetimibe in High Cardiovascular Risk Patients: ODYSSEY OPTIONS I and II
Harold Bays, Louisville, KY

7:30 Efficacy and Safety of Alirocumab With Atorvastatin or Rosuvastatin versus Statin Intensification or Adding Ezetimibe in High Cardiovascular Risk Patients: ODYSSEY OPTIONS I and II
Harold Bays, Louisville, KY

7:35 ODYSSEY HIGH FH: Efficacy and Safety of Alirocumab in Patients With Severe Heterozygous Familial Hypercholesterolemia
Henry N Ginsberg, New York, NY

7:40 Efficacy and Safety of Alirocumab in High Cardiovascular Risk Patients With Suboptimally Controlled Hypercholesterolemia on Maximally Tolerated Doses of Statins: The ODYSSEY COMBO I Study
Dean J Kereiakes, Cincinnati, OH

7:45 Long-term Safety, Tolerability and Efficacy of Alirocumab versus Placebo in 2,341 High Cardiovascular Risk Patients: ODYSSEY LONG TERM
Jennifer G Robinson, Iowa City, IA

7:50 Challenges of Surrogate Outcomes
Michael Pencina, Durham, NC

7:57 Panel Discussion to Include Moderators and Panelists
Panel Participants
Joshua Knowles, Stanford, CA
Raul Santos, São Paulo, Brazil

Plenary

PS.08
Failure Is Not an Option: The Intersection of Diabetes and Heart Failure Epidemics

S100ab
9:00 - 10:15 AM
Moderators:
Marielli Jessup, Philadelphia, PA
Anselm K Gitt, Ludwigshafen, Germany

9:00 Diabetes and Heart Failure: The Nexus of 2 Epidemics
Veronique L Roger, Rochester, MN

9:15 Novel Mechanisms of Diabetic Cardiomyopathy
Dale Abel, Iowa City, IA

9:30 Influence of Diabetes on the Management of Heart Failure
John McMurray, Glasgow, United Kingdom

9:45 Heart Failure Signals with Diabetes Drugs: PPAR-Gamma, PPAR-Alpha/Gamma, and DPP 4 Inhibitors
Benjamin Scirica, Boston, MA

10:00 SGLT-2 Antagonists: Glucose-Lowering Drugs with Diuretic Properties or Vice Versa
Bruce Neal, Sydney, Australia

Special

SS.16
Next Best Thing in Cardiovascular Science (at Lightning Speed)

S406b
9:00 - 10:20 AM
Moderators:
Melina Kibbe, Chicago, IL
Roger Hajjar, New York, NY

9:00 (ATVB) The Next Generation of Lipid-Lowering Drug Therapies
Ryan Temel, Lexington, KY

9:10 (3CPR) Next Big Thing in Resuscitation: Running a Code with a Molecular Biology Cart
Benjamin S Abella, Philadelphia, PA

9:10 (3CPR) Next Big Thing in Resuscitation: Running a Code with a Molecular Biology Cart
Evangelos D Michelakis, Edmonton, AB, Canada

9:15 (CVSN) Next Best Thing in Nursing Science and Practice
Deborah Chyun, New York, NY

9:20 Next Best Thing in CVDY
William Mahle, Atlanta, GA

9:25 Targeted Molecular Imaging of Atherosclerosis: The Next Best Thing in Cardiovascular Imaging (CVRI)
Pamela Woodard, St Louis, MO

9:30 Next Best Thing in CVSA
J Michael DiMaio, Dallas, TX

9:35 Next Best Thing in Clinical Cardiology
Chris C Granger, Durham, NC

9:40 (EPI) Preserving Ideal CVH from Childhood into Adulthood
Darwin Labarthe, Chicago, IL

9:45 Next Best Thing in FGBT
Jennifer Van Eyk, Los Angeles, CA

9:50 Next Best Thing in Hypertension
Gregory D Fink, East Lansing, MI

9:55 Next Best Thing in KCVD
Pablo A Ortiz, Detroit, MI

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### Main Events

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<td>10:00</td>
<td><strong>Next Best Thing in Lifestyle and Cardiometabolic Health</strong></td>
<td>Baltimore, MD</td>
</tr>
<tr>
<td>10:05</td>
<td><strong>Next Best Thing in PVD</strong></td>
<td>San Francisco, CA</td>
</tr>
<tr>
<td>10:10</td>
<td><strong>(QCOR) Go Big: The Solution to the Medical Information Drought</strong></td>
<td>New Haven, CT</td>
</tr>
<tr>
<td>10:15</td>
<td><strong>Next Best Thing in Stroke</strong></td>
<td>Cleveland, OH</td>
</tr>
<tr>
<td>11:00</td>
<td><strong>Aggressive LDL-C Lowering Can Normalize Vasomotor Reactivity</strong></td>
<td>Amsterdam, Netherlands</td>
</tr>
<tr>
<td>11:45</td>
<td><strong>What Is the Best Method for Evaluating Regression of Early Atherosclerosis?</strong></td>
<td>Boston, MA</td>
</tr>
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</table>

### Late-Breaking Clinical Trials

**Ischemic Heart Disease: Drugs, Devices and Systems of Care**

- **S100ab**
  - Time: 10:45 AM - 12:03 PM
  - Moderators: Harold Dauerman, Burlington, VT

### Special

**Oral Antiplatelet Agents After Drug-Eluting Stents: Which Agent and for How Long?**

- **S106**
  - Time: 9:00 - 10:15 AM
  - Moderators: Laura Mauri, Boston, MA

- **9:00**
  - DAPT Choices and Duration: Does Platelet Reactivity Help Guide Us?
    - David Schneider, Colchester, VT

- **9:15**
  - Switching Agents Acutely and During Follow-up: It Saves Money, but Is It Safe?
    - Dominick J Angiolillo, Jacksonville, FL

- **9:30**
  - Duration of DAPT Post DES: Is Shorter Better?
    - Roxana Mehran, New York, NY

- **9:45**
  - Duration of DAPT: Longer Is Safer
    - Donald E Cutlip, Boston, MA

- **10:00**
  - Case Presentation: Complex PCI Patient with a DAPT Dilemma
    - Dean Kereiakes, Cincinnati, OH

### Special

**Curing Atherosclerosis: The Next Step in Cardiovascular Prevention?**

- **S106**
  - Time: 10:45 AM - 12:00 NOON
  - Moderators: Vera Bittner, Birmingham, AL

- **10:45**
  - Can We Cure Atherosclerosis?
    - Jennifer G Robinson, Iowa City, IA

- **11:00**
  - Regression of Atherosclerosis in Children
    - Samuel S Gidding, Wilmington, DE

- **11:15**
  - Aggressive LDL-C Lowering Can Reverse Atherosclerosis
    - Edward Fisher, New York, NY
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Attend the accredited Scientific Sessions conferences of the American Heart Association and American Stroke Association, and expand your knowledge of your specialty. Learn from cardiovascular and cerebrovascular science experts, who will share emerging scientific research and clinical applications. And meet colleagues from around the world in your field of interest.

International Stroke Conference
February 11–13, 2015
State-of-the-Science Stroke Nursing Symposium
February 10, 2015
ISC Pre-Conference Symposium
February 10, 2015
Music City Center, Nashville, TN

EPI/Lifestyle 2015 Scientific Sessions
March 3–6, 2015
Baltimore Marriott Waterfront, Baltimore, MD

Quality of Care and Outcomes Research 2015 Scientific Sessions
April 29–May 1, 2015
Hilton Baltimore, Baltimore, MD

Arteriosclerosis, Thrombosis and Vascular Biology 2015 Scientific Sessions
May 7–9, 2015
Hilton San Francisco Union Square, San Francisco, CA

Basic Cardiovascular Sciences 2015 Scientific Sessions
July 13–16, 2015
Hilton New Orleans Riverside, New Orleans, LA

Hypertension 2015 Scientific Sessions
September 16–19, 2015
Omni Shoreham, Washington, DC

Scientific Sessions 2015
November 7–11, 2015
Resuscitation Science Symposium
November 7–8, 2015
Cardiovascular Clinical Nursing Symposium
November 10–11, 2015
Orange County Convention Center, Orlando, FL

Scan for more conference details.
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For more information, contact DSCinfo@jointcommission.org or call (630) 792-5291.

www.jointcommission.org/AdvCertHF
The Stroke Resource Center is the American Stroke Association’s new tool to deliver stroke information beyond mainstream media approaches. By providing the general public and healthcare providers with trusted stroke information at the click of a button, we intend to increase awareness that stroke is largely preventable, treatable, and beatable and drive action among Americans to reduce the overall impact of stroke.

**Benefits of the Stroke Web Resource Center**

**For the General Public**

- Educational information on stroke prevention, treatment, and recovery.

- Opportunity to learn health impact skills to reduce stroke-related risk and learn the most common warning signs to spot a stroke F.A.S.T.

**For Healthcare Providers**

- Recognized and trusted source of stroke information to encourage patients to take charge of their own health.

- Evidence-based prevention and treatment information to improve the quality of care.

For more information, go to StrokeAssociation.org/resources.

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We believe everyone deserves to live a healthier, longer life. *Life is why* we have created many educational brochures and videos to help healthcare providers reach patients, caregivers, and at-risk groups to promote disease management and motivate change. Topics include:

- Heart Disease and Stroke
- High Blood Pressure
- Conditions, Tests
- Medications, Treatments and Procedures
- Recovery and Caregiving

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Stay on top of the latest in cardiology medicines, devices, products and services in the Science & Technology Hall.

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- Meet the TRIALIST: Connect with researchers in select trials and get your questions answered
- Engage with more than 200 exhibitors
- Get hands-on CPR training
- Get a professional photo taken FREE sponsored by AHA’s Professional Membership
- Read a book in Publisher’s Row
- Visit and learn in the Poster Sessions
- Use the complimentary Wi-Fi lounge and charging stations

SCIENCE & TECHNOLOGY HALL HOURS
NOV 16: 11 A.M. - 6 P.M. | NOV 17: 10 A.M. - 6 P.M. | NOV 18: 10 A.M. - 2:30 P.M.
Global Congress: Harnessing the Power of Big Data – Bench-to-Bedside, to Population

This exciting four-day series of seminars and how-to sessions, occurring within Scientific Sessions 2014, will bring together leading experts from around the world on the application of big data science in basic, translational, genomic, clinical, population, quality and outcomes science.

Participants and attendees will hear state-of-the-art information on big data science for understanding disease mechanisms, epidemiological determinants and practice for the accelerated improvement in the prevention, treatment and clinical care of cardiovascular disease on a global scale. The importance of the collection, analysis and leveraging of large scale data resources across the world will be addressed.

Global Congress programming spans Saturday through Tuesday. You DO NOT want to miss the featured sessions below including the Opening Session on Sunday, Nov. 16th.

<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Harnessing the Power of Big Data: Bench to Bedside to Population</td>
<td>Sunday, Nov. 16</td>
<td>8–11 AM</td>
</tr>
<tr>
<td>Ethics and Governance of Big Data Collections for Research and Clinical Care</td>
<td>Monday, Nov. 17</td>
<td>10:45 AM–12 PM</td>
</tr>
<tr>
<td>Harnessing Big Data for Precision and Personalized Medicine</td>
<td>Monday, Nov. 17</td>
<td>2–3:15 PM</td>
</tr>
<tr>
<td>Harnessing Big Data for Fundamental Discovery of Novel Targets and Mechanistic Insight</td>
<td>Tuesday, Nov. 18</td>
<td>10:45–12 PM</td>
</tr>
<tr>
<td>Lifecycle of Big Data – Origins, Applications and Opportunities</td>
<td>Tuesday, Nov. 18</td>
<td>2–3:15 PM</td>
</tr>
</tbody>
</table>

All Global Congress sessions will be featured in the Global Congress Room S100c.

Stay tuned for exciting details at scientificsessions.org
Early Career

Team Science, Big Data Research and Finding a Job: A Primer for Early Career Epidemiology and Outcomes Investigators (Planned by the Councils on Epidemiology and Prevention, Lifestyle and Cardiometabolic Health and Quality of Care and Outcomes Research)

S504
1:00 - 5:00 PM

Moderators:
Norrina B Allen, Chicago, IL
Steven M Bradley, Denver, CO

EPI/Lifestyle/QCOR: What Do These Councils Do?
1:00 Epidemiology and Prevention
David C Goff Jr., Aurora, CO

1:05 Lifestyle and Cardiometabolic Health
Deborah R Young, Pasadena, CA

1:10 Quality of Care and Outcomes Research
Eric D Peterson, Durham, NC

1:15 Q&A Discussion

1:20 Team Science: What It Means and How It Can Help You Succeed
Bonnie Spring, Chicago, IL

1:35 TBD
Mark J Pletcher, San Francisco, CA

1:50 Creating International Collaborations
Gerald Bloomfield, Durham, NC

2:05 Opportunities for Big Data Research: AHA and the IOM Continuous Learning from Routinely Collected Data Report
Robert Harrington, Stanford, CA

2:20 NIH Commitment to Supporting Big Data to Knowledge: National Priorities and Opportunities for Cardiovascular Researchers
Jennie Larkin, Bethesda, MD

2:35 PCORI’s Big Idea for Big Data: Opportunities for Comparative Effectiveness Research
Lesley H Curtis, Durham, NC

2:50 Q&A Discussion

3:10 Intermission

3:25 The Job Application Process: Tips For Finding and Applying for Job Openings That Are Right For You
Lekki Wood, Houston, TX

3:40 Hard Money or Soft Money: Which Type of Position Is Right for You?
Stephanie Chiuve, Boston, MA

3:55 You Have Been Contacted for an Interview! Now What Happens?
Cheryl Anderson, San Diego, CA

4:30-4:55 Q&A Discussion
Sunday Morning Program

Harnessing the Power of Big Data—Bench-to-Bedside, to Population

S100c
8:00 - 11:00 AM

Moderators:
Robert Harrington, Stanford, CA
Gary H Gibbons, Bethesda, MD

8:00 Welcome Address
Robert Harrington, Stanford, CA

8:05 Harnessing the Power of Big Data to Transform Global Health
Gary H Gibbons, Bethesda, MD

8:30 Faster, Better, Cheaper: Re-engineering Scientific Research Enterprise with Big Data
Harlan M Krumholz, New Haven, CT

8:50 Big Data: The Promise and Challenges in Clinical Science
Robert M Califf, Durham, NC

9:10 Big Data: The Promise and Challenges in Basic and Genomic Science
Joseph Loscalzo, Boston, MA

9:30 Case Study in using Big Data to Build Prevention and Chronic Disease Management in the Veterans Affairs System
John M Gaziano, Boston, MA

9:50 Q&A Discussion

Cardiovascular Seminar

The Role of mHealth in Management and Prevention of CVD

S100c
5:30 - 6:45 PM

Moderator:
Michael V McConnell, Stanford, CA

5:30 Heart Failure and mHealth
Zubin Eapen, Durham, NC

5:45 Smartphone Intervention to Improve Diabetes Management
Kayo Waki, Tokyo, Japan

6:00 Smoking Cessation Phone Apps to Support Quit Success
Bill Riley, Bethesda, MD

6:15 Wearable Devices to Assess Physical Activity
Robert Ross, Kingston, ON, Canada

6:30 Commentary: Role of mHealth in Promoting CV Health
George Mensah, Bethesda, MD

Cardiovascular Seminar

Using the EMR to Transform Research and Clinical Care Delivery

S100c
3:45 - 5:00 PM

Moderator:
Michael S Blum, San Francisco, CA

3:45 What is Meaningful Use of an EHR?
William Bria, Jacksonville, FL

4:00 How does EHR Work in the Era of HealthCare Reform and ACOs?
Tom Karson, New York, NY

4:15 TBD

4:30 TBD

4:45 Panel Discussion: EHRs—Fulfilling a Promise or New Digital Masters
**Ask the Experts**

**How to Access, Analyze, Interpret and Harness Human Genomics and Omics for Your Research**

**S100c**  
7:30 - 8:45 AM

**Moderators:**  
Christopher Newton-Cheh, Boston, MA  
Andrew Johnson, Framingham, MA

- **7:30** GWAS to Whole Genome Sequence  
  Andrew Johnson, Framingham, MA

- **7:45** Transcriptomics: Gene Chips, RNA Sequencing, ENCODE  
  Roby Joehanes, Bethesda, MD

- **8:00** Epigenomics: From DNA Methylation to Structural Genomics  
  Myriam Fornage, Houston, TX

- **8:15** Metabolomics in Health and Disease  
  Robert Gerszten, Boston, MA

- **8:30** Integrative Genomics for the Dissection of Human Diseases  
  Nancy Cox, Chicago, IL

**Cardiovascular Seminar**

**Ethics and Governance of Big Data Collections for Research and Clinical Care**

**S100c**  
10:45 AM - 12:00 NOON

**Moderators:**  
TBD

- **10:45** Private Sector Perspective  
  Matthew Herper, New York City, NY

- **11:20** Academic Clinical Science Perspective  
  TBD

- **11:35** Patient Perspective on Patient Confidentiality and Data Sharing  
  Angela Radcliffe, Tarrytown, NY

- **11:45** Panel Discussion

**Special**

**Harnessing Big Data for Precision and Personalized Medicine**

**S100c**  
2:00 - 3:15 PM

**Moderators:**  
Christopher Newton-Cheh, Boston, MA  
Donna K Arnett, Birmingham, AL

- **2:00** Genomics for Precision and Personalized Cardiovascular Medicine  
  Geoffrey S Ginsburg, Durham, NC

- **2:15** Prospects for Pharmacogenomics for Patients and Populations  
  Julie A Johnson, Gainesville, FL

- **2:30** Personalized Preventive Approaches to Cardiovascular Disease  
  Sekar Kathiresan, Boston, MA

- **2:45** Genome Sequencing for Personalized Medicine  
  Christine Seidman, Boston, MA

- **3:00** Future Directions for Precision and Personalized Cardiovascular Medicine  
  Deepak Srivastava, San Francisco, CA

_____

**Cardiovascular Seminar**

**The PCORI Vision for New Big Data Networks**

**S100c**  
9:00 - 10:15 AM

**Moderators:**  
Veronique L Roger, Rochester, MN  
Frederick A Masoudi, Aurora, CO

- **9:00** Leveraging Big Data for Patient-Centered Outcomes Research: The PCORnet Vision  
  Sarah Greene, Washington, DC

- **9:15** The Building Blocks of the PCORnet National Clinical Research Network  
  Robert M Califf, Durham, NC

- **9:30** The Chicago Area Patient-Centered Outcomes Research Network (CAPriCORN)  
  Frances Weaver, Maywood, IL

- **9:45** The Mid-South Clinical Data Research Network  
  Thomas Wang, Nashville, TN

- **10:00** Engaging Patients in Big Data Networks  
  Mark J Pletcher, San Francisco, CA
### Cardiovascular Seminar

**CVS.211.gc**

**How to Leverage Technology in Patient Self-Management**

**S502**  
3:45 - 5:00 PM

**Moderator:**  
Nancy T Artinian, Detroit, MI

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>3:45</td>
<td>Using Mobile Phone Technology to Increase Compliance in Diabetics</td>
<td>Charlene Quinn, Baltimore, MD</td>
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<tr>
<td>4:00</td>
<td>Using Social Media: Benefits and Dangers</td>
<td>Tiny Jaarsma, Linkoping, Sweden</td>
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<td>4:15</td>
<td>Web-Based Interventions for Cardiovascular Risk Reduction</td>
<td>Hayden Bosworth, Durham, NC</td>
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<td>4:30</td>
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<tr>
<td>4:45</td>
<td>Using Second Life Web-Based Applications in Diabetic Patients</td>
<td>Allison Vorderstrasse, Durham, NC</td>
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</tbody>
</table>

### Cardiovascular Seminar

**CVS.230.gc**

**The Health eHeart Study: Using Big Data to Perform a Large, Internet-Based, Cardiovascular Cohort Study**

**S100c**  
5:30 - 6:45 PM

**Moderators:**  
Gregory M Marcus, San Francisco, CA  
Michael S Blum, San Francisco, CA

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>5:30</td>
<td>Overview of the Health eHeart Study: Rationale, Possibilities, and Where We Are Thus Far</td>
<td>Jeffrey Olgin, San Francisco, CA</td>
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<tr>
<td>5:45</td>
<td>PCORnet and the Health eHeart Alliance</td>
<td>Mark J Fletcher, San Francisco, CA</td>
</tr>
<tr>
<td>6:00</td>
<td>Harnessing Social Media to Enhance Internet-Based Cardiovascular Research</td>
<td>Tuhin Sinha, San Francisco, CA</td>
</tr>
<tr>
<td>6:15</td>
<td>How the Health eHeart Study May Be Used to Complement Conventional Cohort Studies</td>
<td>Caroline S Fox, Framingham, MA</td>
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<tr>
<td>6:30</td>
<td>Panel Discussion</td>
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</table>

**CVS.233.gc**

**What Have We Learned from Large-Scale Genomics in Cardiovascular Disease and Stroke?**

**S100c**  
3:45 - 5:00 PM

**Moderators:**  
Nilesh Samani, Leicester, United Kingdom  
Christopher J O’Donnell, Framingham, MA

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<tr>
<td>3:45</td>
<td>Large-Scale Genomic Studies of Coronary Artery Disease/Myocardial Infarction</td>
<td>Heribert Schunkert, München, Germany</td>
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<tr>
<td>4:00</td>
<td>The Genomics of Stroke</td>
<td>Sudha Seshadri, Boston, MA</td>
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<tr>
<td>4:15</td>
<td>Large-Scale Genome Studies of Dyslipidemia and Its Risk for CVD</td>
<td>Sekar Kathiresan, Boston, MA</td>
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<tr>
<td>4:30</td>
<td>Large-Scale Genomic Studies of Hypertension and Its Risk for CVD</td>
<td>Christopher Newton-Cheh, Boston, MA</td>
</tr>
<tr>
<td>4:45</td>
<td>Genomics of Atrial Fibrillation and Related Risk for Stroke</td>
<td>Patrick T Ellinor, Boston, MA</td>
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</tbody>
</table>

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Ask the Experts

**ATE.203.gc**

**How to Collaborate with Large-Scale Cohorts and Genome Programs**

S100c  
**7:30 - 8:45 AM**

**Moderators:**
Bruce Psaty, Seattle, WA  
Myriam Fornage, Houston, TX

7:30 TBD

7:45 *How to Collaborate with the UK Biobank*  
Rory Collins, Oxford, United Kingdom

8:00 *How to Collaborate with the Health eHeart Study*  
Gregory M Marcus, San Francisco, CA

8:15 *How to Get Started in Collaborative Science: The Investigator Perspective*  
Jennifer Wessel, Indianapolis, IN

8:30 *How to Collaborate with Large-Scale Genome Consortia*  
Joshua C Bis, Seattle, WA

Cardiovascular Seminar

**CVS.228.gc**

**Harnessing Big Data for Fundamental Discovery of Novel Targets and Mechanistic Insight**

S100c  
**10:45 AM - 12:00 NOON**

**Moderators:**
Anthony Rosenzweig, Boston, MA  
Joseph Loscalzo, Boston, MA

10:45 *Systems Biology Approaches to Big Data Networks*  
Joseph Loscalzo, Boston, MA

11:00 *Nonlinear Dynamics in Physiological Data*  
Ary Goldberger, Boston, MA

11:15 *Integrating Big Data from Humans and Experimental Models*  
Stuart A Cook, Durham, NC

11:30 *Efficient Functional Validation of Targets Implicated by Big Data*  
Calum A MacRae, Boston, MA

11:45 *Using Big Data to Understand Cardiomyopathy*  
Christine Seidman, Boston, MA

Cardiovascular Seminar

**CVS.232.gc**

**Using Big Data for Postmarket Surveillance of Drugs and Devices**

S100c  
**9:00 - 10:15 AM**

**Moderators:**
Nihar Desai, New Haven, CT  
Joe Ross, New Haven, CT

9:00 *Surveillance Tools to Detect Bleeding Events with NOACS*  
Alan S Go, Oakland, CA

9:20 *Monitoring Device Safety in Cardiovascular Medicine/Interventional Cardiology*  
Frederic Resnic, Burlington, MA

9:40 *Using Big Data for Post-Market Surveillance of Medical Devices*  
Richard E Kuntz, Minneapolis, MN

10:00 Q&A Discussion

Special

**SS.14.gc**

**The Life Cycle of Big Data: Origins, Applications and Opportunities**

S100c  
**2:00 - 3:15 PM**

**Moderator:**
Michael S Blum, San Francisco, CA

2:00 *The Payor Perspective on Big Data*  
Marcus Wilson, Wilmington, DE

2:15 *The Governance of Big Data*  
Erin Holve, Washington, DC

2:30 *Panelist: Decision Support*  
John Spertus, Kansas City, MO

2:45 *Panelist: Comparative Effectiveness Research*  
Joe Ross, New Haven, CT

3:00 Q&A Discussion

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Global Congress on Big Data

Cardiovascular Seminar

CVS.234.gc

Harnessing Genomics and Other Omics for CVD Gene Discovery and Translation in Very Large Populations

S100c
3:45 - 5:00 PM

Moderators:
Ruth McPherson, Ottawa, ON, Canada
Santhi Ganesh, Ann Arbor, MI

3:45 The Power of Collaborations with Genomics in the CHARGE Consortium
Bruce Psaty, Seattle, WA

4:00 Discovering Disease Variation from Genomic Studies in Diverse Populations
Donna K Arnett, Birmingham, AL

4:15 Mendelian Randomization and Genomics in the Evaluation of Cardiometabolic Disease
Juan Pablo Casas, London, United Kingdom

4:30 Pharmacogenetics from Randomized Trials to Populations
Julie A Johnson, Gainesville, FL

4:45 Lessons Learned from Genomics in Very Large Populations
Kári Stefánsson, Reykjavík, Iceland

Cardiovascular Seminar

CVS.235.gc

Globalization of Health Data Networks to Improve Cardiovascular Health: Pressing Need or Pipe Dream?

N227b
5:30 - 6:45 PM

Moderators:
John F Beltrame, Adelaide, Australia
Robert L McNamara, New Haven, CT

5:30 Global Cooperation in Cardiovascular Outcomes Assessment: What Is the Need?
Harlan M Krumholz, New Haven, CT

5:45 Barriers to Developing a Global Cardiovascular Health Data Network: Mission Impossible?
Valentin Fuster, New York, NY

6:00 Opportunities for International Standardization of Measurement to Enable Global CER
John F Beltrame, Adelaide, Australia

6:15 TBD
TBD

6:30 China PEACE: A Case Study in International Cooperation in Outcomes Research
Lixin Jiang, Beijing, China

Ask the Experts

ATE.202.gc

How to Use mHealth Tools to Prevent and Manage Cardiovascular Disease

S100c
5:30 - 6:45 PM

Moderators:
Bonnie Spring, Chicago, IL
Kathryn Wood, Durham, NC

5:30 How to Use a Remote Monitoring System for CHF
Lorraine Evangelista, Irvine, CA

5:40 How to Use a Smartphone Client-Server Teleradiology System for Primary Diagnosis of Acute Stroke
Joseph R Mitchell, Scottsdale, AZ

5:50 How to Use a Smartphone to Collect Diet and Exercise Self-Monitoring Data and Promote Adherence
Lora E Burke, Pittsburgh, PA

6:00 How to Use Wearable Devices to Monitor Physical Activity
Steven N Blair, Columbia, SC

6:10 mHealth Tools for Dietary Assessment: Strengths and Limitations
Carol Boushey, Honolulu, HI
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Mid Jan - 1 March: Clinical case submission
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Grow Your Knowledge and Expand Your Early Career!

We know as an Early Career Professional you want the latest scientific research, best career resources and plenty of networking opportunities at Scientific Sessions 2014!

Saturday, Nov. 15 — Early Career Day

Early Career Day promotes networking and mentorship between early career members and senior investigators for scientific outreach and career building.

9:00–11:30 AM | General Session
11:45 AM–12:45 PM | Lunch in the Congress room (S100c) (Sponsored by AHA/ASA Professional Membership)
1:00–5:00 PM | Specialty Science Breakouts (Including the PVD FIT Workshops, 8:00 AM–5:00 PM)
5:00–6:30 PM | Reception

Young Investigator Awards

Don’t miss these council-sponsored sessions/competitions designed to recognize promising and outstanding investigators in the early stages of their careers and stimulate continued interest in basic or clinical research.

Saturday, Nov. 15 – Wednesday, Nov. 19 — Early Career Track

Find sessions targeted for Early Career professionals with the Early Career Track!
http://scientificsessions.org/earlycareer

Programming Highlights:

- EC.11 Keys to Early Career Success in Pediatric Cardiology (Planned by the CVDY Council)
- EC.17 Imaging Boot Camp (Planned by the CVRI Council)
- EC.08 Keys to Success in Contemporary Nursing Science (Planned by the CVSN Council)
- EC.12 How to Navigate the Omics World (Planned by the FGTB Council)
- EC.09/EC.10 The Path to a Successful Career in Cardiovascular Sciences – Part 1 (Planned by the BCVS Council)
- EC.04 Emerging Researchers From 3CPR Council – How to Build a Road Map for Your Career in Cardiopulmonary, Critical Care, Perioperative and Resuscitation Research (Planned by the 3CPR Council)
- EC.05 Considering Electrophysiology as a Specialty – Part 1 (Planned by the CLCD Council)
- EC.06 My Story: A Panel Discussion on the Different Types of EP Career Options – Part 2 (Planned by the CLCD Council)
- EC.16 Developing Your Niche in Cardiovascular Surgery and Anesthesia (Planned by the CVSA Council)
- EC.20 Joint AHA/Heart Failure Society of America Session: Career Opportunities and Program Building in Heart Failure
- EC.07 Early Career EP Clinical Session – Part 3 (Planned by the CLCD Council)
- EC.13 Interventional Cardiology

Join us in the Early Career Engagement Lounge! A place to meet your peers, learn how AHA/ASA can enhance your career and participate in our social media with blogs, posts, tweets and more! Located in the Grand Concourse Lobby in Registration.

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<tr>
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<td>EC.21</td>
<td>PVD FIT—Welcome Remarks and Session 1: Steps to a Successful Career</td>
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<td>9:00-10:00</td>
<td>EC.01</td>
<td>Early Career Opening General Session: Developing the Skills Needed to</td>
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<td>Succeed for All Disciplines Part II</td>
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<tr>
<td>9:25-11:05</td>
<td>EC.22</td>
<td>PVD FIT—Session 2: Venous Disease</td>
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<td>10:00-11:00</td>
<td>EC.02</td>
<td>Early Career Opening General Session: Developing the Skills Needed</td>
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<td>to Succeed for All Disciplines Part II</td>
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<td>11:00-12:00</td>
<td>EC.03</td>
<td>Early Career Opening General Session: Developing the Skills Needed</td>
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<td>11:20-12:30</td>
<td>EC.23</td>
<td>PVD FIT—Session 3: Diseases of the Aorta and Major Branches</td>
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<td>1:00-1:45</td>
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<td>Considering Electrophysiology as a Specialty—Part I (Planned by the</td>
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<td>1:00-2:30</td>
<td>EC.20</td>
<td>Joint AHA/Heart Failure Society of America Session: Career Opportunities and Program Building in Heart Failure</td>
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<td>1:00-2:45</td>
<td>EC.09</td>
<td>The Path to a Successful Career in Cardiovascular Sciences—Part I</td>
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<td>1:00-3:00</td>
<td>EC.15</td>
<td>Career Development (Planned by the Councils on Functional Genomics</td>
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<td>and Translational Biology and Clinical Cardiology)</td>
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<td>EC.04</td>
<td>Emerging Researchers from 3CPR Council: How to Build a Road Map for</td>
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<td>S401bcd</td>
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<td>Your Career in Cardiopulmonary, Critical Care, Perioperative and</td>
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<td>Resuscitation Research (Planned by the Council on Cardiopulmonary,</td>
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<td>Critical Care, Perioperative and Resuscitation)</td>
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<td>1:00-5:00</td>
<td>EC.11</td>
<td>Keys to Early Career Success in Pediatric Cardiology (Planned by the</td>
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<td>Council on Cardiovascular Disease in the Young)</td>
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<td>1:00-6:00</td>
<td>EC.17</td>
<td>Imaging Boot Camp (Planned by the Council on Cardiovascular Radiology and Intervention)</td>
<td>81</td>
<td>S505</td>
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<td>1:00-5:00</td>
<td>EC.13</td>
<td>Interventional Cardiology</td>
<td>82</td>
<td>S403</td>
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<td>EC.08</td>
<td>Keys to Success in Contemporary Nursing Science (Planned by the</td>
<td>82</td>
<td>S502</td>
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<td>Council on Cardiovascular and Stroke Nursing)</td>
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<td>EC.14.gc</td>
<td>Team Science, Big Data Research and Finding a Job: A Primer for</td>
<td>83</td>
<td>S504</td>
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<td>Early Career Epidemiology and Outcomes Investigators (Planned by the Councils on Epidemiology and Prevention, Lifestyle and Cardiometabolic Health and Quality of Care and Outcomes Research)</td>
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<td>1:45-3:00</td>
<td>EC.06</td>
<td>My Story: A Panel Discussion on the Different Types of EP Career Options—Part II (Planned by the Council on Clinical Cardiology)</td>
<td>83</td>
<td>S501</td>
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<tr>
<td>1:00-5:00</td>
<td>EC.25</td>
<td>PVD FIT—Session 4: Carotid Artery Disease</td>
<td>83</td>
<td>S406b</td>
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<tr>
<td>2:15-3:30</td>
<td>AOS.901.01Y</td>
<td>Samuel A. Levine Young Clinical Investigator Award Finalists</td>
<td>84</td>
<td>S406a</td>
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<td>3:00-4:45</td>
<td>EC.16</td>
<td>Developing Your Niche in Cardiovascular Surgery and Anesthesia</td>
<td>84</td>
<td>S401a</td>
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<td>(Planned by the Council on Cardiovascular Surgery and Anesthesia)</td>
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<td>3:00-5:00</td>
<td>EC.10</td>
<td>The Path to a Successful Career in Cardiovascular Sciences—Part II</td>
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<td>(Planned by the Council on Basic Cardiovascular Sciences)</td>
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<tr>
<td>3:00-5:00</td>
<td>EC.12</td>
<td>How to Navigate the Omics World (Planned by the Council on</td>
<td>85</td>
<td>S404bcd</td>
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<td>Functional Genomics and Translational Biology)</td>
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<td>3:20-5:20</td>
<td>EC.26</td>
<td>PVD FIT—Session 5: Lower Extremity Peripheral Artery Disease</td>
<td>85</td>
<td>S406b</td>
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<tr>
<td>3:45-5:00</td>
<td>AOS.902.01Y</td>
<td>Laennec Young Clinician Award Finalists</td>
<td>85</td>
<td>S406a</td>
</tr>
</tbody>
</table>
Early Career

EC.21
PVD FIT—Welcome Remarks and Session 1: Steps to a Successful Career

S406b
8:00 - 9:25 AM

8:00 Welcome to AHA and the PVD Council
Michael S Conte, San Francisco, CA

8:05 Overview of a Career in Academic Vascular Medicine
Valentin Fuster, New York, NY

8:25 Conducting Clinical Research and Trials in Vascular Medicine
Mary McDermott, Chicago, IL

8:45 How to Manage Research and Clinical Practice: The Surgeon’s Perspective
Michael S Conte, San Francisco, CA

9:05 Getting Started in Clinical Investigation of Vascular Disease: How to Launch Your Academic Career
Gregory Piazza, Boston, MA

Early Career

EC.01
Early Career Opening General Session: Developing the Skills Needed to Succeed for All Disciplines Part II

S100ab
9:00 - 10:00 AM

Moderators:
Christina M Shay, Chapel Hill, NC
Jacobo Kirsch, Weston, FL

9:00 Early Career Investigators: The Key to the Success of the AHA
Elliott Antman, Boston, MA

Selling Your Science and Getting Published

9:10 Choosing a Target Journal
Roberto Bolli, Louisville, KY

10 Ways to Improve Your Scientific Writing
Robert Harrington, Stanford, CA

9:50 Q&A Discussion

Early Career

EC.22
PVD FIT—Session 2: Venous Disease

S406b
9:25 - 11:05 AM

9:25 State of the Art: Prevention and Treatment of Venous Thromboembolism
Gregory Piazza, Boston, MA

9:45 Lysis and Mechanical Thrombectomy for the Treatment of Acute Venous Thromboembolism
Sanjay Misra, Rochester, MN

10:05 Selection and Use of the Novel Anticoagulants
Matthew Rondina, Salt Lake City, UT

10:25 Evaluation and Management of the Patient with an Idiopathic Venous Thromboembolic Event
Sonia Anand, Hamilton, ON, Canada

10:45 Panel Discussion and Questions

11:05 Refreshment Break

Early Career

EC.02
Early Career Opening General Session: Developing the Skills Needed to Succeed for All Disciplines Part II

S100ab
10:00 - 11:00 AM

Moderators:
Mintu Turakhia, Palo Alto, CA
Catherine Mikus, Durham, NC

Where Are the New Career Opportunities in 2014?

10:00 Medtech, Biotech, Tech, and Venture Capital - Opportunities, Tradeoffs, and How to Make the Jump
TBD

10:15 Government and Public Health
Bechara Choucair, Chicago, IL

10:30 Nonprofit and Professional Societies
Rose Marie Robertson, Dallas, TX

10:45 Q&A Discussion
Early Career Opening General Session: Developing the Skills Needed to Succeed for All Disciplines Part III

EC.03

S100ab
11:00 AM - 12:00 noon

Moderators:
Jordan D Miller, Rochester, MN
Christopher S Lee, Portland, OR

Mentoring

11:00 Choosing a Mentor: What Goes into the Decision?
Mercedes Carnethon, Chicago, IL

11:15 Finding a Mentor Beyond Your Own Division/Department/Institution
Eric D Peterson, Durham, NC

11:30 How to Develop an Effective Mentor and Mentee Relationship
Marc Sabatine, Boston, MA

11:45 Q&A Discussion

Early Career

EC.23

PVD FIT—Session 3: Diseases of the Aorta and Major Branches

S406b
11:20 AM - 12:30 PM

11:20 Acute Aortic Syndromes—From Intramural Hematomas to Acute Aortic Dissection: Appropriate Diagnostic and Management Strategies
Patrick T O’Gara, Boston, MA

12:00 The Simplicity of CORAL: What Is the Role of Endovascular Therapy in Resistant Hypertension?
Christopher Cooper, Toledo, OH

12:20 Panel Discussion and Questions
Early Career

**EC.05**
**Considering Electrophysiology as a Specialty—Part I (Planned by the Council on Clinical Cardiology)**

**S501**
1:00 - 1:45 PM

**Moderators:**
Mintu Turakhia, Palo Alto, CA
Jonathan Dukes, San Francisco, CA

1:05 **The Job Market and Outlook for the Specialty of EP**
Eric N Prystowsky, Indianapolis, IN

David Callans, Philadelphia, PA

**Early Career**

**EC.09**
**The Path to a Successful Career in Cardiovascular Sciences—Part I (Planned by the Council on Basic Cardiovascular Sciences)**

**S503**
1:00 - 2:45 PM

**Moderators:**
Maria Kontaridis, Boston, MA
Deeptankar DeMazumder, Baltimore, MD

1:05 **K99/R00 Grants: Gain Insights into the Review Process and What Reviewers Look for**
Joseph Gary Meszaros, Rootstown, OH

1:30 **The Importance of External/Internal Services and Leadership Positions in Career Development: How to Become More Involved as an Early Career Investigator**
Burns Blaxall, Cincinnati, OH

1:55 **Becoming an Independent Faculty Member: How to Successfully Transition from the Early Career Grant to an R01**
Eric Small, Rochester, NY

2:20 **Work-Life Balance: An Impossible Luxury for Scientists Today?**
Asa Gustafsson, La Jolla, CA

**Early Career**

**EC.20**
**Joint AHA/Heart Failure Society of America Session: Career Opportunities and Program Building in Heart Failure**

**S402**
1:00 - 2:30 PM

**Moderator:**
Robb D Kociol, Boston, MA

1:00 **Clinician/Private Practice Opportunities in Heart Failure**
Donald Haas, Abington, PA

1:15 **Heart Failure/VAD/Transplant Program Building**
Mary N Walsh, Indianapolis, IN

1:30 **Clinical Research in Heart Failure: Opportunities for Early Career**
Nancy Sweitzer, Madison, AZ

1:45 **Basic Science in Heart Failure—Starting a Program in the Current Funding Environment**
Joseph A Hill, Dallas, TX

2:00 **The Future of Advanced Heart Failure: Will Mechanical Support Make Transplant Obsolete?**
Joseph G Rogers, Durham, NC

2:15 **Q&A Discussion**

**Early Career**

**EC.15**
**Career Development (Planned by the Councils on Functional Genomics and Translational Biology and Clinical Cardiology)**

**S404bcd**
1:00 - 3:00 PM

**Moderators:**
Almudena Martinez Fernandez, Rochester, MN
Sanjiv Shah, Chicago, IL

1:00 **Keynote Lecture—Taking Gene Therapy to the Clinic: A Story of Basic and Clinical Success**
Sanjiv Shah, Chicago, IL

1:30 **Applying for Funding as an Early Career Investigator**
Kiran Musunuru, Cambridge, MA

1:45 **Specific Aims/Pilot Institution Grants or K Awards Review**
David M Herrington, Winston-Salem, NC
2:00  Why Do Both Clinical and Science: Tale of a Successful Physician Scientist
Christopher Newton-Cheh, Lexington, MA

2:15  10 Things to Consider When Submitting/Reviewing a Clinical or Population Science Paper
Vasan Ramachandran, Framingham, MA

2:30  Panel Discussion (All Speakers)

---

**Early Career**

**Emerging Researchers from 3CPR Council: How to Build a Road Map for Your Career in Cardiopulmonary, Critical Care, Perioperative and Resuscitation Research (Planned by the Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation)**

S401bcd
1:00 - 3:00 PM

*Emerging Researchers from 3CPR Council: How to Build a Road Map for Your Career in Cardiopulmonary, Critical Care, Perioperative and Resuscitation Research (Planned by the Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation)*

**Moderators:**
Mark Gladwin, Pittsburgh, PA
Evangelos D Michelakis, Edmonton, AB, Canada

1:00  How to Develop a Career in Pulmonary Vascular Research
Mark Gladwin, Pittsburgh, PA

1:30  A Model of Translational Research in PAH
Sebastien Bonnet, Quebec City, QC, Canada

1:45  Defining the Role of Sex Hormones in PAH
Eric Austin, Nashville, TN

2:00  Outcomes Research in PAH
John Ryan, Salt Lake City, UT

2:15  The Role of Wnt Signaling Pathways in Pulmonary Artery Endothelial Cells
Vinicio De Jesus Perez, Stanford, CA

2:30  A Critique of Therapeutic Hypothermia in Cardiac Arrest
Sarah M Perman, Aurora, CO

2:45  Panel Discussion: Starting a Career in 3CPR Research

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**Early Career**

**Keys to Early Career Success in Pediatric Cardiology (Planned by the Council on Cardiovascular Disease in the Young)**

S404a
1:00 - 3:00 PM

*Keys to Early Career Success in Pediatric Cardiology (Planned by the Council on Cardiovascular Disease in the Young)*

**Moderators:**
Shelley D Miyamoto, Aurora, CO
Usha Krishnan, New York, NY

1:00  How Emerging Technologies Will Impact Patient Care and Your Career
Peter Laussen, Toronto, ON, Canada

1:25  Challenges in the Fellow-to-Faculty Transition
Sonali Patel, Aurora, CO

1:50  Update on the Pediatric Heart Network and How to Get Involved
Kristin M Burns, Bethesda, MD

2:15  Unfunded Protected Time: The Right Amount and Making It Count
Angela Sharkey, St Louis, MO

2:40  Strategies for Building the Foundations of a Successful Early Career
Elizabeth Blume, Boston, MA

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**Early Career**

**Imaging Boot Camp (Planned by the Council on Cardiovascular Radiology and Intervention)**

S505
1:00 - 5:00 PM

*Imaging Boot Camp (Planned by the Council on Cardiovascular Radiology and Intervention)*

**Moderator:**
Harold Litt, Philadelphia, PA

1:00  Is the Latest Technology for Cardiac CT Help or Hype?
Harold Litt, Philadelphia, PA

1:30  What’s New in CMR (and PET-MR)?
Pamela Woodard, St Louis, MO

2:00  Introduction to Molecular Imaging
Kooresh Shoghi, St Louis, MO

2:30  Intermission

2:45  Training Guidelines for Cardiac Imaging
Harold Litt, Philadelphia, PA

3:00  Cardiac CT Cases with ARS
Amar Shah, Valhalla, NY

3:40  Cardiac MR Cases with ARS
Jacobo Kirsch, Weston, FL

4:20  Cardiac PET/SPECT Cases with ARS
Sharmila Dorbala, Boston, MA
EC.13

Interventional Cardiology

S403  
1:00 - 5:00 PM

Moderators:
Robert Yeh, Boston, MA  
Duane Pinto, Boston, MA  
Christopher White, New Orleans, LA

1:00  Introduction  
Duane Pinto, Boston, MA

Session 1: Catheterization Lab Basics

1:10  Arterial Access  
Douglas Drachman, Boston, MA

1:25  Adjuncts to Angiography  
William Fearon, Stanford, CA

1:40  Hemodynamics  
Yerem Yeghiazarians, San Francisco, CA

1:55  Drugs in the Cath Lab  
Prashant Kaul, Durham, NC

2:10  Case Presentation: Nightmare in the Cath Lab  
Neil Wimmer, Boston, MA

2:25  Intermission

Session 2: Complex Coronary Disease

2:35  Bifurcation PCI  
Thierry Lefevre, Massy, France

2:50  Left Main PCI  
Michael Lee, Los Angeles, CA

3:05  Chronic Total Occlusion  
Stephane Rinfret, Quebec City, QC, Canada

3:20  Management of Stent Thrombosis  
Donald E Cutlip, Boston, MA

3:35  Case Presentation: Complex Coronary or Structural Heart Case  
Peter P Monteleone, Boston, MA

3:50  Intermission

Session 3: Advanced Peripheral and Structural Disease

4:00  Difficult Stent Delivery  
Aruna Nhanjundappa, Charleston, WV

4:15  Basics of Aortic Valvuloplasty  
Ignacio Inglessis, Boston, MA

4:30  Preprocedural TAVR Evaluation and Planning  
Duane Pinto, Boston, MA

4:45  Case Presentation: Complex Coronary or Peripheral Vascular Case  
Hashim Gazi, Boston, MA

EC.08

Keys to Success in Contemporary Nursing Science (Planned by the Council on Cardiovascular and Stroke Nursing)

S502  
1:00 - 5:00 PM

Moderators:
Barbara J Drew, San Francisco, CA  
Kristin Sandau, Saint Paul, MN

1:10  Part I: NINR Early Career Models of Success  
Karen Huss, Bethesda, MD

1:30  Part II: NINR Early Career Models of Success  
Mary Carey, Rochester, NY

1:50  Part II: NINR Early Career Models of Success  
Karen Winters, Jackson, MS

2:10  Q&A Discussion

2:20  Part I: AHA Early Career Models of Success  
Mary Woo, Los Angeles, CA

2:40  Part I: AHA Early Career Models of Success  
Christopher S Lee, Portland, OR

3:00  Q&A Discussion

3:05  Intermission

3:30  Conducting Research with Less  
Corrine Jurgens, Stony Brook, NY

4:00  Successful Approaches to Qualitative Research in Cardiovascular Disease  
Victoria Dickson, New York, NY

4:30  Keys to Early Career Success: Kathleen A. Dracup Lecture and Award Presentation  
Barbara J Drew, San Francisco, CA
Early Career

Team Science, Big Data Research and Finding a Job: A Primer for Early Career Epidemiology and Outcomes Investigators (Planned by the Councils on Epidemiology and Prevention, Lifestyle and Cardiometabolic Health and Quality of Care and Outcomes Research)

SS04
1:00 - 5:00 PM

Moderators:
Norrina B Allen, Chicago, IL
Steven M Bradley, Denver, CO

EPI/Lifestyle/QCOR: What Do These Councils Do?
1:00 Epidemiology and Prevention
David C Goff Jr., Aurora, CO

1:05 Lifestyle and Cardiometabolic Health
Deborah R Young, Pasadena, CA

1:10 Quality of Care and Outcomes Research
Eric D Peterson, Durham, NC

1:15 Discussion
1:20 Team Science: What It Means and How It Can Help You Succeed
Bonnie Spring, Chicago, IL

1:35 Partnerships that Advance Learning, Development and Science
TBD

1:50 Creating International Collaborations
Gerald Bloomfield, Durham, NC

2:05 Opportunities for Big Data Research: AHA and the IOM Continuous Learning from Routinely Collected Data Report
Robert Harrington, Stanford, CA

2:20 NIH Commitment to Supporting Big Data to Knowledge: National Priorities and Opportunities for Cardiovascular Researchers
Jennie Larkin, Bethesda, MD

2:35 PCORI’s Big Idea for Big Data: Opportunities for Comparative Effectiveness Research
Lesley H Curtis, Durham, NC

2:50 Q&A Discussion
3:10 Intermission
3:25 The Job Application Process: Tips For Finding and Applying for Job Openings That Are Right For You
Lekki Wood, Houston, TX

3:40 Hard Money or Soft Money: Which Type of Position Is Right for You?
Stephanie Chiuve, Boston, MA

3:55 You Have Been Contacted for an Interview! Now What Happens?
Cheryl Anderson, San Diego, CA

4:10 Negotiate! Negotiate! Negotiate! Tips from the Experts on Negotiating the Terms of Your Job Offer
TBD

4:30 Q&A Discussion

Early Career

My Story: A Panel Discussion on the Different Types of EP Career Options—Part II (Planned by the Council on Clinical Cardiology)

S501
1:45 - 3:00 PM

Moderators:
Mintu Turakhia, Palo Alto, CA
Jonathan Dukes, San Francisco, CA

1:45 Introduction
1:50 An Overview of the Different Academic Career Paths in EP and What you Need to Do Now to Be Prepared
Alan Cheng, Baltimore, MD

1:55 Clinical Trials and Outcomes Research
Douglas L Packer, Rochester, MN

2:00 Translational Research and Working at a VA Mintu Turakhia, Palo Alto, CA

2:05 Epidemiology and Observational Studies: Early Career Prospective
Kristen Patton, Seattle, WA

2:10 Leaving the Ivory Tower for the Real World: The Private Practice of EP
Eric N Prystowsky, Indianapolis, IN

2:15 Panel Discussion

Early Career

PVD FIT—Session 4: Carotid Artery Disease

S406b
1:45 - 3:00 PM

Asymptomatic Carotid Stenosis: Risk of Stroke, Medical Therapy, Appropriate Trial End Points
Joshua A Beckman, Boston, MA

2:45 Panel Discussion and Questions
3:00 Refreshment Break
**Abstract Oral Session**

**AOS.901.01Y**

**Samuel A. Levine Young Clinical Investigator Award Finalists**

**S406a**

2:15 - 3:30 PM

Moderators:
Richard Page, Madison, WI
Ilenea L Piña, Bronx, NY

2:15 **PCSK9 is Elevated in HIV+ Patients**
Payal Kohli, Univ of California San Francisco, San Francisco, CA
Priscilla Hsue, Univ of California San Francisco/ SFGH, San Francisco, CA

2:25 Q&A Discussion

2:30 **Incremental Prognostic Utility of Brain Natriuretic Peptide and Left Ventricular Global Longitudinal Strain in Patients with Significant Aortic Stenosis**
Andrew Goodman, Cleveland Clinic Fndn, Cleveland, OH
Milind Y Desai, Cleveland Clinic Fndn, Cleveland, OH

2:40 Q&A Discussion

2:45 **Exercise Magnetic Resonance Imaging to Identify Impaired Pulmonary Vascular and Right Ventricular Reserve in Patients With Normalized Resting Hemodynamics After Pulmonary Endarterectomy**
Guido Claessen, Univ Hosp Leuven, Leuven, Belgium
Hein Heidbuchel, Univ Hosp Leuven, Leuven, Belgium

2:55 Q&A Discussion

3:00 **Increasing Complexity and Distribution of Drivers with Prolonged Duration Human Persistent Atrial Fibrillation: Implications for Therapeutic Intervention**
Han S Lim, Hôpital Cardiologique du Haut-Lévêque, Bordeaux-Pessac, France
Michel Haissaguerre, Hôpital Cardiologique du Haut-Lévêque, Bordeaux-Pessac, France

3:10 Q&A Discussion

3:15 **Quantifying the Years of Life Gained From Myocardial Infarction Admission Process-of-Care Measures**
Emily M Bucholz, Yale Univ Schs of Med and Public Health, New Haven, CT
Harlan M Krumholz, Yale-New Haven Hosp and Yale Schs of Med and Public Health, New Haven, CT

3:25 Q&A Discussion

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**Early Career**

**EC.16**

**Developing Your Niche in Cardiovascular Surgery and Anesthesia (Planned by the Council on Cardiovascular Surgery and Anesthesia)**

**S401a**

3:00 - 4:45 PM

Moderators:
Frank Sellke, Providence, RI
Jennifer Lawton, St Louis, MO

3:00 **What Do Good Mentors Do and How Do You Find One?**
Robert A Guyton, Atlanta, GA

3:15 **Basic Science Research: Collaborations with PhDs and/or Protected Time**
Jennifer Lawton, St Louis, MO

3:30 **Clinical Trials Research**
Vinod H Thourani, Atlanta, GA

3:45 **New Technology Development: Industry Collaboration or Start-Ups**
J Michael DiMaio, Dallas, TX

4:00 **Education and Teaching Portfolio: Simulations**
TBD

4:15 **Debate: Starting Faculty Should Spend Their Time in the Operating Room**
Duke Cameron, Baltimore, MD

4:20 **Debate: Starting Faculty Should Have Protected Time for Research**
Marc Ruel, Ottawa, ON, Canada

4:25 Panel Discussion

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**Early Career**

**EC.10**

**The Path to a Successful Career in Cardiovascular Sciences—Part II (Planned by the Council on Basic Cardiovascular Sciences)**

**S503**

3:00 - 4:45 PM

Moderators:
Reza Ardehali, Los Angeles, CA
Sakthivel Sadayappan, Maywood, IL

3:00 **Applying for the R01: How to Put a Winning Proposal Together**
Elizabet Murphy, Bethesda, MD

3:30 **Beyond the Bench: How to Market Yourself and Your Science**
Mark A Sussman, San Diego, CA
### Early Career

**EC.12**

**How to Navigate the Omics World (Planned by the Council on Functional Genomics and Translational Biology)**

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<th>Title</th>
<th>Speaker/Location</th>
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<tbody>
<tr>
<td>S404bcd</td>
<td>How to Navigate the Omics World (Planned by the Council on Functional Genomics and Translational Biology)</td>
<td>Anna Pilbrow, Christchurch, New Zealand; Jennifer L Hall, Minneapolis, MN</td>
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<td><strong>Moderators:</strong></td>
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<td>3:00</td>
<td>FGTB Mentoring Award</td>
<td>Andre Terzic, Rochester, MN</td>
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<td>3:30</td>
<td>What’s on the Horizon for Cardiovascular Proteomics</td>
<td>Jennifer Van Eyk, Los Angeles, CA</td>
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<td>3:45</td>
<td>How to Use ENCODE in Your Genomics Research: Haploreg and Regulome DB</td>
<td>John Stamatoyannopoulos, Seattle, WA; Rajat Gupta, Boston, MA</td>
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<td>4:00</td>
<td>Overview of High Throughput Sequencing Technologies</td>
<td>Andreas Barth, Baltimore, MD</td>
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<td>4:15</td>
<td>Integrating Multiple “Omic Resources”</td>
<td>Bruce M McManus, Vancouver, BC, Canada</td>
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<tr>
<td>4:30</td>
<td>CRISPRs and TALENs: How to Use Genome-Editing Technology in Your Research</td>
<td>Rajat Gupta, Boston, MA</td>
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<td>4:45</td>
<td>How to Use iPS Cells in Your Genomics Research</td>
<td>Paul Burridge, Stanford, CA</td>
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### Early Career

**EC.07**

**Early Career EP Clinical Session—Part III (Planned by the Council on Clinical Cardiology)**

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<td>S501</td>
<td>Early Career EP Clinical Session—Part III (Planned by the Council on Clinical Cardiology)</td>
<td>Sanjiv M Narayan, Palo Alto, CA; Eric N Prystowsky, Indianapolis, IN</td>
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<td><strong>Moderators:</strong></td>
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<td>3:15</td>
<td>Introduction</td>
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<td>3:20</td>
<td>The Fundamentals of Entrainment Mapping</td>
<td>Francis Marchilinski, Philadelphia, PA</td>
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### Early Career

**EC.26**

**PVD FIT—Session 5: Lower Extremity Peripheral Artery Disease**

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<td>3:00</td>
<td>PAD Diagnostic Strategies</td>
<td>Heather Gornik, Cleveland, OH</td>
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<td>3:40</td>
<td>PAD in Women</td>
<td>Amy West Pollak, Rochester, MN</td>
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<td>4:00</td>
<td>Claudication: Exercise, Medications and Guideline-Based Care</td>
<td>William Hiatt, Aurora, CO</td>
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<td>4:40</td>
<td>Current Diagnosis and Treatment of Critical Limb Ischemia</td>
<td>Matthew Menard, Boston, MA</td>
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### Abstract Oral Session

**AOS.902.01Y**

**Laennec Young Clinician Award Finalists**

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<td>3:45</td>
<td>Premature Closure in Need of Percutaneous Closure: An Elusive Case of Recurrent Liver Failure</td>
<td>Sadiya S Khan, Northwestern Univ Feinberg Sch of Med, Chicago, IL; Sanjiv J Shah, Northwestern Univ Feinberg Sch of Med, Chicago, IL</td>
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<td>3:55</td>
<td>Q&amp;A Discussion</td>
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4:00  **A 34-year-old Man With Debilitating Polyneuropathy, Pericardial Effusion and Monoclonal Gammapathy Presents With Right Heart Failure**
*Kenta Nakamura, Massachusetts General Hosp, Boston, MA  
Jordan T Shin, Massachusetts General Hosp, Boston, MA*  

4:10  **Q&A Discussion**

4:15  **Back to Basics: Diagnosing a Hidden Cause of High-Output Cardiac Failure**
*Natalia C. Berry, Brigham and Women’s Hosp, Brookline, MA  
Joshua Beckman, Brigham and Women’s Hosp, Brookline, MA*  

4:25  **Q&A Discussion**

4:30  **Bilateral Phlegmasia Cerulea Dolens: More Than Meets the IVC**
*Thomas Metkus, Johns Hopkins Hosp, Baltimore, MD  
Zahra Maleki, Johns Hopkins Hosp, Baltimore, MD*  

4:40  **Q&A Discussion**

4:45  **A Baffling Heart: a 30 Year-old Man with Biventricular Heart Failure and Severe Pulmonary Hypertension**
*Lucas S Zier, Univ of California San Francisco, San Francisco, CA  
Elyse Foster, Univ of California San Francisco, San Francisco, CA*  

4:55  **Q&A Discussion**
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February 10, 2015
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March 3–6, 2015
Baltimore Marriott Waterfront, Baltimore, MD

Quality of Care and Outcomes Research
2015 Scientific Sessions
April 29–May 1, 2015
Hilton Baltimore, Baltimore, MD

Arteriosclerosis, Thrombosis and Vascular Biology
2015 Scientific Sessions
May 7–9, 2015
Hilton San Francisco Union Square, San Francisco, CA

Basic Cardiovascular Sciences 2015 Scientific Sessions
July 13–16, 2015
Hilton New Orleans Riverside, New Orleans, LA

Hypertension 2015 Scientific Sessions
September 16–19, 2015
Omni Shoreham, Washington, DC

Scientific Sessions 2015
November 7–11, 2015
Resuscitation Science Symposium
November 7–8, 2015
Cardiovascular Clinical Nursing Symposium
November 10–11, 2015
Orange County Convention Center, Orlando, FL
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- Key updates of previously presented trials
- Late-breaking science, new analyses or substudies
- Major bench-to-bedside breakthroughs

**Benefits of Accepted Submissions:**
- Publication of the abstract in Circulation, an American Heart Association journal.
- Fast-track review of a manuscript for an AHA journal (fast-track review does not guarantee publication in a journal).
- If there are new data, the Emerging Science Series Late-Breaking Clinical Trials will have a guaranteed presentation time in a Clinical Trial Update Session at Scientific Sessions.
- Accepted submissions will potentially receive full AHA/ASA news media/news conference coverage.

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scientificsessions.org/emergingscience
The BCVS 2015 Scientific Sessions is the premier cardiovascular research meeting in the world. The conference attracts leading researchers in fields such as microRNAs, cardiac gene and cell therapy, cardiac development and most recently tissue engineering and iPS cells. The program will be of special interest to basic cardiovascular scientists, molecular/cellular biologists, physiologists, translational investigators, clinical trialists, practicing cardiologists, cardiovascular nurses and pharmacists. In addition, the symposium will be of great value to scientists and executives of pharmaceutical companies and biotechnology firms who are in the cardiovascular space.
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<td>Sunday, Nov. 16</td>
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<td>Ethics and Governance of Big Data Collections for Research and Clinical Care</td>
<td>Monday, Nov. 17</td>
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<td>Harnessing Big Data for Precision and Personalized Medicine</td>
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<td>Harnessing Big Data for Fundamental Discovery of Novel Targets and Mechanistic Insight</td>
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<td>Lifecycle of Big Data – Origins, Applications and Opportunities</td>
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</tbody>
</table>

Sort or search the program content any way you would like by going to the Mobile Meeting Guide (designed for all major platforms) or the Program and Itinerary Planner.

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
Sunday Morning Program

SMP.603
A Step-by-Step, How to Do It Course on Advanced Cardiac Surgical Techniques

N227b
8:00 - 11:00 AM

Moderators:
Marc Ruel, Ottawa, ON, Canada
Y Joseph Woo, Stanford, CA

8:00
How to Plan and Perform Aortic Valve Repair
Gebrine El Khoury, Brussels, Belgium

8:25
From the Source: Learn the David Operation
Tirone David, Toronto, ON, Canada

8:50
Simple Approaches and Tricks to Complex Aortic Surgery
Gosta Pettersson, Cleveland, OH

9:15
Intermission

9:45
Dealing with LVAD Thrombosis and Preserving Outcomes: When and How to Operate?
O Howard Frazier, Houston, TX

10:10
A Step-by-Step Approach to Minimally Invasive CABG
Joseph McGinn, Staten Island, NY

10:35
Tools and Tricks for Nonrobotic, Minimally Invasive Aortic and Mitral Valve Surgery
Mahesh Ramchandani, Houston, TX

Sunday Morning Program

SMP.303
Advanced Heart Failure Management Strategies in Pediatric and Congenital Heart Disease

S102bc
8:00 - 11:00 AM

Moderators:
Yuk M Law, Seattle, WA
Victor Morell, Pittsburgh, PA

8:00
Legal and Ethical Implications of Palliative Care Decisions in Pediatric Heart Failure
Daniel Bernstein, Palo Alto, CA

8:22
Salient Issues and Differences in Cardiomyopathy Versus Congenital Heart Disease and Children Versus Adults
Janet S Scheel, Washington, DC

8:44
Why Cardiac Resynchronization Therapy Indications Differ in Pediatrics and CHD Versus Standard Adult CRT Guidelines
Anne Dubin, Palo Alto, CA

9:06
Intermission

Sunday Morning Program

SMP.705
Advances in Understanding the Major Cardiovascular Effects of HIV

S104
8:00 - 11:00 AM

Moderators:
Matthew Freiberg, Pittsburgh, PA
Priscilla Hsue, San Francisco, CA

8:00
HIV Infection: A Model for Innate and Adaptive Immunity and CVD Risk
Russell P Tracy, Burlington, VT

8:20
HIV Is Not Necessarily a Chronic Disease: HIV and the Risk of Sudden Cardiac Death
Zian Tseng, San Francisco, CA

8:40
HIV and Structural Heart Disease: What We Can Learn from Children
Tracie Miller, Miami, FL

9:00
Predicting CVD Risk in the HIV Population
Ralph D’Agostino, Boston, MA

9:20
Intermission

9:40
Prevention and Treatment of CVD for HIV-Infected People: What Guidelines Do We Use and Why
Wendy Post, Baltimore, MD

10:00
Does Quality of Care Contribute to the Excess Risk of CVD Among HIV-Positive People?
Matthew Freiberg, Pittsburgh, PA

10:20
Recent Advances in HIV-Associated Cardiovascular Diseases in Africa
Faisal Syed, Rochester, MN

10:40
The NHLBI AIDS Program - Stimulating Research in HIV-Related Cardiovascular Disease
Monica Shah, Bethesda, MD
Renee Wong, Bethesda, MD
### Sunday Morning Program

#### SMP.702

**Aging and Cardiovascular Disease: Mechanisms, Functional Consequences and Potential Therapeutics for Cellular Senescence**

- **Moderators:**
  - Issei Komuro, Tokyo, Japan
  - Martin Bennett, Cambridge, United Kingdom

- **8:00**
  - Aging and Cardiac Hypertrophy: Role of Serum Biomarkers
    - Hesham Sadek, Dallas, TX

- **8:23**
  - Role of MicroRNA During Cardiac Aging and Function
    - Stefanie Dimmelener, Frankfurt, Germany

- **8:46**
  - DNA Damage and Aging: Focus on Mitochondria
    - TBD

- **9:09**
  - Intracellular Signaling and Cardiac Aging
    - Karen Ocorr, La Jolla, CA

- **9:32**
  - Intermission

- **9:51**
  - Telomeres Dysfunction and Aging in Postmitotic Cells
    - Ergun Sahin, Houston, TX

- **10:14**
  - Epigenetics and Myocardial Aging
    - Gianluigi Condorelli, Rozzano, Milan, Italy

- **10:37**
  - Is HFpEF Accelerated Presbycardia?
    - Benjamin D Levine, Dallas, TX

#### SMP.703

**ATVB Journal Session: Ectopic and Perivascular Fat—Basic Mechanisms and Clinical Consequences**

- **Moderators:**
  - Ann Marie Schmidt, New York, NY
  - Neal L Weintraub, Augusta, GA

- **8:00**
  - Proinflammatory Phenotype of Perivascular Adipocytes
    - Neal Weintraub, Augusta, GA

- **8:25**
  - Mechanisms of Perivascular Function in Vascular Disease
    - Anthony Heagerty, Manchester, United Kingdom

- **8:50**
  - Perivascular Adipose Tissue and Coronary Arterial Disease
    - Jonathan D Tune, Indianapolis, IN

- **9:15**
  - Intermission

#### SMP.403

**Autonomic Nervous System Modulation for Management of Heart Failure and Arrhythmias**

- **Moderators:**
  - E Kevin Heist, Boston, MA
  - Theofanie Mela, Boston, MA

- **8:00**
  - The Cardiac Autonomic Nervous System: A Primer
    - Samuel Asirvatham, Rochester, MN

- **8:25**
  - Renal Denervation, Hypertension and Heart Failure
    - Michael Bohm, Homburg, Germany

- **8:50**
  - Renal Denervation and Atrial Fibrillation
    - Vivek Reddy, New York, NY

- **9:15**
  - Intermission

- **9:45**
  - Autonomic Function and the ICD Patient
    - Jagmeet P Singh, Boston, MA

- **10:10**
  - Vagal Nerve Stimulation, Heart Failure and Reverse Remodeling
    - Hani Sabbah, Detroit, MI

- **10:35**
  - Spinal Cord Stimulation and Heart Failure: Where Do We Stand?
    - Douglas P Zipes, Indianapolis, IN
**Sunday Morning Program**

### SMP.101 Breakthroughs and Controversies in Cardiovascular Imaging

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td><strong>Breakthrough: CT-FFR</strong></td>
<td>James K Min, New York, NY</td>
</tr>
<tr>
<td>8:13</td>
<td><strong>Controversy: Perfusion and Ischemic Burden Impact Outcomes</strong></td>
<td>Judith Hochman, New York, NY</td>
</tr>
<tr>
<td>8:26</td>
<td><strong>Q&amp;A Discussion</strong></td>
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<tr>
<td>8:36</td>
<td><strong>Breakthrough: Imaging Myocardial Fibrosis</strong></td>
<td>Christopher Kramer, Charlottesville, VA</td>
</tr>
<tr>
<td>8:49</td>
<td><strong>Controversy: Is Fibrosis the Be-All and End-All?</strong></td>
<td>Jagat Narula, New York, NY</td>
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<tr>
<td>9:02</td>
<td><strong>Q&amp;A Discussion</strong></td>
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<tr>
<td>9:12</td>
<td><strong>Breakthrough: Imaging Chemotherapy Cardiotoxicity</strong></td>
<td>Gregory Hundley, Winston-Salem, NC</td>
</tr>
<tr>
<td>9:25</td>
<td><strong>Controversy: Little Space Between the Rock and the Hard Place</strong></td>
<td>Tom Marwick, Hobart, Australia</td>
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<tr>
<td>9:38</td>
<td><strong>Q&amp;A Discussion</strong></td>
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<tr>
<td>9:48</td>
<td><strong>Breakthrough: Viability—No Need to Image, No Need to Operate</strong></td>
<td>Bernard J Gersh, Rochester, MN</td>
</tr>
<tr>
<td>10:01</td>
<td><strong>Controversy: Viability—If You Look, You May Want to Leap</strong></td>
<td>Vasken Dilisizian, Baltimore, MD</td>
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<tr>
<td>10:14</td>
<td><strong>Q&amp;A Discussion</strong></td>
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<tr>
<td>10:24</td>
<td><strong>Breakthrough: Imaging Regenerative Therapy</strong></td>
<td>Farouc Jaffer, Boston, MA</td>
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<tr>
<td>10:37</td>
<td><strong>Controversy: Science Fiction or Fact</strong></td>
<td>Joseph C Wu, Stanford, CA</td>
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<tr>
<td>10:50</td>
<td><strong>Q&amp;A Discussion</strong></td>
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### SMP.505 Cardiac Recovery: Lessons Learned and Guidance for Future Steps

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<td>Judith Hochman, New York, NY</td>
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<td><strong>Q&amp;A Discussion</strong></td>
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<tr>
<td>8:22</td>
<td><strong>Cardiomyocyte Recovery Following Mechanical Unloading</strong></td>
<td>Cesare Terracciano, London, United Kingdom</td>
</tr>
<tr>
<td>9:54</td>
<td><strong>Evidence Underlying Short-Term Mechanical Unloading of the Heart and Myocardial Recovery</strong></td>
<td>TBD</td>
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<tr>
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<td><strong>Evidence Underlying Long-Term Mechanical Unloading of the Heart and Myocardial Recovery</strong></td>
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### SMP.503 Cardiometabolic Signaling in and Around the Heart

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**Sunday, November 16 • Chicago, Illinois**
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<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>8:40</td>
<td>Neutral and Otherwise Biased Lipids in the Heart: Who's Being Toxic?</td>
<td>Ira Goldberg, New York, NY</td>
</tr>
<tr>
<td>9:00</td>
<td>Lipid Droplets and Mitochondrial Structure/Function</td>
<td>Carole Sztalryd, Baltimore, MD</td>
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<tr>
<td>9:20</td>
<td>Intermission</td>
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<tr>
<td>9:40</td>
<td>Heart-Adipose Connection: Chemical Crosstalk in the Whole Body</td>
<td>Sheila Collins, Orlando, FL</td>
</tr>
<tr>
<td>10:00</td>
<td>Lipid Signaling, Mitochondrial Function and Remodeled Bodies</td>
<td>E Lewandowski, Chicago, IL</td>
</tr>
<tr>
<td>10:20</td>
<td>Myocardial Lipid Dynamics in Humans: Superimposing Gender onto Pathologic and Metabolic Stresses?</td>
<td>Robert Gropler, St Louis, MO</td>
</tr>
<tr>
<td>10:40</td>
<td>When and Why Should the Heart Resist Insulin?</td>
<td>Heinrich Taegtmeyer, Houston, TX</td>
</tr>
</tbody>
</table>

### Sunday Morning Program

**SMP.302**

**Cases and Debates in Complex Percutaneous Coronary Interventions**

**N228**

**Sunday Morning Program**

**SMP.601**

**Cardiopulmonary Resuscitation in Infants and Children with CHD: New Guidelines and Opportunities**

**S102d**

**Sunday AM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>How to Prevent the Need for In-Hospital Resuscitation</td>
<td>Ricardo A Samson, Tucson, AZ</td>
</tr>
<tr>
<td>8:22</td>
<td>Resuscitation of the Single-Ventricle Patient</td>
<td>Nancy Ghanayem, Milwaukee, WI</td>
</tr>
<tr>
<td>8:44</td>
<td>Resuscitation of the Patient with Pulmonary Hypertension</td>
<td>Ian Adatia, Edmonton, AB, Canada</td>
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<tr>
<td>9:06</td>
<td>Intermission</td>
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</tr>
<tr>
<td>9:32</td>
<td>Resuscitation Using ECPR or Non-ECMO Mechanical Support</td>
<td>Ravi Thiagarajan, Boston, MA</td>
</tr>
<tr>
<td>9:54</td>
<td>Resuscitations Will Occur: How to Make Resuscitation More Reliable and Improve Outcomes</td>
<td>Catherine K Allan, Boston, MA</td>
</tr>
<tr>
<td>10:16</td>
<td>New Horizons in Resuscitation</td>
<td>Bradley S Marino, Chicago, IL</td>
</tr>
<tr>
<td>10:38</td>
<td>Which Patients with CHD Are at Risk for Out-of-Hospital Cardiac Arrest?</td>
<td>Mark Alexander, Boston, MA</td>
</tr>
<tr>
<td>8:00</td>
<td>Case Presentation: Submassive PE</td>
<td>Brian Potter, Boston, MA</td>
</tr>
<tr>
<td>8:05</td>
<td>Acute Management of Submassive Pulmonary Embolus Should Involve Catheter-Based Thrombectomy over Systemic Fibrinolysis or Anticoagulation Alone</td>
<td>Kenneth Rosenfield, Boston, MA</td>
</tr>
<tr>
<td>8:20</td>
<td>Acute Management of Submassive Pulmonary Embolus Should Involve Systemic Thrombolysis or Anticoagulation over Catheter-Based Thrombectomy</td>
<td>Gregory Piazza, Boston, MA</td>
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<tr>
<td>8:35</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>8:45</td>
<td>Case Presentation: STEMI with Shock</td>
<td>Beau Hawkins, Oklahoma City, OK</td>
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<tr>
<td>8:50</td>
<td>There Is No “Support” for Hemodynamic Support in STEMI with Shock</td>
<td>Holger Thiele, Leipzig, Germany</td>
</tr>
<tr>
<td>9:05</td>
<td>There Is a Role for Hemodynamic Support in STEMI with Shock</td>
<td>Navin Kapur, Boston, MA</td>
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<tr>
<td>9:20</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>9:30</td>
<td>Case Presentation: Asymptomatic MR with Preserved LVEF</td>
<td>Meagan Wafsy, Boston, MA</td>
</tr>
<tr>
<td>9:35</td>
<td>Surgical Repair in Asymptomatic “Severe” Degenerative Mitral Regurgitation Is Preferred</td>
<td>Thierry Mesana, Ottawa, ON, Canada</td>
</tr>
<tr>
<td>9:50</td>
<td>Watchful Waiting in Asymptomatic “Severe” Degenerative Mitral Regurgitation Is Preferred</td>
<td>Linda D Gillam, Morristown, NJ</td>
</tr>
<tr>
<td>10:05</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>10:15</td>
<td>Case Presentation: Case of Critical LM Disease with Low Syntax Score</td>
<td>Suzanne Baron, Boston, MA</td>
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<tr>
<td>10:25</td>
<td>Left Main PCI over CABG Is Preferred with Low Syntax Score</td>
<td>Dukwook Park, Seoul, Republic of Korea</td>
</tr>
<tr>
<td>10:35</td>
<td>Low SYNTAX Score LMCA Disease Should Be Treated with CABG</td>
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<tr>
<td>10:50</td>
<td>Q&amp;A Discussion</td>
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</table>

**Panel Participants**

- Sahil Parikh, Cleveland, OH
- Duane Pinto, Boston, MA
- Adhir Shroff, Chicago, IL
### Sunday Morning Program

**SMP.404**

**Catheter Ablation for Atrial Fibrillation: From Pathophysiology to Practice**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Moderators</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Mechanisms of Atrial Fibrillation</td>
<td>Douglas L Packer, Rochester, MN</td>
</tr>
<tr>
<td>8:25</td>
<td>What Has Pulmonary Vein Isolation Taught Us About Atrial Fibrillation?</td>
<td>Jose Jalife, Ann Arbor, MI</td>
</tr>
<tr>
<td>8:50</td>
<td>Ablation of Persistent Atrial Fibrillation: Lines, Rotors, CFAE?</td>
<td>Stephan Willems, Hamburg, Germany</td>
</tr>
<tr>
<td>9:15</td>
<td>Intermission</td>
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<tr>
<td>9:45</td>
<td>Obstacles to Effective Ablation</td>
<td>Gregory Michaud, Boston, MA</td>
</tr>
<tr>
<td>10:35</td>
<td>Recurrence, Burden, Quality of Life or Mortality: How Should We Measure Effectiveness?</td>
<td>Douglas L Packer, Rochester, MN</td>
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</tbody>
</table>

**SMP.401**

**Cell-Cell Coupling: Can We Translate Science into Therapy?**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Designer Gap Junctions</td>
<td>Gregory Morley, New York, NY</td>
</tr>
<tr>
<td>8:25</td>
<td>Targeting the mTOR Pathway to Improve Cx43 Trafficking</td>
<td>Robin M Shaw, Los Angeles, CA</td>
</tr>
<tr>
<td>8:50</td>
<td>Cx43 C-Terminal Domain to Reduce Infarct Size and Arrhythmogenesis</td>
<td>Mario Delmar, New York, NY</td>
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<tr>
<td>9:15</td>
<td>Intermission</td>
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<tr>
<td>9:45</td>
<td>Peptide Mimetics to Reduce Gap Junction Remodeling</td>
<td>Robert G Gourdie, Roanoke, VA</td>
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<tr>
<td>10:10</td>
<td>Mena as a Target for Cx43 Remodeling</td>
<td>Burns Blaxall, Cincinnati, OH</td>
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### Sunday Morning Program

**SMP.201**

**Clinical Lipidology Update**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Moderators</th>
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</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Debate: Best Lipid Therapy for CVD Prevention Is Statin Monotherapy (Targets Not Needed)</td>
<td>Jennifer G Robinson, Iowa City, IA</td>
</tr>
<tr>
<td>8:22</td>
<td>Debate: Best Lipid Therapy for CVD Prevention Is Titration to Cholesterol Targets (Lower Is Better)</td>
<td>W Virgil Brown, Atlanta, GA</td>
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<tr>
<td>8:44</td>
<td>Statin Myopathy: State of the Art</td>
<td>Paul Thompson, Hartford, CT</td>
</tr>
<tr>
<td>9:06</td>
<td>Intermission</td>
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</tr>
<tr>
<td>9:32</td>
<td>Statin &quot;Head Games&quot;: Do Statins Worsen Cognition and Increase Cataracts and Hemorrhagic Stroke? If So, So What?</td>
<td>Seth S Martin, Baltimore, MD</td>
</tr>
<tr>
<td>9:54</td>
<td>Statins and Dysglycemia: How Big a Deal?</td>
<td>Kausik Ray, London, United Kingdom</td>
</tr>
<tr>
<td>10:16</td>
<td>CAC as a Potential &quot;Game Changer&quot; in Primary Prevention: What's the Latest?</td>
<td>Michael Blaha, Baltimore, MD</td>
</tr>
<tr>
<td>10:38</td>
<td>CVD Risk Assessment in Primary Prevention: “Go Figure!”</td>
<td>Neil J Stone, Chicago, IL</td>
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### Sunday Morning Program

**SMP.602**

**Controversies in Prevention of Carotid Artery Stroke**

<table>
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<tbody>
<tr>
<td>8:00</td>
<td>Current Medical Management for Carotid Artery Disease</td>
<td>Joshua A Beckman, Boston, MA</td>
</tr>
<tr>
<td>8:22</td>
<td>Novel Imaging Modalities for the Diagnosis of Carotid Artery Disease</td>
<td>Chun Yuan, Seattle, WA</td>
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</tbody>
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10:35  c-Src Kinase Inhibition Reduces Arrhythmia Inducibility and Connexin43 Dysregulation

Samuel Dudley, Providence, RI
Sunday Morning Program

SMP.203
Dietary and Lifestyle Behaviors in Cardiovascular Prevention: Beyond Statins

SS01 8:00 - 11:00 AM
Moderators:
Frank Sacks, Boston, MA
Penny Kris-Etherton, University Park, PA
8:00 Traditional Low-Fat Diets for Weight Management
Frank Sacks, Boston, MA
8:22 High-Fat Diets for Weight Management
William S Yancy Jr., Durham, NC
8:44 One Size Does Not Fit All: Effect of Cardiovascular Risk Profile in Response to Diet Composition
Christopher D Gardner, Stanford, CA
9:06 Intermission
9:32 What Is the Evidence Base for Physical Activity and Cardiovascular Prevention?
Marie-France Hivert, Boston, MA
9:54 Evaluation of Individual Risk Factors
Pete Ganz, San Francisco, CA
10:16 Strategies for Healthy Lifestyle Implementation
Jean-Pierre Després, Québec, QC, Canada
10:38 Mediterranean Diet in Cardiovascular Prevention
Emilio Ros, Barcelona, Spain

Sunday Morning Program

SMP.504
Difficult Management Questions in Heart Failure: The If, How and When

S406a 8:00 - 11:00 AM
Moderators:
Bojan Vrtovc, Ljubljana, Slovenia
Fausto Pinto, Lisboa, Portugal
8:00 How Should Viability Testing Influence Revascularization Decisions in Heart Failure?
Critical Review of the Evidence
Eric J Velazquez, Durham, NC
8:22 Is There a Role for Mitral Valve Repair or Mitral Clip in Patients with Severe Mitral Regurgitation and Systolic Heart Failure?
Paul W Fedak, Calgary, AB, Canada
8:44 How to Manage a Patient with Severe Aortic Stenosis and Severely Decreased Ejection Fraction, TAVR or Open Surgery?
David Liang, Stanford, CA
9:06 Intermission
9:32 What Is the Role of Cardiac Resynchronization Therapy in Patients with Heart Failure and Atrial Fibrillation?
Maurizio Gasparini, Rozzano, Italy
9:54 State of the Art of Ventricular Ablation Therapy: How Successful Is It in 2014?
Henry H Hsia, San Francisco, CA
10:16 The When and Who of Mechanical Circulatory Support
Dipanjan Banerjee, Stanford, CA
10:38 Myocardial Recovery Following LVAD Therapy: How Can We Explain the Divergent Reports or Finding Our Way Between Myth and Reality?
Joseph G Rogers, Durham, NC

Sunday Morning Program

SMP.205
Exercise Is Medicine Throughout the Life Span for All

S505 8:00 - 11:00 AM
Moderators:
Martha Gulati, Columbus, OH
Gerald F Fletcher, Jacksonville, FL
8:00 Exercise from Bench to Bedside: Endothelium, Growth Factors and Arteriogenesis
Josef Niebauer, Salzburg, Austria
8:20 Physical Activity/Fitness as a Vital Sign in Clinical Medicine
Carl Lavie, New Orleans, LA
8:40 Cardiac Rehabilitation in Women and the Elderly: General Considerations
Lola Coke, Chicago, IL

9:00 The Impact of Frailty in Women and the Elderly and Exercise Testing/Exercise Prescription
Ross Arena, Chicago, IL

9:20 Intermission

9:40 Making an Exercise Prescription for Patients with PAD and Stroke
Mary McDermott, Chicago, IL

10:00 Efficacy and Safety of High-Intensity Exercise, Including High-Level Competition, in the New Cardiac Patient
Ray W Squires, Rochester, MN

10:20 Exercise Training and Testing in Congenital Heart Disease
Willem A Helbing, Rotterdam, Netherlands

10:40 New Modalities of Exercise Training
James Stone, Calgary, AB, Canada

**Sunday Morning Program**

**Good, Bad and Smelly: Novel Signaling by Hydrogen Sulfide**

**S103a**

8:00 - 11:00 AM

**Moderators:**
Fumito Ichinose, Charlestown, MA
Hong Wang, Philadelphia, PA

8:00 Enzymology of Hydrogen Sulfide Biogenesis, Decay and Signaling
Ruma Banerjee, Ann Arbor, MI

8:20 Control of Cellular Bioenergetics by Hydrogen Sulfide
Frederic Bouillaud, Paris, France

8:40 Homocysteine and Vascular Inflammation
Hong Wang, Philadelphia, PA

9:00 Role of Hydrogen Sulfide and Homocysteine in Platelet Aggregation
Giuseppe Cirino, Naples, Italy

9:20 Intermission

9:40 Modulation of Mitochondrial Function by H2S in Health and Disease
Katalin Modis, Thunder Bay, ON, Canada

10:00 Preventing Ischemia-Reperfusion Injury with Hydrogen Sulfide
Rakesh Kukreja, Richmond, VA

10:20 NO and Hydrogen Sulfide in Cardiovascular Disorders
Saurabh Rajpal, Shreveport, LA

10:40 Hydrogen Sulfide in Heart Failure
David J Lefer, New Orleans, LA

10:05 Discussion
David P Faxon, Boston, MA

**Sunday Morning Program**

**Groundbreaking Studies in the Practice of Cardiovascular Medicine: Circulation Editors’ Choices**

N231
8:00 - 11:15 AM

**Moderators:**
Joseph Loscalzo, Boston, MA
Marc Pfeffer, Boston, MA
Joseph A Vita, Boston, MA

8:00 Introduction

8:05 Primary Prevention of Cardiovascular Disease with a Mediterranean Diet
Ramón Estruch, Barcelona, Spain

8:15 Discussion
Christine Albert, Boston, MA

8:25 Physiological Right Ventricular Adaptation in Elite Athletes of African and Afro-Caribbean Origin
Sanjay Sharma, London, United Kingdom

8:35 Discussion
Gary J Balady, Boston, MA

8:45 Safety of Sports for Athletes With Implantable Cardioverter-Defibrillators: Results of a Prospective, Multinational Registry
Rachel J Lampert, New Haven, CT

8:55 Discussion
John K Triedman, Boston, MA

9:05 Effect of Phosphodiesterase-5 Inhibition on Exercise Capacity and Clinical Status in Heart Failure With Preserved Ejection Fraction: A Randomized Clinical Trial
Margaret M Redfield, Rochester, MN

9:15 Discussion
Marc Pfeffer, Boston, MA

9:25 Effect of Early Metoprolol on Infarct Size in ST-Segment-Elevation Myocardial Infarction Patients Undergoing Primary Percutaneous Coronary Intervention: The Effect of Metoprolol in Cardioprotection During an Acute Myocardial Infarction (METOCARD-CNIC) Trial
Borja Ibanez, Madrid, Spain

9:35 Discussion
James E Udelson, Boston, MA

9:45 Effect of Early Metoprolol on Infarct Size in ST-Segment-Elevation Myocardial Infarction Patients Undergoing Primary Percutaneous Coronary Intervention: The Effect of Metoprolol in Cardioprotection During an Acute Myocardial Infarction (METOCARD-CNIC) Trial
Borja Ibanez, Madrid, Spain

9:55 Discussion
Marc Pfeffer, Boston, MA
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>10:15</td>
<td>Stenting and Medical Therapy for Atherosclerotic Renal-Artery Stenosis</td>
<td>9:10</td>
<td>Big Data: The Promise and Challenges in Basic and Genomic Science</td>
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<tr>
<td>10:25</td>
<td>Discussion Scott Kinlay, West Roxbury, MA</td>
<td>9:30</td>
<td>Case Study in using Big Data to Build Prevention and Chronic Disease Management in the Veterans Affairs System</td>
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<tr>
<td>10:35</td>
<td>Riociguat for the Treatment of Pulmonary Arterial Hypertension Hossein A Ghofrani, Giessen, Germany</td>
<td>9:50</td>
<td>Q&amp;A Discussion</td>
</tr>
<tr>
<td>10:45</td>
<td>Discussion Jane A Leopold, Boston, MA</td>
<td>10:05</td>
<td>Spatially Oriented, Temporally Sequential Smooth Muscle Cell-Endothelial Progenitor Cell Bi-Level Cell Sheet Neovascularizes Ischemic Myocardium Y Joseph Woo, Stanford, CA</td>
</tr>
<tr>
<td>10:55</td>
<td>Harnessing the Power of Big Data: Bench to Bedside to Population 8:00 - 11:00 AM</td>
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<td>SMP.301 Hypertrophic Cardiomyopathy: Challenging the Guidelines 8:00 - 11:00 AM</td>
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<tr>
<td>11:00</td>
<td>SMP.206.gc Introduction to Mitochondrial Dynamics: Fission and Fusion 101</td>
<td></td>
<td>SMP.502 Mitochondrial Dynamics in Cardiovascular Disease 8:00 - 11:00 AM</td>
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<tr>
<td>11:15</td>
<td>Presentation of the Circulation Best Paper Awards Joseph Loscalzo, Boston, MA</td>
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<td></td>
<td>SMP.106.gc Best Paper Award in Population Science: Prospective Study of Breakfast Eating and Incident Coronary Heart Disease in a Cohort of Male US Health Professionals Leah E Cahill, Boston, MA</td>
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<td>SMP.201a Best Paper Award in Clinical Science: Effect of Remote Ischemic Preconditioning on Platelet Activation and Reactivity Induced by Ablation for Atrial Fibrillation Alessandra Stazi, Rome, Italy</td>
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<td>SMP.104a Best Paper Award in Basic Science: Drug Screening Using a Library of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Reveals Disease-Specific Patterns of Cardiotoxicity Ping Liang, Hangzhou, China</td>
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<tr>
<td>8:00</td>
<td>Welcome Address Robert Harrington, Stanford, CA</td>
<td>8:00</td>
<td>Introduction to Mitochondrial Dynamics: Fission and Fusion 101</td>
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<tr>
<td>8:05</td>
<td>Harnessing the Power of Big Data to Transform Global HealthGary H Gibbons, Bethesda, MD</td>
<td>8:00</td>
<td>Dynamin-Related Protein 1 as a Therapeutic Target in Cardiac ArrestWillard W Sharp, Chicago, IL</td>
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<tr>
<td>8:30</td>
<td>Faster, Better, Cheaper: Re-engineering Scientific Research Enterprise with Big Data Harlan M Krumholz, New Haven, CT</td>
<td>8:20</td>
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<tr>
<td>8:50</td>
<td>Big Data: The Promise and Challenges in Clinical Science Robert M Califf, Durham, NC</td>
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</tbody>
</table>
Sunday Morning Program

SMP.604

New Directions and Applications of Biomaterials in Cardiovascular Disease

N227a
8:00 - 11:00 AM

Moderator:
Doris A Taylor, Houston, TX

8:00 New Advancements and Prospects in Biomaterial Designs and Applications
Karen L Christman, La Jolla, CA

8:25 Biomaterials as a Platform for Drug Delivery
Francis G Spinale, Columbia, SC

8:50 Modifying Inflammation and Remodeling Following Myocardial Infarction
Robert C Gorman, Philadelphia, PA

9:15 Intermission

9:45 Biomatrices as Adjuvants and Stand-Alones for Cardiac Regeneration
Erik Suuronen, Ottawa, ON, Canada

10:10 Biomaterial Injections in Heart Failure: Preclinical and Clinical Status
Nadia Rosenthal, Melbourne, Australia

10:35 Nanomaterials for Myocardial Repair
Patrick H Hsieh, Taipei, Taiwan

Sunday Morning Program

SMP.701

New Targets for Antiplatelet Drugs

S105abc
8:00 - 11:00 AM

Moderators:
Nigel Mackman, Chapel Hill, NC
Xiaoping Du, Chicago, IL

8:00 Current State of Antiplatelet Therapy
Paul A Gurbel, Baltimore, MD

8:23 Par-1 Inhibitors as New Antiplatelet Drugs
Lisa K Jennings, Memphis, TN

8:46 Targeting GPVI and ITAM Signaling in Platelets
Michael Holinstat, Philadelphia, PA

9:09 Intermission

9:28 Targeting Integrin Signaling in Platelets
Xiaoping Du, Chicago, IL

9:51 GPlb-IX Complex as Therapeutic Target
Zaverio M Ruggeri, La Jolla, CA

10:14 Protein Disulfide Isomerase as a New Antithrombotic Target
Robert C Flaumenhaft, Boston, MA

10:37 Selective Targeting of the Apyrase CD39 to Activated Platelets
Karlheinz Peter, Melbourne, Australia

Sunday Morning Program

SMP.204

Nursing Science in Review: Important Investigations in 2012-2014

S502
8:00 - 11:00 AM

Moderators:
Corrine Jurgens, Stony Brook, NY
Barbara J Riegel, Philadelphia, PA

8:00 Applying Mobile-Persuasive Technologies to Increase Physical Activity in Women
Yoshimi Fukuoka, San Francisco, CA

8:25 Girls on the Move Intervention
Lorraine Robbins, East Lansing, MI

8:50 Intervention to Reduce Symptoms in Patients with Heart Failure
Terry A Lennie, Lexington, KY

9:15 Intermission

9:45 A Longitudinal Study of Adherence to Medication Adherence in Black Men with Hypertension
Lisa Lewis, Philadelphia, PA

10:10 Profiling Behavioral Responses to Mechanical Support in Advanced Heart Failure
Christopher S Lee, Portland, OR
Home ECG Monitoring to Detect Allograft Rejection Following Heart Transplantation
Barbara J Drew, San Francisco, CA

8:38 Long-Term Effects of AAV1/SERCA2a Gene Transfer in Patients With Severe Heart Failure: Analysis of Recurrent Cardiovascular Events and Mortality
Kristzina Zsebo, San Diego, CA

8:52 Permanent Alteration of PCSK9 With In Vivo CRISPR-Cas9 Genome Editing
Kiran Musunuru, Cambridge, MA

9:06 Macrophage Mitochondrial Oxidative Stress Promotes Atherosclerosis and Nuclear Factor-KB-Mediated Inflammation in Macrophages
Ira Tabas, New York, NY

9:20 The Hippo Pathway Is Activated and Is a Causal Mechanism for Adipogenesis in Arrhythmogenic Cardiomyopathy
Ali J Marian, Houston, TX

9:34 Extracellular Matrix Secretion by Cardiac Fibroblasts: Role of MicroRNA-29b and MicroRNA-30c
Manuel Mayr, London, United Kingdom

Remodeling of the Mononuclear Phagocyte Network Underlies Chronic Inflammation and Disease Progression in Heart Failure
Sumanth Prabhu, Birmingham, AL

Cardiogenic Genes Expressed in Cardiac Fibroblasts Contribute to Heart Development and Repair
Nadia Rosenthal, Melbourne, Australia

Long Noncoding RNA MALAT1 Regulates Endothelial Cell Function and Vessel Growth
Stefanie Dimmel, Frankfurt, Germany

Keynote: Recent Advances in MicroRNA and Other Non-coding RNA Research
Victor J Dzau, Washington, DC

Sunday Morning Program
Resident Cardiac Stem Cells: The Controversy
S406b
8:00 - 11:00 AM

Moderators:
Piero Anversa, Boston, MA
Jianyi Zhang, Minneapolis, MN

8:00 Lineage Tracing of C-Kit-Positive Myocardial Cells
Jeffery D Molkentin, Cincinnati, OH

8:22 Cardioclusters and Cardiochimeras
Mark A Sussman, San Diego, CA

8:44 Lineage Tracing of C-kit-Positive Cardiac Stem Cells
Annarosa Leri, Boston, MA

9:06 Intermission

9:32 In Situ Activation of Cardiac Stem Cells
Joshua Hare, Miami, FL

9:54 Autologous and Allogeneic Cardiac Progenitors
Eduardo Marban, Los Angeles, CA

10:16 Clinical Trials with C-kit+ Cells
Roberto Bolli, Louisville, KY

10:38 Adult C-kit Positive Cardiac Stem Cells
Bernardo Nadal-Ginard, London, United Kingdom

The Best of Circulation Research Symposium
S102a
8:00 - 11:00 AM

Moderators:
Roberto Bolli, Louisville, KY
Walter Koch, Philadelphia, PA

8:00 Introduction
Roberto Bolli, Louisville, KY

8:10 Analysis and Updates from the POSEIDON and PROMETHEUS Trials
Joshua Hare, Miami, FL

8:24 Bone-Derived Stem Cells Repair the Heart After Myocardial Infarction through Transdifferentiation and Paracrine Signaling Mechanisms
Steven R Houser, Philadelphia, PA

Sunday Morning Program
Update on CVD Prediction and Prevention in Type 2 Diabetes Mellitus
S504
8:00 - 11:00 AM

Moderators:
Prakash Deedwania, Fresno, CA
Caroline S Fox, Framingham, MA

8:00 Predicting CVD Risk in Type 2 Diabetes: The Role of Prediction Models
Peter Wilson, Atlanta, GA

8:22 Predicting CVD Risk in Type 2 Diabetes: The Role of Imaging
Matthew Budoff, Torrance, CA

8:44 Lifestyle Interventions for Prevention of CVD and Diabetes
Laurie Quinn, Chicago, IL

9:06 Intermission
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:54</td>
<td>Blood Pressure Control: What Should Be the Target BP Level?</td>
<td>Prakash Deedwania, Fresno, CA</td>
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<tr>
<td>10:16</td>
<td>Lipid Control in Diabetes: Statins and Beyond</td>
<td>Henry N Ginsberg, New York, NY</td>
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<td>10:38</td>
<td>Antiplatelet Drugs for Primary and Secondary Prevention in Diabetes</td>
<td>Deepak Bhatt, Boston, MA</td>
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<td><strong>Maintenance of Certification</strong></td>
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<td><strong>ABIM Learning Session—Cardiovascular Disease, 2014 Update (Late-June Release)</strong></td>
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<td>S105d</td>
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<td></td>
<td>9:00 - 11:00 AM</td>
<td>Matthew Roe, Durham, NC</td>
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<td></td>
<td><strong>Abstract Poster Session</strong></td>
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<td></td>
<td><strong>Adult Congenital Heart Disease I</strong></td>
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<td>South Hall A2 - Core 3</td>
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<td>Posters Displayed: 9:00 AM - 5:00 PM</td>
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<td><strong>Poster Professor:</strong></td>
<td>Yuli Kim, Philadelphia, PA</td>
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<td>3204</td>
<td>Prognostic Value of Multiple Biomarkers on Mortality in Adults Congenital Heart Disease: Comparison of Single- and Two-Ventricle Physiology</td>
<td>Kenji Miyamoto, Towkyo Women’s Medical Univ, Tokyo, Japan</td>
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<td>Toshio Nakanishi, Towkyo Women’s Medical Univ, Tokyo, Japan</td>
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<td>3205</td>
<td>Impact of Body Mass Index on Clinical Outcomes in Complex Adult Congenital Heart Disease</td>
<td>Norihisa Toh, Univ of Toronto, Toronto, ON, Canada</td>
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<td>S Lucy Roche, Univ of Toronto, Toronto, ON, Canada</td>
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<td>3206</td>
<td>Economic Self-sufficiency and Educational Attainment is Worse in Adult Congenital Heart Disease Survivors</td>
<td>Nicolas L Madsen, Cincinnati Children’s Hosp Medical Ctr, Cincinnati, OH</td>
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<td>Morten S Olsen, Univ of Aarhus, Aarhus, Denmark</td>
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<tr>
<td>3207</td>
<td>Factors Associated with Glucose Intolerance and Abnormal Lipid Metabolism in Fontan Patients</td>
<td>Clara Kurishima, Tokyo Women’s Medical Univ, Tokyo, Japan</td>
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<td>Toshio Nakanishi, Tokyo Women’s Medical Univ, Tokyo, Japan</td>
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<td>3208</td>
<td>Adults With Hypoplastic Left Heart Syndrome: Outcomes in a New Cohort of Patients</td>
<td>Erwin Oechslin, Toronto General Hosp, Toronto, ON, Canada</td>
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<td>Rachel Wald, Toronto General Hosp, Toronto, ON, Canada</td>
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<td>Marilyn Rosenbaum, Columbia Univ/New York Presbyterian Hosp, New York, NY</td>
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<td>3210</td>
<td>Structural Equation Modeling Demonstrates only an Indirect Effect of Obesity on Carotid Intima-Media thickness in Adolescents and Young Adults</td>
<td>Amelie Michaud, Quebec Heart and Lung Inst, Quebec, QC, Canada</td>
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<td>Elisabeth Bedard, Quebec Heart and Lung Inst, Quebec, QC, Canada</td>
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<td>3211</td>
<td>Left Ventricular Contractile Reserve Assessed by Exercise Stress Echocardiogram in Adults With Repaired Tetralogy of Fallot: A Novel Early Marker of Intrinsic Myocardial Disease?</td>
<td>Munziba Khan, Children’s Natl Medical Ctr, Washington, DC</td>
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<td>Anitha S John, Children’s Natl Medical Ctr, Washington, DC</td>
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<td>3212</td>
<td>Cardiovascular Exercise Reduces Anxiety Symptoms in Adults With Congenital Heart Disease</td>
<td>Nicolas L Madsen, Cincinnati Childrens Hosp, Cincinnati, OH</td>
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<td>Elaine M Urbina, Cincinnati Childrens Hosp, Cincinnati, OH</td>
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<td>3213</td>
<td>Abnormalities in Cardiac Strain are Found in Young Adults with Type 2 Diabetes Mellitus</td>
<td>Nicolas L Madsen, Cincinnati Childrens Hosp, Cincinnati, OH</td>
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<td>Elaine M Urbina, Cincinnati Childrens Hosp, Cincinnati, OH</td>
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**Abstract Poster Session**

**APS.404.02**

**AF and Stroke: Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk Stratification**

South Hall A2 - Core 4

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

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<tr>
<td>4087</td>
<td>Gregory Lip, Birmingham, United Kingdom</td>
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<td>4088</td>
<td>Thomas Vanassche, McMaster Univ, Hamilton, ON, Canada</td>
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<tr>
<td>4089</td>
<td>Hyemyoon Chung, Gangnam sewerage hospital, Seoul, Republic of Korea</td>
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<td>4090</td>
<td>Oskars Kalejs, P.Stradins Univ Hosp, Riga, Latvia</td>
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<td>4091</td>
<td>Ryan C Martin, Univ of South Florida, Tampa, FL</td>
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<td>4092</td>
<td>Raffaele De Caterina, G d’Annunzio Univ - Chieti, Chieti, Italy</td>
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<td>4093</td>
<td>Fengpeng Jia, Chongqing Medical Univ, Chongqing, China</td>
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**APS.601.03**

**Antiplatelet Therapies: Pharmacodynamics**

South Hall A2 - Core 6

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

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<td>6024</td>
<td>Elevated Platelet Turnover in Patients Receiving Dual Antiplatelet Therapy Could Permit the Formation of Uninhibited Platelet Clusters That Act as Seeds for Thrombus Formation</td>
<td>Timothy D Warner, Barts and the London Sch of Med and Dentistry, London, United Kingdom</td>
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<tr>
<td>6025</td>
<td>Different Influences of Hematocrit on the Results of Two Point-of-Care Platelet Function Tests, the VerifyNow Assay and Multiple Electrode Platelet Aggregometry</td>
<td>Yun Gi Kim, Seoul Natl Univ Hosp, Seoul, Republic of Korea; Dong-Ju Choi, Seoul Natl Univ Bundang Hosp, Seoul, Republic of Korea</td>
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<tr>
<td>6026</td>
<td>Pharmacodynamic Effects of Dabigatran in Patients With Coronary Artery Disease on Dual Antiplatelet Therapy With Aspirin and Clopidogrel</td>
<td>Francesco Franchi, Univ of Florida Coll of Med-Jacksonville, Jacksonville, FL; Dominick J Angiolillo, Univ of Florida Coll of Med-Jacksonville, Jacksonville, FL</td>
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<tr>
<td>6027</td>
<td>The Effectiveness of P2Y12 Receptor Antagonist Therapy is Strongly Determined by Endothelial Mediators of Platelet Function</td>
<td>Rebecca B Knowles, William Harvey Res Inst, London, United Kingdom; Timothy D Warner, William Harvey Res Inst, London, United Kingdom</td>
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<td>6028</td>
<td>A New Assay of Measuring Platelet Reactivity Using Monoclonal Antibody Against Activated Platelet Glycoprotein IIb/IIa in a Whole Blood</td>
<td>Seung-Jae Joo, Jeju National University Hosp, Jeju, Republic of Korea; Young-Ree Kim, Jeju National University Hosp, Jeju, Republic of Korea</td>
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<tr>
<td>6029</td>
<td>Association of CYP2C19 Polymorphism and Peripheral Endothelial Dysfunction With Clinical Outcome is More Important in Non-Chronic Kidney Disease (CKD) Than CKD Patients Following Coronary Stent Implantation</td>
<td>Noriaki Tabata, Kumamoto Univ, Kumamoto, Japan; Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan</td>
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<td>6030</td>
<td>Exome Sequencing of Extreme Phenotypes Identifies B4GALT2 as a Determinant of Clopidogrel Response Variability</td>
<td>Jean-Sebastien Hulot, Icahn Sch of Med at Mount Sinai, New York, NY</td>
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**Abstract Poster Session**

**Aortic Stenosis: Flow and Determination of Severity**

South Hall A2 - Core 5

- **Posters Displayed:** 9:00 AM - 5:00 PM
- **Presenter Available:** 9:30 - 11:00 AM

**Poster Professor:** Marie-Annick Clavel, Rochester, MN

**5686** Aortic Stenosis: The Effect of Spectral Broadening in the Left Ventricular Outflow Tract on Stroke Volume and Calculated Aortic Valve Area

Jeremy J Thaden, Mayo Clinic, Rochester, MN

Jae K Oh, Mayo Clinic, Rochester, MN

**5686.5** Sex-Related Differences in Aortic Stenosis: Pre-operative Hemodynamics and Correlates of Aortic Valve Weight

Jeremy Thaden, Mayo Clinic, Rochester, MN

Maurice E Enriquez-Sarano, Mayo Clinic, Rochester, MN

**5687** Prognostic Value of Cardiopulmonary Exercise Testing in Patients With Asymptomatic or Equivocal Symptomatic Aortic Stenosis

Van DT Le, Roskilde Hosp, Roskilde, Denmark

Lars Kjoller-Hansen, Roskilde Hosp, Roskilde, Denmark

**5688** Combining Echo Doppler and CT Derived LVOT Measurements Improve Accuracy of Continuity Equation Based Aortic Valve Area Determination

Sami Alnasser, St Michael’s Hosp, Toronto, ON, Canada

Robert J Chisholm, St Michael’s Hosp, Toronto, ON, Canada

**5691** Gender Differences and Flow Category Effects on Left Ventricular Remodelling in Patients With Severe Aortic Stenosis and Preserved Left Ventricular Ejection Fraction

Weiqin Lin, Natl Univ Heart Ctr, Singapore, Singapore

Kian Keong Poh, Natl Univ Heart Ctr, Singapore, Singapore

**5692** Fusion of Echocardiographic Hemodynamic Data and Computed Tomographic Anatomical Data of the Aortic Valve Determine Severity of Low-Gradient Aortic Stenosis with Preserved Ejection Fraction

Vasileios Kamperidis, LUMC, Leiden, Netherlands

Victoria Delgado, LUMC, Leiden, Netherlands
Assessment of Aortic Stenosis Severity in Low-Flow Low-Gradient Aortic Stenosis: Comparison of Dobutamine Stress Echocardiography and Aortic Valve Calcium Scoring by Computed Tomography -The TOPAS Study-
Abdellaziz Dahou, QHLI, Quebec, QC, Canada
Philippe Pibarot, QHLI, Quebec, QC, Canada

Usefulness of Aortic Valve Area Measurement Obtained by Single-Beat Recording of Double-Envelope Technique in Patients With Aortic Stenosis and Atrial Fibrillation
Nobuhisa Watanabe, Okayama Univ Hosp, Okayama, Japan
Hiroshi Ito, Okayama Univ, Okayama, Japan

Severe Aortic Stenosis With Normal Left Ventricular Ejection Fraction, Normal Flow and Low Gradients. Another Paradox or Only Moderate Stenosis?
Dragos Alexandru, St Francis Hosp/SUNY at Stony Brook, Roslyn, NY
Nathaniel Reichek, Eddy Barasch Simcha Pollack, Florentina Petillo, Ana Anagnostopoulos

Valve Weight and Severity of Valve Calcification are less in Paradoxical Low Gradient than in High Gradient Severe Aortic Stenosis
Jamila Boulif, Univ Catholique de Louvain - Inst de Recherche Expérimentale et Clinique, Brussels, Belgium
Jean-Louis Vanoverschelde, Univ Catholique de Louvain - Inst de Recherche Expérimentale et Clinique, Brussels, Belgium

Abstract Poster Session
APS.403.03

Atrial Fibrillation in Experimental Models

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Xander Wehrens, Houston, TX

Electrogram Morphology Recurrence Analysis Identifies Areas of Consistent Activation Directions and Rotor Activity in a Rapid Atrial Pacing Model of Atrial Fibrillation
David Gordon, Northwestern Univ, Chicago, IL
Jason Ng, Northwestern Univ, Chicago, IL

Alogliptin, a Dipeptidyl Peptidase-4 Inhibitor Improves Ventricular Tachypacing-Induced Atrial Fibrillation in a Rabbit Model
Toshihiko Yarnamoto, Nagoya Univ Graduate Sch of Med, Nagoya, Japan
Toyoaki Murohara, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

Tranilast Prevents Hypertensive Atrial Electrical and Structural Remodeling Independent of Systolic Blood Pressure Level: a Comparative Study with Blood Pressure Lowering Therapies
Dennis H Lau, Ctr for Heart Rhythm Disorders, Adelaide, Australia
Prashanthan Sanders, Ctr for Heart Rhythm Disorders, Adelaide, Australia

Rapid Atrial Pacing Augments Fibrinogen Expression With Activation of IL-6/STAT3 Signaling Pathway in the Rat Liver
Takanori Yaegashi, Kanazawa Univ Graduate Sch of Medical Science, Kanazawa, Japan
Masayuki Takamura, Kanazawa Univ Graduate Sch of Medical Science, Kanazawa, Japan

Oxidative Stress Initiates Atrial Fibrillation in Fibrotic Hearts by Early Afterdepolarization-Mediated Triggered Activity. The Key Role of Late INa
Arash Pechaouman, UCLA, Los Angeles, CA
Hrayr S Karagueuzian, UCLA, Los Angeles, CA

Myocardial NADPH Oxidase 2 Overexpression Increases Atrial Fibrillation Susceptibility: Inhibition by Short Term Statin Treatment
Alice Recale, Univ of Oxford, Oxford, United Kingdom
Barbara Casadei, Univ of Oxford, Oxford, United Kingdom

Hyperleptinemia Exacerbates High Fat Diet-mediated Atrial Remodeling and Fibrillation
Yuki Ebata, Oita University, Yufu, Japan
Naohiko Takahashi, Oita University, Yufu, Japan

Pitx2c Deficiency Modulates the Effects of Flecainide on Atrial Conduction, Refractoriness and Arrhythmia Inducibility
Fahima Syed, Univ of Birmingham, Birmingham, United Kingdom
Paulus Kirchhoff, Univ of Birmingham, Birmingham, United Kingdom

Regional Action Potential Heterogeneity in the Murine Pitx2c Deficient Left Atrium
Andrew P Holmes, Univ of Birmingham, Birmingham, United Kingdom
Paulus Kirchhoff, Univ of Birmingham, Birmingham, United Kingdom

Atrial Tissue MicroRNAs 411-5p, 21-5p, 409-3p and 320a Are Associated With Atrial Fibrillation
Menhel Kinno, Univ of Massachusetts, Worcester, MA
David D McManus, Univ of Massachusetts, Worcester, MA
**Abstract Poster Session**

**APS.404.01**  
**Atrial Fibrillation: Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk Stratification I**

*South Hall A2 - Core 4*

**Presenters Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**  
David Krummen, San Diego, CA

**0477**  
**The Association of Genetic Polymorphism of rs2106261 in ZFHX3 and ‘Super-responder’ to Catheter Ablation Among the Patients With Long-standing Persistent Atrial Fibrillation**  
Jin kyu Park, Yonsei Univ Health System, Seoul, Republic of Korea  
Hui-Nam Pak, Yonsei Univ Health System, Seoul, Republic of Korea

**0478**  
**Effect of Circumferential Pulmonary Vein Isolation on the Dominant Frequency in the Contralateral Pulmonary Vein during Atrial Fibrillation**  
Daisuke Horiuchi, Hirosaki Univ Graduate Sch of Med, Hirosaki, Japan

**0479**  
**Electrophysiologic Mapping Identifies Stable Organized Tachyarrhythmias (‘Rotors’) in Both Atria during Spontaneous Atrial Fibrillation with Systolic Heart Failure**  
Rangadharm Nagarakanti, Electrophysiology Res Fndn, Warren, NJ  
Sanjeev Saksena, Electrophysiology Res Fndn, Warren, NJ

**0480**  
**Fibrillation Number Based on Wavelength and Critical Mass in Patients Who Underwent Radiofrequency Catheter Ablation for Atrial Fibrillation**  
Minki Hwang, Yonsei Univ Health System, Seoul, Republic of Korea  
Hui-Nam Pak, Yonsei Univ Health System, Seoul, Republic of Korea

**0481**  
**Left Ventricular Enlargement Detected by Cardiac Magnetic Resonance Imaging Predicts Atrial Fibrillation Recurrence Following Pulmonary Vein Isolation**  
Daniel K Pu, Weill Cornell Medical Coll, New York, NY  
Jim W Cheung, Weill Cornell Medical Coll, New York, NY

**0482**  
**Select Cardiac MicroRNA Are Associated With Prevalent Atrial Fibrillation and Change After AF Ablation**  
Raghava Velagaleti, Univ of Massachusetts, Worcester, MA  
David McManus, Univ of Massachusetts, Worcester, MA

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**Abstract Poster Session**

**APS.406.02**  
**Atrial Fibrillation: Pharmacology and Anticoagulation**

*South Hall A2 - Core 4*

**Presenters Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**  
Paulus Kirchhof, Birmingham, United Kingdom

**0483**  
**Periprocedural Heparin Requirement in Patients Undergoing Atrial Fibrillation Ablation Stratified by Different Baseline Anticoagulation Regimens: Evidence for a Prothrombotic State With Interrupted Dabigatran**  
Daniel Benhayon, Hosp Univ of Pennsylvania, Philadelphia, PA  
Francis Marchlinski, Hosp Univ of Pennsylvania, Philadelphia, PA

**0484**  
**Improvement of the Endothelial Function in Patients with Atrial Fibrillation: Effect of Sinus Rhythm Restoration by Catheter Ablation**  
Hisanori Kanazawa, Kumamoto Univ, Kumamoto, Japan  
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

**0485**  
**Endothelial Dysfunction Predicts Atrial Arrhythmia Recurrence Following Pulmonary Vein Isolation in Patients ≤ 60 Years Old**  
Yasushi Matsuzawa, Mayo Clinic, Rochester, MN  
Amir Lerman, Mayo Clinic, Rochester, MN

**0486**  
**The Impact of Risk Score (CHADS2 versus CHADS2-Vasc) on Long-term Outcomes After Atrial Fibrillation Ablation**  
Victoria Jacobs, Intermountain Heart Inst, Murray, UT  
Thomas Jared Bunch, Intermountain Heart Inst, Murray, UT

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4235  Warfarin versus Dabigatran: The Coagulation Activity in the Left Atrium During Atrial Fibrillation Ablation  
Naoaki Hashimoto, Yamagata Univ Sch of Med, Yamagata, Japan  
Isao Kubota, Yamagata Univ Sch of Med, Yamagata, Japan

4236  Safety of Novel Oral Anticoagulants Compared with Uninterrupted Warfarin for Catheter Ablation of Atrial Fibrillation  
John Lindsley, The Johns Hopkins Hosp, Baltimore, MD  
Joseph E Marine, The Johns Hopkins Univ Sch of Med, Baltimore, MD

4237  New Oral Anticoagulants for Periprocedural Management of Anticoagulation in Patients Undergoing Radiofrequency Catheter Ablation for Atrial Fibrillation: a Meta-analysis  
Abdul Shokor Parwani, Virchow Charite Berlin, Berlin, Germany  
Wilhelm Haverkamp, Virchow Charite Berlin, Berlin, Germany

4238  Lower Thromboembolic and Bleeding Events With Uninterrupted Warfarin Compared to Interrupted Warfarin and Heparin Bridging in Atrial Fibrillation Ablation: Evidence From a Meta-Analysis  
Ramez Nairooz, Univ of Arkansas for medical sciences, Little Rock, AR  
Kenneth L Gould, Univ of Texas Medical Sch, Houston, TX

4239  Peri-Procedural Anticoagulation Regimen Influences the Clinical Course of Migraine in Atrial Fibrillation Patients With or Without Pre-Existential Migraine  
Sanghamitra Mohanty, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX, Austin, TX  
Andrea Natale, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX, Austin, TX

4240  Successful Pharmacological Cardioversion by Oral Amiodarone Therapy is Correlated With Favorable Post-Ablation Clinical Outcomes in Non-Paroxysmal Atrial Fibrillation  
Kiyoji Otomo, Sendai Kousei Hosp, Sendai, Japan  
Taichiro Meguro, Sendai Kousei Hosp, Sendai, Japan

4241  Percent Time With a Supratherapeutic Inr in Atrial Fibrillation Patients Using an Antiplatelet Agent is Associated With Long-term Risk of Dementia  
Thomas Jared Bunch, Intermountain Heart Inst, Murray, UT  
Scott C Woller, Intermountain Heart Inst, Murray, UT

Abstract Poster Session

Atrial Fibrillation: Variations in Care  
South Hall A2 - Core 2  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

Poster Professor:  
Paul Varosy, Denver, CO

Burden of Atrial Fibrillation on the Hospitals in USA: Analysis of Nationwide Emergency Department Sample Data  
Sourabh Aggarwal, Western Michigan Univ Sch of Med, Kalamazoo, MI  
Vishal Gupta, Borgess Cardiology Inst, Kalamazoo, MI

Impact of the 2014 Atrial Fibrillation Guideline on the Proportion of Patients Recommended for Oral Anticoagulation  
Emily C O'Brien, Duke Clinical Res Inst, Durham, NC  
Eric D Peterson, Duke Clinical Res Inst, Durham, NC

Practice Variation in Antiplatelet and Anticoagulation Therapy for Patients With Both Atrial Fibrillation and Coronary Artery Disease: Insights From the ACC’s PINNACLE Registry  
Jason H Wasfy, Massachusetts General Hosp, Boston, MA  
Robert W Yeh, Massachusetts General Hosp, Boston, MA

Racial Disparities in Hospitalization for Atrial Fibrillation: The Nationwide Inpatient Sample 2001-09  
Gene F Kwan, Boston Univ/Boston Medical Ctr, Boston, MA  
Jared W Magnani, Boston Univ/Boston Medical Ctr, Boston, MA

Impact of Gender on Clinical Outcomes in Non-Valvular Atrial Fibrillation: Contemporary Perspective From the GARFIELD Registry  
John Camm, St George's Univ of London, London, United Kingdom  
for the GARFIELD Investigators

Blood Pressure Control in Community Dwelling Patients with Atrial Fibrillation: Results from the ORBIT-AF Registry  
Srekanth Vemulpalai, Duke Univ, Durham, NC  
Eric D Peterson, Duke Clinical Res Inst, Durham, NC
<table>
<thead>
<tr>
<th>Board #</th>
<th>Title</th>
<th>Poster Professor</th>
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<tbody>
<tr>
<td>2628</td>
<td>Standardized Protocol to Optimize Management of Patients with Post-operative Atrial Fibrillation Reduces Length of Stay and Hospital Costs</td>
<td>Brandon R Porten, Minneapolis Heart Inst Fndn, Minneapolis, MN; Timothy D Henry, Cedars-Sinai Heart Inst, Los Angeles, CA</td>
</tr>
<tr>
<td>2629</td>
<td>Contemporary Use and Clinical Outcomes Following Non-Emergent Electrical Cardioversion for Atrial Fibrillation</td>
<td>Benjamin A Steinberg, Duke Univ Medical Ctr, Durham, NC; Bimal R Shah, Duke Univ Medical Ctr, Durham, NC</td>
</tr>
</tbody>
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**Abstract Poster Session**

**APS.724.01  | Autonomic, Reflex and Neurohumoral Control of Circulation**

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**Poster Professor:** Irving H Zucker, Omaha, NE

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<thead>
<tr>
<th>Board #</th>
<th>Title</th>
<th>Poster Professor</th>
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<tbody>
<tr>
<td>7616</td>
<td>Carotid Body Denervation Improves Autonomic Balance and Prevents the Worsening of Heart Failure in Rats After Large Myocardial Infarction</td>
<td>Keita Saku, Kyushu Univ, Fukuoka, Japan; Kenji Sunagawa, Kyushu Univ, Fukuoka, Japan</td>
</tr>
<tr>
<td>7617</td>
<td>Proteinase-Activated Receptor-2 is Responsible for Amplified Function of Transient Receptor Potential Channel A1 in Skeletal Muscle Sensory Neurons of Rats With Peripheral Artery Disease</td>
<td>Jianhua Li, Penn State Coll of Med, Hershey, PA</td>
</tr>
<tr>
<td>7618</td>
<td>Rho Kinase Inhibition Prevents the Pressor and Sympatho-Excitatory Effects of Central Angiotensin-II Infusion in Conscious Rabbits</td>
<td>Peter R Pellegrino, Univ of Nebraska Medical Ctr, Omaha, NE; Irving H Zucker, Univ of Nebraska Medical Ctr, Omaha, NE</td>
</tr>
<tr>
<td>7619</td>
<td>Altered Ubiquitination and Stability of Protein Inhibitor of Neuronal Nitric Oxide Synthase in the Paraventricular Nucleus of Chronic Heart Failure Rats: Role of Angiotensin II</td>
<td>Neeru Sharma, UNMC, Omaha, NE; Kaushik Patel, UNMC, Omaha, NE</td>
</tr>
<tr>
<td>7620</td>
<td>Peripheral α7-Nicotinic Acetylcholine Receptors Contribute to Cardio-Protective Effects of Central Donepezil Infusion in Chronic Heart Failure Rats</td>
<td>Meihua Li, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan; Masaru Sugimachi, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan</td>
</tr>
<tr>
<td>7621</td>
<td>Early Spontaneous Vagal Reflexes Reduce the Inflammatory Response in Patients with Myocardial Infarction Treated with Primary Percutaneous Coronary Intervention</td>
<td>Gaetano M De Ferrari, Cardiology Dept.- Fondazione IRCCS Policlinico San Matteo and Univ of Pavia, Pavia, Italy; Fondazione IRCCS Policlinico San Matteo, Pavia, Italy</td>
</tr>
<tr>
<td>7622</td>
<td>Muscle Superoxide Dismutase and Augmented Autonomic Responsiveness in Rats With Peripheral Artery Disease</td>
<td>Jianhua Li, Penn State Coll of Med, Hershey, PA</td>
</tr>
<tr>
<td>7623</td>
<td>Sodium Nitrate Recapitulates Sarcolemmal nNOS and Alleviates Functional Muscle Ischemia in Patients With Becker Muscular Dystrophy</td>
<td>Michael D Nelson, Cedars-Sinai Medical Ctr, Los Angeles, CA; Ronald G Victor, Cedars-Sinai Medical Ctr, Los Angeles, CA</td>
</tr>
<tr>
<td>7624</td>
<td>Enhanced Vasoconstrictor Sensitivity to Exercise Pressor Reflex Engagement in Peripheral Artery Disease</td>
<td>Urs A Leuenberger, Penn State Coll of Med, Hershey, PA</td>
</tr>
<tr>
<td>7625</td>
<td>The Symptom Limited Up-titration of VNS May Result in Neural Damage, Thus Too Strong to Benefit Chronic Heart Failure</td>
<td>Akiko Nishizaki, Kyushu Univ, Fukuoka, Japan; Kenji Sunagawa, Kyushu Univ, Fukuoka, Japan</td>
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Abstract Poster Session

**Autonomic, Reflex and Neurohumoral Control of Circulation II**

**South Hall A2 - Core 7**

Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**SUNDAY AM**

**Abstract Poster Session**

**APS.715.01**

**Back to Basics: Translational Pathophysiological Insights into ACS**

**South Hall A2 - Core 7**

Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

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**BOARDS #**

**Poster Professor:**  
- **APS.724.02h** 
  John S Floras, Toronto, ON, Canada

**7626**

**Effect of Serotonin Neuron Depletion on Arterial Blood Pressure Regulation in Young Rats**  
Jennifer Magnusson, Univ of Missouri, Columbia, MO  
Kevin Cummings, Univ of Missouri, Columbia, MO

**7627**

**Afferent Vagal Nerve Stimulation Dose Dependent Inhibits Sympathetic Nerve Activity Through the Resetting of Baroreflex Central Arc**  
Yasuhiro Oga, Kyushu Univ, Fukuoka, Japan  
Kenji Sunagawa, Kyushu Univ, Fukuoka, Japan

**7628**

**Evidence for Activation of Cerebral Autonomic Center in Response to Cardiac Electrical Stimulation in Humans - A New Finding of Cardio-Cerebral Connection**  
Hideaki Suzuki, Tohoku Univ, Sendai, Japan  
Hiroaki Shimokawa, Tohoku Univ, Sendai, Japan

**7629**

**Carotid Body Denervation Markedly Improves Survival of Hypertensive Heart Failure in Rats**  
Kana Fujii, Kyushu Univ Graduate Sch of Medical Sciences, Fukuoka, Japan  
Kenji Sunagawa, Kyushu Univ Graduate Sch of Medical Sciences, Fukuoka, Japan

**7630**

**Diminished Daily Fluctuation of Heart Rate Variability in Patients with Chronic Kidney Disease**  
Hisaki Makimoto, Univ of Tokyo Hosp, Tokyo, Japan  
Issei Komuro, Univ of Tokyo Hosp, Tokyo, Japan

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**BOARDS #**

**Poster Professor:**  
- **APS.715.01** 
  Kevin Croce, Boston, MA

**7348**

**Multimodality Intravascular Imaging Assessment of Plaque Erosion vs Plaque Rupture in Patients With Acute Coronary Syndrome**  
Sang-Wook Kim, Chung-Ang Univ Hosp, Seoul, Republic of Korea  
Chee Jeong Kim, Chung-Ang Univ Hosp, Seoul, Republic of Korea

**7349**

**Enhanced Trpc Channel-Mediated Ca2+ Influx in the Cells With Phospholipase C-δ1 Overexpression**  
Kazuo Murakami, Hirosaki Univ, Hirosaki, Japan  
Ken Okumura, Hirosaki Univ, Hirosaki, Japan

**7350**

**Coronary Vasospasm Induced in Transgenic Mouse With Vascular Smooth Muscle-Specific Overexpression of p122RhoGAP/DLC1**  
Takahiko Kinjo, Hirosaki Univ, Hirosaki, Japan  
Ken Okumura, Hirosaki Univ, Hirosaki, Japan

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**WITHDRAWN**

**7351**

**A Role of an HDL-associated Anti-inflammatory Protein, Progranulin, in Acute Coronary Syndrome**  
Ryota Kawase, Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan  
Shizuya Yamashita, Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan

**7352**

**Plasma Fibrin Clot Properties Measured Ex-vivo Are Associated With Intracoronary Thrombus Ultrastructure**  
Jaroslaw Zalewski, John Paul II Hosp, Jagiellonian Univ, Krakow, Poland  
Anetta Undas, John Paul II Hosp, Jagiellonian Univ, Krakow, Poland

**7353**

**Neutrophil Extracellular Traps Correlate With Impaired Myocardial Reperfusion in Patients With St Elevation Myocardial Infarction After Primary Percutaneous Coronary Intervention**  
Mie Kurata, Erasmus medical center, Rotterdam, Netherlands  
Heleen M M van Beusekom, Erasmus Medical Center, Rotterdam, Netherlands
**Abstract Poster Session**

**Biomarkers**

**South Hall A2 - Core 7**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Michael S Marber, London, United Kingdom

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**7355**

**Lymphocyte Depletion Post STEMI Confers Poor Prognosis: a Potential Role for T Lymphocytes and the Key Chemokine Fractalkine in Myocardial Ischemia/Reperfusion Injury**
Stephen Boag, Newcastle Univ, Newcastle upon Tyne, United Kingdom
Ioakim Spyridopoulos, Newcastle Univ, Newcastle upon Tyne, United Kingdom

**7356**

**Previous Therapy with Statins Reduces the Inflammatory Response in Patients With ST-Elevation Myocardial Infarction Undergoing Primary Percutaneous Coronary Intervention**
Stefano Cornara, Cardiology Dept.- Fondazione IRCCS Policlinico San Matteo and Univ of Pavia, Pavia, Italy
Gaetano M De Ferrari, Cardiology Dept.- Fondazione IRCCS Policlinico San Matteo, Pavia, Italy

**7357**

**Significance of Chronic Low-Grade Inflammation and Diabetes Mellitus (DM) for Coronary Spasm Following Drug-Eluting Stent Implantation in Patients with Coronary Heart Disease (CHD)**
Seiji Hokimoto, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

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**7355**

**Causes for Increased Cardiac Troponin I Using Gender-Specific 99th Percentiles From a High Sensitivity Assay in a US Population**
Yader Sandoval, Hennepin County Medical Ctr, Minneapolis, MN
Fred S Apple, Hennepin County Medical Ctr, Minneapolis, MN

**7356**

**Resource Utilization in the Era of Contemporary Sensitive Cardiac Troponin Assays: Comparisons Among Type 1 Myocardial Infarction, Type 2 Myocardial Infarction, Non-Myocardial Infarction Troponin Increases, and Patients with Negative Troponin**
Yader Sandoval, Hennepin County Medical Ctr, Minneapolis, MN
Fred S Apple, Hennepin County Medical Ctr, Minneapolis, MN

**7357**

**An Elevated Level of N-terminal Pro-brain Natriuretic Peptide is Associated With the Development of Good Collateral Circulation in Patients Undergoing Primary Percutaneous Coronary Intervention After ST Segment Elevation Myocardial Infarction?**
Jang Hoon Lee, Kyungpook Natl Univ, Daegu, Republic of Korea
Shung Chull Chae, Kyungpook Natl Univ, Daegu, Republic of Korea

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**7355**

**Higher Serum Interleukin-6 is a Strong Postoperative Predictor of Delirium After Isolated Coronary Artery Bypass Graft Surgery**
Ying Wu, Capital Medical Univ Sch of Nursing, Beijing, China

**7356**

**Galectin-3 as a Predictor of Myocardial Fibrosis in Kawasaki Disease**
Fujito Numano, Univ of California, San Diego, San Diego, CA
Lori B Daniels, Univ of California, San Diego, La Jolla, CA

**7357**

**Role of Cardiac Biomarkers in Diagnosing Takotsubo Cardiomyopathy from Left Anterior Descending Artery ST Elevation Myocardial Infarction**
Ghulam Akbar, Lankenau Medical Ctr, Wynnewood, PA
Muhammad Rizwan Sardar, Cooper Univ Hosp, Camden, NJ
Abstract Poster Session

APS.403.01

**Calcium, Mitochondria and Arrhythmias in Experimental Models**

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Donald M Bers, Davis, CA

4040 **Exercise and Mitochondrial Respiration in Mice with Arrhythmogenic Cardiomyopathy**
Stephen Chelko, Johns Hopkins Sch of Med, Baltimore, MD
Daniel Judge, Johns Hopkins Sch of Med, Baltimore, MD

4041 **Inhibition of CaMKII blocks Inducible Ventricular Tachycardia/Fibrillation and Triggered Activity in a Canine Model of Myocardial Ischemia**
James B Martins, Univ of Iowa, Iowa City, IA
Mark E Anderson, Univ of Iowa, Iowa City, IA

4042 **CaMKIIδ Transgenic Mice Develop Spontaneous Ventricular Arrhythmias Which Can Be Suppressed by Inhibition of Late Na+ Current**
Maria Arolfo, Gilead Sciences Inc, Fremont, CA
Arvinder Dhalla, Gilead Sciences Inc, Fremont, CA

4043 **Does Electrophysiological Toxicity Limit the Therapeutic Window of Serca2a Gene Therapy?**
Chaoqin Xie, Mount Sinai Sch of Med, New York, NY
Fadi G Akar, Mount Sinai Sch of Med, New York, NY

4044 **Dissociation of Calmodulin From RyR2 Causes Diastolic Ca2+ leak and Induces Lethal Arrhythmias in Pressure-overload Heart Failure**
Takayoshi Kato, Yamaguchi Univ Graduate Sch of Med, Ube, Japan
Masafumi Yano, Yamaguchi Univ Graduate Sch of Med, Ube, Japan

4045 **Presence of Calmodulin Potentiates Block of Ryanodine Receptor Calcium Release Channels by Dantrolene and Flecainide**
Bjorn Knollmann, Vanderbilt Univ, Nashville, TN

4046 **Regional Ros Production Causes Ca2+ Waves in the Myocardium with Nonuniform Contraction**
Yuho Taguchi, Tohoku Univ Graduate Sch of Med, Sendai, Japan
Chiyohiko Shindoh, Tohoku Univ Graduate Sch of Med, Sendai, Japan

4047 **Atrial SERCA2a Overexpression Has No Effect on Cardiac Alternans but Promotes Arrhythmogenic SR Calcium Triggers**
Michelle M Jennings, Case Western Reserve Univ - MetroHealth Medical Ctr, Cleveland, OH
Michael J Cutler, Intermountain Heart Rhythm Specialist, Salt Lake City, UT

4048 **Late Sodium Current Plays a Role in Ventricular Arrhythmias Associated With Increased Intracellular Calcium Concentration**
Lin Wu, Peking Univ First Hosp, Beijing, China

4049 **Two Distinct mechanisms by which Na+/Ca2+ dysregulation contributes to Arrhythmogenic Diastolic Ca2+ Release**
Przemyslaw Radwanski, The Ohio State Univ, Columbus, OH
Sándor Györke, The Ohio State Univ, Columbus, OH

Abstract Poster Session

APS.501.01

**Cardiac Failure and Remodeling I**

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Charles R Bridges Jr., Charlotte, NC

5001 **Deletion of 12/15 Lipoxygenase Improves Left Ventricle Function and Survival by Resolving Inflammation Post Myocardial Infarction**
Ganesh V Halade, Univ of Alabama at Birmingham, Birmingham, AL

5002 **The Central Nervous System Regulates Inflammation and Cardiac Remodeling During Pressure Overload Through NLRP3 Inflammasome Activation**
Yasutomi Higashikuni, The Univ of Tokyo, Tokyo, Japan
Issei Komuro, The Univ of Tokyo, Tokyo, Japan

5003 **Genetic Ablation of Astrocyte-specific Angiotensin II Type 1 Receptors Improves Prognosis of Myocardial Infarction-Induced Heart Failure**
Kengo Isegawa, Kyushu Univ Graduate Sch of Medical Sciences, Fukuoka, Japan
Kenji Sunagawa, Kyushu Univ Graduate Sch of Medical Sciences, Fukuoka, Japan

5004 **High-Mobility Group Box 1 Aggravates Pressure Overload-induced Cardiac Hypertrophy and Heart Failure**
Lei Zhang, Shanghai Inst of Cardiovascular Diseases, Zhongshan Hosp of Fudan Univ, Shanghai, China
Junbo Ge, Shanghai Inst of Cardiovascular Diseases, Zhongshan Hosp of Fudan Univ, Shanghai, China
SUNDAY AM

5005  Basigin Promotes Cardiac Fibrosis and Failure in Response to Chronic Pressure-Overload in Mice
Kota Suzuki, Tohoku Univ Graduate Sch of Med, Sendai Miyagi, Japan
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai Miyagi, Japan

5006  Deep Sequencing Reveals Distinct Right Ventricular miRNA Signature in Failing Human Heart
Kai-Chien Yang, Natl Taiwan Univ, Taipei, Taiwan
Thomas G Di Salvo, Vanderbilt Univ Sch of Med, Nashville, TN

Abstract Poster Session
Cardiac Failure and Remodeling II
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

5021  Systemic Exposure of Porphyromonas Gingivalis Induces Early Cardiac Dysfunction Through Activation of Cytotoxic T-Cells
Kristine Y DeLeon-Pennell, Univ Miss Medical Ctr, Jackson, MS
Merry L Lindsey, Univ Miss Medical Ctr, Jackson, MS

5022  The Divergent Effects of Exercise Training After Myocardial Infarction or Pressure Overload Depend Critically on Endothelial Nitric Oxide Synthase
Yanti Octavia, Univ of Maastricht, Maastricht, Netherlands
Dirk J Duncker, Erasmus Medical Ctr, Rotterdam, Netherlands

5023  Restoration of Normal Cardiomyocyte Basal and β-Adrenergic Receptor (AR) Subtype Modulation in Heart Failure by Chronic Phosphodiesterase Type 5 Inhibition With Sildenafil
Tiankai Li, Wake Forest Sch of Med, Winston-Salem, NC
Che Ping Cheng, Wake Forest Sch of Med, Winston-Salem, NC

5024  The Nitroxyln Donor 1-Nitrosocyclohexyl Acetate Limits Cardiac Superoxide Upregulation and Diastolic Dysfunction in a Mouse Model of Diabetic Cardiomyopathy
Rebecca H Ritchie, Baker IDI Heart & Diabetes Inst, Melbourne, Australia
Barbara K Kemp-Harper, Monash Univ, Melbourne, Australia

5025  Notch3/rbpjk Signaling Pathway in the Coronary Arteries is Involved in the Development of Heart Failure in Response to Hypertension
Astrid Monfort, Inserm, Paris, France
Alain Cohen-Solal, Inserm, Paris, France

5026  Recombinant Human Placental Growth Factor 2 is a Safe and Effective Therapy for Ischemic Cardiomyopathy in Atherosclerotic Mice
Ming Wu, KU Leuven, Leuven, Belgium
Stefan Janssens, KU Leuven, Leuven, Belgium

5007  Abrogation of miR-195 Improves Function in Aged Heart by Preventing Telomere Shortening and Mitochondrial Dysfunction
Motoki Okada, Asahikawa Medical Univ, Asahikawa, Japan
Naoyuki Hasebe, Asahikawa Medical Univ, Asahikawa, Japan

5008  The Inducible Nuclear Protein IkBζ Plays a Pivotal Role in the Transition From Adaptive to Maladaptive Cardiac Hypertrophy During Pressure Overload
Yasutomi Higashikuni, The Univ of Tokyo, Tokyo, Japan
Issei Komuro, The Univ of Tokyo, Tokyo, Japan

5009  Increased Advanced Glycation End-Products Accelerate the Progress of Left Ventricular Hypertrophy Under Condition of Elevated Oxidative Stress or Insulin Resistance in Patients With Hyperension
Aoyama Akihiro, Kitasato Univ Graduate Sch of Medical Sciences, sagamihara, Japan
Ako Junya, Kitasato Univ Graduate Sch of Medical Sciences, sagamihara, Japan

5010  The G-Protein Coupled Receptor 99 (gpr99), a Receptor for Heart Failure Metabolite Alpha-Ketoglutarate, Regulates Pressure Overload Induced Hypertrophy in Mice
Ameh Omede, Univ of Manchester, Manchester, United Kingdom
Delvac Oceandy, Univ of Manchester, Manchester, United Kingdom

Poster Professor:
David Dostal, Temple, TX

Board #
APS.501.03
5027 Prognostic Impact and Therapeutic Implication for Functional Recovery in Nonischemic Dilated Cardiomyopathy With Diabetes Mellitus
Yuki Ikeda, Kitasato Univ Sch of Med, Sagamihara, Kanagawa, Japan
Junya Ako, Kitasato Univ Sch of Med, Sagamihara, Kanagawa, Japan

5028 Liver Transplantation Does Not Reverse Cirrhotic Cardiomyopathy
Ahmed Ibrahim, Cleveland Clinic Fndn, Cleveland, OH
Wael A Jaber, Cleveland Clinic Fndn, Cleveland, OH

5029 PARalpha/Sirt1 Heterodimer Suppresses Fatty Acid Oxidation Genes in the Heart Under Pressure Overload
Shinichi Oka, Rutgers New Jersey Medical Sch, Newark, NJ
Junichi Sadoshima, Rutgers New Jersey Medical Sch, Newark, NJ

5030 Cardiac Fibroblast-Restricted Enhancement of Gq Signaling Prolongs Calcium Transients and Increases Spontaneous Activity in Biomimetic Cardiac Microtissues
Calinda M Kofron, Rhode Island Hosp/Brown Univ, Providence, RI
Ulrike Mende, Rhode Island Hosp/Brown Univ, Providence, RI

8004 A Case of Severe Myocardial Bridging: Usefulness of Diastolic Fractional Flow Reserve
Tatsuro Mitsuse, Kumamoto Univ Hosp, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ Hosp, Kumamoto, Japan

8005 Cardiac Tamponade as a Rare Presentation of Chronic Lymphocytic Leukemia
Yasir Abdul Ghaffar, St Lukes Hosp, Chesterfield, MO
Teijo Niharika Musunuru, St Lukes Hosp, Chesterfield, MO

8006 Case Report of Vasopressin Induced Hyponatremia in a Patient With Pulmonary Hypertension, Hypotension and Sepsis
Andrew Peters, Temple Univ Hosp, Philadelphia, PA
Paul Fortia, Temple Univ Hosp, Philadelphia, PA

8007 Whole Exome Sequencing, Genomic Triangulation, and Systems Biology Converge to Identify TAB2 as a Novel Susceptibility Gene for Polyvalvular Syndrome
John A Smestad, Mayo Clinic Coll of Med, Rochester, MN
Michael J Ackerman, Mayo Clinic Coll of Med, Rochester, MN

8008 Dilated Cardiomyopathy Related to Pseudocromegaly
Sachin Shah, Lahey Hosp and Medical Ctr, Burlington, MA
David M Venesy, Lahey Hosp and Medical Ctr, Burlington, MA

8009 Antisynthetase Syndrome-Associated Myocarditis
Kavita Sharma, The Johns Hopkins Univ Sch of Med, Baltimore, MD
Sammy Zakaria, The Johns Hopkins Univ Sch of Med, Baltimore, MD

8010 The Combination of an Ostium Secundum Type Atrial Septal Defect with a Pulmonary Arterial Thromboembolism Caused an Enlarged Pulmonary Artery, Pulmonary Hypertension and Recurrent Paradoxical Cerebral Embolism due to Deep Vein Thrombosis
Nobusada Funabashi, Chiba Univ Graduate Sch of Med, Chiba, Japan
Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

Abstract Poster Session

APS.801.01 Case Studies: Challenging Hemodynamics and Strange Cardiomyopathies

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

8001 When an Octopus Acts Like a Chameleon: a Case of Takotsubo's Cardiomyopathy with Concurrent Severe Coronary Disease
Troy Leo, Vanderbilt Univ, Nashville, TN
Lisa Mendes, Vanderbilt Univ, Nashville, TN

8002 Pericardial Mass in a Patient With Rheumatoid Arthritis: A Case Report
Mohammad A Al-Ani, Univ of Florida at Gainesville, Gainesville, FL
Matthew D Kosboth, Malcom Randall VA Medical Ctr, Gainesville, FL

8003 Refractory Cardiogenic Shock in a Patient With Hypertrophic Obstructive Cardiomyopathy and Mitral Regurgitation Necessitating Intra-Aortic Balloon Pump Use
Indrajit Mahata, Univ of Illinois, Urbana, IL
Sweta Singh, Cleveland Clinic, Cleveland, OH
**Abstract Poster Session**

**APS.502.01**

**Cell, Tissue Engineering and Gene-Based Therapies I**

**South Hall A2 - Core 5**

Posters Displayed: **9:00 AM - 5:00 PM**

Presenter Available: **9:30 - 11:00 AM**

**BOARD #**

Poster Professor:

T. Reece, Aurora, CO

5081 Paracrine Engineering of Human Cardiac Stem Cells to Over-Express Stromal Cell-Derived Factor $1\alpha$ Enhances Post-Ischemic Cardiac Repair

*Darryl R Davis*, Ottawa Heart Inst, Ottawa, ON, Canada

5082 Over-Expression of Insulin-Like Growth Factor-1 by Human Cardiac Stem Cells Enhances Long-Term Retention of Transplanted Cells While Promoting Salvage of Injured Myocardium

*Robyn Jackson*, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

*Darryl R Davis*, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

5083 Long-Term Biological Pacemaker Activity Created by Percutaneous *TBX18* Gene Transfer

*Yu-Feng Hu*, Cedars-Sinai Heart Inst, Los Angeles, CA

*Eugenio Cingolani*, Cedars-Sinai Heart Inst, Los Angeles, CA

5084 Overexpression of MicroRNA-210 Induces Cardiomyocyte Proliferation Through Inhibition of APC

*Rafeeq PH Ahmed*, Univ of Cincinnati, Cincinnati, OH

5085 Function Follows Form: Shape and Substrate Stiffness Drive Maturity in Human Cardiomyocytes Differentiated From Pluripotent Stem Cells

*Alexandre Ribeiro*, Stanford Univ, Stanford, CA

*Beth L Pruitt*, Stanford Univ, Stanford, CA

5086 A Novel and Efficient Combinatorial Method of Using DNAs and mRNAs to Generate Integration-free Induced Pluripotent Stem Cells and Functional Cardiomyocytes

*Johnson Rajasingh*, Univ of Kansas Medical Ctr, Kansas City, KS

*Buddhadeb Dawn*, Univ of Kansas Medical Ctr, Kansas City, KS

5087 Transplanted Induced Pluripotent Stem Cells-derived Cardiomyocytes Functionally and Structurally Integrates into the Infrac Heart to Induce Reverse LV Remodeling in Experimental Animal Models

*Masaru Ishida*, Osaka Univ, Suita, Japan

*Yoshiki Sawa*, Osaka Univ, Suita, Japan

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**Abstract Poster Session**

**APS.717.01**

**Chronic Ischemic Heart Disease I**

**South Hall A2 - Core 7**

Posters Displayed: **9:00 AM - 5:00 PM**

Presenter Available: **9:30 - 11:00 AM**

**BOARD #**

Poster Professor:

W. Wolfgang Koenig, Ulm, Germany

7428 Clinical Outcomes of Elective Percutaneous Coronary Intervention (PCI) for Stable Angina at Hospital With or Without Onsite Cardiac Surgery Backup

*Tomonori Akasaka*, Kumamoto Univ, Kumamoto, Japan

*Hisao Ogawa*, Kumamoto Univ, Kumamoto, Japan

7429 WITHDRAWN

7430 Prediction of Mitral Regurgitation Progression With Advanced Ischemic Cardiomyopathy - A Multi-Modality Study

*Kenya Kusunose*, Cleveland Clinic, Cleveland, OH

*Deborah H Kwon*, Cleveland Clinic, Cleveland, OH

7431 PCSK9 Inhibitor Alirocumab as Add-on to Atorvastatin versus Other Lipid Treatment Strategies in Patients at High CVD Risk: ODYSSEY OPTIONS I

*Harold Bays*, Louisville Metabolic and Atherosclerosis Res Ctr (L-MARC), Louisville, KY

*Stephen Donahue*, Regeneron Pharmaceuticals, Inc, Tarrytown, NY

7432 Effect of Aging on Human Mesenchymal Stem Cell Therapy in Ischemic Cardiomyopathy Patients

*Samuel Golpanian*, Univ of Miami, Miami, FL

*Joshua M Hare*, Univ of Miami, Miami, FL
Abstract Poster Session

Chronic Ischemic Heart Disease II

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:

Philip Aylward, Adelaide, Australia

7439 Impaired Cortical Pain Processing in Patients With Silent Myocardial Ischemia

Antonino Di Franco, Univ Cattolica del Sacro Cuore, Roma, Italy
Catello Vollono, Univ Cattolica del Sacro Cuore, Roma, Italy

7440 Antianginal Efficacy of Ivabradine in Patients With History of Coronary Revascularization

Ioannis Zarifi, Thessaloniki, Thessaloniki, Greece
Apostolos Katsivas, “Korgialenio-Benakio E.E.S.” General Hosp, Athens, Greece

7441 The Efficacy of Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor Blockers in Patients with Coronary Artery Disease and No Heart Failure in the Modern Statin Era: a Meta-Analysis of Randomized-Controlled Trials

Vu Hoang, Baylor Coll of Med, Houston, TX
Yochai Birnbaum, Baylor Coll of Med, Houston, TX

7442 Long-Term Treatment With Sitagliptin Provides Multiple Antiatherosclerotic Effects Independent of Diabetic Improvement for Type-2 Diabetics With Stable Coronary Artery Disease

Tatsuki Murakami, Fukui Cardiovascular Ctr, Fukui, Japan
Ikuo Moruchi, Fukui Cardiovascular Ctr, Fukui, Japan

7443 Do Two Scoring Systems of Coronary Stenosis, Syntax Score and Gensini Score, Similarly Predict Clinical Outcome After Pci in Patients With Stable Angina Pectoris?

Naoto Murakami, Sapporo Medical Univ, Sapporo, Japan
Tetsuji Miura, Sapporo Medical Univ, Sapporo, Japan

7444 Prognostic Impact of Rho-kinase Activity in Circulating Leukocytes of Patients with Vasospastic Angina

Taro Nihei, Tohoku Univ Graduate Sch of Med, Sendai, Japan
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan

7445 Impact of Fluctuations in Glucose Levels on Vascular Endothelial Dysfunction in Non Diabetes Mellitus (DM) Patients with Coronary Artery Disease (CAD)

Tomonori Akasaka, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

7446 Prognostic Significance of Insulin Treatment and Glucose Control Status on Clinical Cardiovascular Outcomes in Diabetic Patients Who Underwent Elective PCI Using Drug-Eluting Stents

Ayako Kunimura, Chubu-Rosai Hosp, Nagoya, Japan
Toyoaki Murohara, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

7447 A Selective SGLT2 Inhibitor Early Resolutes Metabolic and Arterial Disturbances in Type-2 Diabetics With Coronary Artery Disease

Tatsuki Murakami, Fukui Cardiovascular Ctr, Fukui, Japan
Sumio Mizuno, Fukui Cardiovascular Ctr, Fukui, Japan

7448 Effects of Coffee Consumption on Exercise Tolerance, Blood Pressure, Heart Rate, Heart Rate Variability and Premature Beats in Volunteers with Coronary Artery Disease

Bruno M Mioto, Heart Inst, Univ of São Paulo Medical Sch, São Paulo, Brazil
Luiz A Machado César, Heart Inst, Univ of São Paulo Medical Sch, São Paulo, Brazil
Abstract Poster Session

**APS.211.05 Clinical and Hospital-Based Observational Studies**

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

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<td>2415</td>
<td>Risk of Blood Transfusion(s) With New Oral Anticoagulants for Short-Term Thromboprophylaxis in Hip and Knee Surgery: Insights From a Meta-Analysis of Fifteen Randomized Trials Including 36,176 Patients Parasuram Krishnamoorthy, Englewood Hosp and Medical Ctr, Englewood, NJ Debabrata Mukherjee, Texas Tech Univ, El Paso, TX</td>
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<td>2416</td>
<td>Re-hospitalization Rates Following Stroke and Major Bleeding in Nonvalvular Atrial Fibrillation Patients Gerald V Naccarelli, Pennsylvania State Univ, Hershey, PA Jeremy R Fredell, Express Scripts, Powell, OH</td>
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<td>2417</td>
<td>Symptom Predictors of Delayed ST-Elevation Myocardial Infarction Presentation Maithili Shenoy, Loma Linda Univ, Loma Linda, CA Anthony Hilliard, Loma Linda Univ, Loma Linda, CA</td>
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<td>2418</td>
<td>Patient Demographics, Clinical Characteristics, Medication Utilization, Medical Resource Use and Outcomes Associated with Patients with Symptomatic Peripheral Artery Disease Ross J Simpson Jr., Univ of North Carolina, Chapel Hill, NC</td>
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<td>2419</td>
<td>Impact of Patient Transfers on Outcome Evaluations Following Acute Myocardial Infarction Melissa Pak, Univ of British Columbia, Vancouver, BC, Canada Karin H Humphries, Univ of British Columbia, Vancouver, BC, Canada</td>
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<td>2420</td>
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<td>2421</td>
<td>Epidemiology of Valvular Heart Diseases: A 30-Year Retrospective of Hospitalizations and In-Hospital Mortality in New York State Phyllis G Supino, SUNY Downstate Medical Ctr, Brooklyn, NY Jeffrey S Borier, SUNY Downstate Medical Ctr, Brooklyn, NY</td>
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Abstract Poster Session

**APS.803.01 Clinical Trial Design and Research Methodology**

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

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<td>8061</td>
<td>Prognostically Important Myocardial Infarctions are Markedly Underreported in Patients Undergoing Percutaneous Coronary Intervention: Insights from CHAMPION PHOENIX Kenneth W Mahaffey, Stanford Univ, Stanford, CA Robert A Harrington, Stanford Univ, Stanford, CA</td>
</tr>
<tr>
<td>8062</td>
<td>Clinical Profiles of Chronic Medication Use Among Patients With Non-Valvular Atrial Fibrillation Paul T Kocis, Penn State Coll of Med, Hershey, PA Douglas L Leslie, Penn State Coll of Med, Hershey, PA</td>
</tr>
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</table>
Differences in Journal Impact Factor (IF) Between Initial and Subsequent Publication of Cardiovascular Clinical Trials—An Analysis From the ClinicalTrials.gov Repository
Jasjit Bhinder, St Luke’s Roosevelt Hosp Ctr, New York, NY
Franz H Messerli, St Luke’s Roosevelt Hosp Ctr, New York, NY

Why do Patients Participate in Clinical Trials?
Helena Dellborg, Molecular and Clinical Med, Göteborg, Sweden
Mikael Dellborg, Molecular and Clinical Med, Göteborg, Sweden

Physical Activity Tracking Studies: The Effect of an Entirely Mobile (mHealth) Platform for Data Capture
David I Feldman, Johns Hopkins, Baltimore, MD
Michael J Blaha, Johns Hopkins, Baltimore, MD

Temporal Trends in Sample Size of RCTs in Published Cardiology Literature from 1970-2013
Sonia Jain, Mayo Clinic, Rochester, MN
Arun Subramanian, Mayo Clinic, Rochester, MN

Recruitment Success of the mActive Physical Activity mHealth Trial: Can Convenience Increase Enrollment of Eligible Patients and Women Into RCTs?
Seth S Martin, Johns Hopkins Univ, Baltimore, MD
Michael J Blaha, Johns Hopkins, Baltimore, MD

Are Our Clinical Trials Adequately Powered? an Examination of Randomized Controlled Trial Designs in Cardiovascular Medicine
Rachel Easterwood, Columbia Univ Medical Ctr, New York, NY
Ajay J Kirtane, Columbia Univ Medical Ctr, New York, NY

Coding Variants in Mendelian and Complex Cardiovascular Disease
South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

PCSK9 R46L, Lower LDL and Cardiovascular Disease Risk in Familial Hypercholesterolemia
Alexis Baass, McGill Univ, Montreal, QC, Canada

A lamin A/C Synonymous Mutation Creates a Novel Splice Site and Causes Progressive Atrioventricular Conduction Defect
Kaoru Ito, Harvard Medical Sch, Boston, MA
Christine E Seidman, Harvard Medical Sch, Boston, MA

Genetics of Left Ventricular Noncompaction Cardiomyopathy
Jan Haas, Univ Hosp Heidelberg, Heidelberg, Germany
Benjamin Meder, Univ Hosp Heidelberg, Heidelberg, Germany

Exome Chip Analysis From the CASPER Registry Highlights Potential Genetic Variant Associated With Unexplained Cardiac Arrest
Rafik Tadros, Montreal Heart Inst, Montreal, QC, Canada
Guillaume Lettre, Montreal Heart Inst, Montreal, QC, Canada

Genetic Variants in ABCG5/G8 Are Associated With Primary Hypercholesterolemia
Itziar Lamiquiz-Moneo, Hosp Univiro Miguel Servet, Zaragoza, Spain
Isabel De Castro-Orós, Hosp Univiro Miguel Servet, Zaragoza, Spain

Whole Exome Sequencing and Analysis for Sudden Unexplained Death in the Young: A Case Series
Nupoor Narula, Mayo Clinic, Rochester, MN
Michael J Ackerman, Mayo Clinic, Rochester, MN

Influence of Exonic Variation on Heparin-Induced Thrombocytopenia
Jason H Barnes, Vanderbilt Univ, Nashville, TN
Dan M Roden, Vanderbilt Univ, Nashville, TN

Whole Exome Sequencing in Sudden Infant Death Syndrome Identifies a High Proportion of Putative Pathogenic and Functionally Significant Rare Variants Related to Inherited Cardiac Conditions
Leonie C H Wong, St George’s Univ of London, London, United Kingdom
Elijah R Behr, St George’s Univ of London, London, United Kingdom

Gene-Panel Based Next Generation Sequencing (NGS) Greatly Improves Clinical Genetic Diagnostics in Inherited Cardiomyopathies
Jan D H Jongbloed, Univ Medical Ctr Groningen, Univ of Groningen, Groningen, Netherlands
J Peter van Tintelen, Univ Medical Ctr Groningen, Univ of Groningen, Groningen, Netherlands

Poster Professor:
Jeffrey A Towbin, Cincinnati, OH

Board #
3080
Gene-Panel Based Next Generation Sequencing (NGS) Greatly Improves Clinical Genetic Diagnostics in Inherited Cardiomyopathies
Jan D H Jongbloed, Univ Medical Ctr Groningen, Univ of Groningen, Groningen, Netherlands
J Peter van Tintelen, Univ Medical Ctr Groningen, Univ of Groningen, Groningen, Netherlands
Abstract Poster Session

APS.106.02

Computed Tomography: Coronary Artery Atherosclerosis

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #

Poster Professor:
Chetan Shenoy, Boston, MA

1196 Comparison of Guideline Based Pretest Probability Scores Applied to Patients Undergoing Coronary Computed Angiography - The Partners Registry
Marcio S Bittencourt, Univ Hosp - Univ of São Paulo, São Paulo, Brazil
Ron Blankstein, Brigham and Women’s Hosp, Boston, MA

1197 Prevalence, Characteristics, and Early Treatment Strategies of Patients with Chronic Total Occlusions Undergoing Coronary Computed Tomography Angiography
Joshua Schulman-Marcus, The NewYork-Presbyterian Hosp and the Weill Cornell Medical Coll, New York, NY
James K Min, The NewYork-Presbyterian Hosp and the Weill Cornell Medical Coll, New York, NY

1198 Integration of Quantitative Measures of Stenosis Severity With Morphologic Atherosclerotic Plaque Characteristics Improves Discrimination of Coronary Lesions that Cause Ischemia: Results from a Prospective Multicenter International Trial
Hyung-Bok Park, Myongji Hosp, Goyang, Republic of Korea
James K Min, NewYork-Presbyterian Hosp and the Weill Cornell Medical Coll, New York, NY

1199 Coronary Artery Calcification is the Strongest Predictor of Abnormal Duke Prognostic Coronary Artery Disease Index
Aman M Shah, Montefiore Medical Ctr-Albert Einstein Coll of Med, Bronx, NY
Mario Garcia, Montefiore Medical Ctr-Albert Einstein Coll of Med, Bronx, NY

1200 Value of Quantitative Atherosclerotic Plaque Assessment Using CCTA to Predict Lesion-specific Ischemia, Data from 407 Coronary Lesions
Ran Heo, Severance Cardiovascular Hosp, Seoul, Republic of Korea
James K Min, Weill Cornell Medical Coll, New York, NY

Glycemic Status and Coronary Atherosclerosis in Asymptomatics: Evaluation by Coronary CT Angiography
Soo Jin Na, Catholic Univ of Medical Coll, Seoul, Republic of Korea
Kiyuk Chang, Catholic Univ of Medical Coll, Seoul, Republic of Korea

Obesity With and Without Metabolic Syndrome - Association With Coronary Artery Disease and Adverse Cardiovascular Outcomes
Edward Hulten, Walter Reed Natl Military Medical Ctr, Bethesda, MD
Ron Blankstein, Brigham and Women’s Hosp, Boston, MA

Quantitative Coronary CT Angiography Demonstrates Increased Total Burden and Non-Calcified Plaque in Psoriasis
Nehal N Mehta, Natl Heart, Lung and Blood Inst, Bethesda, MD
David A Bluemke, Natl Heart, Lung and Blood Inst, Bethesda, MD

Statin Intake is Associated with Progression of Coronary Artery Calcium Despite Lowering Risk for Coronary Events - The Heinz Nixdorf Recall Study
Iryna Dykun, West-German Heart Ctr, Univ of Duisburg-Essen, Essen, Germany
Amir A Mahabadi, West-German Heart Ctr, Univ of Duisburg-Essen, Essen, Germany

When Should Statin Therapy in Patients with Early Coronary Artery Disease Begin?: Results from the CONFIRM (CORonary CT Angiography Evaluation for Clinical Outcomes: An InTeRnational Multicenter) Registry
Yun-Kyeong Cho, Keimyung university, Daegu, Republic of Korea
Heidi Gransar, Cedars-Sinai Medical Ctr, Los Angeles, CA

Abstract Poster Session

APS.106.03

Computed Tomography: Coronary Artery Calcium and Fat

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Sarah Rinehart, Atlanta, GA

1201 The Influence of Tube Voltage and Heart Rate on Agatston Calcium Score Measurement Using an in Vitro, a Novel ECG Gated Dual Energy Reconstruction CT Technique
Nobusada Funabashi, Chiba Univ Graduate Sch of Med, Chiba, Japan
Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan
Coronary Artery Calcium Score of Zero Predicts Lower All-Cause Mortality Over a Long-Term Follow-Up
Joseph T Knapper, Emory Univ, Atlanta, GA
Leslee J Shaw, Emory Univ, Atlanta, GA

Incidence of New Coronary Calcification: What is the Warranty Period of CAC = 0 in the Multi-Ethnic Study of Atherosclerosis?
Dhaval Desai, Johns Hopkins Hosp, Baltimore, MD
Michael Blaha, Johns Hopkins Hosp, Baltimore, MD

Spotty Calcifications in Coronary Arteries - What Does it Reflect?
Eirild Espeseth, Inst of Clinical Med, 8200 Aarhus N, Denmark

The Ratio of Visceral to Subcutaneous Fat Area is a Sensitive Predictor of Negative Coronary Artery Calcium Score
Shinji Imura, Hyogo Prefectural Amagasaki Hosp, Hyogo, Japan
Yukiho Satou, Hyogo Prefectural Amagasaki Hosp, Hyogo, Japan

The Mechanistic Link Between Interaltrial Adiposity, Morphological Left Atrial Remodeling and Functional Features in Asymptomatic Population
Yau-Huei Lai, Mackay Memorial Hosp, Taipei, Taiwan
Chung-Lieh Hung, Mackay Memorial Hosp, Taipei, Taiwan

Persistent Epicardial Adipose Tissue Accumulation Contributes Coronary Plaque Vulnerability and Future Acute Coronary Syndrome in Non-obese, Coronary Artery Disease Patients
Koki Nakanishi, Baba Memorial Hosp, Sakai, Japan
Minoru Yoshiyama, Osaka City Univ Graduate Sch of Med, Osaka, Japan

Augmented Inflammation in Pericoronary Adipose Tissue in Patients with Advanced Coronary Artery Disease
Koki Nakanishi, Baba Memorial Hosp, Sakai, Japan
Minoru Yoshiyama, Osaka City Univ Graduate Sch of Med, Osaka, Japan

Differential Contributions of Abdominal Visceral Fat and Epicardial Fat to Coronary Atherosclerosis in Non-Obese Japanese Patients
Ken Harada, Chubu Rosai Hosp, Nagoya, Japan
Toyoaki Murohara, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

Intra-Hepatic Fat Assessed on Cardiac CT Examinations Is Associated With Arterial Stiffness in a High Risk Population Independent of the Cardiometabolic Risks: The Baptist Employee Healthy Heart Study
Ebenzer T Oni, Brooklyn Hosp Ctr, Brooklyn, NY
Khurram Nasir, Ctr for Prevention and Wellness Res, Miami, FL

Coronary Artery Interventions: Techniques, Patients and Outcomes

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Thomas T Tsai, Denver, CO

Sex Differences in Mortality in Women and Men with Obstructive Coronary Artery Disease and Acute Coronary Syndrome
Edina Cenko, Univ of Bologna, Bologna, Italy
Raffaele Bugiardini, Univ of Bologna, Bologna, Italy

Predictors of High Operator Radiation Exposure During Cardiac Catheterization: Insights From the Radicure (Radiation Reduction During Cardiac Catheterization Using Real-time Monitoring) Study
Georgios Christopoulos, VA North Texas Health Care System and UT Southwestern Medical Ctr, Dallas, TX
Emmanouil S Brilakis, VA North Texas Health Care System and UT Southwestern Medical Ctr, Dallas, TX

Relationship Between Appropriateness of Elective Coronary Angiography and Diagnostic Yield for Obstructive Coronary Artery Disease
Michael M Mohareb, Sunnybrook Health Sciences Ctr, Univ of Toronto, Toronto, ON, Canada
Harindra C Wijeysundera, Sunnybrook Health Sciences Ctr, Univ of Toronto, Toronto, ON, Canada

Impact of AHA/ACC Coronary Artery Bypass Grafting and Percutaneous Coronary Intervention Guidelines on Real-world Treatment Strategies for Complex Coronary Artery Disease
Chenfei Rao, Fuwai Hosp, Beijing, China
Heng Zhang, Fuwai Hosp, Beijing, China

Impact of Hospital and Socio-demographic Factors on Utilization of Drug-eluting Stents in Medicare Patients: Bringing Clarity to Disparity
Tushar A Tuliani, Wayne State Univ-Detroit Medical Ctr, Detroit, MI
Anthony Hilliard, Loma Linda Univ Medical Ctr, Loma Linda, CA

Appropriateness of Coronary Interventions for Chronic Total Occlusion in Japan based on the U.S. Appropriateness Use Criteria
Taku Inohara, Keio Univ, Tokyo, Japan
Keichi Fukuda, Keio Univ, Tokyo, Japan
Abstract Poster Session

Costs of Cardiovascular Healthcare Delivery: Unique Views of Contemporary Issues

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Edward Havranek, Denver, CO

2610 The Most Expensive Patients in the Hospital
Karen E Joyce, Brigham And Womens Hospital, Boston, MA
Ziad Obermeyer, Brigham And Womens Hospital, Boston, MA

2611 Real-World Cost of All-Cause Hospitalizations Over a 12-Month Period After Acute Venous Thromboembolism
Jeffrey Trocia, Pfizer Inc, New York, NY
John Graham, Bristol-Myers Squibb, Plainsboro, NJ

2612 Closing the Cardiac Intensive Care Unit: Cost-Savings Associated with a “Closed” versus “Open” Model of Critical Care Delivery
Arun K Das, Johns Hopkins Univ Sch of Med, Baltimore, MD
Jason N Katz, Univ of North Carolina, Chapel Hill, NC

2613 Work Absenteeism, Short Term Disability and Related Indirect Costs Associated with Cardiovascular Events and Related Clinical Procedures
Ruben GW Quek, Amgen Inc., Thousand Oaks, CA
Ze Cong, Amgen Inc., Thousand Oaks, CA

2614 Direct Medical Expenditures and Healthcare Utilization Associated With Resistant Hypertension in the United States
Steven M Smith, Univ of Florida, Gainesville, FL
Anne Libby, Univ of Colorado, Aurora, CO

2615 Evaluation of Medical Costs Avoided When New Oral Anticoagulants Are Used for Extended Treatment of Venous Thromboembolism Based on Clinical Trial Results
Alpesh Almin, Univ of California, Irvine, Irvine, CA
John Graham, Bristol-Myers Squibb, Plainsboro, NJ

2616 Cost-effectiveness of Apixaban Against Dabigatran and Rivaroxaban for Stroke Prevention in Non-valvular Atrial Fibrillation Patients
Gregory Y H Lip, Univ of Birmingham, Birmingham, United Kingdom
Paul Dorian, Univ of Toronto, Toronto, ON, Canada

2617 Clinical and Economic Burden of Rheumatic Heart Disease in Low-Income Nations: Estimating the Cost-of-Illness in India and Uganda
Alexander T Sandhu, Stanford Univ, Palo Alto, CA
Dhruv S Kazi, Univ of California San Francisco, San Francisco, CA

2618 Identifying Clinically Inaccurate Conversions From ICD-9 to ICD-10 in Cardiology Clinical Practice
Satish J Chacko, Univ of Illinois at Chicago, Chicago, IL
Andrew Boyd, Univ of Illinois at Chicago, Chicago, IL

2619 Comparison of National Cardiovascular Data Registry to an Administrative Database
John B Kostis, Rutgers Robert Wood Johnson Medical Sch, New Brunswick, NJ
Study Group For the Myocardial Infarction Data Acquisition System (MIDAS)
Abstract Poster Session

APS.303.03
Cutting Edge Genomic Approaches Applied to Cardiovascular Disease

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #

Poster Professor:
Manuel Mayr, London, United Kingdom

3070
The Genesips Project: an NHLBI-Sponsored induced Pluripotent Stem Cell (iPSC) Resource for the Study of Cardiovascular Diseases
Ivan Carcamo-Orive, Stanford Univ, Stanford, CA
Thomas Quertermous, Stanford Univ, Stanford, CA

3071
WITHDRAWN

3072
A Novel Aptamer-based Proteomic Technology for Cardiac Biomarker Discovery
Debby Ngo, Massachusetts General Hosp, Boston, MA
Robert E Gerszten, Massachusetts General Hosp, Boston, MA

3073
Non-Targeted Metabolomic Profiling Identifies Novel Markers of Insulin Resistance
John F O'Sullivan, Massachusetts General Hosp, Boston, MA
Robert E Gerszten, Massachusetts General Hosp, Boston, MA

3074
Transcriptomic Profiling of Isogenic PBMC-derived and iPSC-derived Macrophages and Their Polarization
Hanrui Zhang, Univ of Pennsylvania, Philadelphia, PA
Muredach P Reilly, Univ of Pennsylvania, Philadelphia, PA

3075
Profiling of Circulating MicroRNAs After Heart Transplantation and During Acute Cellular and Antibody-Mediated Rejection
Raymond Givens, Columbia Univ, New York, NY
P Christian Schulze, Columbia Univ, New York, NY

3076
Myocardial Long Non-coding RNA Expression Exhibits Chamber- and Disease-Specific Signatures in Human Right Ventricle
Kai-Chien Yang, Natl Taiwan Univ, Taipei, Taiwan
Thomas G Di Salvo, Vanderbilt Univ Sch of Med, Nashville, TN

3077
Identification of Stromal Interaction Molecule 1 Complexes in Cardiac Hypertrophy
Ahyoung Lee, Icahn Sch of Med at Mount Sinai, New York, NY
Jean-Sébastien Hulot, Icahn Sch of Med at Mount Sinai, New York, NY

Abstract Poster Session

APS.210.01
Diabetes Mellitus and CVD: Prevention and Management I

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #

Poster Professor:
Judith Regensteiner, Denver, CO

2314
Association of Unrecognized Myocardial Infarctions With Impaired Fasting Glucose in the Multi-Ethnic Study of Atherosclerosis
Richard B Stacey, Wake Forest Univ Sch of Med, Winston Salem, NC
Alain G Bertoni, Wake Forest Univ Sch of Med, Winston Salem, NC

2315
Differential Responses of Atheroma Progression to Blood Pressure Lowering in Patients with and without Diabetes
Yu Kataoka, South Australian Health & Medical Res Inst, Adelaide, Australia
Stephen J Nicholls, South Australian Health & Medical Res Inst, Adelaide, Australia

2316
Obese Girls With PCOS Have Evidence of Vascular Stiffening and Left Ventricular Hypertrophy Which Relate to Insulin Resistance
Melanie Cree-Green, Univ of Colorado, Anshutz, Aurora, CO
Kristen J Nadeau, Univ of Colorado, Anshutz, Aurora, CO

2317
Left Ventricular Diastolic Function Assessed by Echocardiography and Tissue Doppler Imaging is a Strong Predictor of Cardiovascular Events in Patients With Diabetes Mellitus Type 2
Peter Blomstrand, Jonkoping university, Jonkoping, Sweden
Jan E Engvall, Linkoping university, Linkoping, Sweden

2318
Relation Between Endothelial Function and Exercise-induced Myocardial Ischemia in Type 2 Diabetic Patients
Gaetano A Lanza, Univ Cattolica Sacro Cuore, Roma, Italy
Filippo Crea, Univ Cattolica Sacro Cuore, Roma, Italy
2319 Impact of Insulin Resistance on Left Ventricular Remodeling in Patients With a First-Time ST Elevation Acute Myocardial Infarction Without Overt Diabetes Mellitus Noriaki Iwahashi, Yokohama City Univ, Yokohama, Japan Kazuo Kimura, Yokohama City Univ, Yokohama, Japan


2321 Presentation Symptoms and Outcomes in Diabetic Patients With Acute Coronary Syndromes: Insights From the Second Gulf Registry of Acute Coronary Events Amar M Malam, Hamad Medical Corp & Weil Cornell Medical Coll-Qatar, Doha, Qatar (Gulf RACE-2) Investigators The Second Gulf Registry of Acute Coronary Events

2322 HDL-Induced Cholesterol Efflux Capacity From Niacin Therapy in Diabetes is Haptoglobin Genotype-Dependent Rabea Asleh, Technion Faculty of Med, Haifa, Israel Andrew P Levy, Technion Faculty of Med, Haifa, Israel

2323 Insulin Resistance Expressed by Homa2 Predicts Risk for Recurrent Coronary Events in Post Infarction Patients Barbara Szepietowska, Univ of Rochester, Medical Ctr, Heart Research Follow-up Program, NY Wojciech Zareba, Univ of Rochester, Medical Ctr, Heart Research Follow-up Program, NY

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**Abstract Poster Session**

**APS.212.06**

**ECG Markers of CVD Risk I**

**South Hall A2 - Core 2**

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Alan Maisel, Solana Beach, CA

**2525 Healthy Lifestyle and Heart Rate Variability in the General Population**

Stefanie Aeschbacher, Univ hospital Basel, Basel, Switzerland

David Conen, Univ hospital Basel, Basel, Switzerland

**2526 WITHDRAWN**

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**2527 Incidence Rates and Risk Factors for Sudden Unexpected Non-Cardiac Death in the Young - A Nationwide Cohort Study in Denmark**

Bjarke Risgaard, Rigshospitalet, Copenhagen, Denmark

Jacob Tfelt-Hansen, Rigshospitalet, Copenhagen, Denmark

**2528 Influence of Resting Heart Rate and Changes in Resting Heart Rate on Cardiovascular Outcomes From the Atherosclerosis Risk in Communities Study**

Ali Vazir, Royal Brompton Hosp, London, United Kingdom

Scott D Solomon, Brigham and Women's Hosp, Boston, MA

**2529 Appropriate Qt Correction Could Limit Unnecessary Avoidance of Drugs With a Risk of Tdp in Clinical Practice**

Bert Vandenberk, Univ of Leuven, Leuven, Belgium

Rik Willems, Univ of Leuven, Leuven, Belgium

**2530 Contribution of Medications and Risk Factors to QT Interval Lengthening in the Atherosclerosis Risk in Communities (ARIC) Study**

Khalid A Alburikan, Univeristy of North Carolina, Chapel Hill, NC

Jo E Rodgers, Univeristy of North Carolina, Chapel Hill, NC

**2531 A Prognostic Study of the J wave Patterns on the Resting Electrocardiogram in Ambulatory Patients**

Vedant S Pargaonkar, Stanford Univ Sch of Med, Stanford, CA

Victor F Froelicher, Stanford Univ Sch of Med, VA Palo Alto Health Care System, Palo Alto, CA

**2532 The Prognostic Value of Automatically Detected Early Repolarization - A Focus on Hispanics**

Philip Aagaard, Montefiore Medical Ctr, The Univ Hosp of Albert Einstein Coll of Med, Bronx, NY

**2533 Evolving Standards for Athlete ECG Interpretation Result in Declining Abnormal Rates**

Joseph C Marek, Advocate Medical Group, Downers Grove, IL

Frank Zimmerman, Advocate Medical Group, Oak Lawn, IL

**2534 Incidence and Etiology of Sudden Cardiac Death in NCAA Athletes: 10 - Year Data**

Irfan Asif, Univ of South Carolina Greenville, Greenville, SC

Jonathan A Drezner, Univ of Washington, Seattle, WA
Echocardiography: Evaluation of LV Function—Role of Strain Imaging

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

1041 Post-systolic Shortening and Early Systolic Lengthening in the Ischemic Segment are Affected by the Contractility in its Adjacent Segment
Daisuke Sakurai, Osaka Univ Graduate Sch of Med, Osaka, Japan
Satoshi Nakatani, Osaka Univ Graduate Sch of Med, Osaka, Japan

1042 Noninvasive Assessment of Left Ventricular Diastolic Function in Hypertension by Novel One-Beat Real-Time Three-Dimensional Speckle Tracking Echocardiography With High Volume Rates
Masanori Kawasaki, Gifu Univ Graduate Sch of Med, Gifu, Japan
Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan

1043 Tissue Mitral Annular Displacement (TMAD) Predicts Long-term Prognosis in Heart Failure Patients Receiving Cardiac Resynchronization Therapy
Katsuomi Iwakura, Sakurabashi Watanabe Hosp, Osaka, Japan
Kenshi Fuji, Sakurabashi Watanabe Hosp, Osaka, Japan

1044 Myocardial Strain Predicts Adverse Cardiac Events in Patients Treated with Anthracyclines
Mohammed T Ali, Massachusetts General Hosp, Boston, MA
Marielle Scherrer-Crosbie, Massachusetts General Hosp, Boston, MA

1045 Calibration and Feedback of Speckle Strain Measurement Improves Segmental Strain Concordance
Tomoko Negishi, Menzies Res Inst Tasmania, Hobart, Australia
Strain sUrveillance during Chemotherapy for improving Cardiovascular Outcomes (SUCCOUR study)

1046 Combination of Global Longitudinal Strain and Sympathetic Nervous Dysfunction Predicts Cardiac Events in Patients With Non-Ischemic Dilated Cardiomyopathy
Misato Chimura, Himeji Cardiovascular Ctr, Himeji, Japan
Yoshinori Yasaka, Himeji Cardiovascular Ctr, Himeji, Japan
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<td>1002</td>
<td>DWS as an Index of Myocardial Stiffness and a Predictor of Heart Failure Outcome in Patients with Chronic Beta-blockade Therapy</td>
<td>Yuko Soyama, Hyogo Coll of Med, Nishinomiya, Japan&lt;br&gt;Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan</td>
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<tr>
<td>1003</td>
<td>Prediction of Risk for Cardiovascular Events in Patients with Preserved Left Ventricular Ejection Fraction: Incremental Value of Diastolic Wall Strain</td>
<td>Satoshi Tsujimoto, Kansai Medical Univ, Hirakata, Japan&lt;br&gt;Ichiro Shiojima, Kansai Medical Univ, Hirakata, Japan</td>
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<tr>
<td>1004</td>
<td>Propagation Velocity of Early Diastolic Filling Flow is a Superior Parameter for Assessing Exercise Tolerance</td>
<td>Shohei Kikuchi, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan&lt;br&gt;Ohno Nobuyuki, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan</td>
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<tr>
<td>1005</td>
<td>“Reverse McConnell’s Sign”: A Unique Right Ventricular Mechanical and Functional Feature in Tako-Tsubo Cardiomyopathy</td>
<td>Avneet Singh, SUNY Upstate Medical Univ, Syracuse, NY&lt;br&gt;Kan Liu, SUNY Upstate Medical Univ, Syracuse, NY</td>
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<td>1006</td>
<td>Accelerated Diastolic Dysfunction in Premenopausal Women with Rheumatoid Arthritis</td>
<td>Yune-jung Park, St.Vincent’s Hosp, Suwon, Republic of Korea&lt;br&gt;Chul-Min Kim, St.Vincent’s Hosp, Suwon, Republic of Korea</td>
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<td>1007</td>
<td>The Cardiac Time Intervals Measured by Tissue Doppler Imaging M-mode: The Association with Hypertension, Left Ventricular Geometry and the Usefulness in Predicting Hypertension Related Diseases</td>
<td>Tor Biering-Sørensen, Gentofte Univ Hosp, Copenhagen, Denmark&lt;br&gt;Jan Skov Jensen, Gentofte Univ Hosp, Copenhagen, Denmark</td>
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<td>1008</td>
<td>Impact of Carotid Artery Pulsatility on Left Ventricular Diastolic Function in Patients With Subclinical Coronary Risk Factors</td>
<td>Ki-Hyun Kim, Gangnam Severance Hosp, Seoul, Republic of Korea&lt;br&gt;Eui-Young Choi, Gangnam Severance Hosp, Seoul, Republic of Korea</td>
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<td>1009</td>
<td>The Effect of Right Ventricular Pacing on Right Ventricular Function and Tricuspid Regurgitation in Right Ventricular Apical Pacing vs Non-apical Pacing</td>
<td>Makoto Saito, Menzies Res Inst Tasmania, Hobart, Australia&lt;br&gt;Thomas H Marwick, Menzies Res Inst Tasmania, Hobart, Australia</td>
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<tr>
<td>1010</td>
<td>High dose Vitamin D Supplementation Attenuates Left Atrial Enlargement in African American Men with Hypovitaminosis D and Dysglycemia: Results of the D-Vitamin Intervention in Veteran Administration (DIVA) Randomized Controlled Trial</td>
<td>Sunil Pawwa, Univ of Illinois at Chicago, Chicago, IL&lt;br&gt;Elena Barengolts, Univ of Illinois at Chicago, Chicago, IL</td>
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**Abstract Poster Session**

**Electrophysiology and Interventional Cardiology in Pediatric and Congenital Heart Disease**

South Hall A2 - Core 3<br>Posters Displayed: 9:00 AM - 5:00 PM<br>Presenter Available: 9:30 - 11:00 AM

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<th>Poster Professor:</th>
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<td>3100</td>
<td>Poster Professor:</td>
<td>An MYH7 Mutation Causes Inherited Left Ventricular Noncompaction and Sudden Death in a Large Multigenerational Family</td>
<td>Gina M Morgan, Univ of Iowa, Iowa City, IA&lt;br&gt;Barry London, Univ of Iowa, Iowa City, IA</td>
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<td>3101</td>
<td>Poster Professor:</td>
<td>Pre-Superior Cavopulmonary Anastomosis Cardiac Catheterization at Altitude</td>
<td>Michael V Di Maria, Children’s Hosp Colorado, Univ of Colorado Sch of Med, Aurora, CO&lt;br&gt;Adel K Younoszal, Children’s Hosp Colorado, Univ of Colorado Sch of Med, Aurora, CO</td>
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<tr>
<td>3102</td>
<td>Poster Professor:</td>
<td>Severe Pulmonary Insufficiency is Common &gt; 10 Years Following Balloon Pulmonary Valvuloplasty for Isolated Pulmonary Valve Stenosis</td>
<td>Rajiv Devanondal, Univ of Michigan, Ann Arbor, MI&lt;br&gt;Aimee Armstrong, Univ of Michigan, Ann Arbor, MI</td>
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<tr>
<td>3103</td>
<td>Poster Professor:</td>
<td>Recurrence of Atrial Arrhythmias Following Ablation in Adults With Congenital Heart Disease: New Substrate Formation or Late Procedural Failure?</td>
<td>Jacqueline Shuplock, Vanderbilt Univ Medical Ctr, Nashville, TN&lt;br&gt;Frank A Fish, Vanderbilt Univ Medical Ctr, Nashville, TN</td>
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Abstract Poster Session

Emerging Imaging Markers to Improve Risk Prediction and Management of CAD

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Todd D Miller, Rochester, MN

1166 Visceral Fat Metabolic Activity is Independently Associated With Coronary Artery Inflammation in Patients With Impaired Glucose Intolerance or Type 2 Diabetes
Sachiyo Igata, Kurume Univ, Kurume, Japan
Yoshihiro Fukumoto, Kurume Univ, Kurume, Japan

1167 WITHDRAWN

1168 Vascular Inflammation Evaluated by 18F-Fluorodeoxyglucose-Positron Emission Tomography/Computed Tomography is Associated With Endothelial Dysfunction
Akihiro Honda, Kurume Univ, Kurume Fukuoka, Japan
Yoshihiro Fukumoto, Kurume Univ, Kurume Fukuoka, Japan
### Abstract Poster Session

#### APS.207.01
**Exercise, Physical Activity and Rehabilitation I**

**South Hall A2 - Core 2**  
**Posters Displayed:** 9:00 AM - 5:00 PM  
**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**  
Paul Thompson, Hartford, CT

1. **Validity of Smartphone Pedometer Apps as a Tool to Monitor Physical Activity Remotely**  
   Gustavo G Fontana, Univ of Oklahoma, Norman, OK  
   Ana I Casanegra, Univ of Oklahoma, Oklahoma City, OK

2. **Relationship between Aerobic Fitness and Arterial Stiffness According to Hypertensive State**  
   Jidong Sung, Sungkyunkwan Univ Sch of Med, Seoul, Republic of Korea  
   Kyong Pyo Hong, Sungkyunkwan Univ Sch of Med, Seoul, Republic of Korea

**2199**  
**2200**  
**2201**  
**2202**  
**2203**  
**2204**  
**2205**  
**2206**

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### Abstract Poster Session

#### APS.207.06
**Exercise, Physical Activity and Rehabilitation II**

**South Hall A2 - Core 2**  
**Posters Displayed:** 9:00 AM - 5:00 PM  
**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**  
Marie-France Hivert, Boston, MA

1. **Diagnostic Accuracy of a Smartphone based Six-Minute Walk Test**  
   Gabriel C Brooks, UCSF, San Francisco, CA  
   Jeffrey E Olgin, UCSF, San Francisco, CA

   Clinton A Brawner, Henry Ford Hosp, Detroit, MI  
   Steven J Keteyian, Henry Ford Hosp, Detroit, MI

3. **An Algorithm to Guide Prognosis Based on the Combination of Peak VO2 and VE-VCO2 slope in Patients with HFrEF: The Henry Ford HospITal CardioPulmonary EXercise Testing (FIT-CPX) Project**  
   Clinton A Brawner, Henry Ford Hosp, Detroit, MI  
   Steven J Keteyian, Henry Ford Hosp, Detroit, MI

4. **Circulating miR-146a Shows Positive Correlation with Arterial Stiffness and Negative Correlation with Aerobic Exercise Capacity Among Healthy Adults**  
   Amir Rezvan, Emory Univ, Atlanta, GA  
   Charles D Searles, Emory Univ, Atlanta, GA

5. **Exercise Training in Patients with Heart Failure and Preserved Ejection Fraction: A Meta-analysis of Randomized Control Trials**  
   Ambarish Pandey, Univ of Texas Southwestern Medical Ctr, Dallas, TX  
   Jarett Berry, Univ of Texas Southwestern Medical Ctr, Dallas, TX

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**Sunday, November 16 • Chicago, Illinois**

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
2249  Exercise in Heart Failure and Patterns of Inflammation and Myocardial Stress Over Time
   Ruth M Masterson Creber, Univ of Pennsylvania, Philadelphia, PA
   Barbara Riegel, Univ of Pennsylvania, Philadelphia, PA

2250  Association of Elevated Blood Glucose Level at Admission in Patients With Acute Decompensated Heart Failure and Long-Term Mortality
   Sharma Kattel, Juntendo Univ Sch of Med, Tokyo, Japan
   Hiroyuki Daida, Juntendo Univ Sch of Med, Tokyo, Japan

2251  Intensive Glycemic Control in Patients With Acute Coronary Syndrome: Evidence From a Meta-Analysis
   Partha Sardar, Texas Tech Univ Health Sciences Ctr, El Paso, TX
   Darren K McGuire, Univ of Texas Southwestern Medical Ctr, Dallas, TX

2252  The Blood Glucose Concentration at Hospitalization is a Significant Predictor of In-Hospital Death in the Patients With Non-Diabetic Acute Decompensated Heart Failure
   Shin Kawasoe, Kagoshima Univ, Kagoshima, Japan
   Mitsuru Ohishi, Kagoshima Univ, Kagoshima, Japan

2253  Insulin Treated Patients With Diabetes Derive Reduction in Mortality From Cardiac Resynchronization Therapy - Results From the Madit-Crt in Trial Experience
   Barbara Szepietowska, Heart Res Follow-up Program, Rochester, NY
   Wojciech Zareba, Heart Res Follow-up Program, Rochester, NY

Abstract Poster Session

Experimental Myocardial Infarction I

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Robert A Kloner, Los Angeles, CA

7274  Sirt7 Regulates Tgfβ Signaling by Modulating Autophagy
   Satoshi Araki, Kumamoto Univ, Kumamoto, Japan
   Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

7275  Porphophromonas Gingivalis, a Potent Periodontal Pathogen, Induces Cardiac Rupture After Myocardial Infarction in Mice
   Yuka Shiheido, Tokyo Medical and Dental Univ, Tokyo, Japan
   Mitsuaki Isobe, Tokyo Medical and Dental Univ, Tokyo, Japan

7276  Investigation of Myocardial Birefringence using Polarization-Sensitive Optical Coherence Tomography in a Mouse Model of Myocardial Infarction
   Sun-Joo Jang, Korea Advanced Inst of Science and Technology, Daejeon, Republic of Korea
   Wang-Yu Ho, Korea Advanced Inst of Science and Technology, Daejeon, Republic of Korea

7277  Genetic Deletion of Interleukin-6 Attenuates Left Ventricular Dysfunction and Remodeling After a Reperfused Myocardial Infarction
   Anweshan Samanta, Univ of Kansas Medical Ctr, Kansas City, KS
   Buddhadeb Dawn, Univ of Kansas Medical Ctr, Kansas City, KS

7278  Necrostatin 7 Limits Myocardial Infarct Size and Reduces Cardiac Remodeling After Permanent Coronary Occlusion in Rats
   Yuri Dmitriev, Federal Almazov Medical Res Ctr, Saint-Petersburg, Russian Federation
   Michael Galagudza, Federal Almazov Medical Res Ctr, Saint-Petersburg, Russian Federation

7279  Reduction of Scar Tissue after GHRH-Agonist Treatment in a Swine Model of Subacute Ischemic Cardiomyopathy
   Luiza Lima Bagno, Univ of Miami, Miami, FL
   Joshua M Hare, Univ of Miami, Miami, FL

7280  Short-term Melatonin Treatment Protects the Hearts of Obese Rats Independent of Changes in Body Weight and Visceral Fat Mass
   Amanda Lochner, Univ of Stellenbosch, Tygerberg, South Africa
   Frederic Nduhirabandi, Univ of Cape Town, Rondebosch, South Africa

7281  The Matricellular Protein CCN2/CTGF Attenuates Ventricular Remodeling by Enhancing Scar Healing after Myocardial Infarction
   Ole J Kaasboell, Oslo Univ Hosp, Oslo, Norway
   Håvard Attramadal, Oslo Univ Hosp, Oslo, Norway

7282  Implications of Invasively Measured Coronary Flow Reserve on Infarct Size Directly Following Reperfusion After Acute Myocardial Infarction in Both Humans and an Experimental Pig Model
   Guus de Waard, VU Univ Medical Ctr, Amsterdam, Netherlands
   Niels van Royen, VU Univ Medical Ctr, Amsterdam, Netherlands
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<td>7283</td>
<td>Jonathan Leor, Tel-Hashomer, Israel</td>
<td>Experimental Myocardial Infarction II</td>
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<td>Maike Christina Knorr, Univ Mainz, Mainz, Germany Philip Wenzel, Univ Mainz, Mainz, Germany</td>
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<td>7284</td>
<td>Post Infarction Survival and Cardiac Remodeling in a Murine Model of Myocardial Infarction Depends on the Interplay of Interferon Gamma, Neutrophils and Inflammatory Monocytes</td>
<td>Unique Therapeutic Effect of Statin Nanoparticle-Loaded Adipose-Derived Stem Cells on Myocardial Infarction</td>
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<td>Yo Yoko Yama, Osaka Medical Coll, Takatsuki, Japan Michio Asahi, Osaka Medical Coll, Takatsuki, Japan</td>
<td>Ryo Yokoyama, Osaka Medical Coll, Takatsuki, Japan</td>
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<tr>
<td>7285</td>
<td>Post Infarction Survival and Cardiac Remodeling in a Murine Model of Myocardial Infarction Depends on the Interplay of Interferon Gamma, Neutrophils and Inflammatory Monocytes</td>
<td>Thymosin Beta-4-Treated Endothelial Progenitor Cells Improve Cardiac Function and Vasculogenesis in Diabetic Obese Rats with Myocardial Infarction</td>
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<td>Poay Sian Sabrina Lee, Natl Univ Heart Ctr, Singapore, Singapore Kian Keong Poh, Natl Univ Heart Ctr, Singapore, Singapore</td>
<td>Ryo Yokoyama, Osaka Medical Coll, Takatsuki, Japan</td>
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<td>7286</td>
<td>Post Infarction Survival and Cardiac Remodeling in a Murine Model of Myocardial Infarction Depends on the Interplay of Interferon Gamma, Neutrophils and Inflammatory Monocytes</td>
<td>Transplantation of Human Umbilical Cord Blood Mononuclear Cells Improves LV function and Remodeling After a reperfused Myocardial Infarction</td>
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<td>Kashyap Choksi, Univ of Kansas Medical Ctr, Kansas City, KS Buddhadeb Dawn, Univ of Kansas Medical Ctr, Kansas City, KS</td>
<td>Kashyap Choksi, Univ of Kansas Medical Ctr, Kansas City, KS Buddhadeb Dawn, Univ of Kansas Medical Ctr, Kansas City, KS</td>
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**Abstract Poster Session**

**Experimental Myocardial Infarction II**

**South Hall A2 - Core 7**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

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**Abstract Poster Session**

**Growth Factors, Cytokines, Signal Transduction I**

**South Hall A2 - Core 7**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

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**Poster Professor:**

**7308** Mei-Zhen Cui, Knoxville, TN

**Intramyocardial Gene Therapy With a Novel Angiogenic Molecule, Pellino-1 Preserves Functions and Increases Cell Survivability in a Mouse Myocardial Infarction Model**

Vladimir Coca-Soliz, Univ of Connecticut Health Ctr, Farmington, CT

Nilanjana Maulik, Univ of Connecticut Health Ctr, Farmington, CT

**7309** Laminar Flow and Klf2 Regulate the Paracrine Activity of Endothelial Cells by Modulating the Balance of Cxcr4 versus Cxcr7 Expression

Yosif Manavski, Cardiovascular Regeneration, Frankfurt, Germany

Stefanie Dimmel, Cardiovascular Regeneration, Frankfurt, Germany

**7310** E2F1 Suppresses Fibrosis Through Serine-threonine Kinase Receptor Associated Protein (Strap)

Dauren Biyashkev, Northwestern Univ, Chicago, IL

Gangjian Qin, Northwestern Univ, Chicago, IL

**7311** Exosomes Mediate Heat Shock Protein 27 Athero-Protective Signalling

Edward R O'Brien, Libin Cardiovascular Inst of Alberta / Univ of Calgary, Calgary, AB, Canada

**7312** MiR-193-3p is Regulated by 4F via Retinoid X Receptor Alpha (RXR-α) and Its Gain Attenuates Proliferation of Pulmonary Artery Smooth Muscle Cells From Pulmonary Arterial Hypertension Patients

Sall Sharma, UCLA, Los Angeles, CA

Mansoureh Eghbali, UCLA, Los Angeles, CA
Abstract Poster Session

**Heart Failure: Acute to Chronic and Back**

**APS.506.02**

South Hall A2 - Core 5

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:** Gordon Huggins, Boston, MA

**5246**

**Predictors of Mortality and Morbidity in Patients With Chronic Heart Failure - Analysis of Red-HF Trial**

*Indr S Anand*, VA Medical Ctr and Univ of Minnesota, Minneapolis, MN

*James B Young*, Cleveland Clinic, Cleveland, OH

**5247**

**Temporal Changes in Mortality Risk Post-Discharge After Hospitalization for Heart Failure**

*Javed Butler*, Emory Univ, Atlanta, GA

**5248**

**Novel Hemodynamic Subsets in Predicting the Need for Inotropic Support in Heart Failure**

*Muneyoshi Tanimura*, Mie Univ, Tsu, Mie, Japan

*Masaaki Ito*, Mie Univ, Tsu, Mie, Japan

**5249**

**The Addition of Galectin-3 Significantly Improves Upon the Ability of Discharge BNP to Predict 60 Day Readmission for Acute Decompensated Heart Failure**

*Sangita Sudharshan*, Washington Univ in St Louis Sch of Med, St Louis, MO

*Edward M Geltman*, Washington Univ in St Louis Sch of Med, St Louis, MO

**5250**

**Early Urine Sodium Response After Ambulatory Diuretic Bolus to Avoid Heart Failure Hospitalization**

*Laura Burpee*, Brigham and Women’s Hosp, Boston, MA

*Mandeep Mehra*, Brigham and Women’s Hosp, Boston, MA

**5251**

**Changes in Hemoglobin After Pulmonary Artery Catheterization: Results From the ESCAPE Trial**

*Abdulla Damili*, Univ of Miami Miller Sch of Med, Miami, FL

*Mauro Moscucci*, Univ of Miami Miller Sch of Med, Miami, FL

**5252**

**Novel Method to Quantify the Degree of Fluid Accumulation and Its Prognostic Implication in Patients With Acute Decompensated Heart Failure**

*Taiki Sakaguchi*, Osaka Nati Hosp, Osaka, Japan

*Yoshio Yasumura*, Osaka Nati Hosp, Osaka, Japan

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Abstract Poster Session

**Heart Failure: Cardiotoxicity and Cardioprotection**

**APS.504.02**

South Hall A2 - Core 5

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:** Bonnie Ky, Philadelphia, PA

**5186**

**Trastuzumab Cardiomyopathy is Prevented by the Administration of Ranolazine at the End of Antineoplastic Treatment in Model Mouse**

*Nicola Maurea*, Istituto Nazionale Per Lo Studio e La Cura Dei Tumori Fondazione Giovanni Pascale- IRCCS, Naples, Italy

**5187**

**The Cardioprotection of Trimetazidine Against Ischemic Injury is Mediated by AMPK and ERK Signaling Pathway**

*Yina Ma*, Univ at Buffalo-SUNY, Buffalo, NY

*Ji Li*, Univ at Buffalo-SUNY, Buffalo, NY

**5188**

**The Sirtuin SIRT3 Blocks Doxorubicin-induced Cardiac Hypertrophic Response of Mice**

*Vinodkumar Pillai*, Univ Chicago, Chicago, IL

*Mahesh P Gupta*, Univ Chicago, Chicago, IL

**5189**

**Upregulation of Cardiac MicroRNA 34a, Sirt1, and Notch1 Following Oral Ingestion of Beetroot Juice and Doxorubicin Treatment: A Novel Protective Signaling Against Cardiotoxicity**

*Lei Xi*, Virginia Commonwealth Univ, Richmond, VA

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Prognostic Value of Post-exercise Heart Rate Recovery in Patients With Acute Decompensated Heart Failure

*Jong-Chan Youn*, Yonsei Univ Coll of Med, Seoul, Republic of Korea

*Seok-Min Kang*, Yonsei Univ Coll of Med, Seoul, Republic of Korea

Elevated Resting Heart Rate is Associated With Impaired Quality of Life and Worse NYHA Functional Capacity in Patients With Chronic Heart Failure: Results From REALITY HF Study

*Yusel Cavusoglu*, Eskisehir Osmangazi Univ, Eskisehir, Turkey

*Serdar Kucukoglu*, Istanbul Univ Cardiology Inst, Istanbul, Turkey

A Care Transition Bundle for Heart Failure Patients Impacts Hospital Care Access During the 30 Days Following Discharge

*Dipanjan Banerjee*, Stanford Hosp & Clinics, Stanford, CA
Abstract Poster Session

Heart Failure: CRT and Pacing

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

5190 Safety and Effect of High Dose Statin Loading on Biomarkers Related to Inflammation and Renal Injury in Hospitalized Acute Heart Failure Patients: A Randomized, Controlled, Open-label, Prospective, Pilot Study
Jaewon Oh, Severance Cardiovascular Hosp, Seoul, Republic of Korea
Donghoon Choi, Severance Cardiovascular Hosp, Seoul, Republic of Korea

5191 A Potent and Selective Covalent Inhibitor of JNK Protects Heart from both Ischemia/Reperfusion- and Hypertension-induced Heart Failure
Waqing Sun, Unv at Buffalo-SUNY, Buffalo, NY
Ji Li, Unv at Buffalo-SUNY, Buffalo, NY

5192 Role of FOXO Transcription Factors in the Protective Mechanism by Resveratrol Against Cardiomyopathy in the Dystrophin-deficient Mdx Mouse
Atsushi Kuno, Sapporo Medical Univ Sch of Med, Sapporo, Japan
Yoshiyuki Hori, Sapporo Medical Univ Sch of Med, Sapporo, Japan

5193 A Recombinant Atrial Natriuretic Peptide Prevents Aberrant Ca2+ Leakage Through Ryanodine Receptor by Suppression of Mitochondrial Reactive Oxygen Species Production in Failing Cardiomyocytes
Wakako Murakami, Yamaguchi Univ Graduate Sch of Med, Ube, Japan
Masafumi Yano, Yamaguchi Univ Graduate Sch of Med, Ube, Japan

5194 Tranilast, Transient Receptor Potential Vanilloid 2 Antagonist, Ameliorates End-Stage Heart Failure of Mice With Dilated Cardiomyopathy
Yuko Iwata, Nati Cerebral and Cardiovascular Ctr, Suita, Japan
Kazuo Komamura, Nati Cerebral and Cardiovascular Ctr, Suita, Japan

5195 Carvedilol Improves Left and Right Ventricular Fibrosis and Function Through Abrogation of Tgfβ1-ctgf Signaling in a Rat Persistent Right Ventricular Afterload Model
Kenichi Okumura, Osaka Rosai Hosp, Sakai, Japan
Mark K Friedberg, The Hosp for Sick Children, Toronto, ON, Canada
Reduced 30-Day Hospital Readmissions in Systolic Heart Failure Patients With Cardiac Resynchronization Therapy: Evidence From 5 Randomized Controlled Trials
Michael R Gold, Medical Univ of South Carolina, Charleston, SC
John GF Cleland, Imperial Coll London, London, United Kingdom

Clinical and Economic Value of Maximizing Response to Cardiac Resynchronization Therapy (CRT): Evidence From 5 Randomized Controlled Trials
Eugene S Chung, Ohio Heart and Vascular Ctr, Cincinnati, OH
Martin R Cowie, Imperial Coll London, London, United Kingdom

Abstract Poster Session
APS.503.03
Heart Failure: Heart Failure with Preserved Ejection Fraction
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Reduced 30-Day Hospital Readmissions in Systolic Heart Failure Patients With Cardiac Resynchronization Therapy: Evidence From 5 Randomized Controlled Trials
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Clinical and Economic Value of Maximizing Response to Cardiac Resynchronization Therapy (CRT): Evidence From 5 Randomized Controlled Trials
Eugene S Chung, Ohio Heart and Vascular Ctr, Cincinnati, OH
Martin R Cowie, Imperial Coll London, London, United Kingdom

Advanced Peripheral Endothelial Dysfunction Correlates with Left Ventricular Diastolic Dysfunction and Heart Failure with Preserved Left Ventricular Ejection Fraction in Hypertensive Patients
Eiichi Akiyama, Yokohama City Univ Medical Ctr, Yokohama, Japan
Hisao Ogawa, Faculty of Life Sciences, Kumamoto Univ, Kumamoto, Japan

The Features of Hypertensive Heart Failure With Preserved Ejection Fraction Assessed by 3-Dimensional Speckle Tracking Echocardiography With Novel Software
Noriaki Sato, Gifu Prefectural General Medical Ctr, Gifu, Japan
Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan

Ventricular-Arterial Coupling Biphasically Correlates to Ventricular Diastolic Chamber Stiffness in Children–Association With Aldosterone Activation
Satoshi Masutani, Saitama Medical Univ Saitama Medical Ctr, Kawagoe, Japan
Hideaki Senzaki, Saitama Medical Univ Saitama Medical Ctr, Kawagoe, Japan

Reduced Left Atrial Compliance in Heart Failure With Preserved Ejection Fraction: New Insights Into Pathophysiology
Rosita Zakeri, Mayo Clinic, Rochester, MN
Margaret M Redfield, Mayo Clinic, Rochester, MN

Metabolic Comorbidities Associated with Endothelial inflammation and Reduced NO-bioavailability as a Novel Paradigm for Heart Failure with Preserved Ejection Fraction
Sophia H Chen, VU Univ Medical Ctr Amsterdam, Amsterdam, Netherlands
Nazha Hamdani, VU Univ Medical Ctr Amsterdam, Amsterdam, Netherlands

Neurovascular Control and Spontaneous Baroreflex Sensitivity in Heart Failure Patients with Preserved Ejection Fraction
Ana Luiza C Sayegh, Heart Inst - InCor Hosp das Clinicas - FMUSP, São Paulo, Brazil
Charles Mady, Heart Inst - InCor Hosp das Clinicas - FMUSP, São Paulo, Brazil

Association of Kidney Dysfunction with Chronotropic Incompetence in Heart Failure with Preserved Ejection Fraction
David A Klein, Northwestern Univ Feinberg Sch of Med, Chicago, IL
Sanjiv J Shah, Northwestern Univ Feinberg Sch of Med, Chicago, IL

Acute Effects of Exercise on Arterial Stiffness in Patients with Heart Failure with Preserved Ejection Fraction; The Role of Inflammatory Status
Mitsuru Masaki, Hyogo Coll of Med, Nishinomiya, Japan
Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan

High Serum Levels of Thrombospondin-2 Correlate with Poor Prognosis of Patients with Heart Failure with Preserved Ejection Fraction
Yuichi Kimura, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

Distinctive Characteristics of Left Atrial Remodeling in Heart Failure With Preserved or Reduced Ejection Fraction
Vojtech Melenovsky, Inst for Clinical and Experimental Med - IKEM, Prague, Czech Republic
Barry A Borlaug, Mayo Clinic, Rochester, MN
Abstract Poster Session

APS.506.07  Heart Failure: Older Patients, Sleeping Disorders and Outcomes

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
William T Abraham, Columbia, OH

5296  Impact of Malnutrition Score Index on Short-term Clinical Outcome in Patients with Acute Decompensated Heart Failure
Naotsugu Iwakami, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan
Toshihisa Anzai, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan

5297  Visualizing Continuous Nocturnal Cardiac Output by Automatic Analysis of Circulation Time on Polysomnography in Patients With Heart Failure
Kazuya Hosokawa, Kyushu Univ Hosp, Fukuoka, Japan
Takaya Fukuyama, Saiseikai Futsukaichi Hosp, Chikushino, Japan

5298  Effectiveness of Adaptive Servo-Ventilation Therapy in NYHA-IV Heart Failure Patients
Toshimitsu Kato, Public Tomioka General Hosp, Tomioka, Japan
Masahiko Kurabayashi, Gunma Univ Sch of Med, Maebashi, Japan

5299  Impact of Cognitive Impairment on 30-Day Heart Failure Readmission Among Older Adults
Chizoba Ugwummadu, Yale New Haven Hosp, New Haven, CT
Gerard Kerins, Yale New Haven Hosp, New Haven, CT

5300  Sleep Disturbance, Heart Failure, and Cognitive Function in Older Individuals: The Aging Demographics, and Memory Study (ADAMS)
Choza Moon, Univ of Wisconsin- Madison, Madison, WI
Lisa Bratzke, Univ of Wisconsin- Madison, Madison, WI

5301  Impact of Serum Calcium Levels on Mortality of Patients With Heart Failure and Chronic Kidney Disease
Shunsuke Miura, Fukushima Medical Univ, Fukushima, Japan
Yasuchika Takeishi, Fukushima Medical Univ, Fukushima, Japan

Abstract Poster Session

APS.506.08  Heart Failure: Outcomes and More

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Monica Shah, Bethesda, MD

5302  Finding Out a Useful Parameter of Sleep Disordered Breathing in Chronic Heart Failure Patients
Tadamitsu Nakushima, Yamaguchi Univ Graduate Sch of Med, Ube, Yamaguchi, Japan
Masafumi Yano, Yamaguchi Univ Graduate Sch of Med, Ube, Yamaguchi, Japan

5303  Frailty Assessment in Advanced Heart Failure
Sampath Gunda, Motefiore Medical Ctr, Albert Einstein Coll of Med, Bronx, NY
Snehal R Patel, Motefiore Medical Ctr, Albert Einstein Coll of Med, Bronx, NY

5304  Chronic and Continuous Use of Adaptive Servo-Ventilation Improves and Keeps Cardiac Function in Patient With Heart Failure With Central Sleep Apnea
Tatsunori Ikeda, Kouseiren Takaoka hospital, Takaoka, Japan
Shuichi Kaneko, Kanazawa Univ, Kanazawa, Japan

5305  Exercise Capacity Independently Predicts Bone Mineral Density and Proximal Femoral Geometry in Patients With Acute Decompensated Heart Failure
Jong-Chan Youn, Yonsei Univ Coll of Med, Seoul, Republic of Korea
Seok-Min Kang, Yonsei Univ Coll of Med, Seoul, Republic of Korea

5306  Non-Invasive Positive Airway Pressure Improves Mortality in Heart Failure Patients With Preserved Left Ventricular Ejection Fraction and Sleep-Disordered Breathing
Satoshi Suzuki, Fukushima Medical Univ, Fukushima, Japan
Yasuchika Takeishi, Fukushima Medical Univ, Fukushima, Japan

5307  Efficacy and Optimal Duration of Heart Failure Medications in Preventing the Recurrence of Stress-induced Cardiomyopathy
Tae-Oh Kim, Ulsan Univ, Seoul, Republic of Korea
Seong-Wook Park, Ulsan Univ, Seoul, Republic of Korea
Abstract Poster Session

Heart Failure: Potpourri and Clinical Outcomes

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Shannon M Dunlay, Rochester, MN

5308 Prevalence and Characteristics of Atrial Fibrillation Among Heart Failure Patients in the Middle East Region: Insights From the Gulf aCute heArt failuRe eGistry (Gulf CARE)
Nidal A Asaad, Hamad Medical Corp, Doha, Qatar
Magdi Yacoub, Qatar Cardiovascular Res Ctr, Doha, Qatar

5309 Patient and Caregiver Heart Failure Symptom Response Behaviors in 364 Patient-Caregiver Dyads
Julie T Bidwell, Oregon Health and Science Univ, Portland, OR
Christopher S Lee, Oregon Health and Science Univ, Portland, OR

5310 Change in Red Cell Distribution Width (RDW) and Initial RDW During Hospitalization are Associated With Length of Hospital Stay and 30-Day Outcomes
Joseph Boone Muhlestein, Intermountain Medical Ctr, Salt Lake City, UT
Benjamin D Horne, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT

5311 Cardiac I-123 Metaiodobenzylguanidine Imaging Provides the Additional Prognostic Information to the Model for End-Staged Liver Disease in Patients With Chronic Heart Failure
Hideyuki Hakui, Osaka General Medical Ctr, Osaka, Japan
Masatake Fukunami, Osaka General Medical Ctr, Osaka, Japan

5312 Accurate Monitoring of Intravascular Fluid Volume: A Novel Application of Intrathoracic Impedance Measures for the Guidance of Volume Reduction Therapy
Philip Binkley, The Ohio State Univ, Columbus, OH
John Herre, Sentara Cardiovascular Res Inst, Norfolk, VA

5313 Low Peripheral Pulse Pressure During Primary Percutaneous Coronary Intervention in ST-Segment Elevation Myocardial Infarction Patients is a Predictor of Persistent Systolic Dysfunction
Mohammed Eid Madmani, MetroHealth Campus of Case Western Reserve Univ, Cleveland, OH
Sanjay Gandhi, MetroHealth Campus of Case Western Reserve Univ, Cleveland, OH

5314 Integrated Area of Desaturation Index can Predict Three-Year Prognosis in Heart Failure Patients after Adaptive Servo Ventilation Therapy
Norikazu Takama, Gunma Univ, Maebashi, Japan
Masahiko Kurabayashi, Gunma Univ, Maebashi, Japan

5315 High Dose Guideline-Directed Medical Therapy for Heart Failure at Discharge Improves 1-Year Mortality in African-Americans but Not Hypertensive Patients
Khadijah Breathett, Ohio State Univ Wexner Medical Ctr, Columbus, OH
William T Abraham, Ohio State Univ Wexner Medical Ctr, Columbus, OH

5316 Validation of a Risk Score for Hospitalization for Heart Failure in Atrial Fibrillation Patients: From the Fushimi AF Registry
Moritake Iguchi, Nati Hosp Organization Kyoto Medical Ctr, Kyoto, Japan
Masaharu Akao, Nati Hosp Organization Kyoto Medical Ctr, Kyoto, Japan

5317 Variation in Laboratory Monitoring After Initiation of a Mineralocorticoid Receptor Antagonist in Patients With Heart Failure
Vishal R Chauhan, Stanford Univ Sch of Med, Stanford, CA
Paul Heidenreich, VA Palo Alto Healthcare System, Palo Alto, CA

5318 Prognostic Value of Direct Bilirubin in Acute Decompensated Heart Failure
Atsushi Okada, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan
Toshihisa Anzai, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan

5319 Low Galectin-3 Identifies Heart Failure Patients at Minimal Risk for Death or Rehospitalization
Wouter C Meijers, Univ Medical Ctr Groningen, Groningen, Netherlands
W Frank Peacock, Baylor Coll of Med, Houston, TX

5320 Post-Discharge PharmD Medication Reconciliation and Uptitration Heart Failure Clinic Reduces 30-Day and 90-Day Readmission Rates Compared to Usual Care: An Innovative Approach to the Readmission Dilemma
Rasha Al-Bawardy, Montefiore Medical Ctr- Albert Einstein Coll of Med, Bronx, NY
Ileana L Piña, Montefiore Medical Ctr- Albert Einstein Coll of Med, Bronx, NY

5322 A Prediction Model for Sudden Cardiac Death in Patients With Heart Failure and Preserved Ejection Fraction
Selcuk Adabag, Veterans Affairs Health Care System, Minneapolis, MN
Inder S Anand, Veterans Affairs Health Care System, Minneapolis, MN

5323 Adjudicated versus “Administrative” Heart Failure With Preserved Ejection Fraction
Andreas P Kalogeropoulos, Emory Univ, Atlanta, GA
Javed Butler, Emory Univ, Atlanta, GA
Timing of Readmission Following Heart Failure Hospitalization - Before and After 30 Days
Justin M Vader, Washington Univ, St Louis, MO
Lisa de las Fuentes, Washington Univ, St Louis, MO

Lower Plasma Omega-6 Polyunsaturated Fatty Acid Level and Malnutrition in Acute Heart Failure Patients and Its Association With Worse Clinical Outcome
Toshiyuki Nagai, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan
Toshihisa Anzai, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan

The Association Between Acculturation and Hypertension Prevalence among South Asian Immigrants in the Mediators of Atherosclerosis in South Asians Living in America (MASALA) Study
Allison Kong, Loyola Univ Chicago, Maywood, IL
Namratha Kandula, Northwestern Univ, Chicago, IL

Aortic Stiffness and Increased Left Ventricular Mass Predict Progress From Prehypertension to Hypertension
Yong Hyun Kim, Korea Univ Ansan Hosp, Ansan-si, Republic of Korea
Seung-Ku Lee, Korea Univ Ansan Hosp, Ansansi, Republic of Korea

Prognostic Significance of Isolated Hypertension During the Alerting Reaction to Predict 10-Year Risk of Cardiovascular Events in the Dallas Heart Study
Alejandro Velasco, Univ of Texas Southwestern Medical Ctr, Dallas, TX
Wanpen Vongpatanasin, Univ of Texas Southwestern Medical Ctr, Dallas, TX

Clinical Cardiovascular Risk During Young Adulthood in Offspring of Hypertensive Pregnancies
Adam J Lewandowski, Univ of Oxford, Oxford, United Kingdom
Paul Leeson, Univ of Oxford, Oxford, United Kingdom

Lower Achieved Systolic Pressure is Associated With Increased Short-Term Mortality After Stroke in Hypertensive Patients With Electrocardiographic Left Ventricular Hypertrophy
Peter M Okin, Weill Cornell Medical Coll, New York, NY
Richard B Devereux, Weill Cornell Medical Coll, New York, NY

Lower Achieved Systolic Pressure is Associated With Increased Short-Term Mortality After Stroke in Hypertensive Patients With Electrocardiographic Left Ventricular Hypertrophy
Peter M Okin, Weill Cornell Medical Coll, New York, NY
Richard B Devereux, Weill Cornell Medical Coll, New York, NY

Left Ventricular Property in Hypertensive Patients Assessed by the Novel Automated One-Beat Real-Time Three-dimensional Speckle Tracking Echocardiography With High Volume Rates
Noritaki Sato, Gifu Prefectural General Medical Ctr, Gifu, Japan
Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan

Abstract Poster Session

Hypertension

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Impact of Systolic Blood Pressure on Cardiovascular Disease in a Chinese Population: A Mendelian Randomization Study
Robert Clarke, Univ of Oxford, Oxford, United Kingdom
Zhengming M Chen, Univ of Oxford, Oxford, United Kingdom

Long-Term Exposure to Increased Systolic Blood Pressure Has a Cumulative Effect on the Risk of Coronary Heart Disease but Not Stroke
Brian A Ference, Wayne State Univ Sch of Med, Detroit, MI
Robert D Brook, Univ of Michigan, Ann Arbor, MI

Trends in Blood Pressure Among Adults With Hypertension: United States, 2003-2012
Sung Sug (Sarah) Yoon, CTRS Disease Control Prevention, Hyattsville, MD
Vicki Burt, CTRS Disease Control Prevention, Hyattsville, MD

Biomass Fuel Use is Associated With Elevated Blood Pressure and Hypertension Status in Puno, Peru
Melissa S Burroughs Pena, Duke Univ, Durham, NC CRONICAS Study Group

Hypertension Treatment and Control Rates in United States Adults by Risk Group
Kunal N Kamali, Northwestern Univ, Chicago, IL
Donald M Lloyd-Jones, Northwestern Univ, Chicago, IL

Adiposity, Blood Pressure, and Incidence of Stroke Subtypes Among 0.5 Million Adult Chinese With 7 Years of Follow-Up
Zhengming Chen, Univ of Oxford, Oxford, United Kingdom
Liming Li, Beijing Univ, Beijing, China
Abstract Poster Session

Hypertension: Circadian Rhythm

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
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Poster Professor:
Alexander G Logan, Toronto, ON, Canada

7488 Age-Related Difference in Sleep Pressure Lowering Effect Between Angiotensin II Receptor Blocker and Calcium Channel Blocker in Asian Hypertensives: ACS-1 Study
Kazuomi Kario, Jichi Medical Univ Sch of Med, Tochigi-ken, Japan
Satoshi Hoshide, Jichi Medical Univ Sch of Med, Tochigi-ken, Japan

7489 Rise Pattern is Associated With Mild Cognitive Impairment in Heart Failure Patients
Takahiro Komori, Jichi Medical Univ Sch of Med, Tochigi-ken, Japan
Kazuomi Kario, Jichi Medical Univ Sch of Med, Tochigi-ken, Japan

7490 Association of Diurnal Blood Pressure Variation and Nocturnal Hypoxia in Patients With Cardiovascular Risk Factors: Japan Morning Surge-Home Blood Pressure (J-HOP) SAS Study
Masahisa Shimpo, Jichi Medical Univ, Tochigi, Japan
Kazuomi Kario, Jichi Medical Univ, Tochigi, Japan

7491 Improving Detection of Preclinical Organ Damage in Hypertension: Non-dipping Status versus Nocturnal Hypertension
Nikolaos Papageorgiou, Hippokration Hosp, Athens, Greece
Dimitris Tousoulis, Hippokration Hosp, Athens, Greece

7492 Characteristics of Diurnal Change of Pulse Rate in Resistant Hypertension
Hiroaki Watanabe, Jichi Medical Univ Sch of Med, Tochigi, Japan
Kazuomi Kario, Jichi Medical Univ Sch of Med, Tochigi, Japan

7493 Is Isolated Nocturnal Hypertension a Reproducible Ambulatory Blood Pressure Phenotype?
Marwah Abdalla, Columbia Univ Medical Ctr, New York, NY
Daichi Shimbo, Columbia Univ Medical Ctr, New York, NY

7510 Impact of Inhibitors of Renin-Angiotensin-Aldosterone System on Left Ventricular Property in Hypertension Assessed by a Novel 3-Dimensional Speckle Tracking Echocardiography With High Volume Rates
Shingo Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan
Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan

7511 Sex-differences in Left Ventricular Mass Changes in Treated Hypertensive Outpatients: The Campania Salute Network
Costantino Mancusi, Univ of Bergen, Bergen, Norway
Giovanni de Simone, Univ of Naples, Naples, Italy

7512 Comparative Impact of Isolated Systolic Hypertension vs Systolic-Diastolic Hypertension on Incident Heart Failure and All-Cause Mortality in Community-Dwelling Older Adults
Ray E Kheirbek, District of Columbia Veteran Affairs Medical Ctr, Washington, DC
Ali Ahmed, District of Columbia Veteran Affairs Medical Ctr, Washington, DC

7513 Higher Mortality in Patients with Undiagnosed Hypertension: Is the Electronic Medical Record the Key to Their Identification?
Olufunso W Odunukan, Mayo Clinic, Jacksonville, FL
Mark A Nyman, Mayo Clinic, Rochester, MN

7514 Combined Assessment of N-Terminal Pro-B-Type Natriuretic Peptide and High-Sensitivity Troponin T Levels Improves the Prediction of Future Admission for Heart Failure in Outpatients with Hypertension and Preserved Left Ventricular Ejection Fraction
Shigeru Matsui, Fujita Health Univ, Toyoake, Japan
Yukio Ozaki, Fujita Health Univ, Toyoake, Japan

7515 Impact of Left Ventricular Systolic Function on Blood Pressure Lowering Effects in Hypertensive Patients With Coronary Artery Disease: the Hij-create Sub-study
Noriko Kikuchi, The Heart Inst of Japan, Shinjuku, Tokyo, Japan
Nobuhisa Hagiwara, The Heart Inst of Japan, Shinjuku, Tokyo, Japan

7516 Cognitive Function and Masked Hypertension in Older Hypertensive Patients
Manabu Hayakawa, Univ of Miyazaki, Miyazaki, Japan
Kazuomi Kario, Dept of Med, Jichi Medical Univ Sch of Med, Tochigi, Japan

7517 Which Cutoff Value of Clinic BP Better Stratify Cardiovascular Risk in Patinets with Type 2 Diabetes? - the J-HOP Study -
Kazu Eguchi, Jichi Medical Univ, Shimotsuke Tochigi-ken, Japan
Kazuomi Kario, Jichi Medical Univ, Shimotsuke Tochigi-ken, Japan
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<tr>
<td>7494</td>
<td>Long Sleep Duration and B-Type Natriuretic Peptide: Determinants of Left Ventricular Mass Index in the Japanese at High-Risk of Cardiovascular Disease</td>
<td>Michiaki Nagai, Jichi Medical Univ Sch of Med, Tochigi, Japan</td>
<td>Kazuomi Kario, Jichi Medical Univ Sch of Med, Tochigi, Japan</td>
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<tr>
<td>7495</td>
<td>Home Blood Pressure Range and 24-hr Ambulatory Blood Pressure Control: The Japan Morning Surge Home Blood Pressure (J-HOP) Study-ABPM Substudy</td>
<td>Kazuomi Kario, Jichi Medical Univ Sch of Med, Tochigi-ken, Japan</td>
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<tr>
<td>7496</td>
<td>Long Sleep Duration and Low-Grade Inflammation: New Indicators of Arterial Stiffness in the Japanese at High-risk of Cardiovascular Disease</td>
<td>Satoshi Niijima, Jichi Medical Univ Sch of Med, Tochigi, Japan</td>
<td>Kazuomi Kario, Jichi Medical Univ Sch of Med, Tochigi, Japan</td>
</tr>
<tr>
<td>7497</td>
<td>LCZ696, an Angiotensin Receptor Neprilysin Inhibitor, Provides Superior 24-hour Blood Pressure Reduction than Olmesartan in Japanese Patients with Systolic Hypertension</td>
<td>Kazuomi Kario, Jichi Medical Univ Sch of Med, Tochigi, Japan</td>
<td>Jack Zhang, Novartis Pharmaceuticals Corp, East Hanover, NJ</td>
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**Abstract Poster Session**

**Hypertension: Treatment**

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<tr>
<td>7498</td>
<td>Chronic Nebivolol Treatment Suppresses Endothelin-1-Mediated Vasconstrictor Tone in Adults with Elevated Blood Pressure</td>
<td>Brian L Stauffer, Univ of Colorado Denver, Aurora, CO</td>
<td>Christopher A DeSouza, Univ of Colorado Boulder, Boulder, CO</td>
</tr>
<tr>
<td>7499</td>
<td>Treatment Targets and Cardiovascular Morbidity and Mortality in Patients with Hypertension</td>
<td>Alexander Turchin, Brigham and Women's Hosp, Boston, MA</td>
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**Results of the LIMBS Study: Yoga, Alone or in Combination With Other Lifestyle Measures Reduces BP in Untreated Prehypertension and Stage 1 Hypertension**

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<td>Hydrochlorothiazide Use is Independently Associated With a Decreased Risk of New Atrial Fibrillation in Hypertensive Patients With Electrocardiographic Left Ventricular Hypertrophy</td>
<td>Peter M Okin, Weill Cornell Medical Coll, New York, NY</td>
<td>Richard B Devereux, Weill Cornell Medical Coll, New York, NY</td>
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<tr>
<td>7496</td>
<td>The Effect of Lifestyle Recommendations on Blood Pressure and Blood Pressure Control in Patients With Stage I Hypertension: The Prever Treatment Trial</td>
<td>Flavio D Fuchs, HCPA, UFRGS, Porto Alegre, Brazil</td>
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<td>LCZ696, an Angiotensin Receptor Neprilysin Inhibitor, Provides Superior 24-hour Blood Pressure Reduction than Olmesartan in Japanese Patients with Systolic Hypertension</td>
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Abstract Poster Session

**Hypertrophic Cardiomyopathy**

**South Hall A2 - Core 5**

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Thomas D Gils, Metairie, LA

5667  **Family History Characteristics as Risk Factors for Sudden Cardiac Death Events in Hypertrophic Cardiomyopathy**
Jodie Ingles, Univ of Sydney, Sydney, Australia
Christopher Semsarian, Univ of Sydney, Sydney, Australia

5668  **Contemporary Management Strategies Provide Low Mortality Rates for Young Patients with Hypertrophic Cardiomyopathy**
Ethan J Rowin, Tufts Medical Ctr, Boston, MA
Barry J Maron, Minneapolis Heart Inst Fndn, Minneapolis, MN

5669  **Successful Surgical Management of Severely Symptomatic Hypertrophic Cardiomyopathy Patients With Minimal Septal Hypertrophy**
Raabia N Ahmad, Tufts Medical Ctr, Boston, MA
Martin S Maron, Tufts Medical Ctr, Boston, MA

5670  **Peak Oxygen Consumption Predicts Outcome in Hypertrophic Cardiomyopathy**
Carla Contaldi, Federico II Univ of Naples, Naples, Italy
Sandro Betocchi, Federico II Univ of Naples, Naples, Italy

5671  **Mitral Valve Alterations in Hypertrophic Cardiomyopathy Sarcomere Mutation Carriers Without Left Ventricular Hypertrophy**
John D Groanke, Brigham and Women’s Hosp, Boston, MA
Carolyn Y Ho, Brigham and Women’s Hosp, Boston, MA

5672  **Right Heart Failure Predicts Higher Mortality in Patients With Hypertrophic Cardiomyopathy**
Stephen A McCulloch, Massachusetts General Hosp, Boston, MA
Michael A Filer, Massachusetts General Hosp, Boston, MA

**Abstract Poster Session**

**Imaging and CVD Risk II**

**South Hall A2 - Core 2**

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Khurrum Nasir, Miami, FL

2374  **Relationship of Office and Ambulatory Blood Pressure with Left Ventricular Global Longitudinal Strain**
Fusako Sera, Columbia Univ, New York, NY
Marco R Di Tullio, Columbia Univ, New York, NY

2375  **Plasma Apelin Level Contributes Exercise Training-induced Improvement of Arterial Stiffness in the Middle and Older Adults**
Shumpei Fujie, Ritsumeikan Univ, Kusatsu, Shiga, Japan
Motoyuki Iemitsu, Ritsumeikan Univ, Kusatsu, Shiga, Japan

2376  **Risk Markers for Coronary Plaque Progression and Destabilization Beyond LDL-Cholesterol in Patients with Acute Coronary Syndrome**
Takaaki Komatsu, Dokkyo Medical Univ Koshigaya Hosp, Saitama, Japan
Teruo Inoue, Dokkyo Medical Univ, Tochigi, Japan

2377  **A Risk Score for Predicting Mortality in in 10,582 Patients Hospitalized With Takotsubo Cardiomyopathy**
David P Kao, Univ of Colorado Anschutz Medical Campus, Aurora, CO
JoAnn Lindenfeld, Univ of Colorado Anschutz Medical Campus, Aurora, CO
Endothelial Function is Impaired in Subjects With Decreased Frequency of Tooth Brushing
Masato Kajikawa, Hiroshima Univ Graduate Sch of Biomedical Sciences, Hiroshima, Japan
Yasuki Kihara, Hiroshima Univ Graduate Sch of Biomedical Sciences, Hiroshima, Japan

Local Hemodynamic Forces and Aqueous Cigarette Smoke Extract Affect Development of Endothelial Dysfunction
Coy Brunssen, Div of Vascular Endothelium and Microcirculation, Dresden, Germany
Henning Morawietz, Div of Vascular Endothelium and Microcirculation, Dresden, Germany

A Longitudinal Perspective on the Conundrum of Central Arterial Stiffness, Blood Pressure and Aging
Edward G Lakatta, NIH/NIA, Baltimore, MD
Angelo Scuteri, Hosp San Rafaele Pisana, Rome, Italy

Clinical Outcomes in Patients with Takayasu’s Arteritis: Retrospective Analysis From National Inpatient Sample Database
Jalaj Garg, Westchester Medical Ctr, New York Medical Coll, Valhalla, NY
Gregg Lanier, Westchester Medical Ctr, New York Medical Coll, Valhalla, NY

Prevalence of Coronary Atherosclerosis in an Unselected Autopsy population in a Tertiary Care Centre in South India
Sandeep G Nair, Government Medical Coll, Trivandrum, Trivandrum, India
Kiran Gopinath, Government Medical Coll, Trivandrum, Trivandrum, India

Evidence of Associations Between Genetic Ancestry and Measures of Subclinical Atherosclerosis in African Americans: The Jackson Heart Study
Samson Y Gebreab, Natl Human Genome Res Inst, NIH, Bethesda, MD
Charles N Rotimi, Natl Human Genome Res Inst (NHGRI), NIH, Bethesda, MD

Increased Prevalence of Cardiac Abnormalities in Asymptomatic Adolescents and Young Adults
Patrick L Hauer, Univ of South Dakota, Vermillion, SD
Patrick S Cross, Briar Cliff Univ, Sioux City, IA

Lifespan Predictors of Cardiovascular Morbidity in Individuals Reaching Middle Age: The Bogalusa Heart Study
Camilo Fernández Alonso, Tulane Univ Health Sciences Ctr, New Orleans, LA
Gerald S Berenson, Tulane Univ Health Sciences Ctr, New Orleans, LA

Predictive values of Cardiac Valvular Calcification and Protein-Energy Wasting in Cardiovascular Outcome in End-Stage Renal Disease Patients at Starting Hemodialysis Therapy
Hideki Ishii, Nagoya Univ, Nagoya, Japan
Toyoaki Murohara, Nagoya Univ, Nagoya, Japan

Risk of Infective Endocarditis in Patients Receiving Chronic Renal Replacement Therapy - a Nationwide Study
Mavish S Chaudry, Gentofte Hosp, Copenhagen, Denmark
Niels Eske Bruun, Gentofte Hosp, Copenhagen, Denmark

Family History of Cardiovascular Disease is an Independent Predictor of Gestational Hypertensive Disease and Diabetes: The Korean Nurses’ Survey
Heesun Lee, Seoul Natl Univ Bundang Hosp, Gumiro 166, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Myeong Chan Cho, Korea Natl Inst of Health, Chungbuk, Republic of Korea

Gender and Race Differences in Patient Characteristics and Outcomes in 10,582 Hospitalizations for Takotsubo Cardiomyopathy
David P Kao, Univ of Colorado Anschutz Medical Campus, Aurora, CO
JoAnn Lindenfeld, Univ of Colorado Anschutz Medical Campus, Aurora, CO

The Association Between Urinary Calculi and Increased Future Cardiovascular Events
Po-Hsun Huang, Taipei Veterans General Hosp, Taipei, Taiwan
Shing-Jong Lin, Taipei Veterans General Hosp, Taipei, Taiwan

10-Year Development in Cardiac Mortality in the Young - A Nationwide Cohort Study in Denmark
Bjarke Risgaard, Rigshospitalet, Copenhagen, Denmark
Jacob Tfelt-Hansen, Rigshospitalet, Copenhagen, Denmark

Abstract Poster Session

Insights from Observational Studies

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Anand Rohatgi, Dallas, TX

Sustained Increase in the Incidence of Acute Cardiovascular Events After the 2011 Northeast Japan Tsunami: A Population Based Study
Motoyuki Nakamura, Iwate Med Univ, Morioka-shi, Japan
Iwate Heart Disease Registry Consortium

The Association Between Urinary Calculi and Increased Future Cardiovascular Events
Po-Hsun Huang, Taipei Veterans General Hosp, Taipei, Taiwan
Shing-Jong Lin, Taipei Veterans General Hosp, Taipei, Taiwan

10-Year Development in Cardiac Mortality in the Young - A Nationwide Cohort Study in Denmark
Bjarke Risgaard, Rigshospitalet, Copenhagen, Denmark
Jacob Tfelt-Hansen, Rigshospitalet, Copenhagen, Denmark

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
Abstract Poster Session

**APS.305.07**

**Intervention and Outcome in Congenital Heart Disease**

South Hall A2 - Core 3

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Neil Wilson, London, United Kingdom

**3149**

Calcium Channel Blockers Accelerate Aortic Aneurysm and Cause Premature Lethality in Marfan Syndrome and Related Conditions

Jefferson J Doyle, Johns Hopkins Univ, Baltimore, MD

Harry C Dietz, Johns Hopkins Univ, Baltimore, MD

**3150**

Outcomes After In-Utero Cardiac Interventions: A Preliminary Report of the Collaborative International Fetal Cardiac Intervention Registry

Anita J Moon-Grady, Univ of California-San Francisco, San Francisco, CA

Dick Oepkes, Leiden Univ Medical Ctr, Leiden, Netherlands

**3151**

Creation of a Risk Adjustment Model for Adverse Events after Congenital Cardiac Catheterization


Lisa Bergersen, Boston Children’s Hosp, Boston, MA

**3152**

Safety and Utility of Cardiac Catheterization in the Early Postoperative Period Following Congenital Cardiac Surgery

Kimberly I Mills, Boston Children’s Hosp, Boston, MA

Joshua W Salvin, Boston Children’s Hosp, Boston, MA

**3153**

Up to Seven-Year Outcomes After Transcatheter Pulmonary Valve Replacement in the Prospective Multicenter US Melody Valve Investigational Device Exemption Trial

Lisa Bergersen, Children’s Hosp Boston, Boston, MA

Doff B McElhinney, NYU Medical Ctr, New York, NY

**3154**

Is the Arachidonic Acid Pathway Adequately Inhibited in Shunted Infants on Aspirin?

Dongnan T Truong, Univ of Utah, Salt Lake City, UT

L LuAnn Minich, Univ of Utah, Salt Lake City, UT

**APS.204.01**

**Abstract Poster Session**

**Interventions to Improve Outcomes in Heart Failure**

South Hall A2 - Core 2

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Susan Pressler, Ann Arbor, MI

**2098**

Comparing Predictors of Heart Failure and Cancer Caregiver Satisfaction with Hospice Care

Meredith A MacKenzie, Univ of Pennsylvania, Philadelphia, PA

Barbara Riegel, Univ of Pennsylvania, Philadelphia, PA

**2099**

Motivational Interviewing Tailored Intervention to Promote Heart Failure Self-Care (MITI-HF): Primary Study Results

Ruth M Masterson Creber, Univ of Pennsylvania, Philadelphia, PA

Barbara Riegel, Univ of Pennsylvania, Philadelphia, PA

**2100**

Titration Management for Typically Older Patients With Chronic Heart Failure Management Using a Holistic, Traffic-Light Tool: The Which Heart Failure Intervention Is Most Cost-Effective in Reducing Hospital Stay (WHICH?) II Trial

Simon Stewart, Baker Heart Res Inst, Melbourne, Victoria, Australia

WHICH? Trial Investigators


**Abstract Poster Session**

### Intracoronary Imaging: A Focus on Vulnerable Plaque

**South Hall A2 - Core 6**

Posters Displayed: 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

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**Poster Professor:**

Akiko Maehara, New York, NY

**High Prevalence of Healed Ruptured Plaques Detected by Optical Coherence Tomography in Coronary High-Intensity Plaques on Non-Contrast T1-Weighted Magnetic Resonance Imaging**

Tomoaki Kanaya, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan
Satoshi Yasuda, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan

**Angled Lesions Have Higher Incidence of Vascular Injury and Incomplete Stent Apposition, as Compared to Non-Angled Lesions, Following Stenting: An Optical Coherence Tomography Study**

Yoshiyasu Minami, Massachusetts General Hosp, Boston, MA
Ik-Kyung Jang, Massachusetts General Hosp, Boston, MA

**Impact of Intrasent Yellow Plaque Observed by Coronary Angioscopy at Late Phase After Drug-Eluting Stents Implantation in Clinical Outcome**

Kazuoki Dai, Hiroshima City Hosp, Hiroshima, Japan
Masaharu Ishihara, Hiroshima City Hosp, Hiroshima, Japan

**Different Cardiac Allograft Vasculopathy Progression is Observed Among Three Vessels After Heart Transplantation**

Yasuhiro Ichibori, Osaka Univ Graduate Sch of Med, Suita, Japan
Yasushi Sakata, Osaka Univ Graduate Sch of Med, Suita, Japan

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**Incidence and Morphologic Characteristics of Plaque Erosion in Patients With Acute Myocardial Infarction: A Combined Optical Coherence Tomography and Intravascular Ultrasound Study**

Takumi Higuma, Hirosaki Univ Graduate Sch of Med, Hirosaki, Japan

**Association of Periarterial Low-Echoic Appearance with Progression of Coronary Allograft Vasculopathy and Long-Term Clinical Outcomes in Heart Transplant Patients**

Hideki Kitahara, Stanford Univ, Stanford, CA
Yasuhiro Honda, Stanford Univ, Stanford, CA

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**Feasibility of Family Sodium Watcher Program to Improve Adherence to Low Sodium Diet in Patients with Heart Failure and Caregivers**

Misook L Chung, Univ of Kentucky, Lexington, KY
Terry A Lennie, Univ of Kentucky, Lexington, KY

**Integration of an Advanced Heart Failure Pathway in a Rural Community-based Multispecialty Practice**

Bonni Cohen, Univ of Massachusetts Boston, Boston, MA
Eileen M Stuart-Shor, Univ of Massachusetts Boston, Boston, MA

**Single Phone Call Follow-up Was an Effective Strategy to Improve Heart Failure Patients’ Outcomes**

Tsuey-yuan Huang, Chang Gung Univ of Science and Technology, Taoyuan, Taiwan
Terry A Lennie, Univ of Kentucky, Lexington, KY

**Impact of a Hybrid Nurse-Led Intervention for the Prevention of Progressive Cardiac Dysfunction in High Risk Individuals: Results From a Pragmatic, Randomized Trial (the NIL-CHF Study)**

Simon Stewart, Baker Heart Res Inst, Melbourne, Victoria, Australia
NIL-CHF Investigators

**Management State of Low-Density Lipoprotein Cholesterol Has a Favorable Effect on Left Ventricular Reverse Remodeling in Patients With ST-Segment Elevation Acute Myocardial Infarction**

Akihiro Makino, Kitasato Univ Graduate Sch of Medical Sciences, Sagamihara, Japan
Junya Ako, Kitasato Univ Sch of Med, Sagamihara, Japan

**The Ryanodine Receptor Stabilizer S44121 / Arm036 Improves Peripheral and Respiratory Muscle Function in a Mouse Model of Heart Failure**

Alain Lacampagne, Inserm U1046, Montpellier, France
6198 Relationships between Neointimal Tissue Characteristics and Occurrence of Periprocedural Myocardial Infarction in Lesions with In-Stent Restenosis
Shigeki Kimura, Yokosuka Kyosai Hosp, Yokosuka, Japan
Mitsuaki Isobe, Tokyo Medical and Dental Univ, Tokyo, Japan

6199 Obstructive Sleep Apnea Affects Non-Culprit Plaque Characteristics in Patients With Acute Myocardial Infarction: An Integrated Backscatter Intravascular Ultrasound Study
Tadayuki Kadokura, Engelewood Hosp and Medical Ctr, Englewood, NJ
Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

6200 Coronary Stent Fracture Promotes Neatherosclerosis Formation in-Stent Restenotic Neointimal Tissue After Drug-Eluting Stent Implantation
Yasuhiko Uchida, Yokkaichi Municipal Hosp, Yokkaichi, Japan
Toyoaki Murohara, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

6201 Impact of Coronary Calcification on Different Culprit Lesion Morphology in Acute Coronary Syndrome
Katsuya Miura, Hiroshima City Asa Hosp, Hiroshima, Japan
Yoshinori Nakano, Hiroshima City Asa Hosp, Hiroshima, Japan

Abstract Poster Session
APS.606.03 Intracoronary Physiology Measurement: Fractional Flow Reserve and Microvasculature
South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Board #

Poster Professor:
Jennifer Tremmel, Stanford, CA

6212 Impact of Sex Differences on Invasive Measures of Coronary Microvascular Dysfunction in Patients With Angina in the Absence of Obstructive Coronary Artery Disease
Yuhei Kobayashi, Stanford Univ Medical Ctr, Stanford, CA
Jennifer A Tremmel, Stanford Univ Medical Ctr, Stanford, CA

6213 Significance of Micro-vessels Within Atherosclerotic Coronary Plaques: a Color-coded Intravascular Ultrasound Study
Toshihiko Nishida, Nihon Univ Sch of Med, Tokyo, Japan
Takafumi Hiro, Nihon Univ Sch of Med, Tokyo, Japan

6214 Efficacy of Combined Administration of Intracoronary Papaverine and Intravenous Adenosine 5’-Triphosphate in Assessment of Fractional Flow Reserve
Takeshi Nishi, Chiba Univ, Chiba, Japan
Yoshio Kobayashi, Chiba Univ, Chiba, Japan

6215 The Relationship of Endothelial Shear Stress after Stent Implantation with In-Stent Neointimal Hyperplasia and Clinical Outcomes in Humans
Koki Shishido, Brigham and Women’s Hosp, Boston, MA
Peter H Stone, Brigham and Women’s Hosp, Boston, MA

6216 Comprehensive Hemodynamic Analysis of Coronary Arterial Responses to Acetylcholine Provocation Test in Patients With Coronary Vasospastic Angina
Kenshi Yamanaga, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

6217 Intravenous Regadenoson with Aminophylline Reversal Is Safe and Equivalent to Intracoronary Adenosine Infusion for Fractional Flow Reserve Measurements
John Lee, Ochsner Heart and Vascular Inst, New Orleans, LA
Robert Bober, Ochsner Heart and Vascular Inst, New Orleans, LA

6218 Differential Effect of Ticagrelor vs Thienopyridine Loading on Fractional Flow Reserve: Possible Implications for Clinical Practice
Dimitrios Alexopoulos, Patras Univ Hosp, Patras, Greece
Periklis Davlouros, Patras Univ Hosp, Patras, Greece

6219 Pathophysiology of Coronary Artery Disease in Hiv-infected Patients: Dissociation Between Anatomy and Function
Massimo Mancone, Sapienza Univ of Rome, Rome, Italy
Francesco Fedele, Sapienza Univ of Rome, Rome, Italy

6220 The Impact of Elective Percutaneous Coronary Intervention on Coronary Microvascular Resistance
Tadashi Murai, Tsuchiura Kyodo General Hosp, Tsuchiura, Japan
Tsunekazu Kakuta, Tsuchiura Kyodo General Hosp, Tsuchiura, Japan

6221 Isoproterenol Challenge Predicts Symptomatic Response to Myectomy in Hypertrophic Cardiomyopathy With Occult Obstruction
Megha Prasad, Mayo Clinic, Rochester, MN, Rochester, MN
Rick A Nishimura, Mayo Clinic, Rochester, MN, Rochester, MN
Abstract Poster Session

Lipid-Lowering Trials

APS.208.01

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor: Michael Blaha, Baltimore, MD

2254 The Effect of Omega-3 Carboxylic Acids on Apolipoprotein CII Containing Lipoproteins in Moderate to Severe Hypertriglyceridemia
Allyson Morton, Harvard Sch of Public Health, Boston, MA
Frank Sacks, Harvard Sch of Public Health, Boston, MA

2255 An Updated Meta-Analysis and Meta-Regression of Niacin in Cardiovascular Prevention
Daniel Siniawski, Hosp Italiano de Buenos Aires, Buenos Aires, Argentina
Cesar Belziti, Hosp Italiano de Buenos Aires, Buenos Aires, Argentina

2256 Statin Therapy in Patients With Type 2 Diabetes: Development and Validation of a Model to Predict Individualized Treatment Effects Based on the ASCOT, ALLHAT and CARDS Trials
Lotte Kaasenbrood, UMC Utrecht, Utrecht, Netherlands
Frank L.J Visseren, UMC Utrecht, Utrecht, Netherlands

2257 Statin-Induced Myopathy is Mediated by Isoprenoid Depletion and is Independent of Serum Cholesterol Levels
Graeme Moffat, Amgen Inc, Seattle, WA

2258 Effect of Naturally Random Allocation to Lower LDL-C Mediated by Polymorphisms in NPC1L1, HMGCR or Both on the Risk of Coronary Heart Disease: a 2x2 Factorial Mendelian Randomization Study
Brian A Ference, Wayne State Univ Sch of Med, Detroit, MI
John M Flack, Wayne State Univ Sch of Med, Detroit, MI

2259 Short-Term Effects of Lifestyle Changes on HDL and the Total Cholesterol / HDL Ratio in the Heart of New Ulm Project
Arthur Sillah, Allina Health, Minneapolis, MN
Jeffrey J VanWormer, Marshfield Clinic Res Fndn, Marshfield, MN

2260 Patterns of Statin Initiation in Patients Undergoing Intermediate to High Risk Non-Cardiac Surgery
Elisabetta Patorno, BWH, Boston, MA
Brian Bateman, BWH, Boston, MA

2261 What is the Prevalence of Familial Hypercholesterolemia in the US?
Sarah D de Ferranti, Boston Children’s Hosp, Boston, MA
R Christopher Sheldrick, Tufts Medical Ctr, Boston, MA

2262 Attainment of Lipid Levels in Patients at High Cardiovascular Risk: Results from a U.S. Managed Care Population Study
Dylan Steen, TIMI Study Group, Brigham and Women's Hosp, Boston, MA
JoAnne Foody, Brigham and Women's Hosp, Boston, MA

2263 A Single Infusion of MDCO-216 (ApoA-1 Milano/POPC) Induces Marked Changes on the Lipid Profile
David G Kalland, The Meds Company, Zurich, Switzerland
Peter LJ Wijngaard, The Meds Company, Zurich, Switzerland
**Abstract Poster Session**

**Magnetic Resonance Imaging: LV Function and Heart Failure**

**South Hall A2 - Core 1**

Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

**Poster Professor:**  
Albert deRoos, Leiden, Netherlands

**1251**  
*An Improved Approach to Cardiac Volumetrics: A Cardiac MRI Technique to Further Augment Accuracy*  
Geetha Rayarao, Allegheny General Hosp, Pittsburgh, PA  
Mark Doyle, Allegheny General Hosp, Pittsburgh, PA

**1252**  
*Usefulness of Magnetic Resonance Feature Tracking to Measure Both Systolic and Diastolic Cardiac Function: Comparison With Pressure Volume Loop Analysis in Animal Study*  
Hideko Ozawa, Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan  
Yoshiki Sawa, Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan

**1253**  
*Quantification and Z-Score “Normalization” of Regional Myocardial Contractile Data in Ischemic Coronary Artery Disease Patients*  
Matthew C Henn, Washington Univ Sch of Med, Barnes Jewish Hosp, Saint Louis, MO  
Michael K Pasque, Washington Univ Sch of Med, Barnes Jewish Hosp, Saint Louis, MO

**1254**  
*Association of Cardiorespiratory Fitness with Non-invasive Measures of Arterial and Ventricular Stiffness: The Dallas Heart Study*  
Ambarish Pandey, Univ of Texas Southwestern Medical Ctr, Dallas, TX  
Jaretty Berry, Univ of Texas Southwestern Medical Ctr, Dallas, TX

**1255**  
*Left Ventricular Shape Analysis Predicts Heart Failure and Coronary Heart Disease: the Multi-Ethnic Study of Atherosclerosis (MESA)*  
Bharath Ambale Venkatesh, Johns Hopkins Univ, Baltimore, MD  
João A Lima, Johns Hopkins Univ, Baltimore, MD

**1256**  
*CMR Mapping of Mechanical Activation Time in Patients with Heart Failure and Left Bundle Branch Block: Methods and Initial Results*  
Frederick H Epstein, Univ of Virginia, Charlottesville, VA

**1257**  
*Prognostic Impact of Pulmonary Vascular Resistances Estimated by Cardiac Magnetic Resonance in Chronic Heart Failure With Reduced Ejection Fraction*  
Óscar Fabregat-Andrés, Consorcio Hosp General Univirio de Valencia, Valencia, Spain  
Julio Cortijo, Consorcio Hosp General Univirio de Valencia, Valencia, Spain

**1258**  
*Relief of Myocardial Edema in Advanced Decompensated Heart Failure is Associated with Improved Left Ventricular Systolic and Diastolic Function*  
Frederik H Verbrugge, Ziekenhuis Oost-Limburg (Genk), Genk, Belgium  
David Verhaert, Ziekenhuis Oost-Limburg (Genk), Genk, Belgium

**1259**  
*MRI Assessment of Diastolic and Systolic Intraventricular Pressure Gradients in Heart Failure*  
Julio A Chirinos, Univ of Pennsylvania, Philadelphia, PA

**1260**  
*Older Adults With Unrecognized Myocardial Infarction Have Increased Risk of Heart Failure*  
Jie J Cao, St Francis Hosp, Roslyn, NY  
Andrew E Arai, NIH, Bethesda, MD
Abstract Poster Session

APS.108.02

**Magnetic Resonance Imaging: Myocardium (Nonischemic)**

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Charles B Higgins, San Francisco, CA

1261 **Validating the Gold-standard: Steady-State Free Precession Sequence for Assessment of Left Ventricular and Right Ventricular Mass**

Carlos G Santos-Gallego, Icahn Sch of Med at Mount Sinai, New York City, NY
Javier Sanz, Icahn Sch of Med at Mount Sinai, New York City, NY

1262 **WITHDRAWN**

1263 **Clinical Gadolinium-Free Magnetic Resonance Imaging With Magnetization Transfer Contrast Detects Cardiac Fibrosis With High Sensitivity and Specificity Compared to Late Gadolinium Enhanced Imaging**

Tori A Stromp, Univ of Kentucky, Lexington, KY
Moriel H Vandsburger, Univ of Kentucky, Lexington, KY

1264 **Can Cardiovascular Magnetic Resonance Identify Patients With Cardiac Sarcoidosis and Preserved Left Ventricular Ejection Fraction at Risk for Death and Sustained Ventricular Tachycardia?**

Gillian Murtagh, Univ of Chicago, Chicago, IL
Amit R Patel, Univ of Chicago, Chicago, IL

1265 **CMR Derived Myocardial Mechanics in Patients With Systemic Sarcoidosis**

Beatriz Jauregui Garrido, Mount Sinai Sch of Med, New York, NY
Javier Sanz, Mount Sinai Sch of Med, New York, NY

1266 **Clinical Significance of Flow Energy Loss inside the Left Ventricle via Cardiovascular Magnetic Resonance in Non-ischemic Dilated Cardiomyopathy**

Takeru Nabetu, Kitaiano Univ Sch of Med, Kanagawa, Japan
Junya Ako, Kitaiano Univ Sch of Med, Kanagawa, Japan

1267 **Multiparametric MRI Detects Early Biomarkers of Cardiomyopathy in C57Bl/6 Mice Fed a High-fat Diet**

Frederick H Epstein, Univ of Virginia, Charlottesville, VA

1268 **Scar Pattern in Chagas Heart Disease**

Mahmoud I Traina, OV-UCLA Medical Ctr, Sylmar, CA
Sheba K Meymandi, OV-UCLA Medical Ctr, Sylmar, CA

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Abstract Poster Session

APS.519.01

**Mechanistic Insights into Aortic Valve Disease**

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Jordan D Miller, Rochester, MN

5676 **Predictions of Wall-shear Stress on the Bicuspid Aortic Valves Using Three-dimensional Fluid-structure Interaction Models**

Kai Cao, Univ of Notre Dame, Notre Dame, IN
Philippe Sucosky, Univ of Notre Dame, Notre Dame, IN

5677 **Impaired Autophagy Contributes to Toll Like Receptor-4 Induced Osteogenesis in Human Aortic Valve Interstitial Cells**

Xinsheng Deng, Univ of Colorado Denver, Aurora, CO
James Jaggers, Univ of Colorado Denver, Aurora, CO

5678 **The Stimulation of P2y2 Receptor Induced Mineral Regression of Aortic Valve Stenosis Through Caaxi/Slc4a3 Metabolon Activation**

Rihab Bouchareb, CRIUCPQ, Quebec, QC, Canada
Patrick Mathieu, CRIUCPQ, Quebec, QC, Canada
Abstract Poster Session

Myocarditis and Pericarditis

APS.518.01

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #

Poster Professor:
Jason C Schultz, La Jolla, CA

5636 Prospective Evaluation of Diagnostic Performance and Safety of Implementing a Biventricular Approach for Endomyocardial Biopsy in Patients With Suspected Myocarditis
Philipp Lurz, Heart Ctr of the Univ Leipzig, Leipzig, Germany
Gerhard Schuler, Heart Ctr of the Univ Leipzig, Leipzig, Germany

5637 Factors Influencing Detection of Gadolinium Delayed Enhancement in Acute Myopericarditis
Maria Luaces, Hosp Clinico San Carlos, Madrid, Spain
Carlos Macaya, Hosp Clinico San Carlos, Madrid, Spain

5638 Foxo3a Regulates Response to Coxsackievirus B3 Myocarditis via microRNA-155 Triggered NK-cell Activity
Luise Holzhauser, Albert Einstein Coll of Med, Jacobi Medical Ctr, Bronx, NY
Carsten Skurk, Charité Univ Med Berlin, Berlin, Germany

5639 Curcumin Ameliorates Experimental Autoimmune Myocarditis by Inducing M2 Macrophage Polarization
Juan Zhou, Key Lab of Molecular Cardiology of Shannxi Province, Xi’an, China
Zuyi Yuan, Key Lab of Molecular Cardiology of Shannxi Province, Xi’an, China

5640 Anakinra - A Promising New Therapy for Idiopathic Recurrent Pericarditis
Sonia Jain, Mayo Clinic, Rochester, MN
Eric L Matteson, Mayo Clinic, Rochester, MN

5641 Non-Cardiac Chest Pain: Is It Really?
Nicholas Boniface, Northeast Ohio Medical Univ (NEOMED), Rootstown, OH
J Ronald Mikolich, Northeast Ohio Medical Univ (NEOMED), Rootstown, OH

5642 Gender Disparity in Outcomes of Myocarditis
John Cherian, Allegheny Health Network, Pittsburgh, PA
Raef Hajjali, Allegheny Health Network, Pittsburgh, PA

5643 The Impact of Right Ventricular Involvement on Prognosis of Takotsubo Cardiomyopathy
Nobuyuki Kagiyama, The Sakakibara Inst of Okayama, Okayama, Japan
Kiyoshi Yoshida, The Sakakibara Inst of Okayama, Okayama, Japan

5644 Prevalence and Clinical Significance of Left Ventricular Outflow Tract Obstruction in Patients With Takotsubo Cardiomyopathy
Birke Schneider, Sana Kliniken, Lübeck, Germany
Udo Sechtem, Robert-Bosch-Krankenhaus, Stuttgart, Germany

5645 Carbon Monoxide Intoxication Induced Left Ventricular Dysfunction
Jin-Sun Park, Ajou Univ Sch of Med, Suwon, Republic of Korea
Joon-Han Shin, Ajou Univ Sch of Med, Suwon, Republic of Korea
### Abstract Poster Session

#### APS.511.02

**Myocyte Restructuring and Cardiac Function**

**South Hall A2 - Core 5**  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**  
Polina Goichberg, Boston, MA

**5466**  
**Myoscape Controls Cardiomyocyte Calcium Cycling and Contractile Function in vivo via Regulation of L-type Calcium Channel Surface Expression**  
Matthias Eden, Universitiy Hosp Schleswig Holstein, Kiel, Germany  
Norbert Frey, University Hosp Schleswig Holstein, Kiel, Germany

**5467**  
**Caveolae Specific Location of L-type Calcium Channels and Their Role in Atrial Calcium Cycling**  
Alexey V Glukhov, Imperial Coll London, London, United Kingdom  
Julia Gorelik, Imperial Coll London, London, United Kingdom

**5468**  
**WITHDRAWN**

**5469**  
**Lack of the Alpha-11 Integrin in the Heart is Associated With Progressive Diastolic Dysfunction, Myofibrillar Disarray and Impaired Cardiomyocyte Growth**  
Robert A Civitarese, Keenan Res Ctr for Biomedical Science, St Michael's Hosp, Univ of Toronto, Toronto, ON, Canada  
Kim A Connelly, Keenan Res Ctr for Biomedical Science, St Michael's Hosp, Univ of Toronto, Toronto, ON, Canada

### Abstract Poster Session

#### APS.105.01

**Novel Insights into Cardiac Remodeling After Myocardial Infarction from Imaging Structure, Metabolism and Function**

**South Hall A2 - Core 1**  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**  
E E van der Wall, Leiden, Netherlands

**1157**  
**Targeting Acute Post-Infarct Inflammation with 11C-Methioinine or 18F-Deoxyglucose Positron Emission Tomography in Mice**  
James T Thackeray, Hannover Medical Sch, Hannover, Germany  
Frank M Bengel, Hannover Medical Sch, Hannover, Germany

**1158**  
**The Prognostic Value of Mechanical Dyssynchrony Measured by GSPECT MPI versus Electrical Dyssynchrony Measured by QRS Duration Among Patients With an Ejection Fraction < 35%**  
Paul L Hess, Duke Clinical Res Inst, Durham, NC  
Salvador Borges-Neto, Duke Univ Medical Ctr, Durham, NC

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Abstract Poster Session

Novel Risk Factors for Atrial Fibrillation

South Hall A2 - Core 2

Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Rajat Deo, Philadelphia, PA

Increased Carotid Intima-Media Thickness and Presence of Carotid Plaque are Associated With Increased Stroke Incidence in Atrial Fibrillation: The Atherosclerosis Risk in Communities (ARIC) Study

Wobo Bekwelem, Univ of Minnesota, Minneapolis, MN
Lin Y Chen, Univ of Minnesota, Minneapolis, MN

A New Scoring System for the Prediction of Paroxysmal Atrial Fibrillation Progression and Relationship with Clinical Outcomes

Hyung Wook Park, Chonnam Natl Univ Hosp, Gwangju, Republic of Korea
Myung Ho Jeong, Chonnam Natl Univ Hosp, Gwangju, Republic of Korea

The ATRIA Stroke Risk Score Predicts Ischemic Stroke Better than CHADS2 and CHA2DS2-VASc in a large Swedish Cohort of Patients with Atrial Fibrillation

Sara Aspberg, Karolinska Instt, 182 88 Stockholm, Sweden
Daniel Singer, Harvard Med, Boston, MA

Atrial Fibrillation and Incident End-Stage Renal Disease: the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study

Wesley T O’Neal, Wake Forest Sch of Med, Winston Salem, NC
Elsayed Z Soliman, Wake Forest Sch of Med, Winston Salem, NC

Does Repeat Measurement of High Sensitivity Troponin I Improve Prediction of Cardiovascular Events in Atrial Fibrillation?

Ziad Hijazi, Uppsala Clinical Res Ctr, Uppsala, Sweden
Lars Wallentin, Uppsala Clinical Res Ctr, Uppsala, Sweden

Effect of Antihypertensive Therapy on Risk of Atrial Fibrillation: A Meta-Analysis of Large-Scale Randomized Trials

Connor A Emdin, Univ of Oxford, Oxford, United Kingdom
Kazem Rahimi, Univ of Oxford, Oxford, United Kingdom
2480 Mitral Annular Calcification and Incident Atrial Fibrillation in the Multi-Ethnic Study of Atherosclerosis
Wesley T O’Neal, Wake Forest Sch of Med, Winston Salem, NC
Elsayed Z Soliman, Wake Forest Sch of Med, Winston Salem, NC

2481 Physical Activity and Atrial Fibrillation: Results From the Multi-ethnic Study of Atherosclerosis (MESA)
Aneesh Bapat, Johns Hopkins Hosp, Baltimore, MD
Alain Bertoni, Wake Forest Univ, Winston-Salem, NC

2482 Atrial Fibrillation is Associated With Increased Risk for Myocardial Infarction in the Cardiovascular Health Study (CHS)
Matthew C Tattersall, Univ of Wisconsin-Madison Sch of Med and Public Health, Madison, WI
Mohamed H Hamdan, Univ of Wisconsin-Madison Sch of Med and Public Health, Madison, WI

2483 Cohort Under-Ascertainment of Prevalent Atrial Fibrillation Using the Baseline 12-Lead ECG: Implications for Atrial Fibrillation “Prediction”
Jonathan W Dukes, Univ of California, San Francisco, San Francisco, CA
Gregory M Marcus, Univ of California, San Francisco, San Francisco, CA

Abstract Poster Session

APS.212.09

Novel Risk Factors for CAD II
South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #

2555 Role of Age and Sex in Short-term Mortality After STEMI in Eastern Europe: the ISACS-TC Initiative
Edina Cenko, Univ of Bologna, Bologna, Italy
Olivia Manfrini, Univ of Bologna, Bologna, Italy

2556 Optimal Gait Speed Cut-off Values According to Age and Gender in Predicting Cardiovascular Events in Patients after Acute Myocardial Infarction
Chika Kawashima, Yokohama City Univ Medical Ctr, Yokohama, Japan
Kazuo Kimura, Yokohama City Univ Medical Ctr, Yokohama, Japan

2557 Early Increase in Serum Fatty Acid Binding Protein 4 Levels in Patients with Acute Myocardial Infarction: Lipolysis as a Novel Marker for Myocardial Ischemia
Hiroaki Sunaga, Gunma Univ Graduate Sch of Health Sciences, Maebashi, Japan
Masahiko Kurabayashi, Gunma Univ Graduate Sch of Med, Maebashi, Japan

2558 Performance of the Mortality Probability Model (MPM0) in a Contemporary Cardiac Intensive Care Unit
Maria E Rodrigo, Medstar Washington Hosp Ctr, Washington, DC
Howard A Cooper, Westchester Medical Ctr, Valhalla, NY

2559 Gender-specific Coronary Artery Plaque Characteristics and Risk of Acute Myocardial Infarction: From the Confirm Registry Brian O Hartaigh, Weill Cornell Medical Coll, Milford, CT
James K Min, NewYork-Presbyterian Hosp and Weill Cornell Medical Coll, New York, NY

2560 Circulating Levels of stTREM-1 and Mortality in Patients With an Acute Myocardial Infarction
Tabassome Simon, APHP, CHU St antoine; INSERM-U 1148; UPMC Paris06., paris, France

2561 Novel risk score to predict in-hospital mortality in a contemporary Cardiac Intensive Care Unit
Maria E Rodrigo, Medstar Washington Hosp Ctr, Washington, DC
Howard A Cooper, Westchester Medical Ctr, Valhalla, NY

2562 Identifying Patients at High Risk for Readmission following Treatment for Acute Myocardial Infarction: a Data-Centric Approach
Nevin C Baker, Medstar Washington Hosp Ctr, Washington, DC
Ron Waksman, Medstar Washington Hosp Ctr, Washington, DC

2563 Association Between Chronic Obstructive Pulmonary Disease and Risk of Coronary Vasospastic Angina: a National Database Study
Ming-jui Hung, Chang Gung Mem Hosp., Keelung, Taiwan
Hsiu-Chen Lin, Taipei Medical Univ Hosp, Taipei, Taiwan

2564 Impact of Asthma Status on Risk of Incident Myocardial Infarction: A population-Based Case-Control Study
Duk Won Bang, Soonchunhyang Univ Hosp, Seoul, Republic of Korea
Young J Juhn, Mayo Clinic, Rochester, MN
Abstract Poster Session

**Nutrition in CVD Risk and Prevention I**

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:** Lawrence J Appel, Baltimore, MD

**2174** The Accuracy of Online Reporting by Major News Media Outlets on a Landmark Cardiovascular Prevention Trial

Vibhav S Rangarajan, Univ of Illinois at Chicago, Chicago, IL
Jalees Rehman, Univ of Illinois at Chicago, Chicago, IL

**2175** The Effects of Typical Levels of Consumption of Dietary Sugars on Traditional Risk Factors for Cardiovascular Disease and Triglycerides

Joshua L Lowndes, Rippe Lifestyle Inst, Celebration, FL
James Rippe, Rippe Lifestyle Inst, Celebration, FL

**2176** The Cardioprotective Effect of the Modern Farmed Atlantic Salmon - Dietary Spillover from Fish

Trond Brattelid, The Natl Inst of Nutrition and Seafood Res, Bergen, Norway

**2177** Effect of Whole Soy and Purified Daidzein on Ambulatory Blood Pressure and Endothelial Function - A Six-month Randomized Controlled Trial among Chinese Equol-producing Postmenopausal Women with Prehypertension or Untreated Early Hypertension

Zhao-min Liu, The Chinese Univ of Hong Kong, Hong Kong, China
Jean Woo, The Chinese Univ of Hong Kong, Hong Kong, China

**2178** Effect of Dietary Salt Restriction on Blood Pressure in Chinese Adults: A Meta-Analysis

Andrew E Moran, Columbia Univ Medical Ctr, New York, NY
Dong Zhao, Beijing Anzhen Hosp, Capital Medical Univ and Beijing Inst of Heart, Lung and Blood Vessel Diseases, Beijing, China

**2179** Salt Taste Detection and Recognition Thresholds - Reliability of a Rapid Sensory Analysis Method

Jean-François Giguère, Laval Univ, Québec, QC, Canada
Alexandra Proulx Bellhumeur, Laval Univ, Québec, QC, Canada

**Abstract Poster Session**

**Obesity in CVD Risk and Prevention I**

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:** TBD

**2274** Body Fatness is Associated With Carotid Intima-Media Thickness in Non-Obese Adults

Helena Podrouzkova, Mayo Clinic, Rochester, MN
Francisco Lopez-Jimenez, Mayo Clinic, Rochester, MN

**2275** Weight Gain is Not a Significant Predictor of Coronary Artery Disease Severity

Paul A Gurbel, Sinai Hosp Baltimore, Baltimore, MD

**2276** Hyperuricemia Could Predict Resistance in Weight Loss and Weight Loss-induced BP reduction Associated With Sympathetic Activation

Kazuko Masuo, Baker IDI Heart & Diabetes Inst, Melbourne Vic, Australia
2277 Impact of Obesity, Metabolic Syndrome, and Nonalcoholic Fatty Liver Disease on Systemic Inflammation and Subclinical Atherosclerosis: The Multi-Ethnic Study of Atherosclerosis (MESA)
Mahmoud S Al Rifai, Johns Hopkins Med, Baltimore, MD
Ron Blankstein, Brigham and Women’s Hosp, Boston, MA

2278 Association of Obesity Susceptibility Gene Variants With Cardiometabolic Phenotypes in Morbid Obesity
Sabine Fenk, Univ Hosp Regensburg, Regensburg, Germany
Andrea Baessler, Univ Hosp Regensburg, Regensburg, Germany

2279 The Impact of Body-Mass Index Trajectories During Early Adulthood on Cardiac Mechanics in Middle Age: The CARDIA Study
Sadiya S Khan, Northwestern Univ Feinberg Sch of Med, Chicago, IL
Norrina B Allen, Northwestern Univ Feinberg Sch of Med, Chicago, IL

2280 Quantification of Femoral Adipose Tissue Provides Novel Mechanistic Insights Into the “Obesity Paradox”: a Translational Approach
Alexios S Antonopoulos, Univ of Oxford, Oxford, United Kingdom
Charalambos Antoniades, Univ of Oxford, Oxford, United Kingdom

2281 Indices of Adiposity and Subclinical Cardiovascular Disease: the Jackson Heart Study (JHS)
Adedotun A Ogunsua, Univ of Massachusetts Medical Sch, Worcester, MA
Cheryl Clark, Brigham and Women’s Hosp, Boston, MA

2282 Alterations of a Cellular Cholesterol Metabolism Network is a Molecular Feature of Obesity-Related Type 2 Diabetes and Cardiovascular Disease
Jingzhong Ding, Wake Forest Sch Of Med, Winston Salem, NC
Yongmei Liu, Wake Forest Sch Of Med, Winston Salem, NC

2283 Obesity Phenotype and the Risk of Hypertension and Type 2 Diabetes: Does Cardiorespiratory Fitness Matter?
Sae Young Jae, Univ of Seoul, Seoul, Republic of Korea
Bo Fennhall, Univ of Illinois at Chicago, Chicago, IL

Abstract Poster Session
APS.601.04h
Optimizing PCI Outcomes
South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Carlo Briguori, Naples, Italy

6032 Gender Differences in Impact of Vascular Endothelial Dysfunction or CYP2C19 Polymorphism on Clinical Outcome Following Coronary Stenting in Patients with Coronary Heart Disease
Seiji Hokimoto, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

6033 Chronic Kidney Disease Status Modifies the Association of CYP2C19 Polymorphism in Predicting Clinical Outcomes Following Coronary Stent Implantation
Noriaki Tabata, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

WITHDRAWN

6034 Bivalirudin is Associated With Decreased Cardiovascular Outcomes and Bleeding as Compared to Heparin During PCI: A Meta-Analysis
Pawan Patel, Regions Hosp, St Paul, MN
Rohit Arora, Chicago Medical Sch, Chicago, IL

Abstract Poster Session
APS.723.01
Pathogenesis of Pulmonary Hypertension
South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Sebastien Bonnet, Quebec City, QC, Canada

7566 Smooth Muscle-specific Deletion of MURC/Cavin-4 Alleviates Pulmonary Arterial Hypertension
Naohiko Nakashishi, Kyoto Prefectural Univ of Med, Kyoto, Japan
Tomomi Ueyama, Kyoto Prefectural Univ of Med, Kyoto, Japan

7567 MIR-223 Improves Experimental Pulmonary Arterial Hypertension
Jolyane Meloche, Laval Univ, Quebec, QC, Canada
Sebastien Bonnet, Laval Univ, Quebec, QC, Canada
**Abstract Poster Session**

**Pediatric Congenital and Acquired Heart Disease: General Topics**

**South Hall A2 - Core 3**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**Poster Professor:**
Andrew Redington, Cincinnati, OH

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**3129**

Hyperoxia Reduces Oxygen Consumption in Children With Pulmonary Hypertension
Guo Long, Stollery Children's Hosp, Univ of Alberta, Mazankowski Alberta Heart Inst, Edmonton, AB, Canada
Ian Adatia, Stollery Children's Hosp, Univ of Alberta, Mazankowski Alberta Heart Inst, Edmonton, AB, Canada

**3130**

Maladaptive Aortic Properties after the Norwood Procedure: an Angiographic Analysis of the Pediatric Heart Network Single Ventricle Reconstruction Trial
Sarah T Plummer, Duke Univ Medical Ctr, Durham, NC
Andrew D McCulloch, Univ of California at San Diego, La Jolla, CA

**3131**

Human Fetal Growth Model of Hypoplastic Left Heart Syndrome: Reduced Ventricular Growth Due to Decreased Preload
Sukriti Dewan, Univ of California at San Diego, La Jolla, CA

**3132**

Prenatal Diagnosis is Associated with a Lower Rate of Pre-Operative Brain Injury in Newborns with Transposition of the Great Arteries
Shabnam Peyvandi, Univ of California San Francisco, San Francisco, CA
Patrick McQuillen, Univ of California San Francisco, San Francisco, CA

**3133**

Survival in Children With Trisomy 21 Undergoing Single Ventricle Palliation
John Colquitt, Baylor Coll of Med/Texas Children’s Hosp, Houston, TX
William B Kyle, Baylor Coll of Med/Texas Children’s Hosp, Houston, TX

**3134**

Respiratory Ciliary Motion Defect Predicts Regional Brain Abnormalities and Increased Extra Axial CSF Fluid in Neonates With Complex Congenital Heart Disease
Aishok Panigraphy, Children’s Hosp of Pittsburgh of UPMC, Pittsburgh, PA
Cecilia W Lo, Children’s Hosp of Pittsburgh of UPMC, Pittsburgh, PA
**Possible Implication of Oxidative Stress in Development of Coronary Vascular Lesions in Kawasaki Disease**
Kenji Hamaoka, Kyoto Prefectural Univ of Med, Kyoto, Japan
Kazuyuki Ikeda, Kyoto Prefectural Univ of Med, Kyoto, Japan

**The Transcriptome of Kawasaki Disease Arteritis Reveals Activation of T Lymphocyte and Natural Killer Cell Function, Antigen Presentation, Immunoglobulin Production, and Interferon Response**
Anne H Rowley, Northwestern Univ Feinberg Sch of Med, Chicago, IL
Todd Wylie, Washington Univ, St Louis, MO

**The Evolution of Cardiac Output and Cerebral Blood Flow in the Perinatal Transition in Hypoplastic Left Heart Syndrome: a Longitudinal Study**
Lindsay Mills, Univ of Alberta, Edmonton, AB, Canada
Lisa K Hornberger, Univ of Alberta, Edmonton, AB, Canada

**Challenges of Anticoagulation during Cardiopulmonary Bypass in Children: Impact of Low Antithrombin Levels**
Cedric Manlhiot, The Hosp for Sick Children, Toronto, ON, Canada
Brian W McCrindle, The Hosp for Sick Children, Toronto, ON, Canada

**Cerebral Oxygenation on Morning of Surgery Dependent on Time-to-Surgery in Infants with Critical Congenital Heart Disease**
Jennifer M Lynch, Univ of Pennsylvania, Philadelphia, PA

**Percutaneous Coronary Intervention and Stent Comparisons**

**Comparison of Angiographic and 1-year Clinical Outcomes between Long Single Stent and Overlapping Double Stent in Patients with Newer Generation Drug-Eluting Stents for Similar Long Lesions**
Naoki Mori, Osaka Rosai Hosp, Osaka, Japan
Jun Tanouchi, Osaka Rosai Hosp, Osaka, Japan

**Differences in the Development of Restenosis Over Time for Various Drug-Eluting Stents**
Kosei Tanaga, Chiba Cariovascular Ctr, Chiba-ken, Japan

**Comparison of First-Generation and Second-Generation Drug Eluting Stents in Real-World Acute Coronary Syndrome Population - Data from Zabrze-Katowice Registry**
Wojciech Wojakowski, 3rd Dept of Cardiology, Katowice-Ochojec, Silesian Medical Univ, Katowice, Poland

**Double versus Provisional Stent Strategy for Coronary Bifurcation Using Drug-Eluting Stents: A Meta-Analysis of Randomized Controlled Trials**
Alok Saurav, Creighton Univ Medical Ctr, Omaha, NE
William Biddle, Creighton Univ Medical Ctr, Omaha, NE

**Withdrawn**
Abstract Poster Session

Prevention and Clinical Trials

South Hall A2 • Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Carl Lavie, New Orleans, LA

2264 Predictors of Incident Conduction System Disease in the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT)
Thomas A Dewland, Univ of California, San Francisco, San Francisco, CA
Gregory M Marcus, Univ of California, San Francisco, San Francisco, CA

2265 Metabolomic Changes during Short-term Water-only Fasting: the FEELGOOD Trial
Benjamin D Horne, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT
Jeffrey L Anderson, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT

2266 Aspirin Use is Not Associated With Primary Prevention of All-Cause, Cardiovascular, or Oncologic Mortality
Bethany Doran, New York Univ, New York, NY
Sripal Bangalore, New York Univ, New York, NY

2267 Randomized Trial of 1-hour Sodium Bicarbonate Vs. Standard Saline Hydration in Patients With Chronic Kidney Disease Undergoing Intra-arterial Contrast Administration
Judith Kooiman, Leiden Univ Medical Ctr, Leiden, Netherlands
Menno V Huisman, Leiden Univ Medical Ctr, Leiden, Netherlands

2268 Improvements in Cardiovascular Disease Risk Factors After Five Years of a Population-Based Intervention: The Heart of New Ulm Project
Abbey C Sidebottom, Allina Health, Minneapolis, MN
Jeffery J VanWormer, Marshfield Clinic Res Fndn, Marshfield, WI

2269 Genotype-Guided Vitamin K Antagonist Dosing Algorithms Improve Time in Therapeutic Range: A Systematic Review and Meta-Analysis
Emilie P Belley-Côté, McMaster Univ, Hamilton, ON, Canada
Richard Whitlock, McMaster Univ, Hamilton, ON, Canada

2270 Efficacy and Safety of an Anticoagulation Clinic in Low-income Brazilian Patients With Heart Disease: a Randomized Clinical Trial
Maria A P Martins, Univ Federal de Minas Gerais, Belo Horizonte-MG, Brazil
Antonio L P Ribeiro, Univ Federal de Minas Gerais, Belo Horizonte-MG, Brazil

6059 Differential Responses of Local Coagulation after Implantation of Second-Generation Drug-Eluting Stent Compared with First-Generation Drug-Eluting Stents
Hiromu Yamazaki, Tokushim Univ Hosp, Tokushima, Japan
Masataka Sata, Tokushim Univ Hosp, Tokushima, Japan

6060 Comparison of Late Catch-Up Phenomenon Between Sirolimus-Eluting Stent and Everolimus-Eluting Stent During 3 Years Follow-Up - a Propensity Matched Study - Norihiro Kobayashi, Saiseikai Yokohama-city Eastern Hosp, Yokohama, Japan
Masatsugu Nakano, Saiseikai Yokohama-city Eastern Hosp, Yokohama, Japan

6061 Longest Available Follow-Up of Drug-Eluting Stents in Real World Practice - Outcomes up to 12 Years From the DESIRE Registry
Ricardo A Costa, Hosp do Coração - Associação do Sanatório Sírio, São Paulo, Brazil
J Eduardo Sousa, Hosp do Coração - Associação do Sanatório Sírio, São Paulo, Brazil

6062 Development and Validation of a Risk Score Predicting 5-Year Mortality after Percutaneous Coronary Intervention for Selecting Suitable Patients for Biodegradable Stents
Nick van Boven, Medical Ctr Alkmaar, Alkmaar, Netherlands
Eric Boersma, Erasmus Medical Ctr, Rotterdam, Netherlands

6063 Long-term Stent-Related and Patient-Related Outcomes of Second-Generation Everolimus-Eluting Xience V Stents versus Zotarolimus-Eluting Resolute Stents in Real-World Practice: Three Year Results From the Multicenter Prospective EXCELLENT and RESOLUTE-Korea Registries
Jonghanne Park, Seoul Nati Univ Hosp, Seoul, Republic of Korea
Hyo-Soo Kim, Seoul Nati Univ Hosp, Seoul, Republic of Korea

6064 Drug Eluting Stent Implantation in Multivessel Coronary Artery Disease Reduces the Adverse Effect of Diabetes on Late Outcomes When Compared to Bare Metal Stent
Robert H Habib, American Univ of Beirut, Beirut, Lebanon

Elizabeth Barnett Pathak, Univ of South Florida, Tampa, FL
Amit P Pathak, Bay Area Hospists, Tampa, FL
Abstract Poster Session

Reaching the AHA 2020 Goals: Strategies for Success

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Board #

Poster Professor:
Donald M Lloyd-Jones, Chicago, IL

2695
Ideal Cardiovascular Health in Younger Age and Functional Disability in Older Age - The Chicago Heart Association Detection Project in Industry (CHA) 32 Year Follow-up Health Survey
Thanh-Huyen T Vu, Northwestern Univ, Chicago, IL
Martha L Daviglus, Univ of Illinois at Chicago, Chicago, IL

2696
Outcomes and Resource Utilization in ST Elevation Myocardial Infarction in the United States: Evidence for socioeconomic disparities
Shikhar Agarwal, Cleveland Clinic, Cleveland, OH
Venu Menon, Cleveland Clinic, Cleveland, OH

2697
Ideal Cardiovascular Health is Associated With a Lower Prevalence of Adverse Left Ventricular Remodeling Patterns in the Framingham Offspring Study
Matthew Naylor, Brigham and Women’s Hosp, Boston, MA
Vanessa Xanthakis, Boston Univ Sch of Med, Boston, MA

2698
Defining the Minimal Detectable Within-Person Change in Life’s Simple 7 (LS7) Scores
Monika M Safsford, Univ of Alabama at Birmingham, Birmingham, AL
Paul Muntner, Univ of Alabama at Birmingham, Birmingham, AL

2699
Will Access to Timely Primary Care Influence the Success of the American Heart Association’s 2020 Strategic Impact Goals? A Report From the 2012 National Health Interview Survey
Lakshmi Venkitachalam, Univ of Missouri-Kansas City, Kansas City, MO
Karen B Williams, Univ of Missouri-Kansas City, Kansas City, MO

Abstract Poster Session

Receptor Pharmacology

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Board #

Poster Professor:
Canan G Nebigil, Illkirch, France

7313
Proepicardial Prokineticin Receptor as a Developmental Link Between Heart and Kidney
Canan G Nebigil, CNRS, Univ of Strasbourg, Illkirch, France

7314
Inhibitory Effects of Eicosapentaenoic Acid on Arterial Calcification in Klotho Mutant Mice
Kazufumi Nakamura, Okayama Univ, Okayama, Japan
Hiroshi Ito, Okayama Univ, Okayama, Japan

7315
Cellular Basis of Angiotensin-(1-7) Produced Augmentation on Left Ventricular Contractile Function in Heart Failure
Xiaowei Zhang, Wake Forest Sch of Med, Winston-Salem, NC
Che Ping Cheng, Wake Forest Sch of Med, Winston-Salem, NC

7316
Telerinobufagin, a Novel Cardiotonic Steroid, Promotes Myocardial and Renal Fibrosis via Na/K-ATPase Profibrotic Signalling Pathways
David J Kennedy, Cleveland Clinic, Cleveland, OH
W H Wilson Tang, Cleveland Clinic, Cleveland, OH

7317
Inhibition of Na/K-ATPaseSignaling Regulates Cardiac C-Kit Cell Expression in Mice with Chronic Kidney Dysfunction
Christopher A Drummond, Univ of Toledo, Toledo, OH
Jiang Tian, Univ of Toledo, Toledo, OH
Abstract Poster Session

**APS.302.01**

**Regulation of Cardiac Structural Development**

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**
Poster Professor:
Sean M Wu, Stanford, CA

3036  *Endocardial EphB4 Signaling Regulates Neuregulin-1 Expression and is Critically Required for Myocardial Development*
Jiang Liu, Univ of Southern California, Los Angeles, CA
S Ram Kumar, Univ of Southern California, Los Angeles, CA

3037  *Novel 4-Dimensional Optical Technique to Elucidate Hemodynamic Shear Forces and Initiation of Trabeculation During Cardiac Morphogenesis*
Juhyun Lee, Univ of California Los Angeles, Los Angeles, CA
Tzung Hsiai, Univ of California Los Angeles, Los Angeles, CA

3038  *Genetically-Programmed Suicide of Adrenergic Cells in Mice Produces Left Ventricular Dysfunction as Revealed by High-Resolution Echocardiography*
Aaron P Owyj, Univ of Central Florida, Orlando, FL
Steven N Ebert, Univ of Central Florida, Orlando, FL

3039  *Disruption of HCN2 Leads to Laterality Defects and Cardiac Arrhythmia*
Nian-Qing Shi, Univ of Wisconsin, Madison, WI

3040  *Modeling Adaptive Growth – Biomimetic Culture of Neonatal Aortic Root Explants*
Laura M Piechura, Stanford Univ, Stanford, CA
Harald C Ott, Massachusetts General Hosp, Boston, MA

3041  *Mif1 Regulates Myocyte Proliferation in Postnatal Hearts*
Shalini Muralidhar, UT Southwestern Medical Ctr, Dallas, TX
Hesham Sadek, UT Southwestern Medical Ctr, Dallas, TX

3042  *Hedgehog Signaling and Cardiomyocyte Proliferation*
Stefan M Kren, Univ Of Minnesota, Minneapolis, MN
Daniel J Garry, Univ Of Minnesota, Minneapolis, MN

3043  *Cardiomyocyte miR-29 Promotes Cardiac Remodelling*
Yassine Sassi, Inst für Pharmakologie und Toxikologie, Munich, Germany
Stefan Engelhardt, Inst für Pharmakologie und Toxikologie, Munich, Germany

3044  *An Alpha-1A Adrenergic Receptor Agonist Prevents and Treats Heart Failure*
Megan D Montgomery, UCSF/SFVAMC, San Francisco, CA
Paul C Simpson, UCSF/SFVAMC, San Francisco, CA

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**APS.727.02**

**Risk Factors for Cardiovascular Events**

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**
Poster Professor:
Lin Chen, Minneapolis, MN

7663  *Heart Type Fatty Acid-Binding Protein is a Factor for Predicting Concomitant Presence of Coronary Artery Disease in Patients With Abdominal Aortic Aneurysms*
Akira Funayama, Yamagata Univ Sch of Med, Yamagata, Japan
Isao Kubota, Yamagata Univ Sch of Med, Yamagata, Japan

7664  *Cardiovascular Risk Factors Accelerate Progression of Vascular Aging in the General Population: Results From the Cardiovascular Risk Factors Affecting Vascular Age (crave) Study*
Dimitrios Terentes-Printzios, Athens Medical Sch, Athens, Greece
Christodoulos Stefanadis, Athens Medical Sch, Athens, Greece

7665  *Prevalence, Characteristics, Treatment and In-hospital Outcomes of Diabetes Mellitus in Patients with Acute Myocardial Infarction in China from the China Acute Myocardial Infarction Registry*
Haiyan Xu, Fuwai Hosp, NCCD of China; TIMI Study Group, Brigham and Women's Hosp, Boston, MA
Marc S Sabatine, TIMI Study Group, Brigham and Women's Hosp, Boston, MA

7666  *Bilateral Inflammation in Carotid Arteries in Patients With Coronary Artery Disease is Associated With Increased Rate of Cardiovascular Events*
Georgios Benetos, Athens Medical Sch, Athens, Greece
Christodoulos Stefanadis, Athens Medical Sch, Athens, Greece

7667  *Is the Seasonal Variation in Acute Aortic Dissection Occurrence Associated with Flu Activity?*
Harleen K Sandhu, Univ of Texas Health Science Ctr at Houston, Houston, TX
Charles C Miller, Univ of Texas Health Science Ctr at Houston, Houston, TX
<table>
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<th>Session ID</th>
<th>Title</th>
<th>Authors and Affiliations</th>
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<tr>
<td>7668</td>
<td>Muscular Lipid is Associated With a Risk Factor of Arterial Stiffness</td>
<td>Natsuki Hasegawa, Ritsumeikan University, Kusatsu, Japan&lt;br&gt;Motoyuki lemitsu, Ritsumeikan University, Kusatsu, Japan</td>
</tr>
<tr>
<td>7669</td>
<td>Serum Phosphate Level is a Predictive Marker for Aortic Calcification in Patients Without End-stage Renal Disease</td>
<td>Mitsuo Kinugasa, Kobe Univ Graduate Sch of Med, Kobe, Japan&lt;br&gt;Ken-ichi Hirata, Kobe Univ Graduate Sch of Med, Kobe, Japan</td>
</tr>
<tr>
<td>7670</td>
<td>CD39-associated SNP and Secondary Cardiovascular Events</td>
<td>Burcu Gul, Vanderbilt Univ, Nashville, TN&lt;br&gt;Richard J Gumina, Vanderbilt Univ, Nashville, TN</td>
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<td>7671</td>
<td>Familial Spontaneous Coronary Artery Dissection - Evidence for Genetic Susceptibility</td>
<td>Kashish Goel, Mayo Clinic, Rochester, MN&lt;br&gt;Sharonne Hayes, Mayo Clinic, Rochester, MN</td>
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<td>7672</td>
<td>Impact of Albuminuria on Contrast-induced Acute Kidney Injury and In-hospital Adverse Cardiac Events in Patients Who Underwent Emergency Coronary Intervention</td>
<td>Ayako Kunimura, Chubu-Rosai Hosp, Nagoya, Japan&lt;br&gt;Toyoaki Murohara, Nagoya Univ Graduate Sch of Med, Nagoya, Japan</td>
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<td>7673</td>
<td>Hyperhomocysteinemia Induces CD40+ Monocyte and Inflammatory Monocyte in Chronic Kidney Disease Subjects via DNA Hypomethylation-Related Mechanism</td>
<td>Jiyeon Yang, Temple Univ, Philadelphia, PA&lt;br&gt;Hong Wang, Temple Univ, Philadelphia, PA</td>
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<td>7653</td>
<td>Adverse Epigenetic Signatures by Histone Methyltransferase Set7 Contribute to Vascular Dysfunction in Patients With Type 2 Diabetes</td>
<td>Francesco Paneni, Karolinska Inst, Stockholm, Sweden&lt;br&gt;Francesco Cosentino, Karolinska Inst, Stockholm, Sweden</td>
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<td>7654</td>
<td>Growth Differentiation Factor-15 Independently Predicts 2 Year Mortality in Patients With Acute Coronary Syndrome: Observations From the A to Z Trial</td>
<td>Ethan C Kosova, Brigham and Women's Hosp, Boston, MA&lt;br&gt;David A Morrow, Brigham and Women's Hosp, Boston, MA</td>
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<td>7655</td>
<td>Burden of Coronary Atherosclerosis and Cardiovascular Events in Men and Women with Stable Ischemic Heart Disease</td>
<td>Subroto Acharjee, Einstein Medical Ctr Philadelphia, Philadelphia, PA&lt;br&gt;William Weintraub, Christiana Care Health System, Newark, DE</td>
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<td>7656</td>
<td>Irregular Blood Flow Patterns in the Development of Pulmonary Hypertension</td>
<td>Vitaly O kheyfets, Univ of Colorado/Children's Hosp Colorado, Aurora, CO&lt;br&gt;Robin Shandas, Univ of Colorado, Denver</td>
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<td>7657</td>
<td>Assessment of Coronary Artery Disease Severity and Prognostic Factors for Cardiovascular Events in Patients With Lower Limb Artery Disease</td>
<td>Hiroyuki Hikita, Yokosuka Kyosai Hosp, Yokosuka, Japan&lt;br&gt;Mitsuaki Isobe, Tokyo Medical and Dental Univ, Tokyo, Japan</td>
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<td>7658</td>
<td>The Endothelial Nitric Oxide Synthase Gene -786T/C Polymorphism is a Significant Predictive Factor for Myocardial Lactate Production During Acetylcholine-Provoked Coronary Spasm</td>
<td>Koichi Kaikita, Kumamoto Univ, Kumamoto, Japan&lt;br&gt;Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan</td>
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<td>7659</td>
<td>A Novel Ex Vivo Test System to Assess Cardiovascular Toxicity of HIV-Nef in PBMC From HIV Positive Donors</td>
<td>Matthias Clauss, IU Sch of Med, Indianapolis, IN&lt;br&gt;Samir K Gupta, IU Sch of Med, Indianapolis, IN</td>
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<tr>
<td>7660</td>
<td>Hyperhomocysteinemia Induces Vascular Remodeling During Atherosclerosis in Pon1 Knockout Mice</td>
<td>Srikanth Givvimani, Univ of Louisville, Louisville, KY&lt;br&gt;Suresh C Tyagi, Univ of Louisville, Louisville, KY</td>
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**Abstract Poster Session**

**APS.727.01**

**Risk Modifiers in Cardiovascular Disease**

South Hall A2 - Core 7

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Steven R Lentz, Iowa City, IA

**7651**

**Impact of Adipose Tissue Composition on Cardiovascular Risk Assessment**

Ayako Kunimura, Chubu-Rosai Hosp, Nagoya, Japan

Toyoaki Murohara, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

**7652**

**LDL4 - a Novel Predictor of Coronary Artery Disease Severity**

Paul A Gurbel, Sinai Hospital Baltimore, Baltimore, MD
7661  Therapeutic Strategy for Efficient Reduction of Serum Uric Acid With Allopurinol versus Benzbromarone in Hyperuricemic Patients With Cardiovascular Disease – A Randomized Crossover Study (TERAO study)
Sunao Kojima, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

7662  Exercise Reduces 24-hr Blood Pressure and Albuminuria in Patients with Moderate Diabetic Kidney Disease
Ulf G Bronas, Univ of Minnesota, Minneapolis, MN
Mark Rosenberg, Univ of Minnesota, Minneapolis, MN

Abstract Poster Session
APS.715.02
Special Populations with ACS: Age, Gender and CKD
South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Michelle O’Donoghue, Boston, MA

7363  Age Difference in Plaque Characteristics of Culprit Lesions in Patients with Acute Coronary Syndrome: an Optical Coherence Tomography Study
Haibo Jia, Second Affiliated Hosp of Harbin Medical Univ, Harbin, China
Ik-Kyung Jang, Massachusetts General Hosp, Harvard Medical Sch, Boston, MA

7364  Impact of Off-time Presentation on the Vulnerability of the Culprit Lesions in ST-elevation Acute Myocardial Infarction
Young Kim, Chung-Ang Univ Hosp, Seoul, Republic of Korea
Chee Jeong Kim, Chung-Ang Univ Hosp, Seoul, Republic of Korea

7365  Patients With Acute Coronary Syndrome, Compared to Those With Stable Angina Pectoris, Have Increased Bright Spots at the Culprit Site by Optical Coherence Tomography
Yoshiyasu Minami, Massachusetts General Hosp, Boston, MA
Ik-Kyung Jang, Massachusetts General Hosp, Boston, MA

7366  In-hospital Outcomes of Unstable Angina in Patients with Chronic Kidney Disease (CKD) and End Stage Renal Disease (ESRD), Years 2005-2011
Chaudhry MS Sarwar, HealthPartners Medical Group, St Paul, MN
Fahad Saeed, Cliveland Clinic, Cleveland, OH

Abstract Poster Session
APS.722.01
Stroke, Heart and Vascular Poster Session II
South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Ann Helms, Milwaukee, WI

7546  Simultaneous Consideration of Imaging and Blood Markers for Prediction of Hemorrhagic Transformation in Acute Ischemic Stroke
Hye-Yeon Choi, Kyung Hee Univ Hosp at Kangdong, Seoul, Republic of Korea

7547  Severity and Functional Outcome of Patients With Cardioembolic Stroke Occurring During Novel Oral Anticoagulant Treatment
Hirofumi Tomita, Hiroasaki Univ Graduate Sch of Med, Hiroasaki, Japan
Ken Okumura, Hiroasaki Univ Graduate Sch of Med, Hiroasaki, Japan
Sunday, November 16 • Chicago, Illinois

**Abstract Poster Session**

**Surgical Therapy for Valvular Heart Disease I**

**South Hall A2 - Core 6**

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**Poster Professor:**

Yoshiki Sawa, Osaka, Japan

**Bioprosthetic Valves Have a Higher Longevity in Blood Group a Recipients**

Olivier Schussler, Univ Hosp CMU/HUG Geneva, Geneva, Switzerland

Alain Carpentier, HEGP APHP/Univ Paris Descartes, Paris, France

**Impact of Pre-Operative Type-B Natriuretic Peptide Level on Survival After Aortic Valve Replacement for Aortic Stenosis**

Marie-Annick Clavel, Mayo Clinic, Rochester, MN

Maurice Enriquez-Sarano, Mayo Clinic, Rochester, MN

**Systemic Inflammatory Response Syndrome is Associated With Mortality After Transcatheter or Surgical Aortic Valve Replacement With a Greater Impact on Diabetic Patients**

Jacob S Goldstein, Washington Univ Sch of Med, Saint Louis, MO

Brian R Lindman, Washington Univ Sch of Med, Saint Louis, MO

**Transapical Aortic Valve Implantation With the 2nd Generation Self-Expandable Symetis Acurate TA™ TAVI System - First Clinical Experience and 1-Year Follow-up Results**

Susanne Pasa, West-German Heart Ctr Essen, Univ Hosp Essen, Essen, Germany

Matthias Thielmann, West-German Heart Ctr Essen, Univ Hosp Essen, Essen, Germany

**Elevated Troponin T is Associated with Adverse Outcomes After Aortic Valve Replacement**

Ashwat Dhillon, Cleveland Clinic, Cleveland, OH

Samir Kapadia, Cleveland Clinic, Cleveland, OH

**Right Ventricular Dysfunction After Transcatheter Aortic Valve Replacement (TAVR)**

Saki Ito, Mayo clinic, Rochester, MN

Rakesh M Suri, Mayo clinic, Rochester, MN

**Transcatheter Aortic Valve Implantation in Dialysis Patients: Similar Outcome Compared to Conventional Biological or Mechanical Prosthesis at 5 Years**

Gloria Faerber, Friedrich Schiller Univ Jena, Univ Hosp Jena, Jena, Germany

Torsten Doenst, Friedrich Schiller Univ Jena, Univ Hosp Jena, Jena, Germany

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**7548** A National Perspective of the Influence of Do-Not-Resuscitate Orders on In-Hospital Mortality and Adverse Outcome after Intracerebral Hemorrhage

Alexandre M Benjo, Ochsner medical center, New Orleans, LA

Syed I Hussain, Michigan State Univ, East Lansing, MI

**7549** Real-Time Hemodynamic and Volumetric Monitoring in Patients With Takotsubo Cardiomyopathy After Subarachnoid Hemorrhage

Tatsushi Mutoh, Tohoku Univ Inst of Development, Aging and Cancer, Sendai, Japan

Akihumi Suzuki, Res Inst for Brain and Blood Vessels-AKITA, Akita, Japan

**7550** T2-weighted Magnetic Resonance Imaging Accurately shows Treatment Response of Novel Neuroprotective Compound, Tat-N-dimer, in Ischemic Stroke

Andreas E Clemmensen, Univ of Copenhagen, Copenhagen N, Denmark

Andreas Kjaer, Univ of Copenhagen, Copenhagen N, Denmark

**7551** Assessment of Outcome in Patients With Acute Minor Ischemic Stroke Treated With Intravenous TPA

Sameer Sharma, Upstate Univ Hosp, Syracuse, NY

Ziad El-Zammar, upstate university hospital, Syracuse, NY

**7552** Nasopharyngeal And/or Rectal Temperatures: Can They Be Used as Reliable Indirect Measures of Brain Temperature in Ischemic Stroke Patients Undergoing Mild Hypothermia?

Ying Wu, Capital Medical Univ Sch of Nursing, Beijing, China

**7553** Infective Endocarditis Due to Staphylococcus Aureus and Lethality Are Critically Dependent on the Action of Superantigens

Wilmar Saigado-Pabón, Univ of Iowa Carver Coll of Med, Iowa City, IA

**7554** Complete Disruption of All Nitric Oxide Synthase Genes Markedly Reduces Cerebral Infarct Size after Middle Cerebral Artery Occlusion in Mice

Masato Tsutsui, Univ of the Ryukyus, Okinawa, Japan

Manabu Kakinohana, Univ of the Ryukyus, Okinawa, Japan

**7555** Circulating Protein Z Levels, Variants in the Protein Z Gene and Unexplained Cerebral Infarction in Young and Middle-Aged Adults (The Thrombophilia in Cryptogenic stroke [THICK] Study)

Lili Zhang, Jacobi Medical Ctr, Bronx, NY

Jorge R Kizer, Albert Einstein Coll of Med, Bronx, NY
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<td>6315</td>
<td>Efficacy and Safety of Intensive Statin Therapy for Hypercholesterolemic Patients With Bioprosthetic Aortic Valve Replacement for Aortic Valve Stenosis</td>
<td>Yoshihisa Morimoto, Awaji Medical Ctr, Hyogo, Sumoto, Japan; Hiroki Arase, Awaji Medical Ctr, Hyogo, Sumoto, Japan</td>
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<td>6316</td>
<td>Racial and Income Disparities and Trends in the Use of Bioprosthetic Valves for Aortic Valve Replacements</td>
<td>Peter H Lee, The Ohio State Univ, Columbus, OH; Robert Higgins, The Ohio State Univ, Columbus, OH</td>
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**Abstract Poster Session**

**Surgical Therapy for Valvular Heart Disease II**

South Hall A2 - Core 6

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Joshua Baker, Boston, MA

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<td>6317</td>
<td>The Association Between Surgical Indications, Operative Risk and Outcome in Infective Endocarditis</td>
<td>Andrew Wang, Duke Univ Medical Ctr, Durham, NC; Investigators International Collaboration on Endocarditis (ICE)</td>
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<td>6318</td>
<td>Long-term Outcomes of Patients with Pseudoaneurysms and a History of Prior Cardiovascular Surgery</td>
<td>Michael Chenier, Cleveland Clinic, Cleveland, OH; Milind Desai, Cleveland Clinic, Cleveland, OH</td>
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<td>6319</td>
<td>Staphylococcus aureus Infective Endocarditis is Associated with Worsened Clinical Characteristics than Non-Staphylococcus aureus Organisms</td>
<td>Sang Myung Han, Coll of Physicians and Surgeons of Columbia Univ, New York, NY; Isaac George, Coll of Physicians and Surgeons of Columbia Univ, New York, NY</td>
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<tr>
<td>6320</td>
<td>Impact of Stroke Severity on Clinical Outcomes in Patients who had Infective Endocarditis With Cerebral Complications</td>
<td>Ryosuke Murai, Kobe City Medical Ctr General Hosp, Kobe, Japan; Yutaka Furukawa, Kobe City Medical Ctr General Hosp, Kobe, Japan</td>
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<td>6321</td>
<td>Novel Bio-Engineered Tricuspid Valve Demonstrates Physiologic Remodeling and Growth With Preserved Function</td>
<td>Farhan Zafar, Cincinnati Childrens Hosp, Cincinnati, OH; David L Morales, Cincinnati Childrens Hosp, Cincinnati, OH</td>
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<td>6322</td>
<td>Biomechanical Properties of Patient-specific Aortas and Pulmonary Arteries According to Aortic Valve Phenotype: Relevance to the Ross Procedure</td>
<td>Pierre Olivier Dionne, Montreal Heart Inst, Montreal, QC, Canada; Ismail El-Hamamsy, Montreal Heart Inst, Montreal, QC, Canada</td>
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<td>6323</td>
<td>Patient Outcomes and Quality of Life 15 years or more after the Ross Operation in Adults</td>
<td>Michael Ibrahim, Imperial Coll London, London, United Kingdom; Magdi H Yacoub, Imperial Coll London, London, United Kingdom</td>
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<td>6324</td>
<td>Porcine Xenograft for Aortic-, Mitral- and Double Valve Replacement. Longterm Results</td>
<td>Sven Lehmann, Heartcenter Leipzig, Leipzig, Germany; Friedrich W Mohr, Heartcenter Leipzig, Leipzig, Germany</td>
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<td>6325</td>
<td>A Propensity Matched Comparison of a Hybrid Approach of Percutaneous Coronary Intervention Followed by Minimally Invasive Valve Surgery versus Conventional Median Sternotomy Coronary Artery Bypass Graft Plus Valve Surgery</td>
<td>Andres M Pineda, Mount Sinai Heart Inst, Miami, FL; Nirat Beohar, Mount Sinai Heart Inst, Miami Beach, FL</td>
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<td>6326</td>
<td>Impact of Perioperative Management on Prevention of Prosthetic Valve Detachment After Aortic Valve Replacement for Patient With Takayasu's Arteritis</td>
<td>Shunsuke Sato, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan; Junjiro Kobayashi, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan</td>
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Abstract Poster Session

APS.605.02

Transcatheter Aortic Valve Replacement: Biomarkers and Imaging

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Prashant Kaul, Chapel Hill, NC

6152
Tricuspid Regurgitation has Marked Prognostic Impact on Transcatheter Aortic Valve Replacement
Naohiko Nemoto, Minneapolis Heart Inst Fdn at Abbott Northwestern Hosp, Minneapolis, MN
Robert S Schwartz, Minneapolis Heart Inst Fdn at Abbott Northwestern Hosp, Minneapolis, MN

6153
Safety and Reliability of Low Dose Contrast CT Angiography in Preoperative Evaluation of Renal Dysfunction Patients Undergoing Transcatheter Aortic Valve Replacement
Cheng Chu, Newark Beth Israel Medical Ctr, Newark, NJ
Chunguang Chen, Newark Beth Israel Medical Ctr, Newark, NJ

6154
Coronary Flow Velocity Reserve and Aortic Regurgitation Index Before and After Transcatheter Aortic Valve Implantation for Severe Aortic Stenosis
Ayyaz Sultan, LHSC, UWO, London, Ontario, London, ON, Canada
Patrick Teefy, LHSC, UWO, London, Ontario, London, ON, Canada

6155
The Natural History and Outcome of Left Heart Remodeling in Patients Undergoing Transcatheter Aortic Valve Replacement
Marco A Magalhaes, Medstar Washington Hosp Ctr, Washington, DC
Ron Waksman, Medstar Washington Hosp Ctr, Washington, DC

6156
Patient-Specific CT Image-Based Engineering Analysis of Transcatheter Aortic Valve Replacement - Implications for Aortic Root Rupture
Qian Wang, Georgia Tech, Atlanta, GA
Wei Sun, Georgia Tech, Atlanta, GA

6157
Aortic Valve Calcium Score for Paravalvular Aortic Insufficiency (AVCS II) Study in Transapical Aortic Valve Implantation
Martin Haensg, Heartcenter Leipzig, Leipzig, Germany
David Holzhey, Heartcenter Leipzig, Leipzig, Germany

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Abstract Poster Session

APS.716.05

Unstable Angina, NSTEMI and STEMI: Prognosis and Pharmacological Therapy

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Kensuke Egashira, Fukuoka, Japan

7418
Patients with Newly Diagnosed Diabetes Have Comparable Long Term Mortality with Known Diabetics After ST Segment Elevation Myocardial Infarction
Bhuvnesh Aggarwal, Cleveland Clinic Fdn, Cleveland, OH
Venu Menon, Cleveland Clinic Fdn, Cleveland, OH

7419
Early Discontinuation of Fondaparinux in Non-Invasive Treatment of Low-Risk Patients With Non-ST-Elevation Acute Coronary Syndrome is Associated With Reactivation of Coagulation Which is Apparently Clinically Unimportant
Igor S Yavelov, Res Inst of Physico-Chemical Med, Moscow, Russian Federation
Nikolai A Gratsiansky, Res Inst of Physico-Chemical Med, Moscow, Russian Federation
7420  Optimal Therapeutic Management Improves Long-Term Survival in ST-Elevation Myocardial Patients With Altered Glomerular Filtration Rate. A Propensity Score Comparison

Nathan Mewton, Hôpital Cardiovasculaire Louis Pradel, Lyon, France
Eric Bonnefoy-Cudraz, Hôpital Cardiovasculaire Louis Pradel, Lyon, France

7421  Use of Thienopyridine Prior to Presentation for Acute Coronary Syndromes and Association With Safety and Efficacy of Vorapaxar: Insights From the TRACER Study

Ralf E Harskamp, Duke Clinical Res Inst, Durham, NC
Pierluigi Tricoci, Duke Clinical Res Inst, Duke Univ Medical Ctr, Durham, NC

7422  Beneficial Effects of Chronic Statin Pretreatment on Long-Term Prognosis in Patients With Acute Myocardial Infarction

Katsuo Mlakura, Sakurabashi Watanabe Hosp, Osaka, Japan
Kenshi Fuji, Sakurabashi Watanabe Hosp, Osaka, Japan

7423  Nanoparticles-Mediated Delivery of Pioglitazone Reduces Myocardial Ischemia-Reperfusion Injury by Antagonizing Monocyte-mediated Inflammation in Mice and Mini Pigs

Masaki Tokutome, Kyushu Univ, Fukuoka, Japan
Kensuke Egashira, Kyushu Univ, Fukuoka, Japan

7424  Searching for the Optimal Regimen of Potent P2Y12 Inhibitor in East Asian Patients with Acute Coronary Syndrome: A Pharmacodynamic Study

Jang-Young Kim, Wonju Medical Coll, Yonsei Univ, Wonju, Republic of Korea
Junghan Yoon, Wonju Medical Coll, Yonsei Univ, Wonju, Republic of Korea

7425  Impact of Esomeprazole on Platelet Reactivity and Clinical Outcome According to CYP2C19 Genotype in Coronary Heart Disease Patients during Dual Antiplatelet Therapy

Seiji Hokimoto, Kamamoto Univ, Kamamoto, Japan
Hisao Ogawa, Kamamoto Univ, Kamamoto, Japan

7426  Clinical Impact of Initial Reduction of Low-density Lipoprotein Cholesterol Level on Long-term Outcome of Acute Myocardial Infarction in the Statin Era

Takashi Miura, Shinshu Univ, Matsumoto, Japan
Uichi Ikeda, Shinshu Univ, Matsumoto, Japan

7427  Metformin Lowers Circulating Adiponectin Levels in Patients with Myocardial Infarction

Megan V Cannon, Univ Medical Ctr Groningen, Groningen, Netherlands
Rudolf A de Boer, Univ Medical Ctr Groningen, Groningen, Netherlands

Abstract Poster Session

Vascular Disease and Pulmonary Hypertension

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

5376  High Mortality in the Fischer Rat Model of Severe Pulmonary Arterial Hypertension Linked to Strain-Specific Deficiency in Right Ventricular Adaptation

Colin Suen, Ottawa Hosp Res Inst, Ottawa, ON, Canada
Duncan Stewart, Ottawa Hosp Res Inst, Ottawa, ON, Canada

5377  Mice With XX Chromosomes Develop More Severe Hypoxia-Induced Pulmonary Hypertension Than With XY Chromosomes Regardless of Their Gonadal Sex

Soban Umar, UCLA, Los Angeles, CA
Mansour Eghbali, UCLA, Los Angeles, CA

5378  Pulmonary Hypertension and Sex Hormone Depletion Affect Lung and Right Ventricular Estrogen Receptor Expression

Andrea Frump, Indiana Univ, Indianapolis, IN
Tim Lahm, Indiana Univ, Indianapolis, IN

5379  Increased Expression of TMEM16A May Lead to Depolarization of Human Pulmonary Arterial Smooth Muscle Cells in IPAH

Rita Papp, Ludwig Boltzmann Inst, Graz, Austria
Andrea Olschewski, Ludwig Boltzmann Inst, Graz, Austria

5380  Lr11 Gene Deficiency Prevents Hypoxia-induced Pulmonary Hypertension and Vascular Remodeling in Mice

Le Jiang, Juntendo Univ, Tokyo, Japan
Hiroyuki Daida, Juntendo Univ, Tokyo, Japan

5381  Metabolic Syndrome and Pulmonary Hypertension Due to Left Heart Disease

Marc A Simon, Univ of Pittsburgh, Pittsburgh, PA

5382  Pulmonary Hypertension in S100A1 KO Mice Is Associated With Endothelial Cell Dysfunction and Impaired eNOS Activation Dependent in Part on the Receptor for Advanced Glycation End-Products (RAGE)

Krystyna Teichert-Kuliszewska, Li Ka Shing Knowledge Inst, St Michael's Hosp., Toronto, ON, Canada
Thomas G Parker, Li Ka Shing Knowledge Inst, St Michael's Hosp., Toronto, ON, Canada
5383 Pulmonary Hypertension is Associated with Apoptosis, the Downregulation of S100A1, the Upregulation of S100A6 and the Receptor for Advanced Glycation end-Products
James Tsoporis, St Michael’s Hosp, Toronto, ON, Canada
Thomas G Parker, St Michael’s Hosp, Toronto, ON, Canada

5384 Tenascin-c Levels and Clinical Importance in Pulmonary Arterial Hypertension
Meral L Kayiçioğlu, Ege Univ Medical Faculty, Izmir, Turkey
Kadir H Kultursay, Ege Univ Medical Faculty, Izmir, Turkey

5385 Nrf2 Signaling Ameliorates Ventilator-Induced Lung Inflammation
Ting Wang, Univ Of Arizona, Tucson, AZ
Joe GN Garcia, Univ Of Arizona, Tucson, AZ

Abstract Poster Session
APS.714.02

Vascular Medicine (Noncoronary): Clinical and Experimental

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
James Froehlich, Ann Arbor, MI

7328 Renin Inhibition Reduces Atherosclerotic Plaque Neovessel Formation and Regresses Advanced Atherosclerotic Plaques
Hongxian Wu, Nagoya Univ Graduate Sch of Med, Nagoya, Japan
Toyoaki Murohara, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

7329 Cystathionine-gamma-lyase/hydrogen Sulfide is Critically Important for Ischemic Revascularization of Aged Mice
Gopi K Kolluru, LSU Health Sciences Ctr, Shreveport, LA
Christopher G Kevil, LSU Health Sciences Ctr, Shreveport, LA

7330 Desmin Expression is Abnormal in Myofibers of the Gastrocnemius of Patients With Peripheral Arterial Disease and is Associated With Impaired Mitochondrial Respiration and Reduced Muscle Strength
Panagiotis Koutakis, Univ of Nebraska at Medical Ctr, Omaha, NE
Iraklis I Pipinos, Univ of Nebraska at Medical Ctr, Omaha, NE

7331 Altered TGFβ Signalling Effector Molecules Contribute to Bicuspid Aortic Valve-associated Thoracic Aortopathy
Candice L Dilworth, Univ Sydney, Sydney, Australia
Brett D Hambly, Univ Sydney, Sydney, Australia

7332 Nitroglycerine-Induced Vasodilation Was Significantly Smaller in Peripheral Artery Disease-Patients With Critical Limb Ischemia Compared With Those Without
Tatsuya Maruhashi, Hiroshima Univ Graduate Sch of Biomedical and Health Sciences, Hiroshima, Japan
Yasuki Kihara, Hiroshima Univ Graduate Sch of Biomedical and Health Sciences, Hiroshima, Japan

7333 Spatial Distribution of the Metabolically Active Pulmonary Circulation in Humans
Jocelyn Dupuis, Montreal Heart Inst, Montreal, QC, Canada

7334 Recent Trends in Procedure Type, Morbidity and In-hospital Outcomes of Patients With Peripheral Artery Disease: Data From the Brazilian Public Health System
Bruno R Nascimento, Univ Federal de Minas Gerais, Belo Horizonte, Brazil
Antônio Luiz P Ribeiro, Univ Federal de Minas Gerais, Belo Horizonte, Brazil

7335 The Impact of Peripheral Artery Disease Assessed by Ankle-Brachial Index on Endothelial Dysfunction and Risk of In-Stent Restenosis After Percutaneous Coronary Intervention
Naohiro Komura, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

7336 Calcific Uremic Arteriopathy is Characterized by Increased Arteriolar Bone Morphogenetic Protein Signaling
Pawina Jiramongkolchai, Massachusetts General Hosp and Harvard Medical Sch, Boston, MA
Donald B Bloch, Massachusetts General Hosp and Harvard Medical Sch, Boston, MA

7337 Efficacious Lymphedema Treatment: Impact of an Advanced Pneumatic Compression Device on Health Outcomes and Costs
Alan T Hirsch, Univ of Minnesota, Minneapolis, MN
Pinar Karaca Mandic, Univ of Minnesota Sch of Public Health, Minneapolis, MN
Abstract Poster Session

**APS.714.03**

**Vascular Medicine**
*(Noncoronary): Clinical and Prevention Science*

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

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<td>7338</td>
<td>Anne Newman, Pittsburgh, PA</td>
<td>Association between Smoking and the Natural History of Renal and Cerebrovascular Fibromuscular Dysplasia: a Report of the United States Registry for FMD</td>
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<td>7339</td>
<td>Ronnie Ramadan, Emory Univ, Atlanta, GA</td>
<td>Effect of Angiotensin Receptor Blockade on Carotid Artery Atherosclerosis</td>
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<td>7340</td>
<td>Mary McDermott, Northwestern Univ, Chicago, IL</td>
<td>A Physical Activity Intervention Improves 400-Meter Walking Velocity as Compared to a Successful Aging Intervention in Patients with Peripheral Artery Disease: The LIFE Study Randomized Trial</td>
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<td>7341</td>
<td>Barbara Sjouke, Academic Medical Ctr, Amsterdam, Netherlands</td>
<td>Polycyclic Familial Hypercholesterolemia Does Not Exist: Data from 1430 Referred Children</td>
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<tr>
<td>7342</td>
<td>Zubair A Khan, Cooper Univ Hosp, Camden, NJ</td>
<td>Progression of Cardiovascular Risk Factors Across the Menopausal Transition - Results from Study of Women's Health Across the Nation</td>
</tr>
<tr>
<td>7343</td>
<td>Mamatha Pinninti, Aurora St Luke’s Medical Ctr, Milwaukee, WI</td>
<td>Angioplasty vs. Primary Nitinol Stent Implantation in Above Knee Femoropopliteal Occlusive Atherosclerotic Disease: a Meta-analysis of Randomized Controlled Trials</td>
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<tr>
<th>BOARD #</th>
<th>Poster Professor:</th>
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<tbody>
<tr>
<td>7344</td>
<td>Andrew W Gardner, Univ of Oklahoma Health Sciences Ctr, Oklahoma City, OK</td>
<td>Endothelial Cell Inflammation and Antioxidant Capacity are Associated With Exercise Performance and Microcirculation in Patients With Peripheral Artery Disease</td>
</tr>
<tr>
<td>7345</td>
<td>William E Sonntag, Univ of Oklahoma Health Sciences Ctr, Oklahoma City, OK</td>
<td>Blood Pressure Reduction and Increase of Circulating MicroRNA-126 Indicate Improvement of Vascular Endothelial Damage After Smoking Cessation Intervention in Middle-Aged Habitual Smokers</td>
</tr>
<tr>
<td>7346</td>
<td>Luisa C C Brant, Federal Univ of Minas Gerais, Belo Horizonte, Brazil</td>
<td>Wave Reflection Measured by Peripheral Arterial Tonometry is Related to Cardiovascular Risk Factors in Adults: The ELSA-Brasil Cohort Study</td>
</tr>
<tr>
<td>7347</td>
<td>Samit S Roy, Univ of Minnesota, Minneapolis, MN</td>
<td>High Smoking-attributable Healthcare Utilization and Associated Costs in a Large Insured PAD Cohort</td>
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</table>

**Abstract Poster Session**

**APS.714.01**

**Vascular Medicine**
*(Noncoronary): Clinical Science*

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

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<tr>
<th>BOARD #</th>
<th>Poster Professor:</th>
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<tbody>
<tr>
<td>7318</td>
<td>Wilbert S Aronow, Valhalla, NY</td>
<td>Plasma Parathyroid Hormone is Independently Related to 24-Hour Pulse Wave Velocity in Patients With Primary Hyperparathyroidism - Insights fFrom The EPATH Study</td>
</tr>
<tr>
<td>7319</td>
<td>Hisashi Sawada, Hyogo Coll of Med, Nishinomiya, Japan</td>
<td>Pentraxin 3 Expression in Human Abdominal Aortic Aneurysm</td>
</tr>
<tr>
<td></td>
<td>Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan</td>
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</tr>
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</table>
7320  Arterial Inflammation in HIV-Infected Patients Assessed by 18F-Fluorodeoxyglucose Positron Emission Tomography  
Rasmus S Ripa, Univ of Copenhagen, Rigshospitalet, Copenhagen, Denmark  
Andreas Kjaer, Univ of Copenhagen, Rigshospitalet, Copenhagen, Denmark

7321  Association between Intensively Controlled Low-density Lipoprotein Cholesterol and Clinical Outcomes in Patients with Peripheral Artery Disease after Angioplasty  
Jung-Hee Lee, Severance Cardiovascular Hosp, Yonsei Univ Coll of Med, Seoul, Republic of Korea  
Young-Guk Ko, Severance Cardiovascular Hosp, Yonsei Univ Coll of Med, Seoul, Republic of Korea

7322  Exercise Training Reduces Angiotensin II and Advanced Glycation Endproducts in Patients with Diabetic Kidney Disease  
Ulf G Bronas, Univ of Minnesota, Minneapolis, MN  
Mark Rosenberg, Univ of Minnesota, Minneapolis, MN

7323  Ankle-Brachial Index Predicts Progression of Aortic Stiffness  
Zi Ye, Mayo Clinic, Rochester, MN  
Iftikhar Kullo, Mayo Clinic, Rochester, MN

7324  High-sensitive Troponin T Cut-off Value for Myocardial Infarction After Vascular Surgery  
Danielle M Gualandro, Heart Inst (InCor) Univ of São Paulo Medical Sch, São Paulo, Brazil  
Bruno Caramelli, Heart Inst (InCor) Univ of São Paulo Medical Sch, São Paulo, Brazil

7325  Novel Near-Infrared Spectroscopy-Guided Treadmill Exercise Training Associated with Improvements in Claudication Among Subjects with Peripheral Arterial Disease  
Jonathan Muro, Georgia Regents Univ, Athens, GA  
Kevin KMcCully, Univ of Georgia, Athens, GA

7326  Angiotensin Blockade Reduces Aortic Dilatation in Patients With Marfan Syndrome: A Meta-Analysis  
Amartya Kundu, Univ of Massachusetts Medical Sch, Worcester, MA  
Wilbert S Aronow, New York Medical Coll, Valhalla, NY

7327  Serum Vascular Endothelial Growth Factor-C Levels are Inversely Associated With Major Adverse Cardiovascular Events in Patients With Arteriosclerotic Obliterans  
Nobutoyo Masunaga, Natl Hosp Organization Kyoto Medical Ctr, Kyoto, Japan  
Koji Hasegawa, Natl Hosp Organization Kyoto Medical Ctr, Kyoto, Japan

Abstract Poster Session

Ventricular Function/Hemodynamics and Biomarkers I

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
John C Burnett Jr., Rochester, MN

5626  Galectin-3 Predicts Left Ventricular Ejection Fraction After Myocardial Infarction  
A Rogier van der Velde, Univ of Groningen, Univ Medical Ctr Groningen, Groningen, Netherlands  
Rudolf A de Boer, Univ of Groningen, Univ Medical Ctr Groningen, Groningen, Netherlands

5627  Anemia Plays a Role in Pre-Clinical Myocardial Damage and Cardiovascular Mortality in General Population  
Yuki Honda, Yamagata Univ Sch of Med, Yamagata City, Japan  
Isao Kubota, Yamagata Univ Sch of Med, Yamagata City, Japan

5628  Biomarkers and Echocardiographic Predictors of Myocardial Dysfunction in Patients With Hypertension  
Agata Bielecka-Dabrowa, Medical Univ of Lodz, Lodz, Poland  
Maciej Banach, Medical Univ of Lodz, Lodz, Poland

5629  Plasma Biomarkers for Response to Transforming Growth Factor-Beta Antagonism After Acute Myocardial Infarction  
Peter C Yaeger, Genzyme, a sanofi company, Framingham, MA  
Geoffrey Y Akita, Genzyme, a sanofi company, Framingham, MA

5630  Identification of Microrna in an Ovine Model of Heart Failure  
Lee Lee Wang, Cardiovascular Res Inst, Natl Univ of Singapore, Singapore, Singapore  
Peiwei Wang, Cardiovascular Res Inst, Natl Univ of Singapore, Singapore, Singapore

5631  C-Type Natriuretic Peptide Improves Left Ventricular Systolic and Diastolic Functional Performance at Rest and During Exercise After Heart Failure  
Che Ping Cheng, Wake Forest Sch of Med, Winston-Salem, NC  
William C Little, Univ of Mississippi Medical Ctr, Jackson, MS
11:05 Surgery and Outcomes for Transposition of the Great Arteries among Developing World Congenital Heart Surgery Programs: a Report from the International Quality Improvement Collaborative
David N Schidlow, Boston Children’s Hosp, Boston, MA
Aldo Castaneda, Fundacion Aldo Castaneda, Guatemala City, Guatemala

11:10 Aortic Valve Morphology Influences Outcomes of Balloon Aortic Valvuloplasty in Children with Congenital Aortic Stenosis
Christopher J Petit, Emory Univ Sch of Med, Atlanta, GA
Ritu Sachdeva, Emory Univ Sch of Med, Atlanta, GA

11:15 Calcium Channel Blockers Accelerate Aortic Aneurysm and Cause Premature Lethality in Marfan Syndrome and Related Conditions
Jefferson J Doyle, Johns Hopkins Univ, Baltimore, MD
Harry C Dietz, Johns Hopkins Univ, Baltimore, MD

11:20 Creation of a Risk Adjustment Model for Adverse Events after Congenital Cardiac Catheterization
Lisa Bergersen, Boston Children’s Hosp, Boston, MA

11:25 New Minimally Invasive Treatment for Plastic Bronchitis Based on Insights from MR Lymphangiography
Yoav Dori, Children’s Hosp of Philadelphia, Philadelphia, PA
Itkin Maxim, Hosp of the Univ of Pennsylvania, Philadelphia, PA

11:30 Up to Seven-Year Outcomes After Transcatheter Pulmonary Valve Replacement in the Prospective Multicenter US Melody Valve Investigational Device Exemption Trial
Lisa Bergersen, Children’s Hosp Boston, Boston, MA
Doff B McElhinney, NYU Medical Ctr, New York, NY

11:35 48 Week Outcomes Using Targeted Biologic Inhibition Agents to Treat Aggressive Multivessel Pulmonary Vein Stenosis
Kara Western, Boston Children’s Hosp, Boston, MA
Kathy J Jenkins, Boston Children’s Hosp, Boston, MA

11:40 Is the Arachidonic Acid Pathway Adequately Inhibited in Shunted Infants on Aspirin?
Dongnan T Truong, Univ of Utah, Salt Lake City, UT
L LuAnn Minich, Univ of Utah, Salt Lake City, UT

11:45 Outcomes After In-Utero Cardiac Interventions: A Preliminary Report of the Collaborative International Fetal Cardiac Intervention Registry
Anita J Moon-Grady, Univ of California-San Francisco, San Francisco, CA
Dick Oepkes, Leiden Univ Medical Ctr, Leiden, Netherlands
### e-Abstract Session

**Vascular Medicine (Noncoronary)—Clinical Science**  
South Hall A2 - Core 7 Theater  
11:00 - 11:50 AM

**Moderator:**  
Wilbert S Aronow, Valhalla, NY

**11:00**  
**Arterial Inflammation in HIV-Infected Patients Assessed by 18F-Fluorodeoxyglucose Positron Emission Tomography**  
Rasmus S Ripa, Univ of Copenhagen, Rigshospitalet, Copenhagen, Denmark  
Andreas Kjær, Univ of Copenhagen, Rigshospitalet, Copenhagen, Denmark

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**Association between Intensively Controlled Low-density Lipoprotein Cholesterol and Clinical Outcomes in Patients with Peripheral Artery Disease after Angioplasty**  
Jung-Hee Lee, Severance Cardiovascular Hosp, Yonsei Univ Coll of Med, Seoul, Republic of Korea  
Young-Guk Ko, Severance Cardiovascular Hosp, Yonsei Univ Coll of Med, Seoul, Republic of Korea

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Ifikhar Kullo, Mayo Clinic, Rochester, MN

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**High-sensitive Troponin T Cut-off Value for Myocardial Infarction After Vascular Surgery**  
Danielle M Gualandro, Heart Inst (InCor) Univ of São Paulo Medical Sch, São Paulo, Brazil  
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Kevin K McCully, Univ of Georgia, Athens, GA

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Amartya Kundu, Univ of Massachusetts Medical Sch, Worcester, MA  
Wilbert S Aronow, New York Medical Coll, Valhalla, NY

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Nobutoyo Masunaga, Natt Hosp Organization Kyoto Medical Ctr, Kyoto, Japan  
Koji Hasegawa, Natt Hosp Organization Kyoto Medical Ctr, Kyoto, Japan

### e-Abstract Session

**Novel Insights into Cardiac Remodeling after Myocardial Infarction from Imaging Structure, Metabolism and Function**  
South Hall A2 - Core 1 Theater  
11:00 - 11:45 AM

**Moderator:**  
EE van der Wall, Leiden, Netherlands

**11:00**  
**The Prognostic Value of Mechanical Dyssynchrony Measured by GSPECT MPI versus Electrical Dyssynchrony Measured by QRS Duration Among Patients With an Ejection Fraction >35%**  
Paul L Hess, Duke Clinical Res Inst, Durham, NC  
Salvador Borges-Neto, Duke Univ Medical Ctr, Durham, NC

**11:05**  
**Impaired Cardiac Sympathetic Innervation is Associated With Microvascular Dysfunction in Non-Infarcted Remote Myocardium in Ischemic- and Dilated Cardiomyopathy**  
Mischa T Rijnierse, VU Univ Medical Ctr, Amsterdam, Netherlands  
Paul Knaapen, VU Univ Medical Ctr, Amsterdam, Netherlands

**11:10**  
**Assessment of Myocardial Viability After Acute Myocardial Infarction: A Head-to-head Comparison of the Perfusible Tissue Index by PET and Delayed Contrast-enhanced CMR**  
Stefan A J Timmer, Univ Medical Ctr, Amsterdam, Netherlands  
Paul Knaapen, VU Univ Medical Ctr, Amsterdam, Netherlands
11:15  Heterogeneity of Sympathetic Nervous Density in the Left Ventricular Wall in Dilated Cardiomyopathy
Shohei Kikuchi, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan
Nobuyuki Ohte, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan

11:20  Targeting Acute Post-Infarct Inflammation with 11C-Methioinine or 18F-Deoxyglucose Positron Emission Tomography in Mice
James T Thackeray, Hannover Medical Sch, Hannover, Germany
Frank M Bengel, Hannover Medical Sch, Hannover, Germany

11:25  Transient Elevation of Highly Sensitive Troponin T Levels in Patients With Documented Coronary Artery Disease Following Stress Myocardial Perfusion Imaging
Stefan P Pfeiffer, Klinikum Pforzheim, Pforzheim, Germany
Hugo A Katus, Krehl-Klinik, Universitätsklinikum Heidelberg, Germany

11:30  Dynamic Thallium-201 SPECT/CT Provides Quantitative Index of Myocardial Flow and Viability: Validation in Porcine Post-Myocardial Infarction Model
Stephanie L Thorn, Yale, New Haven, CT
Albert J Sinusas, Yale, New Haven, CT

11:35  A Follow-up Study of Coronary Vasomotor Function in Ischemic and Remote Myocardium Following Successful Percutaneous Revascularization for Acute Myocardial Infarction - a [15O]H2O PET Study
Paul F Teunissen, VU Univ Medical Ctr, Amsterdam, Netherlands
Paul Knaapen, VU Univ Medical Ctr, Amsterdam, Netherlands

11:40  Prognostic Significance of Left Ventricular Global Strain and Cardiac Sympathetic Nerve Activity in Patients with Acute Myocardial Infarction Treated with Primary Percutaneous Intervention
Sonoko Matsuyama, Himeji Cardiovascular Ctr, Himeji, Japan
Hiroya Kawai, Himeji Cardiovascular Ctr, Himeji, Japan
Sunday, November 16  •  Chicago, Illinois

OPS.01  Opening Session

North Hall B  
1:00 - 3:00 PM

Welcome and Introduction of Dr. Elliott Antman  
Nancy Brown, Dallas, TX

Presidential Address: Saving and Improving Lives in the Information Age  
Elliott Antman, Boston, MA

Chairman's Award Presented to: Jennifer H Mieres, Lake Success, NY

Distinguished Scientist Recognition: Elliott Antman, Boston, MA

Basic Research Prize Presented to: Andre Terzic, Rochester, MN

Clinical Research Prize Presented to: Judith Hochman, New York, NY

Population Research Prize Presented to: Vasan Ramachandran, Framingham, MA

Eugene Braunwald Academic Mentorship Award Presented to: Jeremiah Stamler, Chicago, IL

Research Achievement Award Presented to: Shaun R Coughlin, San Francisco, CA

Lewis A. Conner Memorial Lecture: Biologically Inspired Engineering; From Human Organs-on-Chips to Nanotherapeutic Clot-Busters  
Donald E Ingber, Boston, MA

Scientific Sessions Program Chair’s Opening Remarks  
Robert Harrington, Stanford, CA

2:10  Clinical Gadolinium-Free Magnetic Resonance Imaging With Magnetization Transfer Contrast Detects Cardiac Fibrosis With High Sensitivity and Specificity Compared to Late Gadolinium Enhanced Imaging  
Tori A Stroom, Univ of Kentucky, Lexington, KY

2:15  Evaluation of RV and LV Mass by CMR and Comparison to Recipient Heart Following Heart Transplant; The First-Ever CMR Human Autopsy Study  
Sahadev T Reddy, Allegheny General Hosp, Pittsburgh, PA

2:20  Association Between Left Atrial Regional Function Assessed by Novel Tissue Tracking MRI and the Risk of Stroke in Patients With Atrial Fibrillation  
Yuko Inoue, The Johns Hopkins Univ Sch of Med, Baltimore, MD

2:25  Scar Pattern in Chagas Heart Disease  
Mahmoud I Traina, OV-UCLA Medical Ctr, Sylmar, CA

2:30  Validating the Gold-standard: Steady-State Free Precession Sequence for Assessment of Left Ventricular and Right Ventricular Mass  
Carlos G Santos-Gallego, Icahn Sch of Med at Mount Sinai, New York City, NY

2:35  Cardiac Magnetic Resonance Imaging Identifies Severity of Cardiac Involvement in Systemic Sclerosis  
Ateet Patel, Northwestern Univ Dept of Med, Chicago, IL

2:40  Clinical Significance of Flow Energy Loss inside the Left Ventricle via Cardiovascular Magnetic Resonance in Non-ischemic Dilated Cardiomyopathy  
Takeru Nabeta, Kitasato Univ Sch of Med, Kanagawa, Japan

2:45  Can Cardiovascular Magnetic Resonance Identify Patients With Cardiac Sarcoidosis and Preserved Left Ventricular Ejection Fraction at Risk for Death and Sustained Ventricular Tachycardia?  
Gillian Murtagh, Univ of Chicago, Chicago, IL

EAS.108.02  e-Abstract Session

Magnetic Resonance Imaging: Myocardium (Nonischemic)

South Hall A2 - Core 1 Theater  
2:00 - 2:55 PM

Moderator: Charles B Higgins, San Francisco

2:00  CMR Derived Myocardial Mechanics in Patients With Systemic Sarcoidosis  
Beatriz Jauregui Garrido, Mount Sinai Sch of Med, New York, NY

2:05  Multiparametric MRI Detects Early Biomarkers of Cardiomyopathy in C57Bl/6 Mice Fed a High-fat Diet  
Frederick H Epstein, Univ of Virginia, Charlottesville, VA

2:10  Clinical Gadolinium-Free Magnetic Resonance Imaging With Magnetization Transfer Contrast Detects Cardiac Fibrosis With High Sensitivity and Specificity Compared to Late Gadolinium Enhanced Imaging  
Tori A Stroom, Univ of Kentucky, Lexington, KY

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Gillian Murtagh, Univ of Chicago, Chicago, IL

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
Atrial Fibrillation—Pharmacology and Anticoagulation

South Hall A2 - Core 4 Theater
4:10 - 4:55 PM

Moderator:
Paulus Kirchhof, Birmingham, United Kingdom

4:10 New Oral Anticoagulants for Periprocedural Management of Anticoagulation in Patients Undergoing Radiofrequency Catheter Ablation for Atrial Fibrillation: a Meta-analysis
Abdul Shokor Parwani, Virchow Charite Berlin, Berlin, Germany
Wilhelm Haverkamp, Virchow Charite Berlin, Berlin, Germany

4:15 Successful Pharmacological Cardioversion by Oral Amiodarone Therapy is Correlated With Favorable Post-Ablation Clinical Outcomes in Non-Paroxysmal Atrial Fibrillation
Kiyoshi Otomo, Sendai Kousei Hosp, Sendai, Japan
Taiichiro Meguro, Sendai Kousei Hosp, Sendai, Japan

4:20 Peri-Procedural Anticoagulation Regimen Influences the Clinical Course of Migraine in Atrial Fibrillation Patients With or Without Pre-Existing Migraine
Sanghamitra Mohanty, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX
Andrea Natale, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX

4:25 Percent Time With a Supratherapeutic Inr in Atrial Fibrillation Patients Using an Antiplatelet Agent is Associated With Long-term Risk of Dementia
Thomas Jared Bunch, Intermountain Heart Inst, Murray, UT
Scott C Woller, Intermountain Heart Inst, Murray, UT

4:30 Efficacy and Safety of Rivaroxaban in Patients Undergoing Atrial Fibrillation Ablation: Evidence From a Meta-Analysis
Ramez Nairooz, Univ of Arkansas for Medical Sciences, Little Rock, AR
Debabrata Mukherjee, Texas Tech Univ Health Sciences Center, El Paso, TX

4:35 Feasibility and Safety of Uninterrupted Rivaroxaban in Patients Undergoing Radiofrequency Ablation for Long Standing Persistent Atrial Fibrillation
Luigi Di Biase, Albert Einstein Coll of Med at Montefiore Hosp And Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr, New York and Austin, TX
Andrea Natale, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr, Austin, TX

4:40 Warfarin versus Dabigatran: The Coagulation Activity in the Left Atrium During Atrial Fibrillation Ablation
Naoaki Hashimoto, Yamagata Univ Sch of Med, Yamagata, Japan
Isao Kubota, Yamagata Univ Sch of Med, Yamagata, Japan

4:45 Safety of Novel Oral Anticoagulants Compared with Uninterrupted Warfarin for Catheter Ablation of Atrial Fibrillation
John Lindsley, The Johns Hopkins Hosp, Baltimore, MD
Joseph E Marine, The Johns Hopkins Univ Sch of Med, Baltimore, MD

4:50 Lower Thromboembolic and Bleeding Events With Uninterrupted Warfarin Compared to Interrupted Warfarin and Heparin Bridging in Atrial Fibrillation Ablation. Evidence From a Meta-Analysis
Ramez Nairooz, Univ of Arkansas for Medical Sciences, Little Rock, AR
Kenneth L Gould, Univ of Texas Medical Sch, Houston, TX

Coronary Case

South Hall A1 - Booth 1676
3:00 - 3:45 PM

Case Presentation:
Adhir Shroff, Chicago, IL

Panelists:
Dimitrios Karmpaliotis, Atlanta, GA
Thierry Lefevre, Massy, France
Roxana Mehran, New York, NY
Jennifer Tremmel, Stanford, CA
Michael J Rinaldi, Charlotte, NC

AF and Stroke: Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk Stratification

South Hall A2 - Core 4 Theater
2:00 - 2:50 PM

Moderator:
Gregory Lip, Birmingham, United Kingdom

2:00 The Correlation Between Complex Fractionated Atrial Electrogram and High Sensitivity-C Reactive Protein
Daisuke Ishigaki, Yamagata Univ Sch of Med, Yamagata, Japan
Isao Kubota, Yamagata Univ Sch of Med, Yamagata, Japan
2:05  Chad2 and Chad2vasc Scores Predict the Risk for Left Atrial Thrombus in Patients With Atrial Fibrillation  
Fengpeng Jia, Chongqing Medical Univ, Chongqing, China  
Zhenguo Liu, Chongqing Medical Univ, Chongqing, China

2:10  Pattern of Atrial Fibrillation and the Risk of Ischemic Stroke - A Systematic Review and Meta-Analysis  
Thomas Vanassche, McMaster Univ, Hamilton, ON, Canada  
Stuart J Connolly, McMaster Univ, Hamilton, ON, Canada

2:15  Over-Treatment with Oral Anticoagulants of Non Valvular Atrial Fibrillation Patients at Low Risk of Stroke: The ARAPACIS Study  
Marco Proietti, Sapienza-Univ of Rome, Rome, Italy

2:20  Left Atrial Volume Index Predicts Recurrence of Stroke in Patients With Non-Sustained Atrial Tachycardia  
Hyeonmoon Chung, Gangnam severance hospital, Seoul, Republic of Korea  
Jong-Youn Kim, Gangnam severance hospital, Seoul, Republic of Korea

2:25  The ORBIT-AF Bleeding Score: a Simple Score to Assess Major Bleeding Risk in Atrial Fibrillation  
Emily C O’Brien, Duke Clinical Res Inst, Durham, NC  
Jonathan P Piccini, Duke Clinical Res Inst, Durham, NC

2:30  Female Gender Associated with Increased Disability in Ischemic Strokes Secondary to Atrial Fibrillation  
Ryan C Martin, Univ of South Florida, Tampa, FL  
Arthur J Labovitz, Univ of South Florida, Tampa, FL

2:35  History of Bleeding and Outcomes with Apixaban versus Warfarin in Patients with Atrial Fibrillation in the ARISTOTLE Trial  
Raffaele De Caterina, G d’Annunzio Univ - Chieti, Chieti, Italy  
Lars Wallentin, Dept of Medical Sciences, Cardiology and Uppsala Clinical Res Ctr, Uppsala Univ, Uppsala, Sweden

2:40  Blood Pressure Control and Stroke or Bleeding Risk in Patients with Atrial Fibrillation: Results from the ROCKET AF Trial  
Sreekanth Vemulapalli, Duke Clinical Res Inst, Duke Univ Medical Ctr, Durham, NC  
Manesh R Patel, Duke Clinical Res Inst, Duke Univ Medical Ctr, Durham, NC

2:45  Comparison of Efficacy and Safety of Two Dosages Dabigatran versus Warfarin in Patients with Persistent and Long-standing Atrial Fibrillation Undergoing Electrical Cardioversion  
Oskars Kalejs, P.Stradins Univ Hosp, Riga, Latvia  
Andrejs Erglis, P.Stradins Univ Hosp, Riga, Latvia

South Hall A2 - Core 3 Theater  
2:00 - 2:50 PM  
Moderator:  
Manuel Mayr, London, United Kingdom

Methylome-wide Association With Soluble Cell Adhesion Molecules Among Monozygotic Twins  
Yan Sun, Emory Univ, Atlanta, GA  
Viola Vaccarino, Emory Univ, Atlanta, GA

Profiling of Circulating MicroRNAs After Heart Transplantation and During Acute Cellular and Antibody-Mediated Rejection  
Raymond Givens, Columbia Univ, New York, NY  
P Christian Schulze, Columbia Univ, New York, NY

Transcriptomic Profiling of Isogenic PBMC-derived and iPSC-derived Macrophages and Their Polarization  
Hanrui Zhang, Univ of Pennsylvania, Philadelphia, PA  
Muredach P Reilly, Univ of Pennsylvania, Philadelphia, PA

Interrogation of Novel Genes and Loci in Cardiovascular and Metabolic Diseases with Genome Editing  
Kiran Musunuru, Harvard Univ, Cambridge, MA

Non-Targeted Metabolomic Profiling Identifies Novel Markers of Insulin Resistance  
John F O’Sullivan, Massachusetts General Hosp, Boston, MA  
Robert E Gerszten, Massachusetts General Hosp, Boston, MA

Identification of Stromal Interaction Molecule 1 Complexes in Cardiac Hypertrophy  
Ahyoung Lee, Icahn Sch of Med at Mount Sinai, New York, NY  
Jean-Sébastien Hulot, Icahn Sch of Med at Mount Sinai, New York, NY

Myocardial Long Non-coding RNA Expression Exhibits Chamber- and Disease-Specific Signatures in Human Right Ventricle  
Kai-Chien Yang, Natl Taiwan Univ, Taipei, Taiwan  
Thomas G DiSalvo, Vanderbilt Univ Sch of Med, Nashville, TN

Differential Cardiac MicroRNA Expression Predicts the Clinical Course in Human Enterovirus Cardiomyopathy  
Wolfgang Poller, Charite - Univmedizin Berlin, Berlin, Germany
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<th>Session Title</th>
<th>Authors/Institutions</th>
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<tr>
<td>2:40</td>
<td>A Novel Aptamer-based Proteomic Technology for Cardiac Biomarker Discovery</td>
<td>Debby Ngo, Massachusetts General Hosp, Boston, MA</td>
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<td>Robert E Gerszten, Massachusetts General Hosp, Boston, MA</td>
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<td>2:45</td>
<td>The Genesips Project: an NHLBI-Sponsored induced Pluripotent Stem Cell (iPSC) Resource for the Study of Cardiovascular Diseases</td>
<td>Ivan Carcamo-Orive, Stanford Univ, Stanford, CA</td>
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<td>Thomas Quertermous, Stanford Univ, Stanford, CA</td>
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<tr>
<td>2:50</td>
<td>Impact of Inhibitors of Renin-Angiotensin-Aldosterone System on Left Ventricular Property in Hypertension Assessed by a Novel 3-Dimensional Speckle Tracking Echocardiography With High Volume Rates</td>
<td>Shingo Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan</td>
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<td></td>
<td>Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan</td>
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<tr>
<td>2:55</td>
<td>Lower Achieved Systolic Pressure is Associated With Increased Short-Term Mortality After Stroke in Hypertensive Patients With Electrocardiographic Left Ventricular Hypertrophy</td>
<td>Peter M Okin, Weill Cornell Medical Coll, New York, NY</td>
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<td>Richard B Devereux, Weill Cornell Medical Coll, New York, NY</td>
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<td>Sex-differences in Left Ventricular Mass Changes in Treated Hypertensive Outpatients: The Campania Salute Network</td>
<td>Giovanni de Simone, Univ of Naples, Naples, Italy</td>
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<td>Shigeru Matsui, Fujita Health Univ, Toyoake, Japan</td>
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<td>Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan</td>
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<td>4:00</td>
<td>Higher Mortality in Patients with Undiagnosed Hypertension: Is the Electronic Medical Record the Key to Their Identification?</td>
<td>Olufunso W Odunukan, Mayo Clinic, Jacksonville, FL</td>
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<td>Mark A Nyman, Mayo Clinic, Rochester, MN</td>
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<td>Which Cutoff Value of Clinic BP Better Stratify Cardiovascular Risk in Patinet with Type 2 Diabetes ? - the J-HOP Study</td>
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<td>Incidence and Etiology of Sudden Cardiac Death in NCAA Athletes: 10 - Year Data</td>
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**e-Abstract Session**

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<thead>
<tr>
<th>EAS.720.03</th>
<th>Hypertension—Brain, Heart and Kidney</th>
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<tbody>
<tr>
<td>South Hall A2 - Core 7 Theater</td>
<td>2:00 - 2:50 PM</td>
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<tr>
<td>Moderator:</td>
<td>Susan Hedayati, Dallas, TX</td>
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<td>Impact of Left Ventricular Systolic Function on Blood Pressure Lowering Effects in Hypertensive Patients With Coronary Artery Disease: the Hij-create Sub-study</td>
<td>Hiroshi Ogawa, The Heart Inst of Japan, Shinjuku, Tokyo, Japan</td>
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<td>Nobuhisa Hagiwara, The Heart Inst of Japan, Shinjuku, Tokyo, Japan</td>
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<td>2:05</td>
<td>Comparative Impact of Isolated Systolic Hypertension vs Systolic-Diastolic Hypertension on Incident Heart Failure and All-Cause Mortality in Community-Dwelling Older Adults</td>
<td>Raya E Kheirbek, District of Columbia Veteran Affairs Medical Ctr, Washington, DC</td>
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<td>Ali Ahmed, District of Columbia Veteran Affairs Medical Ctr, Washington, DC</td>
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<th>EAS.212.06</th>
<th>ECG Markers of CVD Risk I</th>
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<td>South Hall A2 - Core 2 Theater</td>
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<td>Alan Maisel, Solana Beach, CA</td>
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</table>
### 4:20 — Contribution of Medications and Risk Factors to QT Interval Lengthening in the Atherosclerosis Risk in Communities (ARIC) Study

Khalid Alburikan, Univeristy of North Carolina, Chapel Hill, NC  
Jo E Rodgers, Univeristy of North Carolina, Chapel Hill, NC

### 4:25 — Influence of Resting Heart Rate and Changes in Resting Heart Rate on Cardiovascular Outcomes From the Atherosclerosis Risk in Communities Study

Ali Vazir, Royal Brompton Hosp, London, United Kingdom  
Scott D Solomon, Brigham and Women’s Hosp, Boston, MA

### 4:30 — Heart Rate and the Incidence of 12 Cardiovascular Diseases: A Linked Electronic Health Records CALIBER Study

Olga Archangelidi, The Farr Inst of Health Informatics Res, London, United Kingdom  
Harry Hemingway, The Farr Inst of Health Informatics Res, London, United Kingdom

### 4:35 — The Prognostic Value of Automatically Detected Early Repolarization - A Focus on Hispanics

Philip Aagaard, Montefiore Medical Ctr, The Univ Hosp of Albert Einstein Coll of Med, Bronx, NY

### 4:40 — A Prognostic Study of the J wave Patterns on the Resting Electrocardiogram in Ambulatory Patients

Vedant S Pargaonkar, Stanford Univ Sch of Med, Stanford, CA  
Victor F Froelicher, Stanford Univ Sch of Med, VA Palo Alto Health Care System, Palo Alto, CA

### 4:45 — Healthy Lifestyle and Heart Rate Variability in the General Population

Stefanie Aeschbacher, Univ hospital Basel, Basel, Switzerland  
David Conen, Univ hospital Basel, Basel, Switzerland

### 4:50 — Incidence Rates and Risk Factors for Sudden Unexpected Non-Cardiac Death in the Young - A Nationwide Cohort Study in Denmark

Bjarke Risgaard, Rigshospitalet, Copenhagen, Denmark  
Jacob Tfelt-Hansen, Rigshospitalet, Copenhagen, Denmark

### 4:55 — Evolving Standards for Athlete ECG Interpretation Result in Declining Abnormal Rates

Joseph C Marek, Advocate Medical Group, Downers Grove, IL  
Frank Zimmerman, Advocate Medical Group, Oak Lawn, IL

### e-Abstract Session

#### Insights from Observational Studies

**South Hall A2 - Core 2 Theater**
**2:00 - 2:50 PM**

**Moderator:**  
Anand Rohatgi, Dallas, TX

#### 2:00 — Family History of Cardiovascular Disease is an Independent Predictor of Gestational Hypertensive Disease and Diabetes: The Korean Nurses’ Survey

Heesun Lee, Seoul Natl Univ Bundang Hosp, Gumiro 166, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea  
Myeong Chan Cho, Korea Natl Inst of Health, Chungbuk, Republic of Korea

#### 2:05 — Sustained Increase in the Incidence of Acute Cardiovascular Events After the 2011 Northeast Japan Tsunami: A Population Based Study

Motoyuki Nakamura, Iwate Med Univ, Morioka-shi, Japan  
Iwate Heart Disease Registry Consortium

#### 2:10 — Predictive values of Cardiac Valvular Calcification and Protein-Energy Wasting in Cardiovascular Outcome in End-Stage Renal Disease Patients at Starting Hemodialysis Therapy

Hideki Ishii, Nagoya Univ, Nagoya, Japan  
Toyoaki Murohara, Nagoya Univ, Nagoya, Japan

#### 2:15 — Gender and Race Differences in Patient Characteristics and Outcomes in 10,582 Hospitalizations for Takotsubo Cardiomyopathy

David P Kao, Univ of Colorado Anschutz Medical Campus, Aurora, CO  
JoAnn Lindenfeld, Univ of Colorado Anschutz Medical Campus, Aurora, CO

#### 2:20 — The Association Between Urinary Calculi and Increased Future Cardiovascular Events

Po-Hsun Huang, Taipei Veterans General Hosp, Taipei, Taiwan, Taipei, Taiwan  
Shing-Jong Lin, Taipei Veterans General Hosp, Taipei, Taiwan, Taipei, Taiwan

#### 2:25 — 10-Year Development in Cardiac Mortality in the Young - A Nationwide Cohort Study in Denmark

Bjarke Risgaard, Rigshospitalet, Copenhagen, Denmark  
Jacob Tfelt-Hansen, Rigshospitalet, Copenhagen, Denmark

#### 2:30 — Lifespan Predictors of Cardiovascular Morbidity in Individuals Reaching Middle Age: The Bogalusa Heart Study

Camilo Fernández Alonso, Tulane Univ Health Sciences Ctr, New Orleans, LA  
Gerald S Berenson, Tulane Univ Health Sciences Ctr, New Orleans, LA
### Abstract Oral Session

**AOS.903.01Y**

**ATVB Early Career Investigator Award Finalists**

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speakers</th>
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<tbody>
<tr>
<td>3:45</td>
<td>Increased Prevalence of Cardiac Abnormalities in Asymptomatic Adolescents and Young Adults</td>
<td>Patrick L Hauer, Univ of South Dakota, Vermillion, SD&lt;br&gt;Patrick S Cross, Briar Cliff Univ, Sioux City, IA</td>
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<tr>
<td>3:40</td>
<td>Risk of Infective Endocarditis in Patients Receiving Chronic Renal Replacement Therapy - a Nationwide Study</td>
<td>Mavish S Chaudry, Gentofte Hosp, Copenhagen, Denmark&lt;br&gt;Niels Eske Bruun, Gentofte Hosp, Copenhagen, Denmark</td>
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<tr>
<td>3:45</td>
<td>Effect of Cardiovascular Comorbidities on the Mortality Risk Associated with Serum Potassium</td>
<td>Bertram Pitt, Univ of Michigan Medical Sch, Ann Arbor, MI&lt;br&gt;David A Bushinsky, Univ of Rochester Medical Ctr, Rochester, NY</td>
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**Abstract Oral Session**

**AOS.400.01Y**

**Cournand and Comroe Young Investigator Prize Finalists**

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<td>3:45</td>
<td>miR-33 and Its Passenger Strand Cooperatively Regulate Autophagy in Atherosclerosis</td>
<td>Mireille Ouimet, New York Univ Medical Ctr, New York, NY&lt;br&gt;Kathryn Moore, New York Univ Medical Ctr, New York, NY</td>
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### Q&A Discussion

- **3:45** TRAIL Promotes Angiogenesis and Ischemia-Induced Neovascularisation via NOX4, H2O2 and Nitric Oxide-Dependent Mechanisms
  - **Belinda A Di Bartolo**, The Heart Res Inst, Newtown, Australia
  - **Mary M Kavurma**, The Heart Res Inst, Newtown, Australia
  
- **4:00** Activation of the Wnt/Planar Cell Polarity Pathway is Required for Pericyte Recruitment During Pulmonary Angiogenesis
  - **Ke Yuan**, Stanford Univ, Stanford, CA
  - **Vinicio de Jesus Perez**, Stanford Univ, Stanford, CA

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- **3:55** Thiosulfate: A Carrier Molecule of the Protective Effects of Hydrogen Sulfide Against Neuronal Ischemia
  - **Eizo Marutani**, Massachusetts General Hosp, Charletown, MA
  - **Fumito Ichinose**, Massachusetts General Hosp, Charletown, MA

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- **4:00** Importance of Chest Compression Release and Its Interaction With Depth for Improving Blood Flows and Pressures During CPR
  - **Joshua W Lampe**, Univ of Pennsylvania, Philadelphia, PA
  - **Lance B Becker**, Univ of Pennsylvania, Philadelphia, PA

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- **4:10** SIRT3-AMPK Activation by Nitrite and Metformin Improves Hyperglycemia and Normalizes PH-HFpEF
  - **Yen-Chun Lai**, Vascular Med Inst, Pittsburgh, PA
  - **Mark T Gladwin**, Vascular Med Inst, Pittsburgh, PA

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- **4:15** Dysregulated Fatty Acid Metabolism in Pulmonary Arterial Hypertension is Associated with Right Ventricular Steatosis and Lipotoxicity
  - **Evan L Brittain**, Vanderbilt Univ Medical Ctr, Nashville, TN
  - **Anna R Hemnes**, Vanderbilt Univ Medical Ctr, Nashville, TN
Abstract Oral Session

AOS.300.01Y

CVDY Early Career Investigator Award Finalists

S101
3:45 - 4:30 PM

Moderators:
Elizabeth Blume, Boston, MA
Antonio G Cabrera, Houston, TX

3:45 Whole-Genome Sequencing at 10-Days of Life in Perinatal Long-QT Syndrome Yields New Insights Into Disease Pathogenesis
James R Priest, Stanford Univ Medical Ctr, Stanford, CA
Euan A Ashley, Stanford Univ Medical Ctr, Stanford, CA

3:55 Q&A Discussion

4:00 Myocardial Fibrosis Burden Predicts Left Ventricular Ejection Fraction and is Modified by Age and Steroid Treatment Duration in Duchenne Muscular Dystrophy
Animesh Tandon, Cincinnati Children’s Hosp Medical Ctr, Cincinnati, OH
Michael D Taylor, Cincinnati Children’s Hosp Medical Ctr, Cincinnati, OH

4:10 Q&A Discussion

4:15 Direct Physician Reporting Reduces Radiation Exposure in Pediatric Cardiac Catheterizations
George T Nicholson, Children’s Healthcare of Atlanta/Emory Univ, Atlanta, GA
Christopher J Petit, Children’s Healthcare of Atlanta/Emory Univ, Atlanta, GA

4:25 Q&A Discussion

Abstract Oral Session

AOS.300.02Y

Functional Genomics and Translational Biology Young Investigator Award Finalists

S102bc
3:45 - 5:00 PM

Moderators:
Pankaj Arora, Birmingham, AL
David M Herrington, Winston-Salem, NC

3:45 Acute Kidney Injury is a Powerful and an Independent Determinant of In-Hospital Mortality in Patients Undergoing Percutaneous Coronary Interventions
Judith Koopman, Leiden Univ Medical Ctr, Leiden, Netherlands
Hitinder S Gurm, Univ of Michigan, Ann Arbor, MI

3:55 Q&A Discussion

4:00 Sex Differences in Lifetime Risk and First Manifestation of Cardiovascular Disease: An Evidence Gap in Preventive Cardiology
Maarten J G Leening, Erasmus MC - Univ Medical Ctr Rotterdam, Rotterdam, Netherlands
Jolien W Roos-Hesselink, Erasmus MC - Univ Medical Ctr Rotterdam, Rotterdam, Netherlands

4:10 Q&A Discussion

4:15 Prognostic Value of Cardiac Time Intervals Measured by Tissue Doppler Imaging M-Mode in the General Population
Tor Biering-Sorensen, Gentofte Univ Hosp, Copenhagen, Denmark
Jan Skov Jensen, Gentofte Univ Hosp, Copenhagen, Denmark

4:25 Q&A Discussion

4:40 A Genome-wide Association Study of Nonsyndromic Mitral Valve Prolapse and Functional Studies of Risk Loci Provide Insight Into Underlying Biological Mechanisms
Nabila Bouatia-Naji, INSERM UMR970 Paris Cardiovascular Res Ctr, Hôpital Européen Georges Pompidou, Paris, France
Xavier Jeunemaitre, INSERM UMR970 Paris Cardiovascular Res Ctr, Hôpital Européen Georges Pompidou, Paris, France

4:55 Q&A Discussion
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<td>Identification of a Functional SNP Regulating PRRX1 at the 1q24 Locus for Atrial Fibrillation</td>
<td>Elena Dolmatova, MGH, Charlestown, MA, Patrick T Ellinor, MGH, Charlestown, MA</td>
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<td>Q&amp;A Discussion</td>
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<td>CCN5 Reverses Fibrosis and Cardiac Dysfunction Induced by Pressure Overload in Murine Models</td>
<td>Dongtak Jeong, Mount Sinai Sch of Med, New York, NY, Roger Hajjar, Mount Sinai Sch of Med, New York, NY</td>
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<td>Epigenome-Wide Study Identifies Novel Methylation Loci Associated With Body Mass Index and Waist Circumference</td>
<td>Stella Aslibekyan, Univ of Alabama at Birmingham, Birmingham, AL, Donna K Arnett, Univ of Alabama at Birmingham, Birmingham, AL</td>
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<td>Effects of Renal Sympathetic Denervation in Resistant Hypertension on Myocardial Structure, Function and Perfusion: A Serial CMR Study</td>
<td>Ramesh G Chokka, South Australian Health And Medical Res Inst, Adelaide, Australia, Stephen G Worthley, Royal Adelaide Hosp, Adelaide, Australia</td>
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### Abstract Oral Session

#### AOS.714.02N

**Jay D. Coffman Early Career Investigator Award Winner**

**S103bc**  
3:45 - 5:00 PM

**Moderators:**
Sanjay Misra, Rochester, MN
Melina Kibbe, Chicago, IL

**3:45 Jay D. Coffman Award Lecture: Disturbed Flow Stiffens Murine Carotid Artery Through Pro-Inflammatory Collagen Deposition and Remodeling**

Luke P Brewster, Atlanta, GA

**4:15 Quantifying Total Atherosclerotic Burden Non-Invasively Through Coronary Computed Tomography Angiography: A Comparison With Multivessel Intravascular Ultrasound Data**

Rafael C Silva, Heart Inst - Univ of São Paulo Sch of Med, São Paulo, Brazil
Pedro A Lemos, Heart Inst - Univ of São Paulo Sch of Med, São Paulo, Brazil

**4:25 Q&A Discussion**

**4:30 Renal Sympathetic Denervation Increases Renal Artery Blood Flow: a Serial MRI Study in Resistant Hypertension**

Sinny Delacroix, Royal Adelaide Hosp, Adelaide, Australia
Stephen G Worthley, Royal Adelaide Hosp, Adelaide, Australia

**4:40 Q&A Discussion**

#### AOS.200.01YN

**Katharine A. Lembright Award/Lecture and Martha N. Hill New Investigator Award Finalists**

**S502**  
3:45 - 5:00 PM

**Moderators:**
Mariann Piano, Chicago, IL
Nancy Artinian, Detroit, MI

**3:45 Katharine A. Lembright Award and Lecture**

Nancy Artinian, Detroit, MI

**4:15 The Role of Heart Rate Variability in Predicting Sudden and Non-Sudden Cardiac Death in Ischemic Heart Disease**

Salah S Al-Zaiti, Univ of Pittsburgh, Pittsburgh, PA
James A Fallavollita, Univ at Buffalo, Buffalo, NY

**4:25 Q&A Discussion**

**4:30 The Relationship Between PAD Symptomatology and Ischemia: a Mixed Method Evaluation**

Erica Schorr, Univ of Minnesota, Minneapolis, MN
Ruth Lindquist, Univ of Minnesota, Minneapolis, MN

**4:40 Q&A Discussion**

**4:45 The Value of Continuous ST-Segment Monitoring in the Emergency Department: a Quasi-Experimental Pre-Post Study**

Leonie L Rose Bovino, Bridgeport Hosp, Bridgeport, CT
Marjorie Funk, Yale Univ, West Haven, CT

**4:55 Q&A Discussion**
Abstract Oral Session

AOS.904.01Y

Louis N. and Arnold M. Katz Basic Science Research Prize for Young Investigators Finalists

S406b
3:45 - 5:00 PM

Moderators:
Walter Koch, Philadelphia, PA
Yibin Wang, Los Angeles, CA

3:45 MBL1 Directly Regulates the Alternative Splicing of mRNAs That Promote Myofibroblast Differentiation
Jennifer Davis, Cincinnati Children’s Hosp Medical Ctr, Cincinnati, OH
Jeffery D Molkentin, Cincinnati Children’s Hosp Medical Ctr, Cincinnati, OH

3:55 Q&A Discussion

4:00 Epigenomic Switch by Wnt/β-catenin Signaling Directs Cardiomyocyte Differentiation
Seitaro Nomura, The Univ of Tokyo, Tokyo, Japan
Hiroyuki Aburatani, The Univ of Tokyo, Tokyo, Japan

4:10 Q&A Discussion

4:15 Aortic Valve Calcification is Reduced by COX2 Inhibition
Elaine E Wirrig, Cincinnati Children’s Hosp Medical Ctr, Cincinnati, OH
Katherine E Yutzey, Cincinnati Children’s Hosp Medical Ctr, Cincinnati, OH

4:25 Q&A Discussion

4:30 Snf1-related Kinase Improves Cardiac Metabolic Efficiency through a Decrease in Mitochondrial Uncoupling
Amy K Rines, Northwestern Univ, Chicago, IL
Hossein Ardehali, Northwestern Univ, Chicago, IL

4:40 Q&A Discussion

4:45 Induction of Ischemia-Reperfusion Injury by Extracellular RNA: A case for Tumor Necrosis Factor (TNF-α) - Shedding
Hector A Cabrera-Fuentes, 1Justus-Liebig-Univ Giessen, Giessen, Germany
Klaus T Preisser, 1Justus-Liebig-Univ Giessen, Giessen, Germany

4:55 Q&A Discussion

Abstract Oral Session

AOS.100.01Y

Melvin Judkins Young Investigator Award Finalists

N230b
3:45 - 5:00 PM

Moderator:
Sanjay Misra, Rochester, MN

3:45 A Novel Reproducible Noninvasive Imaging Approach to Quantify Nitric Oxide-mediated Coronary Endothelial Function in Humans
Micaela Iantorno, The Johns Hopkins Univ, Baltimore, MD
Robert G Weiss, The Johns Hopkins Univ, Baltimore, MD

3:57 Q&A Discussion

4:04 Co-administration of Autologous Cardiac Stem Cells and Mesenchymal Stem Cells Reduces Infarct Size and is Superior to a Single Cell Type in Restoring Function in a Swine Model of Chronic Ischemic Cardiomyopathy
Viky Y Suncion, Univ of Miami, Hollywood, FL
Joshua M Hare, Univ of Miami, Miami, FL

4:16 Q&A Discussion

4:23 Cardiovascular Magnetic Resonance in Cardiac Amyloidosis: A 242 Patient Prospective Study
Marianna Fontana, Heart Hosp, London, United Kingdom
James C Moon, Heart Hosp, London, United Kingdom

4:35 Q&A Discussion

4:42 Novel Magnetic Resonance Wave Intensity Analysis in Pulmonary Hypertension
Michael A Quail, Inst of Cardiovascular Science, London, United Kingdom
Vivek Muthurangu, Inst of Cardiovascular Science, London, United Kingdom

4:54 Q&A Discussion

Abstract Oral Session

AOS.200.02YN

Robert Levy Memorial Lecture/Lifestyle Highlighted Science Session Oral Abstract Presentation

S504
3:45 - 5:00 PM

3:45 Robert Levy Memorial Lecture: Familial Hypercholesterolemia—the Journey from a Lethal Disorder to a Manageable Dyslipidemia
John J Kastelein, Amsterdam, Netherlands
4:15 Polysaturated Fat Intake Estimated by Circulating Biomarkers is Inversely Associated with Cardiovascular Disease and All-Cause Mortality in a Large Population-Based Cohort of Swedish Women and Men Matti Marklund, Uppsala Univ, Uppsala, Sweden Ulf Risérus, Uppsala Univ, Uppsala, Sweden
4:25 Q&A Discussion
4:30 The Lipophilic Index of Red Blood Cell Membranes and Risk of Sudden Cardiac Death in Women Stephanie E Chiuve, Brigham and Women's Hosp, Boston, MA Christine M Albert, Brigham and Women's Hosp, Boston, MA
4:40 Q&A Discussion
4:45 Glycemic Response to a Single Food is Influenced by Plasma HgbA1c Concentrations Nirupa R Matthan, Tufts Univ, Boston, MA Alice H Lichtenstein, Tufts Univ, Boston, MA
4:55 Q&A Discussion

Abstract Oral Session

AOS.600.01Y

Vivien Thomas Young Investigator Award Finalists

N227b
3:45 - 5:00 PM
Moderators: James Davies, Birmingham, AL Michael Fischbein, Palo Alto, CA
3:45 Cardiac Overexpression of Membrane Type-1 Matrix Metalloproteinase Causes Left Ventricular Remodeling and Pump Dysfunction in Peripartum Cardiomyopathy Adam N Franklin, MUSC, Charleston, SC John S Ikonomidou, MUSC, Charleston, SC
3:55 Q&A Discussion
4:00 Tert-Butylhydroquinone Rescues Cyclosporine-A Mediated Impairment in Vascular Function via Augmenting Phosphorylation of the Transcription Factor Nrf2 Arash Ghashghai, Toronto General Hosp, Toronto, ON, Canada Vivek Rao, Toronto General Hosp, Toronto, ON, Canada
4:10 Q&A Discussion
4:25 Q&A Discussion

4:30 Integrated miRNA and mRNA Responses to Acute Human Left Ventricular Ischemia Louis A Saddic, Brigham and Women’s Hosp, Boston, MA Jochen D Muehlischlegel, Brigham and Women’s Hosp, Boston, MA
4:40 Q&A Discussion
4:45 Local MicroRNA Modulation is Feasible: A Novel Anti-Mir-21-Eluting Stent Prevents In-Stent Restenosis Dong Wang, Univ Heart Ctr Hamburg, Hamburg, Germany Sonia Schrepfer, Univ Heart Ctr Hamburg, Hamburg, Germany
4:55 Q&A Discussion

Cardiovascular Seminar

CVS.231.gc

Using the EMR to Transform Research and Clinical Care Delivery

S100c
3:45 - 5:00 PM
Moderator: Michael S Blum, San Francisco, CA
3:45 What is Meaningful Use of an EHR? William Bria, Jacksonville, FL
4:00 How does EHR Work in the Era of Healthcare Reform and ACOs? Tom Karson, New York, NY
4:15 TBD
4:30 TBD
4:45 Panel Discussion: EHRs—Fulfilling a Promise or New Digital Masters

Late-Breaking Clinical Trials

LBCT.01

Risk and Benefit of Dual Antiplatelet Therapy

North Hall B
3:45 - 5:00 PM
Moderators: Elliott Antman, Boston, MA Fausto Pinto, Lisboa, Portugal
3:45 Increased Risk of Ischemic Events Upon Discontinuation of Prasugrel After 12 or 30 Months of Therapy Following Placement of the Taxus Liberté Paclitaxel-Eluting Coronary Stent Kirk N Garratt, New York, NY
3:55 Randomized, Double Blind Trial of 6 Versus 12 Months Of Dual Antiplatelet Therapy After DES-Implantation (ISAR-SAFE) Stefanie Schüpke (nee Schulz), Muenchen, Germany
4:05  Is 6 Months DAPT Post Coronary Stenting Non Inferior To 24 Months? The Italic/Italic+ Randomized Trial. Results of the One Year Primary Endpoint
Martine Gilard, Brest Cedex, France

4:15  Risk and Benefit of Prolonged Dual Antiplatelet Therapy After Drug-eluting Coronary Stents: Primary Endpoint Results from the Dual Antiplatelet Therapy Study
Laura Mauri, Boston, MA

4:25  Commentary
Gilles Montalescot, Paris, France

4:35  Panel Discussion
Marc Ruel, Ottawa, ON, Canada
Frans Van de Werf, Leuven, Belgium
Christian W Hamm, Bad Nauheim, Germany

Special

State of the Art: Heart Failure and Preserved Ejection Fraction

S100ab
3:45 - 5:00 PM

Moderators:
Amrut Ambardekar, Aurora, CO
Larry A Allen, Aurora, CO

3:45  Epidemiology of HfPEF
Veronique L Roger, Rochester, MN

4:00  New Insights into Etiology and Pathophysiology of HfPEF
Walter J Paulus, Amsterdam, Netherlands

4:15  New Treatment Strategies for HfPEF
Shin-ichi Momomura, Saitama, Japan

4:30  Why We’ve Had Such a Hard Time Finding a Cure: Insights from Clinical Trials in HfPEF
Chris O’Connor, Durham, NC

4:45  HfPEF: The Next Targets on the Frontier
Douglas L Mann, St Louis, MO

Case Theater

CT.02  Structural Heart Disease—Residual Problem After Mitraclip
South Hall A1 - Booth 1676
4:00 - 4:45 PM

Case Presentation:
Srihari Naidu, Mineola, NY

Panelists:
Azeem Latib, Milan, Italy
Steven J Yakubov, Columbus, OH
Anita Asgar, Quebec City, Canada
Jassen Michev, Milan, Italy
Adam Greenbaum, Farmington Hills, MI

Abstract Oral Session

Melvin L. Marcus Young Investigator Award in Cardiovascular Sciences Finalists

S106
5:15 - 6:30 PM

Moderators:
David J Lefer, New Orleans, LA
Marcello Rota, Boston, MA

5:15  Epigenetic Activation of Phosphodiesterase Subtypes Lead to Compromised Beta-Adrenergic Signaling in Induced Pluripotent Stem Cell-Derived Cardiomyocytes From Dilated Cardiomyopathy Patients
Haodi Wu, Stanford Univ, Stanford, CA
Joseph Wu, Stanford Univ, Stanford, CA

5:25  Q&A Discussion

5:30  TREK-1 Modulates Fibrosis & Diastolic Dysfunction Through Activation of Stress-Activated Kinases
Dennis M Abraham, Duke Univ Medical Ctr, Durham, NC
Howard A Rockman, Duke Univ Medical Ctr, Durham, NC

5:40  Q&A Discussion

5:45  A MiR-31-dependent Loss of Dystrophin & Nnos in the Human Atria Plays a Key Role in Atrial Fibrillation-induced Electrical Remodelling
Svetlana Reilly, Div of Cardiovascular Med, Oxford, United Kingdom
Barbara Casadei, Div of Cardiovascular Med, Oxford, United Kingdom

5:55  Q&A Discussion

6:00  Nucleostemin Maintains Cardiac Progenitor Cell “Stemness” and Cardiac Youth
Nirmala Harirahan, San Diego State Univ, San Diego, CA
Mark Sussman, San Diego State Univ, San Diego, CA

6:10  Q&A Discussion

6:15  Fyn is a Sensor and Regulator of Nox4-derived ROS in the Heart
Shoji Matsushima, Hokkaido Univ Graduate Sch of Med, Sappooro, Japan
Junichi Sadoshima, Rutgers New Jersey Medical Sch, Newark, NJ

6:25  Q&A Discussion
**Sunday, November 16 • Chicago, Illinois**

**Ask the Experts**

**ATE.401**

**Advances in CIED Therapy and Lead Management**

S401bcd  
5:30 - 6:45 PM  

Moderator:  
Kristen Patton, Seattle, WA  

5:30  
How Do I Program to Reduce the Risk of ICD Shocks?  
Claudio Schuger, Detroit, MI  

5:45  
Which Patients Should (or Should Not Be) Considered for the SICD?  
Martin Burke, Chicago, IL  

6:00  
Patient Selection for Biventricular Pacing: Have the New Guidelines Changed My Practice?  
Jagmeet P Singh, Boston, MA  

6:15  
My Patient Has Atrial Fibrillation: Should I Implant a Biventricular Device?  
Mintu Turakhia, Palo Alto, CA  

6:30  
Q&A Discussion

**Ask the Experts**

**ATE.101**

**Imaging and Clinical Decision Making in Complex Valve Disease**

N231  
5:30 - 6:45 PM  

Moderator:  
Catherine Otto, Seattle, WA  

5:30  
Low-Flow Severe Aortic Stenosis  
Stamatos Lerakis, Atlanta, GA  

5:48  
Isolated Severe TR  
Duk-Hyun Kang, Seoul, Republic of Korea  

6:06  
Moderate MS and MR  
Bogdan Popescu, Bucharest, Romania  

6:24  
Low-Flow Severe AS  
Muhammed Saric, New York, NY  

6:30  
Panel Participants  
Stephen Little, Houston, TX  
Judy Hung, Boston, MA

**Ask the Experts**

**ATE.102**

**Challenges in Interventional Imaging**

N230a  
5:30 - 6:45 PM  

Moderator:  
Bijoy K Khandheria, Milwaukee, WI  

5:30  
How to Assess Severity of Paravalvular AR Post TAVR?  
Jose Luis Zamorano, Madrid, Spain  

5:45  
How to Quantify Residual MV Area and MR Post MitraClip?  
Thilo Noack, Leipzig, Germany  

6:00  
How to Assess LAA Anatomy for Device Closure?  
Andrew Wickliffe, Atlanta, GA  

6:15  
How to Use Imaging to Guide Paravalvular Device Closure?  
Takahiro Shiota, Los Angeles, CA  

6:30  
Q&A Discussion

**Ask the Experts**

**ATE.601**

**Novel Oral Anticoagulants and New Oral Antiplatelet Agents: Challenges for PCI, ED and Surgery**

N227b  
5:30 - 6:45 PM  

Moderators:  
Amish N Raval, Madison, WI  
Chris C Granger, Durham, NC

5:30  
Perioperative Management of NOACs in the Nonurgent Setting: How Should I Advise the Surgeon?  
Jeffrey Weitz, Hamilton, ON, Canada

5:42  
Practical Tips on Dealing with NOACs and Bleeding in the Emergency Room  
Mark Crowther, Hamilton, ON, Canada

5:54  
My Patient Is on a NOAC and Now Needs a PCI!  
Matthew Roe, Durham, NC

6:06  
Long-Awaited NOAC Reversal Agents: How Will They Be Used in Clinical Practice?  
Richard C Becker, Cincinnati, OH

6:18  
Managing Patients on Thienopyridines and Ticagrelor at the Time of Urgent Surgery  
Charles Marc Samama, Paris, France

6:30  
Q&A Discussion  
Panel Participants  
Jessica L Mega, Boston, MA  
Jerrold H Levy, Durham, NC  
David Schneider, Colchester, VT

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Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
Ask the Experts

ATE.701

Venous Thromboembolism and Extended Antithrombotic Therapy: Who, When and How

S105abc
5:30 - 6:45 PM

Moderator:
Samuel Z Goldhaber, Boston, MA

5:30 VTE: Choosing the Right Agent for Extended Therapy
Gregory Piazza, Boston, MA

5:50 VTE: Shared Decision Making for Extended Anticoagulant Therapy
Geoffrey Barnes, Ann Arbor, MI

6:10 VTE: Choosing the Right Patient for Extended Therapy
Philip Wells, Ottawa, ON, Canada

6:30 Q&A Discussion

Cardiovascular Seminar

CVS.203

Cardiovascular Research from Early Career Nurse Scientists

S502
5:30 - 6:45 PM

Moderators:
Christopher S Lee, Portland, OR
Kristin Sandau, Saint Paul, MN

5:30 Momentary Behavioral Effects on Physical Activity in Adults with Type 2 Diabetes
Cynthia Fritschi, Chicago, IL

5:50 Expanding Evidence of Genetic Contributions to Survivorship in CAD
Jennifer R Dungan, Durham, NC

6:10 Timeliness of Symptom Recognition, Interpretation and Reporting in Heart Failure
Katherine M Reeder, St Louis, MO

6:30 Q&A Discussion

Cardiovascular Seminar

CVS.302

Clinical Management of Inherited Arrhythmias in Children

S102d
5:30 - 6:45 PM

Moderator:
Charles I Berul, Washington, DC

5:30 New and Exciting Discoveries in the Basic Science of Pediatric Channelopathies
Prince J Kannankeril, Nashville, TN

5:45 How Can Genetic Testing Be Applied in Pediatric Arrhythmia Care?
Michael J Ackerman, Rochester, MN

6:00 Sudden Death of Unknown Cause: How to Evaluate Families After the Sudden Unexplained Death of a Child
Gregory Webster, Chicago, IL

6:15 What Drugs for What Diseases? Show Me the Data!
Ronald J Kanter, Durham, NC

6:30 ICDs and Sympathectomy in LQTS and CPVT
Elizabeth Stephenson, Toronto, ON, Canada

Cardiovascular Seminar

CVS.401

Complications of AF Ablation: Diagnosis and Management

S402
5:30 - 6:45 PM

Moderator:
Prashanthan Sanders, Adelaide, Australia

5:30 Pulmonary Vein Stenosis
Douglas L Packer, Rochester, MN

5:45 Prevention of Nerve Damage
Seiji Takatsuki, Tokyo, Japan

6:00 Aortooesophageal Fistula
Dhanunjaya Lakkireddy, Kansas City, KS

6:15 Stiff Left Atrial Syndrome
Andrea Natale, Austin, TX

6:30 Stroke
Karen L Furie, Providence, RI

Cardiovascular Seminar

CVS.403

Controversies in Stroke Prevention in Atrial Fibrillation

S403
5:30 - 6:45 PM

Moderator:
Michael D Ezekowitz, Wynnewood, PA

5:30 What Is the Evidence for and Against Aspirin Monotherapy in Low-Risk AF Patients
Mintu Turakhia, Palo Alto, CA

5:45 Risk Stratification for Stroke: Why You Should Use CHADS2-VASC
Gregory Lip, Birmingham, United Kingdom

6:00 Risk Stratification for Stroke: Don’t Forget Chronic Kidney Disease
Jonathan P Piccini, Durham, NC

6:15 Should Atrial Tachycardia Without Atrial Fibrillation Be Anticoagulated?
Jeff S Healey, Hamilton, ON, Canada
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>6:30</td>
<td>Preventing Stroke After Major Gastrointestinal Bleeding: Drug or Device?</td>
<td>NA Mark Estes, Boston, MA</td>
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<td><strong>CVS.202</strong></td>
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<td>CVD Risk Factors in Children: Are We Winning the Battle?</td>
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<td>5:30</td>
<td>Diabetes Epidemic: The Global Impact on Cardiovascular Health</td>
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<td>5:30</td>
<td>Epigenetics of Pulmonary Arterial Hypertension</td>
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<td>ECG Alarm Management</td>
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<td>5:30</td>
<td>Emerging Mechanisms of Abdominal Aortic Aneurysm</td>
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<td>Epigenetics of Pulmonary Arterial Hypertension</td>
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</table>
5:45  Role for Methylation in PAH  
John J Ryan, Salt Lake City, UT

6:00  DNA Damage Signaling in PAH  
Sebastien Bonnet, Quebec, QC, Canada

6:15  HDAC and PAH  
Kurt R Stenmark, Aurora, CO

6:30  Q&A Discussion

---

5:30  Interleukin 17 in Hypertension  
Meena S Madhur, Nashville, TN

5:45  Tissue Sodium Stores in Hypertension  
Jens M Titze, Nashville, TN

6:00  Dendritic Cells in Hypertension  
David G Harrison, Nashville, TN

6:15  Macrophages in Hypertension  
Grant Drummond, Clayton, Australia

6:30  Adipose Tissue Inflammation in Hypertension  
Tomasz Guzik, Krakow, Poland

---

5:30  iPSC-Derived Cardiomyocytes as Models of Cardiovascular Diseases  
Jean-Sebastien Hulot, New York, NY

5:45  Patient-Specific Induced Pluripotent Stem Cells  
Joseph C Wu, Stanford, CA

6:00  Induced Pluripotent Stem Cells in Cardiovascular Drug Discovery  
Mark Mercola, La Jolla, CA

6:15  Disease Modeling in iPSC-Derived Cardiomyocytes  
Bruce D Gelb, New York, NY

6:30  Effect of Anisotropy on the Susceptibility of Human Pluripotent Stem Cell-Derived Cardiomyocytes to Arrhythmias  
Ronald Li, Hong Kong, Hong Kong
### Cardiovascular Seminar

**CVS.504**

**It Isn’t All About the Heart: Effects of Comorbidities on Heart Failure**

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<tr>
<td>S405</td>
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**Moderator:**

Bunny J Pozehl, Lincoln, NE

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<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>Obesity</td>
<td>João A Lima, Baltimore, MD</td>
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<td>Sleep Apnea</td>
<td>Shahrokh Javaheri, Cincinnati, OH</td>
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<tr>
<td>Cardiorenal Syndrome</td>
<td>Jeffrey Testani, New Haven, CT</td>
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<td>Anemia</td>
<td>Piotr Ponikowski, Wroclaw, Poland</td>
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<td>Frailty</td>
<td>Susan Joseph, St Louis, MO</td>
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### Cardiovascular Seminar

**CVS.503**

**Novel Mechanisms in Calcium Regulation in the Failing Heart**

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<tr>
<td>S404a</td>
<td>5:30 - 6:45 PM</td>
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**Moderators:**

Alicia Mattiazzi, La Plata, Argentina
Gerdi Hasenfuss, Gottingen, Germany

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<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Speaker</th>
<th>Location</th>
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<tr>
<td>5:30</td>
<td>S404a</td>
<td>Roles of HAX-1 and HRC in Calcium Regulation</td>
<td>Litsa G Kranias, Cincinnati, OH</td>
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<td>5:45</td>
<td>S404a</td>
<td>L- and T-Type Calcium Channels in Heart Failure</td>
<td>Steven R Houser, Philadelphia, PA</td>
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<tr>
<td>6:00</td>
<td>S404a</td>
<td>cAMKII Signaling in the Heart</td>
<td>Mark E Anderson, Iowa City, IA</td>
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<tr>
<td>6:15</td>
<td>S404a</td>
<td>Store-Operated Calcium Channels in Hypertrophy and Failure</td>
<td>Anne-Marie Lompré, Paris, France</td>
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<tr>
<td>6:30</td>
<td>S404a</td>
<td>Sarcolinip and SERCA Interactions</td>
<td>Peter Vangheluwe, Leuven, Belgium</td>
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### Cardiovascular Seminar

**CVS.602**

**PCI, Cooling and Out-of-Hospital Cardiac Arrest: Current Controversies**

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<td>N228</td>
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**Moderators:**

Mary Ann Peberdy, Richmond, VA
Timothy Henry, Minneapolis, MN

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<th>Topic</th>
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<tbody>
<tr>
<td>5:30</td>
<td>N228</td>
<td>Immediate Catheterization and PCI SHOULD Be Performed in All STEMI Patients with OHCA</td>
<td>Christian Spaulding, Paris, France</td>
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<td>5:42</td>
<td>N228</td>
<td>Emergent Catheterization and PCI SHOULD Be Performed in NSTEMI Patients with OHCA</td>
<td>Larry J Diaz, Grand Rapids, MI</td>
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<tr>
<td>6:06</td>
<td>N228</td>
<td>Emergent Catheterization and PCI SHOULD NOT Be Performed in NSTEMI Patients with OHCA</td>
<td>John Bro-Jeppesen, Copenhagen, Denmark</td>
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<td>6:30</td>
<td>N228</td>
<td>Q&amp;A Discussion</td>
<td>Panel Participants</td>
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<td>Karl Kern, Tucson, AZ</td>
<td>Philippe Garot, Massy, France</td>
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### Cardiovascular Seminar

**CVS.502**

**Posttranslational Modifications in Heart Failure**

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**Moderator:**

Donald R Menick, Charleston, SC

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<td>5:30</td>
<td>S406b</td>
<td>SERCA Oxidation in Cardiovascular Diseases</td>
<td>Wilson Colucci, Boston, MA</td>
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<td>5:45</td>
<td>S406b</td>
<td>Role of SUMO1 in Heart Failure</td>
<td>Changwon Kho, New York, NY</td>
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<td>6:00</td>
<td>S406b</td>
<td>Regulation of Cardiac Proteasomes by Ubiquitination</td>
<td>Peipei Ping, Los Angeles, CA</td>
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<td>6:15</td>
<td>S406b</td>
<td>Role of Lysine Acetylation in Ischemia/Reperfusion Injury in the Heart</td>
<td>Joseph A Hill, Dallas, TX</td>
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<td>6:30</td>
<td>S406b</td>
<td>Lysine Modifications: Moving Beyond Acetylation</td>
<td>Woo Jin Park, Gwangju, Republic of Korea</td>
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Cardiovascular Seminar

CVS.303

Predictors of Outcome for Congenital Heart Interventions

S102bc
5:30 - 6:45 PM

Moderators:
Leo Lopez, Miami, FL
Luciana Young, Chicago, IL

5:30 Predictors of Arch Obstruction in the Setting of HLHS
Meryl S Cohen, Philadelphia, PA

5:45 The Dilated Aortic Root and Aorta: What Are the Criteria for Intervention?
Koichiro Niwa, Tokyo, Japan

6:00 When Does an RV to PA Conduit Need to Be Replaced/Stented?
Jacqueline Kreutzer, Pittsburgh, PA

6:15 Neonatal Ebstein’s Anomaly: Patient Selection for Surgical Intervention
Christoph Knott-Craig, Memphis, TN

6:30 How I Use 3D Echocardiography for Mitral Valve Repair
Pedro del Nido, Boston, MA

---

Cardiovascular Seminar

CVS.702

Targeting Calcification in Cardiovascular Disease

S104
5:30 - 6:45 PM

Moderator:
Linda Demer, Los Angeles, CA

5:30 Genomics of Cardiovascular Calcification
Christopher J O’Donnell, Framingham, MA

5:45 Endothelial Cell Contributions to Vascular Calcification
Kristina I Bostrom, Los Angeles, CA

6:00 Pathologic Contributions of Calcification to the Unstable Plaque
Renu Virmani, Gaithersburg, MD

6:15 Targeting Vascular Calcification for Treatment
Keith A Hruska, St Louis, MO

6:30 Q&A Discussion

---

Cardiovascular Seminar

CVS.301

The Aggregate Knowledge of Platelets

S102a
5:30 - 6:45 PM

Moderator:
Andrew Johnson, Bethesda, MD

5:30 mRNA Seq Analysis of Platelets and Reactivity
Rehan Qayyum, Baltimore, MD

5:45 miRNAs in Platelets and Platelet Microparticles
Jane E Freedman, Worcester, MA

6:00 Treatment Effects in Platelet OMIcs Studies
Deepak Voora, Durham, NC

6:15 The Platelet Transcriptome in Cardiovascular Disease
Andrew Johnson, Bethesda, MD

6:30 Q&A Discussion

---

Cardiovascular Seminar

CVS.304

The AHA 2020 Goals: Getting Personal—What Does It Have to Do with My Genome?

S101
5:30 - 6:45 PM

Moderator:
Caroline S Fox, Framingham, MA

5:30 Why Biology Matters
Jennifer L Hall, Minneapolis, MN

5:49 You Are What You Eat: Food Intake and the Microbiome
Stanley Shaw, Boston, MA

6:08 The Couch Potato Gene
Molly Bray, Austin, TX

6:27 Genetic Testing to Predict Statin Response and CVD Risk
Themistocles L Assimes, Stanford, CA
### Cardiovascular Seminar

**CVS.201**

**The Growing Atherosclerotic Burden from Triglyceride- and Cholesterol-Rich Lipoproteins (TCRLs)**

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<tbody>
<tr>
<td>S504</td>
<td>5:30</td>
<td>Mendelian Randomization: TCRLs and LDL Drive Human Atherosclerosis</td>
<td>Edward Fisher, New York, NY</td>
</tr>
<tr>
<td></td>
<td>5:45</td>
<td>How the Atherometabolic Syndrome Drives Hepatic Oversecretion of Apolipoprotein B, the Major Protein of TCRLs and LDL</td>
<td>Anne Tybjaerg-Hansen, Copenhagen, Denmark</td>
</tr>
<tr>
<td>6:00</td>
<td>Sulfatase-2: A Novel Factor That Blocks Safe Hepatic Disposal of TCRLs in the Atherometabolic Syndrome</td>
<td>Kevin Jon Williams, Philadelphia, PA and Gothenburg, Sweden</td>
<td></td>
</tr>
<tr>
<td>6:15</td>
<td>An Unexpected Role for Brown and Beige Adipose Tissue in Safe, Whole-Particle Uptake of TCRLs</td>
<td>Jörg Heeren, Hamburg, Germany</td>
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<tr>
<td>6:30</td>
<td>Q&amp;A Discussion</td>
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**CVS.205**

**The Role of mHealth in Management and Prevention of CVD**

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<tr>
<td>S100c</td>
<td>5:30</td>
<td>Smartphone Intervention to Improve Diabetes Management</td>
<td>Kayo Waki, Tokyo, Japan</td>
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<td></td>
<td>5:45</td>
<td>Smoking Cessation Phone Apps to Support Quit Success</td>
<td>Bill Riley, Bethesda, MD</td>
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<td>6:00</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>6:15</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>6:30</td>
<td>Commentary: Role of mHealth in Promoting CV Health</td>
<td>George Mensah, Bethesda, MD</td>
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</table>

### Cardiovascular Seminar

**CVS.601**

**Thoracic Aortic Dissections: Current Management**

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<tbody>
<tr>
<td>N227a</td>
<td>5:30</td>
<td>Latest Advances in the Imaging of Acute Aortic Dissections</td>
<td>Constantino Pena, Miami, FL</td>
</tr>
<tr>
<td>5:45</td>
<td>Goals and Outcomes of TEVAR for Acute Descending Aortic Dissection</td>
<td>Joseph Lombardi, Camden, NJ</td>
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<tr>
<td>6:00</td>
<td>Novel Endoluminal Treatments—Other than TEVAR—for Complicated Acute Aortic Dissections</td>
<td>David M Williams, Ann Arbor, MI</td>
<td></td>
</tr>
<tr>
<td>6:15</td>
<td>Management of Short-Term Complications of TEVAR for Acute Aortic Dissections</td>
<td>Murray Shames, Tampa, FL</td>
<td></td>
</tr>
<tr>
<td>6:30</td>
<td>Management of Late TEVAR Failures</td>
<td>Mark Eskandari, Chicago, IL</td>
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</tbody>
</table>

### Cardiovascular Seminar

**CVS.237.gc**

**The Role of mHealth in Management and Prevention of CVD**

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<tr>
<td>S100c</td>
<td>5:30</td>
<td>Impact of Cardiac Rehabilitation in Secondary Prevention</td>
<td>Carl Lavie, New Orleans, LA</td>
</tr>
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<td></td>
<td>5:45</td>
<td>Improving Referral and Adherence</td>
<td>Lola Coke, Chicago, IL</td>
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<td>6:00</td>
<td>Age, Gender, Frailty and Physical Limitations</td>
<td>Ross Arena, Chicago, IL</td>
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<tr>
<td>6:15</td>
<td>Cardiac Rehabilitation in Heart Failure</td>
<td>Ileana L Pina, Bronx, NY</td>
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<tr>
<td>6:30</td>
<td>Cardiac Rehabilitation Around the World</td>
<td>Sherry L Grace, Toronto, ON, Canada</td>
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</table>
Joint Sessions

JS.01

Joint AHA/Progenitor Cell Biology Consortium Session

N230b
5:30 - 6:45 PM

Moderator:
Jianyi Zhang, Minneapolis, MN

5:30 Introduction
Denis Buxton, Bethesda, MD

5:35 U Penn Multipotent Cardiopulmonary Progenitor Cells and Development
Edward Morrisey, Philadelphia, PA

5:45 Houston Methodist Derivation of Vascular Cells from Progenitors
John P Cooke, Houston, TX

5:55 U Wash Translation Studies of Progenitor-Derived Cardiomyocytes
Charles E Murry, Seattle, WA

6:05 Harvard Engineered Myocardium from Progenitor Cells
Jay W Schneider, Dallas, TX

6:15 How Immature Are PSC-Derived Cardiomyocytes?
Sean M Wu, Stanford, CA

6:25 Q&A Discussion
Panel Participant
Denis Buxton, Bethesda, MD
Learning at the Movies

CASE THEATERS

Attend **45-Minute Live Presentations** of recorded cases by experts in procedures such as structural heart disease, vascular surgery, VAD + transplant, electrophysiology, TAVR, and heart failure management.

Each presentation is accompanied by panel discussion and audience response.

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<tr>
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<tr>
<td>Coronary Case</td>
<td>Adhir Shroff, Chicago, IL</td>
<td>Sunday, Nov. 16 3:00–3:45 PM</td>
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<tr>
<td>Structural Heart Disease:</td>
<td>Srihari Naidu, Mineola, NY</td>
<td>Sunday, Nov. 16 4:00–4:45 PM</td>
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<tr>
<td>Residual Problem After Mitraclip</td>
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<td>PAD/Vascular Surgery:</td>
<td>Dawn Abbott, Providence, RI</td>
<td>Monday, Nov. 17 2:00–2:45 PM</td>
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<tr>
<td>Retrograde Pedal Access Case</td>
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<tr>
<td>VAD + Transplant: VAD Clot/Dysfunction</td>
<td>Navin Kapur, Boston, MA</td>
<td>Monday, Nov. 17 3:00–3:45 PM</td>
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<tr>
<td>Electrophysiology: Complex VT Ablation</td>
<td>Elad Anter, Boston, MA</td>
<td>Tuesday, Nov. 18 10:00–10:45 AM</td>
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<tr>
<td>TAVR: Paravalvular Leak After TAVR</td>
<td>John Resar, Baltimore, MD</td>
<td>Tuesday, Nov. 18 11:00–11:45 AM</td>
</tr>
<tr>
<td>Heart Failure Management</td>
<td>Robb Kociol, Boston, MA</td>
<td>Tuesday, Nov. 18 1:00–1:45 PM</td>
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New in 2014!

**Prevention Case Theaters:**

**Application of 2013 ACC/AHA Cholesterol Guidelines**

Primary and secondary prevention cases presented and discussed by our panel experts with opportunities for audience interaction and comment.

**Moderator:** Jennifer G. Robinson, Iowa City, IA

**Panel:** Donald M. Lloyd-Jones, Chicago, IL

Neil J. Stone, Chicago, IL

Vera Bittner, Birmingham, AL

Clyde W. Yancy Jr., Chicago, IL

Monday, Nov. 17, 4:00–6:00 PM

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☐ I intend to include the American Heart Association in my will or estate plans. (TCC)
☐ I have already included the American Heart Association in my will or estate plans. (TCB)
☐ Please provide me with referral information to three estate planning professionals in my area. (TC8)

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Over 3,500 traditional posters from areas of basic, clinical, population and translational science in the Poster Hall are presented from Sunday through Wednesday. Authors are available from 9:30 – 11 AM or 3 – 4:30 PM with Poster Professors making rounds to meet authors for increased interaction and robust discussion.

Don’t Miss:

Best of AHA Specialty Conferences 2014 Poster Sessions will feature the top 10% abstracts presented at ISC, EPI/NPAM, ATVB, QCOR, BCVS, and HBPR meetings. Meet the presenters from 9:30 – 11 AM on:
- Monday, November 17, 2014
  - 9 AM – 5 PM
  - South Hall A2, Best of AHA Specialty Conferences

Basic Science Poster Session and Reception will highlight the top 30 basic science abstracts, and 20 late-breaking basic science abstracts on:
- Monday, November 17, 2014
  - 4 – 6 PM
  - South Hall A2, Best of Basic Science and Late-Breaking Basic Science

Pre-recorded audio available by scanning the QR code.

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Use your smartphone to view the poster information and listen to the author’s pre-recorded discussion about the abstract.

ePoster Viewing Stations are also available in the Poster Hall for browsing ePosters and additional abstract information. If you can’t make the author’s presentation time you can still learn about the science! (This product is also available anytime at scientificsessions.org.)
**MONDAY AT-A-GLANCE**

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<td>Management of the Resuscitated Cardiac Arrest Patient: Growing Insights into the Bundle of Care Approach</td>
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<td>New Insights into Antithrombotic and Antiplatelet Therapy for PCI and ACS</td>
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<td>PCI and TAVR at the Extreme: Frailty, Extreme Age, Cardiac Arrest and Coma</td>
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<td>Subclinical Disease: Looking Deeper, Looking Ahead</td>
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<td>e-Abstract Session: Cellular and Molecular Regulation of Cardiac Development</td>
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<td>e-Abstract Session: Novel Risk Factors for CAD I</td>
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<td>Aortic Stenosis: Mechanisms, Risk Stratification and Outcomes</td>
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<td>Atrial Fibrillation: Determinants, Treatments and Outcomes</td>
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<td>Best of Other Cardiovascular Meetings (Domestic)</td>
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<td>Catheter Ablation of Ventricular Arrhythmias</td>
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<td>Computed Tomography: Coronary Artery</td>
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<td>Do You See the Big Picture? Read Challenging Cardiovascular Imaging Case Studies with Experts</td>
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<td>Harnessing Big Data for Precision and Personalized Medicine</td>
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<td>Myocardial Stress: Physiological, Ischemic and Toxic</td>
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<td>New Technology in Coronary Interventions: Drug-Eluting Balloons and Bioresorbable Scaffolds</td>
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<td>Sol Sherry Distinguished Lecture in Thrombosis: Recent Advances in Basic and Clinical Thrombosis</td>
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<td>What Have We Learned from Large-Scale Genomics in Cardiovascular Disease and Stroke?</td>
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### Clinical Science: Special Reports

#### Management of Cardiovascular Disease

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<td>CS.03</td>
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<td>Timothy J Gardner, Newark, DE; Kim A Williams, Chicago, IL</td>
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**7:00** Impact of a Multidisciplinary Management Program on Recurrent Hospitalization and Mortality in Older Individuals With Chronic Atrial Fibrillation: A Multicentre Randomised Trial  
Simon Stewart, Melbourne, Victoria, Australia

**7:10** Discussant of Impact Of A Multidisciplinary Management Program On Recurrent Hospitalization And Mortality In Older Individuals With Chronic Atrial Fibrillation: A Multicentre Randomized Trial  
Pamela J McCabe, Rochester, MN

**7:22** Efficacy and Safety of ZS-9 in Patients with Hyperkalemia: Results from the HyperkAlemia RandoMized intervention (HARMONIZE) Clinical Trial  
Mikhail Kosiborod, Kansas City, MO

**7:32** Discussant of Efficacy and Safety of ZS-9 in Patients with Hyperkalemia: Results from the HyperkAlemia RandoMized intervention (HARMONIZE) Clinical Trial  
Bertram Pitt, Ann Arbor, MI

**7:44** Impact of Additive Use of Olmesartan in Patients With Chronic Heart Failure: The Supplemental Benefit of an Angiotensin Receptor Blocker in Hypertensive Patients With Stable Heart Failure Using Olmesartan (SUPPORT) Trial  
Yasuhiro Sakata, Sendai, Japan

**7:54** Discussant of Impact of Additive Use of Olmesartan in Patients with Chronic Heart Failure: The Supplemental Benefit of an Angiotensin Receptor Blocker in Hypertensive Patients With Stable Heart Failure Using Olmesartan (SUPPORT) Trial  
Eric J Velazquez, Durham, NC

**7:57** Panel Discussion

**8:06** Edoxaban Effects on Bleeding Following Punch Biopsy and Reversal by a 4-Factor PCC  
Hamim Zahir, Edison, NJ

**8:16** Discussant of Edoxaban Effects on Bleeding Following Punch Biopsy and Reversal by a 4-Factor PCC  
Jerrold H Levy, Durham, NC

**8:19** Panel Discussion

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#### Ask the Experts

#### Genetics in Your Cardiology Practice

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<td>Carolyn Ho, Boston, MA</td>
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**7:30** Genetics Evaluation in Your Clinic: Red Flags, Family History and When to Refer  
Santhi Ganesh, Ann Arbor, MI

**7:45** Genetic Testing in Your Clinic: Who and How?  
Steven Lubitz, Boston, MA

**8:00** Genetic Testing: Interpretation and Counseling  
Sharlene M Day, Ann Arbor, MI

**8:15** Ethical and Social Implications of Genetic Testing  
Colleen Claes, Stanford, CA

**8:30** Q&A Discussion

**8:38** ANNEXA™-A: A Phase 3 Randomized, Double-Blind, Placebo-Controlled Trial, Demonstrating Reversal of Apixaban-Induced Anticoagulation in Older Subjects by Andexanet alfa (PRT064445), a Universal Antidote for Factor Xa (fXa) Inhibitors  
Mark Crowther, Hamilton, ON, Canada

**8:38** Discussant of ANNEXA™-A: A Phase 3 Randomized, Double-Blind, Placebo-Controlled Trial, Demonstrating Reversal of Apixaban-Induced Anticoagulation in Older Subjects by Andexanet alfa (PRT064445), a Universal Antidote for Factor Xa (fXa) Inhibitors  
Linda Shore-Lesserson, New Hyde Park, NY

**8:41** Panel Discussion
### Ask the Experts

#### ATE.308.gc

**How to Access, Analyze, Interpret and Harness Human Genomics and Omics for Your Research**

**S100c**
7:30 - 8:45 AM

**Moderators:**
- Christopher Newton-Cheh, Boston, MA
- Andrew Johnson, Framingham, MA

**7:30**
**GWAS to Whole Genome Sequence**
Andrew Johnson, Framingham, MA

**7:45**
**Transcriptomics: Gene Chips, RNA Sequencing, ENCODE**
Roby Joehanes, Bethesda, MD

**8:00**
**Epigenomics: From DNA Methylation to Structural Genomics**
Myriam Fornage, Houston, TX

**8:15**
**Metabolomics in Health and Disease**
Robert Gerszten, Boston, MA

**8:30**
**Integrative Genomics for the Dissection of Human Diseases**
Nancy Cox, Chicago, IL

### Ask the Experts

#### ATE.403

**Management of Vulnerable and Recalled Defibrillator Leads**

**S401bcd**
7:30 - 8:45 AM

**Moderator:**
Bruce L Wilkoff, Cleveland, OH

**7:30**
**Imaging for Premature Insulation Failure**
Jeffrey N Rottman, Nashville, TN

**7:45**
**Extract Them Before They Fail**
Joshua M Cooper, Philadelphia, PA

**8:00**
**Let Them Fail, Then Extract**
Charles Love, New York, NY

**8:15**
**What Are the Data on Durata?**
John A Cairns, Vancouver, BC, Canada

**8:30**
**Q&A Discussion**

### Ask the Experts

#### ATE.302

**Physical Activity in Pediatric Heart Disease: Time for a Paradigm Shift**

**S102d**
7:30 - 8:45 AM

**Moderators:**
- Vicki Zeigler, Denton, TX
- Kathleen Mussatto, Milwaukee, WI

**7:30**
**What Exercise Restriction Has Done to Our Patients**
Juli-anne Evangelista, Boston, MA

**7:45**
**Exercise Testing and Capacity in CHD: What Can They Do?**
Jonathan Rhodes, Boston, MA

**8:00**
**Exercise Recommendations for Children and Adolescents with CHD**
Patricia Longmuir, Ottawa, ON, Canada

**8:15**
**Exercise Recommendations for Patients with LQTS and Other Arrhythmias**
Ravi Mandapati, Loma Linda, CA

**8:30**
**The Medicolegal Implications of Physical Activity Recommendations**
Richard A Friedman, New Hyde Park, NY
Monday, November 17 • Chicago, Illinois

**Mon AM**

**Ask the Experts**

**ATE.602**

**Strategies and Controversies in Cardiopulmonary Bypass and Short-Term Support**

N226  
7:30 - 8:45 AM  
Moderator:  
Frank Selkoe, Providence, RI  
7:30 Minimizing Transfusions  
Linda Shore-Lesserson, New Hyde Park, NY  
7:45 Prevention of Neurocognitive Dysfunction After Cardiac Surgery  
John W Hammon, Winston-Salem, NC  
8:00 Cerebral Protection for Arch Surgery  
Yoshikatsu Saiki, Sendai, Japan  
8:15 ECMO Indications and Techniques: An Update  
Jonathan Haft, Ann Arbor, MI  
8:30 Nursing Management of ECMO  
Barbara Leeper, Dallas, TX

**ATE.702**

**The Evaluation of Patients with Pulmonary Vascular Disease**

S104  
7:30 - 8:45 AM  
Moderators:  
Carl Lavie, New Orleans, LA  
John M Rich, Chicago, IL  
7:30 Imaging of the Right Ventricle—I: Two- and Three-Dimensional Echocardiography  
Marco Guazzi, Milano, Italy  
7:45 Imaging of the Right Ventricle—II: Cardiac Magnetic Resonance Imaging  
André La Gerche, Fitzroy, Australia  
8:00 Invasive Cardiopulmonary Exercise Test: When Is Too Much Data Too Much Data?  
Ronald J Oudiz, Torrance, CA  
8:15 Keeping the Eye on the Prize in PH: Optimizing Outcome Measures in Research and Practice  
Harrison W Farber, Boston, MA  
8:30 Standardizing Clinical Care in Pulmonary Arterial Hypertension: Is It Possible? Is It Necessary?  
Bradley Maron, Boston, MA

**Cardiovascular Seminar**

**CVS.104**

**Advances in Echocardiography**

N231  
7:30 - 8:45 AM  
Moderator:  
Geu-Ru Hong, Seoul, Republic of Korea  
7:30 2D/3D Echocardiography of the LV and LA  
Karima Addetia, Chicago, IL  
7:45 2D/3D Myocardial Strain Imaging  
Tomoko Ishizu, Ibaraki, Japan  
8:00 2D/3D of the RV and RA  
Hugo Moreno Velazquez, Mexico City, Mexico  
8:15 2D/3D Valve Anatomy  
Jun Kwan, Inchon, Republic of Korea  
8:30 2D/3D Flow Quantification  
Geu-Ru Hong, Seoul, Republic of Korea  
8:15 Roles of Pro- and Anti-Tobacco Marketing on Product Choice  
Diane Beistle, Atlanta, GA  
8:30 Novel Social and Media-Based Tobacco Control Approaches in a Complex Communication Environment  
Diane Beistle, Atlanta, GA

**CVS.405**

**Atrial Fibrillation Epidemic: Clinical and Research Implications at a Global Level**

S403  
7:30 - 8:45 AM  
Moderators:  
Sumeet S Chugh, Los Angeles, CA  
Bernard J Gersh, Rochester, MN  
7:30 Current Burden of Atrial Fibrillation in the Developed and Developing World  
Prashanthan Sanders, Adelaide, Australia  
7:45 Clinical and Genetic Risk Factors for Atrial Fibrillation  
Emelia Benjamin, Framingham, MA  
8:00 Novel Interventional Strategies for AF Treatment  
Hakan Oral, Ann Arbor, MI  
8:15 Prevention and Management of Nonvalvular Atrial Fibrillation  
Rajat Deo, Philadelphia, PA  
8:30 Q&A Discussion
Monday, November 17  •  Chicago, Illinois

Cardiovascular Seminar

CVS.705

**CKD-MBD: What’s the Bone Got to Do with the Heart?**

S103d
7:30 - 8:45 AM

7:30 Vitamin D for CKD-MBD: More Sunshine, Please
Georges Saab, Cleveland, OH

7:45 Bisphosphonates in CKD: To Give or Not to Give
Robert Perkins, Danville, PA

8:00 CKD-MBD: Recent Clinical Trials
Thadhani Ravi, Boston, MA

8:15 FGF23 Makes It Big: LVH
Myles Wolf, Chicago, IL

8:30 Vascular Effects of FGF23
TBD

7:45 Calcium Regulation in Diabetic Cardiomyopathy
Djamel Lebeche, New York, NY

8:00 FoxO1 and Diabetic Cardiomyopathy
Joseph A Hill, Dallas, TX

8:15 Lipotoxicity and the Diabetic Heart
Daniel P Kelly, Orlando, FL

8:30 Macrophages and Diabetic Cardiomyopathy
Sumanth Prabhu, Birmingham, AL

Cardiovascular Seminar

CVS.210

**Effective Tobacco Control: Bridging Clinical and Population Perspectives**

S504
7:30 - 8:45 AM

Moderator:
Bonnie Spring, Chicago, IL

7:30 Overview of the Tobacco Regulatory Science Program and Implications for Control of Cardiovascular Disease
Sanjay Srivastava, Louisville, KY

7:45 Epidemiology of Alternative and Emerging Tobacco Products: Understanding Trajectories and Transitions in Use
Mary Ann Pentz, Los Angeles, CA

8:00 Understanding Perceptions of Risks and Benefits and Decision-Making Processes
Isaac Lipkus, Durham, NC

Cardiovascular Seminar

CVS.305

**Coronary Artery Origin from the Wrong Sinus**

S102bc
7:30 - 8:45 AM

Moderator:
Richard Jonas, Washington, DC

7:30 Echocardiography of Coronary Artery Origin from the Wrong Sinus
Richard Lorber, San Antonio, TX

7:45 Three-Dimensional CT and MRI Imaging for Diagnosis and Planning
Richard Lorber, San Antonio, TX

8:00 Which Operation and When?
Frank L Hanley, Stanford, CA

8:15 The CHSS Registry: What Have We Learned So Far?
Marshall L Jacobs, Baltimore, MD

8:30 Are They Cured? Can They Play?
Stephen M Paridon, Philadelphia, PA

Cardiovascular Seminar

CVS.507

**Emerging Role of Cardiac Fibroblasts**

S406a
7:30 - 8:45 AM

Moderator:
Joy Lincoln, Columbus, OH

7:30 Cardiac Fibroblast GSK-3ß Regulates Remodeling in the Ischemic Heart via TGF-ß1/SMAD3 Signaling
Thomas Force, Philadelphia, PA

7:45 Cardiac Fibroblast Lineages in Development and Disease
Katherine E Yutzey, Cincinnati, OH

8:00 Epicardial Derived Fibroblasts in Fibrotic Remodeling
Michelle Tallquist, Honolulu, HI

8:15 Fibroblasts as a Therapeutic Target for Heart Failure
Jeffery D Molkentin, Cincinnati, OH

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8:30 Fibroblast-Cardiomyocyte Electrical Crosstalk: New Means to Make Scars Less Scary  
Peter Kohl, London, United Kingdom

8:15 ApoM, HDL and Signaling by S1P  
John S Parks, Winston-Salem, NC

8:30 Q&A Discussion

---

**Cardiovascular Seminar**  
**CVS.606**

**Functional Ischemic Mitral Regurgitation**

N227a  
7:30 - 8:45 AM  
Moderator:  
Maurice Enriquez Sarano, Rochester, MN

7:30 Pathophysiology of Functional Ischemic Mitral Regurgitation  
Robert A Levine, Boston, MA

7:42 Assessment of Functional Ischemic Mitral Regurgitation  
Patrizio Lancellotti, Liège, Belgium

7:54 Moderate Functional Ischemic Mitral Regurgitation: CABG Only or Mitral Repair in Addition?  
K M John Chan, Kuching, Malaysia

8:06 Severe Functional Ischemic Mitral Regurgitation: Repair or Replace?  
Michael A Acker, Philadelphia, PA

8:18 Addressing Severe Leaflet Tethering in Functional Ischemic Mitral Regurgitation  
Vincent Chan, Ottawa, ON, Canada

8:30 Q&A Discussion  
Panel Participant  
Isaac George, New York, NY

---

**Cardiovascular Seminar**  
**CVS.206**

**Hypoglycemia and Adverse Cardiovascular Events: Marker or Mediator?**

S505  
7:30 - 8:45 AM  
Moderator:  
Darren K McGuire, Dallas, TX

7:30 The Epidemiology of Hypoglycemia in Diabetes  
Simon Heller, Sheffield, United Kingdom

7:45 Mechanisms of the Cardiovascular Response to Hypoglycemia  
Philip Cryer, St Louis, MO

8:00 Is Hypoglycemia a Marker or Mediator of Increased Cardiovascular Risk in Outpatients?  
Silvio Inzucchi, New Haven, CT

8:15 Is Hypoglycemia a Marker or Mediator of Increased Cardiovascular Risk in the Hospital?  
Mikhail Kosiborod, Kansas City, MO

8:30 Glycemic Control and Risk of CVD: What Is the Right Balance Between Avoiding Hyper- and Hypoglycemia?  
Hertzel Gerstein, Hamilton, ON, Canada

---

**Cardiovascular Seminar**  
**CVS.103**

**Imaging Heart Failure Substrates for Prognosis**

N230b  
7:30 - 8:45 AM  
Moderator:  
Luc Pierard, Liege, Belgium

7:30 Scar/Fibrosis/ECV  
Erik B Schelbert, Pittsburgh, PA

7:45 Myocardial Strain  
Goo-Yeong Cho, Seongnam, Republic of Korea

8:00 Mitral Regurgitation  
Jong-Min Song, Seoul, Republic of Korea

8:15 Myocardial Dyssynchrony/Discoordination  
Cheuk-Man Yu, Hong Kong, Hong Kong

8:30 Q&A Discussion
Monday, November 17  •  Chicago, Illinois

**Cardiovascular Seminar**

**CVS.102**

**Imaging Pulmonary Hypertension**

**N230a**
7:30 - 8:45 AM

Moderator:
Javier Sanz, New York, NY

7:30
**Accuracy of Echocardiography for Pulmonary Hypertension**
Eduardo Bossone, Salerno, Italy

7:45
**CT Evaluation of Vasculature in Pulmonary Hypertension**
Karen Ordovas, San Francisco, CA

8:00
**MRI Evaluation of the Lung and Vessels in Pulmonary Hypertension**
Gregory Kicska, Seattle, WA

8:15
**MRI Assessment of Right-Heart Pressure**
Gregory Kicska, Seattle, WA

8:30 Q&A Discussion

**Cardiovascular Seminar**

**CVS.209**

**Improving MI Response from Onset Through Discharge**

**S502**
7:30 - 8:45 AM

Moderator:
Susan A Barnason, Lincoln, NE

7:30
**Teaching Patients MI Symptom Recognition: Best Practices from Current Research**
Julie J Zerwic, Chicago, IL

7:45
**Factors Influencing Patient Decision Making During Symptoms of MI**
Leanne L Lefler, Little Rock, AR

8:00
**Minutes Mean Muscle: Reducing Total Ischemic Time**
Michelle Fennessy, Columbus, OH

8:30 Q&A Discussion

**Cardiovascular Seminar**

**CVS.404**

**Mechanism-Based, Personalized Concepts in Therapy for Atrial Fibrillation**

**S402**
7:30 - 8:45 AM

Moderator:
Stefan Kaab, Munich, Germany

7:30
**Dysfunctional Calcium Handling in Atrial Fibrillation**
Niels Voigt, Essen, Germany

7:45 MicroRNAs and Their Role in Antiarrhythmic Therapy
Reza Wakili, Munich, Germany

8:00 Personalizing AF Using Common Genetic Variants
Patrick T Ellinor, Boston, MA

8:15 Personalizing AF Using Rare Genetic Variants
Nicole Schmitt, Copenhagen N, Denmark

8:30 Q&A Discussion

**Cardiovascular Seminar**

**CVS.510**

**Mineralocorticoid Receptor Antagonists in Heart Failure: Are They for Everyone?**

**S405**
7:30 - 8:45 AM

Moderator:
Sheryl L Chow, Pomona, CA

7:30
**Are All MRAs Created Equal? Pharmacological and Pharmacokinetic Differences**
Tien Ng, Los Angeles, CA

7:45 Optimizing MRA Therapy in Patients with Heart Failure with Reduced Ejection Fraction
Adrian Hernandez, Durham, NC

8:00 Evidence for Use of MRAs in Patients with Heart Failure with Preserved Ejection Fraction
Marc Pfeffer, Boston, MA

8:15 Differences in Response to MRAs in Special Populations
Faiez Zannad, Vandoeuvre Les Nancy, France

8:30 Hyperkalemia with MRAs: Is It Predictable, Preventable and Clinically Relevant?
Frederick A Masoudi, Aurora, CO

**Cardiovascular Seminar**

**CVS.708**

**New Insights into Open Artery Problems**

**S103a**
7:30 - 8:45 AM

Moderators:
Noel C Bairey-Merz, Los Angeles, CA
Carl J Pepine, Gainesville, FL

7:30 Predictors of Adverse Outcomes Among Patients with Stable Angina and No Obstructive Coronary Artery Disease
Karim Humphries, Vancouver, BC, Canada

7:45 Atherosclerosis Matters: Relationship of CCTA Findings to Outcomes in Stable Patients Without Obstructive CAD
Fay Y Lin, New York City, NY
8:00 The Role of Microvascular Coronary Disease in ACS Without Obstructive CAD
Bina Ahmed, Albuquerque, NM

8:15 Plaque Disruption in ACS Without Obstructive CAD at Angiography
Harmony R Reynolds, New York, NY

8:30 Cardiac MR and Identification of Mechanisms in ACS Without Obstructive CAD
Raymond Kwong, Boston, MA

Endothelial Inflammasome Activation in Vascular Injury and Atherogenesis: Beyond inflammation
Pin-Ian Li, Richmond, VA

Colony Stimulating Factor in Vascular Disease
Nicholas Sibinga, Bronx, NY

Cardiovascular Seminar

CVS.306 Noncoding RNAs and Cardiovascular Disease

S102a 7:30 - 8:45 AM
Moderators:
Maciej Tomaszewski, Leicester, United Kingdom
Ruth McPherson, Ottawa, ON, Canada

7:30 Noncoding RNAs and Coronary Artery Disease: Insights from Next-Generation RNA Sequencing
Scot Matkovich, St Louis, MO

7:49 Circulating MicroRNAs, Renin and Blood Pressure Regulation
Maciej Tomaszewski, Leicester, United Kingdom

8:08 Physical Exercise: Putting Action into Our Noncoding Transcriptome
Fadi J Charchar, Ballarat, Australia

8:27 Targeting Noncoding RNAs in Therapy of Cardiovascular Disease
Stefanie Dimmel, Frankfurt, Germany

Cardiovascular Seminar

CVS.707 Novel Mechanisms of Inflammatory Regulation of Cardiovascular Disease

S105abc 7:30 - 8:45 AM
Moderator:
Hua Linda Cai, Los Angeles, CA

7:30 Novel Roles of Myeloid Antigen Presenting Cells in Hypertension
David G Harrison, Nashville, TN

7:45 Inflammatory MicroRNA in Atherosclerosis and Obesity
Xiao-Feng Yang, Philadelphia, PA

8:00 Novel Endothelial Signaling Pathways that Regulate Transendothelial Migration of Leukocytes
William A Muller, Chicago, IL

Cardiovascular Seminar

CVS.508 Novel Signaling Mechanisms and Targeting for Heart Failure

S406b 7:30 - 8:45 AM
Moderator:
Walter Koch, Philadelphia, PA

7:30 Novel GRK Signaling Mechanisms in the Heart
Walter J Koch, Philadelphia, PA

7:45 Biased GPCR Agonists as New Therapeutics for Heart Failure
Howard Rockman, Durham, NC

8:00 Small Molecule Targeting of G-Proteins in the Heart and Adrenal Glands
Burns Blaxall, Cincinnati, OH

8:15 Signaling Networks in Heart Failure
Yibin Wang, Los Angeles, CA

8:30 Modulation of Cell Death
Richard N Kitsis, Bronx, NY

Cardiovascular Seminar

CVS.506 Old Versus New: Heart Failure Therapy

S404bcd 7:30 - 8:45 AM
Moderator:
Michael Kiernan, Boston, MA

7:30 Targeting Heart Rate
Karl Swedberg, Gothenburg, Sweden

7:45 Moving Beyond the Loop: Diuretics
Michael Felker, Durham, NC

8:00 Moving on to a New Cocktail: Inotropes and Vasodilators
Adriaan Voors, Groningen, Netherlands

8:15 Rise of the Machines: New Device Therapy for Heart Failure
Susan Joseph, St Louis, MO

8:30 Q&A Discussion
Monday, November 17 • Chicago, Illinois

**Cardiovascular Seminar**

**CVS.605**

**Renal Artery Intervention: Quo Vadis?**

**N228**
7:30 - 8:45 AM

**Moderators:**
Sanjay Misra, Rochester, MN
Jeffrey W Olin, New York, NY

7:30 **CORAL Explained: Who Benefits from Renal Artery Stenting?**
Christopher Cooper, Toledo, OH

7:42 **Who Did CORAL Miss?**
Michael Jaff, Boston, MA

7:54 **Renal FMD**
Heather Gornik, Cleveland, OH

8:06 **Renal Denervation: On Target for Clinically Meaningful Outcomes?**
Vivek Reddy, New York, NY

8:18 **Renal Salvage: Patient Selection, Treatment Strategy and Outcomes**
Sanjay Misra, Rochester, MN

8:30 **Q&A Discussion**

**Panel Participants**
Alan H Matsumoto, Charlottesville, VA
Robert A Lookstein, New York, NY

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**Cardiovascular Seminar**

**CVS.604**

**The Best Interventional Cardiology Trials of 2014**

**N227b**
7:30 - 8:45 AM

**Moderators:**
Laura Mauri, Boston, MA
Patrick W Serruys, Rotterdam, Netherlands

7:30 **The Best Coronary Trials of the Past Year**
David Cohen, Kansas City, MO

7:50 **The Best PAD Trials of the Past Year**
Douglas Drachman, Boston, MA

8:10 **The Best Structural Heart Disease Trials of the Past Year**
Horst Sievert, Frankfurt, Germany

8:30 **Q&A Discussion**

**Panel Participants**
Thomas Zeller, Bad Krozingen, Germany
Antonio Colombo, Milano, Italy

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**Cardiovascular Seminar**

**CVS.207**

**When Vascular Disease Gets to Your Head: Vascular Contributions to Neurological and Neurodegenerative Disorders**

**S501**
7:30 - 8:45 AM

**Moderators:**
Zorina S Galis, Bethesda, MD
Berislav V Zlokovic, Los Angeles, CA

7:30 **Angiotensin-Converting Enzyme and Cognitive Decline in Alzheimer’s Disease**
Kenneth Bernstein, Los Angeles, CA

7:45 **Genetic Determinants of Collateral Status and Stroke**
James E Faber, Chapel Hill, NC

8:00 **Arterial Stiffness and Endothelial Function in Small Vessels in Relation to Brain Aging in the Community**
Gary F Mitchell, Norwood, MA

8:15 **Development of Biomarkers for Vascular Contributions to Neurological and Neurodegenerative Disorders**
Berislav V Zlokovic, Los Angeles, CA

8:30 **Small Blood Vessels of the Brain in Health and Disease**
Cheryl Wellington, Vancouver, BC, Canada
**MONDAY AM**

### e-Abstract Session

**EAS.102.04**

**Echocardiography: Clinical Applications of Contrast Echocardiography**

_South Hall A2 - Core 1 Theater_  
9:00 - 9:50 AM

**Moderator:**  
Geu-Ru Hong, Seoul, Republic of Korea

- **9:00**
  Diagnostic Ultrasound Induced Inertial Cavitation of Microbubbles Improves Microvascular Re-Flow Following Thrombotic Microembolization to a Greater Degree than Stable Cavitation  
  Feng Xie, Univ of Nebraska Medical Ctr, Omaha, NE  
  Thomas R Porter, Univ of Nebraska Medical Ctr, Omaha, NE

- **9:05**
  Quantitative Characteristics of Left Ventricular Vortex Flow in the Short and Long Axis Views by High Frame Rate Echocardiographic Particle Image Velocimetry  
  Haruhiko Abe, Osaka Nati Hosp, Osaka, Japan  
  Satoshi Nakatani, Osaka Univ Graduate Sch ofMed, Suita, Japan

- **9:10**
  Vector Flow Mapping is a Novel Useful Technique in Assessing Inertia Force of Late Systolic Aortic Flow and Left Ventricular Early Diastolic Function  
  Kazuaki Wakami, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan  
  Nobuyuki Ohte, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan

- **9:15**
  Are Noninvasive Methods for Pasp Measurement Accurate When Compared to Invasive Pasp Measurements?  
  Nishath Quader, Northwestern Univ, Chicago, IL  
  Kameswari Maganti, Northwestern Univ, Chicago, IL

- **9:20**
  The Diamond-Forrester Criterion Significantly Overestimates the Risk of Obstructive Coronary Artery Disease in Patients Presenting to the Emergency Department With Low-Risk Chest Pain  
  Todd Lecher, Penn State Hershey Medical Ctr, Hershey, PA  
  Andrew Foy, Penn State Hershey Medical Ctr, Hershey, PA

- **9:25**
  3D Contrast-enhanced Ultrasound (CEUS) Imaging of Carotid Artery Plaques and Intra-plaque Angiogenesis  
  Venu Gourineni, Rush Univ Medical Ctr, Chicago, IL  
  Steven Feinstein, Rush Univ Medical Ctr, Chicago, IL

- **9:30**
  Volumetric Echocardiographic Particle Image Velocimetry (V-Echo-PIV)  
  Arash Kheradvar, Univ of California Irvine, Irvine, CA

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### Plenary

**PS.10**

**Living with Heart Failure: Patient, Physician, Surgeon and Nurse Perspectives**

_North Hall B_  
9:00 - 10:00 AM

**Moderators:**  
Clyde W Yancy Jr., Chicago, IL  
Mariell Jessup, Philadelphia, PA

- **9:00**
  The LVAD and Daily Life: The Patient Experience  
  Vice President Dick Cheney, Washington, DC

- **9:15**
  Panel Discussion  
  **Panel Participants:**  
  Vice President Dick Cheney, Washington, DC  
  Jonathan Reiner, Washington, DC  
  Alan Speir, Annandale, VA  
  Kathleen L Grady, Chicago, IL

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### Abstract Oral Session

**AOS.305.03N**

**Alexander S. Nadas Memorial Lecture and CVDY Research Award Presentations**

_S102d_  
9:00 - 10:15 AM

**Moderator:**  
Meryl S Cohen, Philadelphia, PA

- **9:00**
  Dual-Targeted Microbubbles Improve the Detection of Previously Ischemic Myocardium by Echocardiography  
  Brent A French, Univ of Virginia, Charlottesville, VA

- **9:40**
  Pro-angiogenic Dual Gene Therapy in Chronic Diabetic Hindlimb Ischemia with Ultrasound Mediated Delivery of miR-126 and VEGF Plasmid DNA  
  Wei J Cao, St Michael’s Hosp, Toronto, ON, Canada  
  Howard Leong-Poi, St Michael’s Hosp, Toronto, ON, Canada

- **9:45**
  Efficient and Persistent Transgene Expression by Minicircle Plasmid versus Standard Plasmid Using Ultrasound Targeted Microbubble Destruction  
  Dmitry Rudenko, St Michael’s Hosp, Toronto, ON, Canada  
  Howard Leong-Poi, St Michael’s Hosp, Toronto, ON, Canada

---

**Alexander S. Nadas Memorial Lecture: The Genetics of Congenital Heart Disease—Past and Present, Tension Between Simple and Complex**  
Bruce D Gelb, New York, NY

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Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
### Monday AM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30</td>
<td>Does Fetal Aortic Valvuloplasty alter the Natural History of Aortic Stenosis?</td>
<td>Helena Gardiner, Univ of Texas at Houston, Houston, TX</td>
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<tr>
<td>9:40</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>9:55</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>10:00</td>
<td>Intracoronary Delivery of Autologous Cardiac Progenitor Cells in Children With Hypoplastic Left Heart Syndrome: The Ticap Trial With 18-Month Follow Up</td>
<td>Shuta Ishigami, Okayama university hospital, Okayama, Japan, Hidemasa Oh, Okayama university hospital, Okayama, Japan</td>
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<tr>
<td>10:10</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>10:00</td>
<td>Can the Functional Benefits of Cardiac Progenitor Cells Be Equaled by Their Secreted Extracellular Vesicles?</td>
<td>Philippe Menasché, Dept of Cardiovascular Surgery &amp; INSERM U 970, Hôpital Européen Georges Pompidou, Univ Sorbonne Paris Cité, Paris, France</td>
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<tr>
<td>10:10</td>
<td>Q&amp;A Discussion</td>
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<td>10:00</td>
<td>Human CD34+ Stem Cell-Derived Exosomes Mediate the Paracrine miRNA-Crosstalk with Cardiomyocytes and Endothelial Cells Promoting Repair of the Ischemic Heart</td>
<td>Susmita Sahoo, Northwestern Univ, Chicago, IL</td>
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<tr>
<td>10:10</td>
<td>Q&amp;A Discussion</td>
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### Abstract Oral Session

**Cardiac Regeneration/Cellular Therapy: Experimental**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>9:00</td>
<td>Revealing the Full Potential of Stem Cells: Tissue Engineering in Cardiac Disease</td>
<td>AOS.406.01</td>
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<td>9:10</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>9:15</td>
<td>Enhancing Myocardial Repair with CardioChimeras</td>
<td>Eric Buch, UCLA, Los Angeles, CA</td>
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<tr>
<td>9:25</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>9:30</td>
<td>Embryonic Stem Cell Derived Exosomes Revive Endogenous Repair Mechanisms in Failing Hearts</td>
<td>Luigi Di Biase, Albert Einstein Coll of Med at Montefiore Hosp And Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr, New York and Austin, TX</td>
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<td>9:40</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>9:45</td>
<td>Arrhythmogenic Effects of Cardiac Mesenchymal Stem Cell Implantation: Results From the POSEIDON and TAC-HFT Trials</td>
<td>Andrea Natale, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr, Austin, TX</td>
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<td>9:55</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>10:00</td>
<td>Non PV Triggers Ablation Improves the Success Rate of Catheter Ablation of Persistent Atrial Fibrillation After a Single Procedure: Results From a Prospective Multicenter Study</td>
<td>Andrea Natale, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr, Austin, TX</td>
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<td>10:10</td>
<td>Q&amp;A Discussion</td>
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### Catheter Ablation of Atrial Fibrillation

**S401bcd 9:00 - 10:15 AM**

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<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:00</td>
<td>Racial and Insurance Disparities in Atrial Fibrillation Ablation</td>
<td>Nileshkumar J Patel, Staten Island Univ Hosp, Staten Island, NY Raul D Mitrani, Univ Of Miami - Miller Sch Of Med/ Jackson Memorial Hosp, Miami, FL</td>
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<tr>
<td>9:10</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>9:15</td>
<td>Clinical Outcomes of Focal Impulse and Rotor Modulation for Treatment of Atrial Fibrillation: Single-Center Experience</td>
<td>Michael Share, UCLA, Los Angeles, CA Eric Buch, UCLA, Los Angeles, CA</td>
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<tr>
<td>9:25</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>9:30</td>
<td>The Impact of Left Atrial Ablation Procedure and Strategy on Microemboli Formation During Irrigated RF Catheter Ablation in an in vivo Model</td>
<td>Mitsuru Takami, Mayo Clinic, Rochester, MN Douglas L Packer, Mayo Clinic, Rochester, MN</td>
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<tr>
<td>9:45</td>
<td>Q&amp;A Discussion</td>
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<tr>
<td>9:55</td>
<td>Non PV Triggers Ablation Improves the Success Rate of Catheter Ablation of Persistent Atrial Fibrillation After a Single Procedure: Results From a Prospective Multicenter Study</td>
<td>Luigi Di Biase, Albert Einstein Coll of Med at Montefiore Hosp And Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr, New York and Austin, TX Andrea Natale, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr, Austin, TX</td>
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</tbody>
</table>
10:00  Benefits of Prophylactic Pulmonary Vein Isolation in Reducing Future Risk of Atrial Fibrillation in Patients Undergoing Catheter Ablation for Typical Atrial Flutter: Results From a Randomized Trial (REDUCE AF)  
Sanghamitra Mohanty, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX, Austin, TX  
Sanjay Dixit, Hosp of the Univ of Pennsylvania, Pennsylvania, PA

10:10  Q&A Discussion

### Abstract Oral Session

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
<th>Moderators</th>
</tr>
</thead>
</table>
| AOS.720.01 | Hypertension: Clinical | 9:00 - 10:15 AM | Britta Larsen, La Jolla, CA  
Joseph Yeboah, Winston Salem, NC |
| | S103a | 9:00 - 10:15 AM | Vasilios Papademetriou, Washington, DC  
Kazuomi Kario, Tochigi-ken, Japan |
Franz Messerli, Mount Sinai St Luke’s Hosp, New York, NY |
| | Q&A Discussion | 9:10 |  
9:15 |
| | Age-Specific Differences Between Conventional and Ambulatory Daytime Blood Pressure Values | 9:25 | David Conen, Univ Hosp of Basel, Basel, Switzerland  
Jan A Staessen, Univ of Leuven, Leuven, Belgium |
| | Q&A Discussion | 9:30 |  
9:45 |
| | Nondipping Pulse Rate was Associated with a High Level of Brain Natriuretic Peptide in Treated Hypertensive Patients | 9:45 | Yusuke Oba, Jichi Medical Univ Sch of Med, Tochigi, Japan  
Kazuomi Kario, Jichi Medical Univ Sch of Med, Tochigi, Japan |
| | Q&A Discussion | 9:50 |  
9:55 |
| | Impact of Renal Dysfunction on Changes of Plaque Characteristics in Non-Intervened Coronary Segments in Statin-Treated Patients With Angina Pectoris and Hypertension | 9:55 | Young Joon Hong, Chonnam Natl Univ Hosp., Gwangju, Republic of Korea  
Jong Chun Park, Chonnam Natl Univ Hosp., Gwangju, Republic of Korea |
| | Q&A Discussion | 10:00 |  
10:10 |
| | Future Risk of Cardiovascular Disease in Adults with Prolonged Exposure to High Blood Pressure | 9:25 | Ann M Navar-Boggan, Duke Univ Medical Ctr, Durham, NC  
Michael J Pencina, Duke Univ Medical Ctr, Durham, NC |
| | Q&A Discussion | 9:30 |  
9:45 |

**Monday, November 17 • Chicago, Illinois**
Abstract Oral Session

AOS.102.01S

Prognostic Value of Myocardial Strain Imaging

N231
9:00 - 10:15 AM

Moderators:
Susan Cheng, Boston, MA
Tom Marwick, Hobart, Australia

9:00 Current and Evolving Applications of Myocardial Strain Imaging: An Update
Thor Edvardsen, Oslo, Norway

9:30 Compensatory Increase of Left Atrial External Work to Left Ventricular Dysfunction During Afterload Increase: Insights Into the Mechanism of Decompensation in Heart Failure With Preserved Ejection Fraction
Katsujii Inoue, Ehime Univ Graduate Sch of Med, Ehime, Japan
Satoshi Nakatani, Osaka Univ Graduate Sch of Med, Osaka, Japan

9:40 Q&A Discussion

9:45 Global Longitudinal Strain is a Superior Predictor of All-cause Mortality Compared to Left Ventricular Ejection Fraction in Male Patients with Heart Failure and Without Atrial Fibrillation
Morten Sengeløv, Gentofte Hosp, Univ of Copenhagen, Copenhagen, Denmark
Jan Skov Jensen, Gentofte Hosp, Univ of Copenhagen, Copenhagen, Denmark

9:55 Q&A Discussion

10:00 Clinical Correlates and Heritability of Cardiac Mechanics: Insights from the HyperGEN Study
Saditya S Khan, Northwestern Univ, Chicago, IL
Sanjiv J Shah, Northwestern Univ, Chicago, IL

10:10 Q&A Discussion

Abstract Oral Session

AOS.608.01

Surgical Revascularization for Ischemic Heart Disease I

N227b
9:00 - 10:15 AM

Moderators:
Marc Ruel, Ottawa, ON, Canada
Yoshikatsu Saiki, Sendai, Japan

9:00 Residual SYNTAX Score and Survival Following Coronary Artery Bypass Grafting: Analysis of 1608 Patients
Giovanni Melina, Ospedale Sant’Andrea, Rome, Italy
Riccardo Sinatra, Ospedale Sant’Andrea, Rome, Italy

9:10 Q&A Discussion

9:15 Optimal Coronary Revascularization in Patients With Unstable Angina or Non-ST-Elevation Myocardial Infarction: 5-Year Outcomes of the CREDO-Kyoto PCI/CABG Registry Cohort-2
Akira Marui, Kyoto Univ Graduate Sch of Med, Kyoto, Japan
The CREDO-Kyoto PCI/CABG Registry Cohort-2 Investigators

9:25 Q&A Discussion
MONDAY AM

9:30  Prompt Revascularizations vs. Intensive Medical Therapy for Chronic Total Occlusions of Coronary Arteries: Results from BARI-2D Trial
   Abdulla Damluji, Univ of Miami Miller Sch of Med, Miami, FL
   Mauricio G Cohen, Univ of Miami Miller Sch of Med, Miami, FL

9:40  Q&A Discussion

9:45  Right Ventricular Systolic Dysfunction Assessed by Cardiac Magnetic Resonance is a Strong Predictor of Cardiovascular Death After Coronary Bypass Surgery
   Anne-Catherine M Pouleur, Univ of Louvain, Brussels, Belgium
   Bernhard L Gerber, Univ of Louvain, Brussels, Belgium

9:55  Q&A Discussion

Abstract Oral Session

AOS.204.01  Tests of Interventions to Improve Cardiovascular Health

S502  9:00 - 10:15 AM

Moderator:
Eileen Stuart Shor, Boston, MA

9:00  Mobile Phone Text Messaging Improves Antihypertensive Drug Adherence in the Community
   Paola Varleta, Fundación Salud y Corazón, Chilean Society of Cardiology, Santiago, Chile
   Pedro Cofré, CESFAM Aníbal Arístegui, Las Condes, Santiago, Chile

9:10  Q&A Discussion

9:15  Aerobic Exercise After an ICD Reduces Depression Severity and Improves Self-Efficacy to Exercise
   Cynthia M Dougherty, Univ Washington Sch of Nursing, Seattle, WA
   Peter J Kudenchuk, Univ Washington Sch of Med, Seattle, WA

9:25  Q&A Discussion

9:30  Impact of a Hybrid Nurse-Led Home and Clinic-based Intervention on Hospitalization and Related Hospital Stay: Results From a Pragmatic, Randomized Trial (the NIL-CHF Study)
   Simon Stewart, Baker Heart Res Inst, Melbourne, Victoria, Australia
   NIL-CHF Investigators

9:40  Q&A Discussion

9:45  Effects of a Heart Failure Family Caregiver Intervention on Caregiver Strain and Outcomes
   Sandra B Dunbar, Emory Univ, Atlanta, GA
   Javed Butler, Emory Univ, Atlanta, GA

9:55  Q&A Discussion

10:00 Beyond Depression: Benefits of Cognitive Behavioral Therapy in Cardiac Surgery Patients
   Lynn Doering, UCLA Sch of Nursing, Los Angeles, CA
   Michael Irwin, David Geffen Sch of Med at UCLA, Los Angeles, CA

10:10 Q&A Discussion

Abstract Oral Session

AOS.502.01N  William W. L. Glenn Lecture: Cell and Tissue Engineering Strategies for Heart Failure

S406a  9:00 - 10:15 AM

Moderators:
Yoshiki Sawa, Osaka, Japan
Pavan Atluri, Philadelphia, PA

9:00  William W. L. Glenn Lecture: Stem Cells for the Treatment of Heart Failure—What Is Still Missing for a Prime Time Use?
   Philippe Menasche, Paris, France

9:30  Dose-Dependent Reversal of Adverse Remodeling in High-Risk Ischemic Cardiomyopathy Patients Receiving Stromal Cell-derived Factor 1 Plasmid DNA in a Randomized Blinded Phase II Trial (STOP-HF)
   Leslie Miller, Pepin Heart Inst, Tampa, FL
   Marc S Penn, North East Ohio Cardiovascular Specialists / SUMMA Health System, Rootstown, OH

9:40  Q&A Discussion

9:45  Sustained Clinical Benefit in Patients With Chronic Post-Infarction Heart Failure Treated With Shockwave-Facilitated Intracoronary Administration of Bone Marrow-Derived Cells: Long-Term Follow-Up of the Randomized, Placebo-Controlled Cellwave Trial
   Birgit Assmus, J W Goethe Univ, Frankfurt, Germany
   Andreas M Zeiher, J W Goethe Univ, Frankfurt, Germany

9:55  Q&A Discussion

10:00 Direct Comparison of Disease-Specific versus TALEN-Corrected iPSC-Derived Cardiomyocytes from Dilated Cardiomyopathy Patients
   Antje Ebert, Stanford Univ Sch of Med, Stanford, CA
   Joseph C Wu, Stanford Univ Sch of Med, Stanford, CA

10:10 Q&A Discussion
Cardiovascular Seminar

**The PCORI Vision for New Big Data Networks**

*CVS.229.gc*

**MONDAY AM**

**9:00**

**S100c**

**9:00 - 10:15 AM**

**Moderators:**

Veronique L Roger, Rochester, MN
Frederick A Masoudi, Aurora, CO

**9:00**

**Leveraging Big Data for Patient-Centered Outcomes Research: The PCORnet Vision**
Sarah Greene, Washington, DC

**9:15**

**The Building Blocks of the PCORnet National Clinical Research Network**
Robert M Califf, Durham, NC

**9:30**

**The Chicago Area Patient-Centered Outcomes Research Network (CAPriCORN)**
Frances Weaver, Maywood, IL

**9:45**

**The Mid-South Clinical Data Research Network**
Thomas Wang, Nashville, TN

**10:00**

**Engaging Patients in Big Data Networks**
Mark J Fletcher, San Francisco, CA

---

**Joint Sessions**

**JS.02**

**Joint AHA/Heart Rhythm Society Session: What’s New in Atrial Fibrillation Management**

*JS.27*

**N230b**

**9:00 - 10:15 AM**

**Moderators:**

L Kristin Newby, Durham, NC
Eric Williams, Indianapolis, IN

**9:00**

**The Changing Demographics of the Cardiac Intensive Care Unit: Who Are the Patients Who Require Cardiac Intensive Care in 2014?**
James de Lemos, Dallas, TX

**9:15**

**Do We Need Additional Subspecialty Training in Critical Care Cardiology?**
David Morrow, Boston, MA

**9:30**

**Critical Care Management of the Advanced Heart Failure Patient**
Navin Kapur, Boston, MA

**9:45**

**Best Practices in Hypothermia: A Model for Interdisciplinary Team-Based Care**
Benjamin Scirica, Boston, MA

**10:00**

**Panel Discussion**

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**Joint Sessions**

**JS.23**

**Joint AHA/Cardiology Society of India Session: Quality Improvement and Outcomes Research**

*JS.23*

**S505**

**9:00 - 10:15 AM**

**Moderators:**

Adrian Hernandez, Durham, NC
Dorairaj Prabhakaran, New Delhi, India

**9:00**

**Innovations to Address Disparities in Cardiovascular Health Care in India**
Dorairaj Prabhakaran, New Delhi, India

**9:15**

**Quality Improvement in India: Kerala ACS Quik**
Venugopal K, Cochin, India

**9:30**

**Developing a Joint Collaborative Research Program for Quality Improvement After ACS**
Mark Huffman, Chicago, IL

**9:45**

**The QCOR Initiative: How Has It Changed CVD Outcomes in US?**
Eric D Peterson, Durham, NC
## Joint Sessions

### JS.24

**Joint AHA/Chinese Society of Cardiology Session: Hypertension Management in China—the Gap Between Guideline and Practice**

**N203bc**

9:00 - 10:15 AM

**Moderators:**
Ralph L Sacco, Miami, FL
Yong Huo, Beijing, China

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<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Location</th>
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<tr>
<td>9:00</td>
<td>Status of the Prevention and Control of Hypertension in China</td>
<td>Dong Zhao, Beijing, China</td>
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<tr>
<td>9:15</td>
<td>Study of Primary Prevention of Stroke in China</td>
<td>Yong Huo, Beijing, China</td>
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<tr>
<td>9:45</td>
<td>Blood Pressure Goals: Should We Recommend Blood Pressure Goals According to Age and Comorbidities Other Than a Common Goal?</td>
<td>Domenic Sica, Richmond, VA</td>
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### JS.07

**Joint AHA/European Society of Cardiology Session—Mitral Valve Regurgitation—an Intercontinental Update**

**N228**

9:00 - 10:15 AM

**Moderators:**
Fausto Pinto, Lisboa, Portugal
Frank W Sellke, Providence, RI

<table>
<thead>
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<th>Time</th>
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</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Imaging to Assess the Mitral Valve in 2014</td>
<td>Patrizio Lancellotti, Liege, Belgium</td>
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<tr>
<td>9:15</td>
<td>Interventional Therapy of Mitral Regurgitation</td>
<td>Stephan Baldus, Cologne, Germany</td>
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<tr>
<td>9:30</td>
<td>Surgical Repair Versus Replacement for Mitral Regurgitation</td>
<td>Michael A Acker, Philadelphia, PA</td>
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<tr>
<td>9:45</td>
<td>Should We Be Treating Moderate MR Earlier?</td>
<td>David H Adams, New York, NY</td>
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<tr>
<td>10:00</td>
<td>Postinterventional (Surgery and Catheter-Based) Assessment of the Mitral Valve</td>
<td>Vivek Rajagopal, Atlanta, GA</td>
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### JS.11

**Joint AHA/Egyptian Society of Cardiology (Egyptian Working Group of Interventional Cardiology): Challenging Interventional Cases**

**N226**

9:00 - 10:15 AM

**Moderators:**
Mohamed Abdel Ghany, Cairo, Egypt
Roger J Laham, Boston, MA
Sameh Emil, Cairo, Egypt

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Case Presentation: Primary PCI with Multivessel Disease: Is Culprit Plus Better?</td>
<td>Sameh Shaheen, Cairo, Egypt</td>
<td></td>
</tr>
<tr>
<td>9:15</td>
<td>Case Presentation: Distal Left Main Intervention with Challenges</td>
<td>Ahmed Magdy, Cairo, Egypt</td>
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<tr>
<td>9:30</td>
<td>Case Presentation: Massive Thrombus in STEMI</td>
<td>J Dawn Abbott, Providence, RI</td>
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<tr>
<td>9:45</td>
<td>Case Presentation: A Peripheral CTO Case Using Advanced Techniques</td>
<td>Douglas Drachman, Boston, MA</td>
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</tbody>
</table>

### JS.10

**Joint AHA/European Society of Cardiology Session: Sudden Death and Cardiomyopathies—Nature and Nurture in Europe and the United States**

**S405**

9:00 - 10:15 AM

**Moderators:**
Paulus Kirchhof, Birmingham, United Kingdom
Bernard Gersh, Rochester, MN

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Risk for Sudden Death and Prevention in Hypertrophic Cardiomyopathy</td>
<td>Barry Maron, Minneapolis, MN</td>
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<tr>
<td>9:30</td>
<td>Nature and Nurture in ARVC: A Clinical Perspective</td>
<td>Cynthia James, Baltimore, MD</td>
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<tr>
<td>9:45</td>
<td>Exercise and Genetic Defects in ARVC: A Key to Clinical Manifestation</td>
<td>Larissa Fabritz, Birmingham, United Kingdom</td>
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<tr>
<td>10:00</td>
<td>Q&amp;A Discussion</td>
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## Joint Sessions

### JS.21

**Joint AHA/Great Wall—International Congress of Cardiology Session: Pulmonary Hypertension Bridge China and America—from Gene to Population**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>S406b</td>
<td>9:00 - 10:15 AM</td>
<td>Pulmonary Arterial Hypertension Registry in Modern China: A Comparison with Western Data</td>
</tr>
<tr>
<td>9:15</td>
<td>Pulmonary Arterial Hypertension Registry in the United States: A Historical Overview</td>
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<tr>
<td>9:30</td>
<td>Advances in Genetic Research on Pulmonary Hypertension in China: We Are on the Way</td>
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<tr>
<td>9:45</td>
<td>Epigenetics in Pulmonary Arterial Hypertension</td>
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</tbody>
</table>

### JS.04

**Joint AHA/International Society of Vascular Health: Does Arterial Stiffness Matter in Atherosclerotic Disease and Heart Failure?**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
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<tbody>
<tr>
<td>S103d</td>
<td>9:00 - 10:15 AM</td>
<td>Arterial Stiffness and Coronary Artery Disease</td>
</tr>
<tr>
<td>9:15</td>
<td>Ventricular-Arterial Coupling, Remodeling and Prognosis in Chronic Heart Failure</td>
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<tr>
<td>9:30</td>
<td>Arterial Stiffness and/or ABI in Peripheral Arterial Disease</td>
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<tr>
<td>9:45</td>
<td>Arterial Stiffness and Dementia</td>
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<tr>
<td>10:00</td>
<td>Stroke and Arterial Stiffness</td>
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</table>

### JS.03

**Joint AHA/Mexican Society of Cardiology Session: New Challenges in Complex Cardiovascular Intervention**

<table>
<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>N227a</td>
<td>9:00 - 10:15 AM</td>
<td>Optimal Treatment Strategies for STEMI and Anticipated Delay to PCI</td>
</tr>
<tr>
<td>9:10</td>
<td>How to Manage Coronary Perforation</td>
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<tr>
<td>9:20</td>
<td>Selecting the Patient for Percutaneous Mitral Repair</td>
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<tr>
<td>9:30</td>
<td>Paravalvular Leak Closure: Tips and Tricks</td>
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<tr>
<td>9:40</td>
<td>Endovascular Repair of Aortic Aneurysm: Case Selection and Planning</td>
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<tr>
<td>9:50</td>
<td>Starting a TAVR Program</td>
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<tr>
<td>10:00</td>
<td>Q&amp;A Discussion</td>
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### JS.08

**Joint AHA/Italian Federation of Cardiology Session: Genetic Testing in Your Clinical Practice**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
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<tbody>
<tr>
<td>S102a</td>
<td>9:00 - 10:15 AM</td>
<td>From Family History to Genetic Counseling</td>
</tr>
<tr>
<td>9:15</td>
<td>Genetic Testing in Clinical Practice: When and How?</td>
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</tr>
<tr>
<td>9:30</td>
<td>How Can Genetic Testing Change Your Daily Practice?</td>
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<tr>
<td>9:45</td>
<td>Genetic Testing in Dilated Cardiomyopathy</td>
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<tr>
<td>10:00</td>
<td>Q&amp;A Discussion</td>
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## Joint Sessions

### JS.06
**Joint AHA/NHLBI Session: Mechanisms of Cell Therapy—a Perspective from a Multicenter Clinical Trial Network**

- **S404bcd**
  - **9:00-10:15 AM**
  - **Moderators:**
    - Phillip Yang, Stanford, CA
    - John M Canty Jr., Buffalo, NY
  - **9:00** *In vivo Visualization of Stem Cell Therapy*
    - Phillip Yang, Stanford, CA
  - **9:15** Cell Therapy and the Underlying Mechanism - Network Perspective
    - Robert Simari, Kansas City, KS
  - **9:30** LVAD and Cell Therapy - Feasibility and Efficacy
    - Y Joseph Woo, Stanford, CA
  - **9:45** BAMI - Improved Survival from Cell Therapy?
    - Andreas Zeiher, Frankfurt
  - **10:00** Mesenchymal Stem Cells in Clinical Trial - Do We Know the Mechanism?
    - Joshua Hare, Miami, FL

### JS.05
**Joint AHA/Sociedad Chilena de Cardiología: Risk and Prognosis for Cardiovascular Disease in Women in Chile and Latin America**

- **S501**
  - **9:00-10:15 AM**
  - **Moderators:**
    - Sidney Smith, Chapel Hill, NC
    - Monica Acevedo, Santiago, Chile
  - **9:00** Determinants of Changes in Cardiovascular Mortality in Women in the USA
    - Mary Walsh, Indianapolis, IN
  - **9:15** Coronary Heart Disease in Women: Lessons from the Chilean National Registry—GEMI
    - Ramon Corbalan, Santiago, Chile
  - **9:30** Imaging Tests and Provocative Tests, Including Exercise Testing in Women with Suspected Coronary Artery Disease: Updated ACC/AHA Guidelines
    - Jennifer H Mieres, Hempstead, NY
  - **9:45** Angina and Ischemic Heart Disease in Women: Update of NHLBI WISE Study
    - Noel Bairey-Merz, Los Angeles, CA
  - **10:00** Lessons of the PURE Study: Risk and Prognosis for Cardiovascular Disease in Latin America
    - Fernando Lanas, Temuco, Chile

### JS.09
**Joint AHA/World Heart Federation Session: Rheumatic Fever and Rheumatic Heart Disease—What’s New in 2014**

- **S101**
  - **9:00-10:15 AM**
  - **Moderators:**
    - Craig Sable, Washington, DC
    - Kathryn Taubert, Dardagny, Switzerland
  - **9:00** Genetics of Rheumatic Heart Disease
    - Bongani M Mayosi, Cape Town, South Africa
  - **9:15** The Role of Echocardiography in the Diagnosis of Rheumatic Carditis in 2014
    - Bo Remenyi, Darwin, Australia
  - **9:30** Revisions in Clinical Criteria in the 2014 Jones Criteria: Beyond Carditis
    - Michael Gewitz, Valhalla, NY
  - **9:45** Cost Effectiveness of Primary Prevention of Acute Rheumatic Fever
    - Tom Gaziano, Boston, MA
  - **10:00** Q&A Discussion

### JS.13
**Joint PCNA/AHA Prevention Committee Session: Role of Physical Activity in Prevention of CVD**

- **S503**
  - **9:00-10:15 AM**
  - **Moderators:**
    - Barbara J Fletcher, Jacksonville, FL
    - Ross Arena, Chicago, IL
  - **9:00** Hemodynamic and Metabolic Effects of Physical Activity
    - Gerald F Fletcher, Jacksonville, FL
  - **9:15** Psychological Effects of Physical Activity
    - James Blumenthal, Durham, NC
  - **9:30** Motivating Patients to Exercise: What Works
    - Nancy H Miller, Palo Alto, CA
  - **9:45** Impact of Exercise on the Obese Paradox
    - Steven Blair, Columbia, SC
  - **10:00** The Ideal Exercise Prescription to Prevent CAD
    - Vera Bittner, Birmingham, AL
**Plenary**

**PS.02**

2013 ACC/AHA Cholesterol Guidelines: 1 Year Later

S100ab
9:00 - 10:15 AM

*Moderators:*
George Mensah, Bethesda, MD
JoAnn E Manson, Boston, MA

9:00 Cholesterol Guidelines: What Have We Learned?
Sanjay Kaul, Los Angeles, CA

9:15 Risk Assessment in Primary Prevention: Future Directions
Michael Lauer, Bethesda, MD

9:30 The Role of Lifestyle in Primary Prevention of CVD
Lawrence J Appel, Baltimore, MD

9:45 Clinical Decision Making Beyond the Trial Evidence
Samia Mora, Boston, MA

10:00 Prevention Guidelines: A View from Abroad
David A Wood, London, United Kingdom

**Maintenance of Certification**

**MOC.02**

Maintenance of Certification: ABIM Learning Session—Clinical Cardiac Electrophysiology, 2014 Update (Late-June Release)

S105d
9:00 - 11:00 AM

*Moderators:*
Anne B Curtis, Buffalo, NY
Alan Cheng, Baltimore, MD

**Abstract Poster Session**

**APS.725.02**

Acute and Chronic Coronary Artery Disease: Quality Care and Outcomes I

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Paul Heidenreich, Palo Alto, CA

7641 Long-Term Mortality, MACE, and Angina Among Patients With Diabetes and Myocardial Infarction
*Suzanne V Arnold,* Saint Luke’s Mid America Heart Inst, Kansas City, MO
Mikhail Kosiborod, Saint Luke’s Mid America Heart Inst, Kansas City, MO

7642 Gender-age Interaction after AMI in China
*Xin Zheng,* Fuwai Hosp, Beijing, China
Lixin Jiang, Fuwai Hosp, Beijing, China

7643 Statin and Aspirin Use in a High Risk CHD HMO Population Modeled to Prevent 4,930 ASCVD Events and Save the Health Care System up to $129 Million in 3 Years
*Robert James Dufl,* Kaiser, La Jolla, CA
Ronald D Scott, Kaiser, Los Angeles, CA

7644 Effect of Female Gender on Acute Coronary Syndrome Outcomes in Young Patients
*Amar M Salam,* Hamad Medical Corp & Weill Cornell Medical Coll-Qatar, Doha, Qatar
*Gulf RACE-2* Investigators The Second Gulf Registry of Acute Coronary Events

*Dhaval Kolte,* New York Medical Coll, Valhalla, NY
Julio A Panza, New York Medical Coll, Valhalla, NY
<table>
<thead>
<tr>
<th>Board #</th>
<th>Title</th>
<th>Author(s)</th>
<th>Institution(s)</th>
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</table>
| 7646   | Combined Assessment of Serum Neutrophil Gelatinase-Associated Lipocalin and N-Terminal Pro-B-Type Natriuretic Peptide Levels on Admission Improves the Prediction of Mortality in Patients Hospitalized to Coronary Care Units | Ryunosuke Okuyama, Fujita Health Univ Hosp, Toyoake, Japan  
Yukio Ozaki, Fujita Health Univ Hosp, Toyoake, Japan |  

7647   | The Prognostic Impact of Spontaneous Coronary Artery Dissection in Younger Female Patients with Acute Myocardial Infarction; Report from Angina Pectoris-Myocardial Infarction Multicenter Investigations in Japan | Takahiro Nakashima, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan  
Shunichi Miyazaki, Kinki Univ, Osaka, Japan |  

7648   | Chronic Total Occlusion in a Non-Infarct Coronary Artery Exacerbates Prognosis of the Patients With Acute Myocardial Infarction | Yukio Mizuguchi, Sakurakai Takahashi Hosp, Kobe, Japan  
Tetsuya Hata, Sakurakai Takahashi Hosp, Kobe, Japan |  

7649   | The Value of QS-Pattern in Leads V1 to V3 for Predicting Improvement of Left Ventricular Function After ST-elevation Myocardial Infarction | Tetsuo Horimatsu, Hyogo Coll of Med, Nishinomiya, Japan  
Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan |  

7650   | Persistent Thrombocytopenia after Myocardial Infarction is Associated with Increased Short- and Long-Term Mortality | Anirudh Kumar, Duke Univ, Durham, NC  
Hani Jneid, Baylor Coll of Med, Houston, TX |  

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### Abstract Poster Session

**APS.213.05**  
**Acute Myocardial Infarction: Contemporary Perspectives of Care Nationally and Globally**

**South Hall A2 - Core 2**  
**Posters Displayed:** 9:00 AM - 5:00 PM  
**Presenter Available:** 3:00 - 4:30 PM

**Board #**  
**Poster Professor:**  
Mark Chan, Singapore, Singapore

**2650**  
**Identifying Hospital Cardiac Services for Acute Myocardial Infarction Using Individual Patient Claims Data**  
Tiffany E Chang, Yale Sch of Public Health, New Haven, CT  
Harlan Krumholz, Ctr for Outcomes Res and Evaluation, New Haven, CT

---

**Board #**  
**2651**  
**The Increasing Proportion of Acute Myocardial Infarction Represented by the Uninsured: a Growing Financial Burden in the United States**  
Bethany Doran, New York Univ, New York, NY  
Sripal Bangalore, New York Univ, New York, NY

**2652**  
**Reperfusion Therapy for ST-Elevation Acute Myocardial Infarction in Eastern Europe: The ISACS-TC Registry**  
Edina Cenko, Univ of Bologna, Bologna, Italy  
Raffaele Bugiardini, Univ of Bologna, Bologna, Italy

**2653**  
**Sex Differences in the Risk of 1-year Re-hospitalization in Young Women and Men following Acute Myocardial Infarction**  
Rachel P Dreyer, Ctr for Outcomes Res & Evaluation (CORE); Dept of Internal Med, Yale Sch of Med, New Haven, CT  
Harlan M Krumholz, Ctr for Outcomes Res & Evaluation (CORE); Dept of Internal Med, Yale Sch of Med; Section of CV Med & the Robert Wood Johnson Fndn Clinical Scholars Program; Dept of Health policy and Management, Yale Sch of Public Health, New Haven, CT

**2654**  
**Helicopter Emergency Medical Service Transport Time Savings for ST-elevated Myocardial Infarctions**  
Allen Wang, Univ of Oklahoma, Tulsa, OK  
Stephen H Thomas, Univ of Oklahoma, Tulsa, OK

**2655**  
**Financial Catastrophe Resulting From Hospitalization for Acute Coronary Syndrome in Eight Countries in Asia: The Findings From EPICOR-Asia**  
Stephen Jan, The George Inst for Global Health, Camperdown, Australia  
Yong Huo, Peking Univ First Hosp, Beijing, China

**2656**  
**Clinical Characteristics and Determinants of Non-Eligibility for Reperfusion in Patients With ST Segment Elevation Myocardial Infarction: Insights From the NCDR®**  
Tarun W Dasari, Univ of Oklahoma Health Scien, okc, OK  
Jorge F Saucedo, Northshore Health System, Evanston, IL

**2657**  
**Lack of Medical Insurance is an Independent Predictor of Increased Inter-Facility Transfer for ST-Elevation Myocardial Infarction in U.S. Emergency Departments**  
Michael J Ward, Vanderbilt Univ Sch of Med, Nashville, TN  
Wesley H Self, Vanderbilt Univ Sch of Med, Nashville, TN

**2658**  
**Emergency Department Crowding Does Not Predict Door-In-Door-Out Time for Acute Myocardial Infarction Patients Transferred for Acute Coronary Intervention**  
Michael J Ward, Vanderbilt Univ Sch of Med, Nashville, TN  
Jeremiah Schuur, Brigham and Women’s Hosp, Boston, MA
2659 The Future of Global Cardiovascular Outcomes Assessment: The International Consortium for Health Outcomes Measurement (ICHOM)
Robert L McNamara, Yale Univ, New Haven, CT
Clive Weston, Swansea Univ, Swansea, United Kingdom

Abstract Poster Session
APS.505.01
Advancing Heart Failure
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
Robert J Mentz, Durham, NC

5216 Trends in Utilization of Mechanical Circulatory Assist Devices in Patients Presenting with ST Elevation Myocardial Infarction
Shikhar Agarwal, Cleveland Clinic, Cleveland, OH
Venu Menon, Cleveland Clinic, Cleveland, OH

5217 Arrhythmias on Home Intravenous Inotropic Therapy in Advanced Heart Failure
Kumar Sanam, Univ of Alabama at Birmingham, Birmingham, AL
Deepak Acharya, Univ of Alabama at Birmingham, Birmingham, AL

5218 Differential Patient Perceptions of Limitations to Quality of Life in a Large Ambulatory Heart Failure Population
Emer Joyce, Brigham and Women's Hosp, Boston, MA
Eldrin F Lewis, Brigham and Women's Hosp, Boston, MA

5219 Model of End-Stage Liver Disease Excluding INR (MELD-XI) Scoring System Predicts Mode of Death in Patients Admitted With Acute Decompensated Heart Failure
Takahisa Yamada, Osaka General Medical Ctr, Osaka, Japan
Masatake Fukunami, Osaka General Medical Ctr, Osaka, Japan

5220 Neutrophil to Lymphocyte ratio Predicts All-cause Mortality in Patients with Chronic Heart Failure
Chim Lang, Univ of Dundee, Dundee, United Kingdom

5221 Ventricular Arrhythmias and Mortality After Left Ventricular Assist Devices Implantation: A Meta-Analysis
Nader Makki, Univ of Iowa, Iowa City, IA
Brian Olshansky, Univ of Iowa, Iowa City, IA

5222 Trends and Predictors in Noninvasive and Invasive Ventilation in Patients With Heart Failure
Navdeep Gupta, Medical Coll Of Wisconsin, Milwaukee, WI
Michael P Cinquegrani, Medical Coll Of Wisconsin, Milwaukee, WI

5223 The Impact of Dementia on Heart Failure Mortality: A National Study of 5.2 Million People
Jane A Cannon, Univ of Glasgow, Glasgow, United Kingdom
John J McMurray, Univ of Glasgow, Glasgow, United Kingdom

2660 Mortality Rates Among Patients With Venous Thromboembolism on Anticoagulant Therapy
Brahim Bookhart, Janssen Scientific Affairs, LLC, Raritan, NJ
Scott Kaatz, Hurley Medical Ctr, Flint, MI

2661 Clinical Events Avoided With Apixaban Compared to Current Standard of Care for the Initial and Extended Treatment and Prevention of Venous Thromboembolism
Tereza Lanitis, Evidera, London, United Kingdom
Ander Cohen, Guys and St Thomas' Hosp, London, United Kingdom

Abstract Poster Session
APS.213.06
Anticoagulants for Atrial Fibrillation and Venous Thromboembolic Disease: Care and Outcomes
South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Elaine Hylek, Boston, MA

5224 Trends, Predictors and Outcomes in Heart Failure Patients undergoing Palliative Care
Navdeep Gupta, Medical Coll Of Wisconsin, Milwaukee, IL
Michael P Cinquegrani, Medical Coll Of Wisconsin, Milwaukee, IL

5225 Correlations Between Sleep Disordered Breathing Indexes and Cardiac Functional Parameters in Patients With Chronic Heart Failure
Tadamitsu Nakashima, Yamaguchi Univ Graduate Sch of Med, Ube, Yamaguchi, Japan
Masafumi Yano, Yamaguchi Univ Graduate Sch of Med, Ube, Yamaguchi, Japan

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
2662 A Multiperspective Analysis of the Influence of Medicare Part D on the Cost-effectiveness of Dabigatran versus Warfarin
Brian M. Salata, Univ of Michigan - Ann Arbor, Ann Arbor, MI
Geoffrey D. Barnes, Univ of Michigan Health System, Ann Arbor, MI

2663 Comparison of Hospital Length of Stay Between Hospitalized Non-Valvular Atrial Fibrillation Patients Treated With Either Apixaban or Warfarin
Jeffrey Trocio, Pfizer Inc, New York, NY
John Graham, Bristol-Myers Squibb, Plainsboro, NJ

2664 The Comparative Safety and Effectiveness of the Oral Anticoagulant (OAC) Dabigatran versus Warfarin Utilized in a Large Healthcare System in Non-valvular Atrial Fibrillation (NVAF) Patients
Todd C. Villines, Walter Reed Natl Medical Ctr, Bethesda, MD
Eric Schwartzman, Heart and Vascular Ctr, Naval Medical Ctr Portsmouth, Portsmouth, VA

2665 Cost-Effectiveness of Edoxaban vs. Warfarin in Patients With Atrial Fibrillation: Results From the ENGAGE AF - TIMI 48 Economic Study
Elizabeth A. Magnuson, Saint Luke’s Mid America Heart Inst, Kansas City, MO
David J. Cohen, Saint Luke’s Mid America Heart Inst, Kansas City, MO

2666 The Cost-Effectiveness of Apixaban versus Warfarin in Patients With Atrial Fibrillation: Insights From the ARISTOTLE Study Group
Patricia A Cowper, Duke Clinical Res Inst, Durham, NC
Daniel B. Mark, Duke Clinical Res Inst, Duke Univ Medical Ctr, Durham, NC

2667 Anticoagulation Treatment in High-Risk Medicare Advantage Patients with Non-Valvular Atrial Fibrillation
Amanda S. Bruno, Bristol-Myers Squibb Company, Plainsboro, NJ
Margaret Pasquale, Comprehensive Health Insights, Inc., Louisville, KY

2668 SAMeTT2R2 Scores Predict Stroke Risk After Initiation of Vitamin K Antagonist Therapy for Atrial Fibrillation: a Real-world Practice Study
Ben Freedman, Sydney Medical Sch, The Univ of Sydney, Sydney, Australia

2669 Higher Treatment Persistence of Non-Vitamin K Antagonist Oral Anticoagulants than Vitamin K Antagonists at 1 Year in Non-Valvular Atrial Fibrillation in Real-World Practice
Ben Freedman, Sydney Medical Sch, The Univ of Sydney, Sydney, Australia

Abstract Poster Session

**Arrhythmia Mechanisms in Structural Heart Disease Models**

South Hall A2 - Core 4

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**Poster Professor:**
Fadi G Akar, New York, NY

**4068**
**Cellular and Functional Defects Contributing to Dilated Cardiomyopathy in SCN5A D1275N Mice**
Dina Myers Stroud, Vanderbilt Univ, Nashville, TN
Dan M Roden, Vanderbilt Univ, Nashville, TN

**4069**
**Increased MicroRNA-130a in Patients With Ventricular Tachycardia and End-Stage Heart Failure**
Gene Kim, Univ of Chicago, Chicago, IL

**4070**
**Mineralocorticoid Receptor Dysregulation by MicroRNA-135a in Bradycardic Arrhythmogenic Remodeling**
Eric Duong, Montreal Heart Inst, McGill Univ, Montreal, QC, Canada
Stanley Nattel, Montreal Heart Inst, Univ de Montréal, Montreal, QC, Canada

**4071**
**Receptor for Advanced Glycation End Products Silencing Suppress Arrhythmia and Improve Electrical Conduction by Increasing Connexin43 via Wnt1 Activation in Rat Model for Ischemia Reperfusion Injury**
Hyelim Park, Yonsei Univ Coll of Med, Seoul, Republic of Korea
Boyoung Joung, Yonsei Univ Coll of Med, Seoul, Republic of Korea

**4072**
**Cx43 Hemichannel Inhibition Prevents Arrhythmias in Duchenne Muscular Dystrophy Mice**
J Patrick Gonzalez, Rutgers Univ - New Jersey Medical Sch, Newark, NJ
Diego Fraidenraich, Rutgers Univ - New Jersey Medical Sch, Newark, NJ

**4073**
**Ultrastructural Abnormalities in the Absence of Structural Cardiomyopathy in Plakophilin-2 Deficient Mice**
Alejandra Leo-Macias, New York Univ Sch of Med, New York, NY
Mario Delmar, New York Univ Sch of Med, New York, NY

**4074**
**Suppression of Post-Ischemic Arrhythmias by a Selective Small Molecule Inhibitor of Dynamin and Dynamin Related Protein 1**
Jun Hu, Mount Sinai Sch of Med, New York, NY
Fadi G Akar, Mount Sinai Sch of Med, New York, NY
### Abstract Poster Session

#### APS.404.12
**Arrhythmia: Clinical Electrophysiology, Diagnosis and Risk**

**South Hall A2 - Core 4**
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

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<th>Poster Professor:</th>
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<tr>
<td>4183</td>
<td>Andrew Epstein, New Haven, CT</td>
</tr>
<tr>
<td>4184</td>
<td>Hisashi Ogawa, Kyoto Medical Ctr, Kyoto, Japan</td>
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<td>The Fushimi AF Registry Investigators</td>
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<td>4185</td>
<td>Madhurmeet Singh, Univ of Pittsburgh Medical Ctr, Pittsburgh, PA</td>
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<td>Evan Adelestein, Univ of Pittsburgh Medical Ctr, Pittsburgh, PA</td>
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<tr>
<td>4186</td>
<td>Meena P Rao, Duke Univ, Durham, NC</td>
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<td>4187</td>
<td>Masaharu Akao, Natl Hosp Organization Kyoto Medical Ctr, Kyoto, Japan</td>
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<td>Suneet Mittal, Valley Health System of NY and NJ, New York, NY</td>
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<td>4188</td>
<td>Luigi Di Biase, Montefiore Medical Ctr, Bronx, NY</td>
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<td>4189</td>
<td>Parin J Patel, Univ of Pennsylvania, Philadelphia, PA</td>
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<td>4190</td>
<td>David F Miranda, Hennepin County Medical Ctr, Minneapolis, MN</td>
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<td>4191</td>
<td>Mohammad Shenasa, San Jose, CA</td>
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<td>4192</td>
<td>Weeranun D Bode, Univ of North Carolina at Chapel Hill, Chapel Hill, NC</td>
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<td>Anil K Gehi, Univ of North Carolina at Chapel Hill, Chapel Hill, NC</td>
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</table>

**Abstract Poster Session**

#### APS.404.10
**Arrhythmia: Clinical Electrophysiology, Diagnosis and Risk Stratification II**

**South Hall A2 - Core 4**
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

<table>
<thead>
<tr>
<th>BOARD #</th>
<th>Poster Professor:</th>
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<tbody>
<tr>
<td>4167</td>
<td>Mohammad Shenasa, San Jose, CA</td>
</tr>
<tr>
<td>4168</td>
<td>Eilen Engels, Maastricht Univ, Maastricht, Netherlands</td>
</tr>
<tr>
<td></td>
<td>Frits W Prinzen, Maastricht Univ, Maastricht, Netherlands</td>
</tr>
<tr>
<td>4169</td>
<td>Yasutaka Oguchi, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan</td>
</tr>
<tr>
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<td>Masaru Sugimachi, Natl Cerebral and Cardiovascular Ctr Reseach Inst, Osaka, Japan</td>
</tr>
</tbody>
</table>
4169  Implantable Loop Recorder Monitoring Detects a High Incidence of Bradycardia Leading to Pacemaker Implant in Hemodialysis Patients: Preliminary Results From the Monitoring in Dialysis (MID) Study
Bruce A Koplan, Brigham & Womens Hospital, Boston, MA
Don E Williamson, Nephology Associates, P.C., Augusta, GA

4170  Ventricular Conduction and Long-term Outcomes in African Americans: Insights from the Jackson Heart Study
Robert J Mentz, Duke Univ Medical Ctr, Durham, NC
Adrian F Hernandez, Duke Univ Medical Ctr, Durham, NC

4171  Sinus Node Dysfunction in Associated With Higher Symptom Burden and Increased Risk of Progression to Permanent Atrial Fibrillation: Results From ORBIT-AF Registry
Larry R Jackson, Duke Univ Medical Ctr, Durham, NC
Peter R Kowey, Jefferson Medical Coll, Wynnewood, PA

4172  Combined Algorithm Using a Poor Increase in Inferior P-Wave Amplitude During Sympathetic Stimulation and Conventional CSNRT as a Diagnostic Method for Sick Sinus Syndrome
Jin kyu Park, Yonsei Univ Health System, Seoul, Republic of Korea
Boyoung Joung, Yonsei Univ Health system, Seoul, Republic of Korea

4173  Association of Intertitial Conduction and Diffuse Left Ventricular Myocardial Fibrosis Defined by Cardiac Magnetic Resonance: the PRIMERI Study
Theingi Tiffany Win, Univ of New Mexico, Albuquerque, NM
Larisa G Tereshchenko, Oregon Health & Science Univ, Portland, OR

4174  Atrial Fibrillation is a Strong Risk Factor for Adverse Cardiovascular Outcomes in Patients With Implantable Cardioverter-Defibrillators
Ian CY Chang, Univ of Minnesota, Minneapolis, MN
Lin Y Chen, Univ of Minnesota, Minneapolis, MN

4175  Unexpected Response to Atrial Fibrillation Reduction in Patients With Cardiac Resynchronization Therapy
Hamid Assadi, South Bay Cardiovascular Medical Group, San Jose, CA
Mohammad Shenasa, South Bay Cardiovascular Medical Group, San Jose, CA

4176  A Clinical Decision Aid to Identify Emergency Department Patients With Atrial Fibrillation at Low Risk for 30-Day Adverse Events
Tyler W Barrett, Vanderbilt Univ Medical Ctr, Nashville, TN
Dawood Darbar, Vanderbilt Univ Medical Ctr, Nashville, TN

Abstract Poster Session

Assessing and Improving the Quality of Care for Acute Coronary Syndromes

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
James G Jollis, Durham, NC

Impact of Door to Balloon Time on Outcome of Patients Presenting With Different Symptom Onset to Door Time
Razvan T Dadu, Baylor Coll of Med, Houston, TX
Nasser Lakkis, Baylor Coll of Med, Houston, TX

The Impact of Age and Gender on Door to Balloon Time in Patients with STElevation Myocardial Infarction
Sakura Nagumo, Showa Univ Fujigaoka Hosp, Yokohama City, Japan

Hospitals Accepting Greater Proportions of High Risk Transfer-In STEMI Patients Do Not Have Higher Risk-Adjusted Hospital Mortality: A Report From the AHA Mission: Lifeline Program
Michael C Kontos, Virginia Commonwealth Univ, Richmond, VA
William J French, Harbor-UCLA Medical center, Torrance, CA

Length of Stay and 30 Day Mortality in Patients Suffering an Uncomplicated ST-Elevation Myocardial Infarction Treated With Primary Percutaneous Coronary Intervention in New York State
Gregory Yost, Geisinger Health System, Danville, PA
Peter B Berger, Geisinger Health System, Danville, PA

Comparison of 30-day Mortality by Ischemic Times in ST-Elevation Myocardial Infarction Treated With Pre-Hospital Reduced Dose Fibrinolytic Followed by Percutaneous Coronary intervention versus Percutaneous Coronary Intervention Alone
Aminezaf Sohiyoun, Univ of Texas Health Science Ctr at Houston, Houston, TX
Richard W Smalling, Univ of Texas Health Science Ctr at Houston, Houston, TX

Is There Difference in Clinical Outcomes Following Percutaneous Coronary Intervention (PCI) for Acute Coronary Syndrome (ACS) between Hospitals With and Without Onsite Cardiac Surgery Backup?
Tomonori Akasaka, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan
A Systematic Review of World-Wide Characteristics and Management of Patients With ST-Segment Elevation Myocardial Infarction
Yang Zhan, McGill Health Univ Ctr, Montreal, QC, Canada
Thao Huynh, McGill Health Univ Ctr, Montreal, QC, Canada

China PEACE Risk Tool for Acute Myocardial Infarction: An Early Risk Classification Tree for Decisions About Fibrinolytic Therapy
Xi Li, Fuwai Hosp, Natl Ctr for Cardiovascular Diseases, Chinese Acad of Medical Sciences and Peking Union Medical Coll, Beijing, China
China PEACE Collaborative Group

Post-Discharge Statin Withdrawal Had a Deleterious Impact on Long-Term Clinical Outcomes in Patients With Acute Myocardial Infarction
Min Chul Kim, Chonnam Natl Univ Hosp, Gwangju, Republic of Korea
Youngkeun Ahn, Chonnam Natl Univ Hosp, Gwangju, Republic of Korea

Impact of Prehospital Administration of Antithrombotic Medications on Infarct-related Artery Patency in ST-elevation Myocardial Infarction: Results from the FAST-MI 2010 Registry
Nicolas Danchin, HEGP, Paris, France
for the FAST-MI investigators

Abstract Poster Session

Athletes: Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk Stratification
South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

J-Point Syndromes From the Vectorcardiogram Point of View
Carlos A Pastore, HEART INST INCOR
HCFMUSP, São Paulo, Brazil
Horácio G Pereira, HEART INST INCOR
HCFMUSP, São Paulo, Brazil

Impaired Right Ventricular Contractile Reserve During Exercise in Endurance Athletes With Right Ventricular Arrhythmias
Guido Claessens, Univ Hosp Leuven, Leuven, Belgium
Hein Heidbuchel, Univ Hosp Leuven, Leuven, Belgium

Does High Intensity Endurance Training Increase the Risk of Atrial Fibrillation? A Longitudinal Study of Left Atrial Structure and Function
Mildred A Opondo, Inst for Exercise and Environmental Med/Univ of Texas Southwestern Medical Ctr, Dallas, TX
Benjamin D Levine, Inst for Exercise and Environmental Med/Univ of Texas Southwestern Medical Ctr, Dallas, TX

Why Arrhythmic Cardiomyopathy is Still a Major Cause of Sudden Death in Competitive Athletes Despite Preparticipation Screening?
Cristina Basso, Univ of Padova, Padova, Italy
Gaetano Thiene, Univ of Padova, Padova, Italy

Sport-Specific Prevalence of Right Precordial T Wave Inversions in Caucasian Athletes and Associated Electrocardiographic Findings
Meagan M Wasfy, Massachusetts General Hosp, Boston, MA
Aaron L Bagish, Massachusetts General Hosp, Boston, MA

Exercise Has a Disproportionate Role in the Pathogenesis of Non-Desmosomal Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy
Abhishek C Sawant, Johns Hopkins Hosp, Baltimore, MD
Cynthia A James, Johns Hopkins Hosp, Baltimore, MD

Cardiorespiratory Fitness is Associated With Decreased Risk of Incident Atrial Fibrillation: An Analysis of 66,479 Patients From The Henry Ford Hospital Exercise Testing (FIT) Project
Waqas Qureshi, Wake Forest Univ, Winston Salem, NC
Mouaz Al-Mallah, Wake Forest Univ, Detroit, MI

Early Repolarization With J-Point Elevation Predicts Mortality in the Hispanic Female Population
Eric Shulman, Montefiore Medical Ctr, Bronx, NY
Andrew Krumerman, Montefiore Medical Ctr, Bronx, NY

Cardiorespiratory Fitness and Atrial Fibrillation: A Population-based Follow-up Study
Danesh K Kella, Emory Univ Sch of Med, Atlanta, GA
Hassan Khan, Emory Univ Sch of Med, Atlanta, GA

Sudden Cardiac Death in the Young is Frequently Associated With Cardiac Disease and Drug Use
Katherine S Allan, Keenan Res Ctr of the Li Ka Shing Knowledge Inst of St Michael's Hosp; Inst of Medical Sciences, Faculty of Med, Univ of Toronto, Toronto, ON, Canada
Paul Dorian, Keenan Res Ctr of the Li Ka Shing Knowledge Inst, St Michael's Hosp; Inst of Medical Sciences, Faculty of Med, Univ of Toronto, Toronto, ON, Canada
Abstract Poster Session

APS.404.04

Atrial Fibrillation: Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk Stratification III

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #

Poster Professor:
Suneet Mittal, Ridgewood, NJ

4107 Shortened Telomere Length is Associated with Paroxysmal but Not Persistent/Permanent Atrial Fibrillation in Cardiovascular Patients Referred for Angiography
John F Carlquist, Intermountain Medical Ctr, Univ of Utah, Murray, UT
Jeffrey L Anderson, Intermountain Medical Ctr, Univ of Utah, Murray, UT

4108 Statin Effect in Patients with Atrial Fibrillation Who Are Prescribed Dabigatran
Prashant Bhave, Univ of Iowa Hosp and Clinics, Iowa City, IA
Mary S Vaughan Sarrazin, Univ of Iowa Hosp and Clinics, Iowa City, IA

4109 Endothelial-Mesenchymal Transition in Human Atrial Fibrillation
Takeshi Kato, Kanazawa Univ, Graduate Sch of Medical Science, Kanazawa, Japan
Takeshi Yamashita, The Cardiovascular Inst, Tokyo, Japan

4110 Comparison of the Mechanism and Anatomical Tachycardia Circuit between the Verapamil-Sensitive Atrial Tachycardia Originating from the Vicinity of the Atrioventricular Node and from the Non-vicinity Area along the Atrioventricular Annulus
Hiroshige Yamabe, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

4111 Ventricular Rate Control in Obstructive Sleep Apnea Patients with Atrial Fibrillation
Tomas Konecny, Mayo Clinic - ICRC, Rochester, MN
Virend K Somers, Mayo Clinic, Rochester, MN

4112 Nocturnal Intermittent Hypoxia is Associated With Reduced Left Atrial Appendage Function in Atrial Fibrillation
Takashi Kohno, Keio Univ Sch of Med, Tokyo, Japan
Seiji Takatsuki, Keio Univ Sch of Med, Tokyo, Japan

APS.404.09

Atrial Fibrillation: Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk Stratification II

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Board #

Poster Professor:
T Jared Bunch, Rochester, MN

4113 Epicardial Adipose Tissue Volume Predicts Extent of Left Atrial Fibrosis in Patients with Atrial Fibrillation
Mark G Rabat, Loyola Univ Medical Ctr, Maywood, IL
David J Wilber, Loyola Univ Medical Ctr, Maywood, IL

Amar M Salam, Hamad Medical Corp & Weill Cornell Medical Coll-Qatar, Doha, Qatar
Jassim Al-Suwaidi, Hamad Medical Corp, Doha, Qatar

4115 Serum Galectin-3 Level Predicts the Extent of Left Atrial Fibrosis in Lone Atrial Fibrillation Patients
Mehmet A Oto, Hacettepe Univ, Ankara, Turkey
Kudret Aytemir, Hacettepe Univ, Ankara, Turkey

4116 Left Atrial Symmetry Changes in Atrial Fibrillation: Relation With Diastolic Dysfunction and Symptom Severity
Sotiros Nedios, Heart Ctr, Univ of Leipzig, Leipzig, Germany
Andreas Bollmann, Heart Ctr, Univ of Leipzig, Leipzig, Germany

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4159  Risk Factors for Frequent Premature Atrial Complexes in a Ten Year Holter Cohort
Tushar Acharya, Veterans Admin Central California Health Care System and Univ of California, San Francisco, Fresno, CA
Prakash C Deedwania, Veterans Admin Central California Health Care System and Univ of California, San Francisco, Fresno, CA

4160  Clinical Impact of Implantable Loop Recorders on Management of Patients with Recurrent Syncope and Cryptogenic Cerebrovascular Accident
Ajay Abichandani, St Luke's Univ Hosp and Healthcare Network, Bethlehem, PA
Darren Traub, St Luke's Univ Hosp and Healthcare Network, Bethlehem, PA

4161  Device Detected Atrial Fibrillation Poses Significant Risk of Heart Failure Related Hospitalization
George H Crossley, Vanderbilt Univ, Brentwood, TN
Tracy Bergeman, Medtronic Inc, Mounds View, MN

4162  Initial Clinical Experience with the Medtronic LinQ Loop Recorder: Concerns about Data Deluge
Geordan S Kushner, Valley Health System, Ridgewood, NJ
Sunet Mittal, Valley Health System, Ridgewood, NJ

4163  The Clinical Role of Atrial Fibrillation in Patients with Arrhythmogenic Right Ventricular Dysplasia
Ardan M Saguner, Univ Hosp Zurich, Zurich, Switzerland
Firat Duru, Univ Hosp Zurich, Zurich, Switzerland

4164  Chagas Disease is not Independently Associated with Atrial Fibrillation in Patients with Cardiomyopathy
Rhanderson N Cardoso, Univ of Miami, Miami, FL
Raul D Mitrani, Univ of Miami, Miami, FL

4165  Incidence of Atrial Fibrillation and Relation with Cardiovascular Events, Heart Failure and Mortality in a European Community-Based Study - Data of PREVEND
Rob A Vermond, Univ Medical Ctr Groningen, Groningen, Netherlands
Michiel Rienstra, Univ Medical Ctr Groningen, Groningen, Netherlands

4166  Racial Differences in Clinical Outcomes in Elderly Patients With Atrial Fibrillation
Rajesh Kabra, Univ of Tennessee Health Science Ctr, Memphis, TN
Mary Vaughan-Sarrazin, Univ of Iowa Coll of Med, Iowa City, IA

Abstract Poster Session

Autophagy and Mitochondrial Quality Control Mechanisms

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Lorrie A Kirshenbaum, Winnipeg, MB, Canada

Mitochondrial Fission Plays a Crucial Role in Cardiomyocyte Adaptation to Energy Stress via Mitophagy
Yoshiyuki Ikedo, Univ of Med and Dentistry of New Jersey, Newark, NJ
Junichi Sadoshima, Univ of Med and Dentistry of New Jersey, Newark, NJ

ULK1 Plays a Crucial Role in Mitochondrial Autophagy in Cardiomyocytes
Toshiro Salt, Rutgers New Jersey Medical Sch, Newark, NJ
Junichi Sadoshima, Rutgers New Jersey Medical Sch, Newark, NJ

Dissociation of Mitochondrial HK-II Triggers Mitochondria Specific Autophagy
Shigeki Miyamoto, UCSD, La Jolla, CA
Valerie P Tan-Sah, UCSD, La Jolla, CA

Up Regulation of Autophagy in Hsp60 Mutant Heart is an Adaptive Response to Increased Oxidative Stress and Causes Cardiomyopathy
Hirokazu Enomoto, Keio Univ, Tokyo, Japan
Keiichi Fukuda, Keio Univ, Tokyo, Japan

Deficiency in the E3 Ubiquitin Ligase Parkin Exacerbates Alcoholic Cardiomyopathy: Role of Mitophagy
Xihui Xu, Univ of Wyoming, Laramie, WY
Jun Ren, Univ of Wyoming, Laramie, WY

Prolonged Inhibition of Mitochondrial Fission Enhances Myocardial Injury in Response to Ischemia/Reperfusion
Yoshiyuki Ikedo, Univ of Med and Dentistry of New Jersey, Newark, NJ
Junichi Sadoshima, Univ of Med and Dentistry of New Jersey, Newark, NJ

Autophagy is Regulated by mir-106b in the Heart
Christian Kuhn, Univ Medical Ctr Schleswig-Holstein, Campus Kiel, Kiel, Germany
Norbert Frey, Univ Medical Ctr Schleswig-Holstein, Campus Kiel, Kiel, Germany
Despite Impaired Autophagic Flux Cardiac and Mitochondrial Functions are Preserved in Aged Mice Lacking Insulin Receptors in the Whole Heart
Karla Maria P Pires, Univ of Utah, Salt Lake City, UT
Sihem Boudina, Univ of Utah, Salt Lake City, UT

Defining the Sufficiency of Atg7 to Suppress Phenylephrine-induced Cardiac Hypertrophy
Scott Pattison, Univ of South Dakota, Vermillion, SD

Abstract Poster Session
APS.305.02
Basic Science and Genetics of Congenital Heart Disease

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #

Poster Professor:
Bruce D Gelb, New York, NY

3109 Absence of Family History Predicts a Low Yield for Genetic Testing in a Community Cardiomyopathy Clinic
Nikhil Mehta, Yale Sch of Med, New Haven, CT
Daniel Jacoby, Yale Sch of Med, New Haven, CT

3110 Study of S-Nitrosylation in Duchenne Muscular Dystrophy
Heaseung Sophia Chung, Johns Hopkins Univ, Baltimore, MD
Jennifer E Van Eyk, Johns Hopkins Univ, Baltimore, MD

3111 Sarcomere Gene Mutations in Left Ventricular Noncompaction
Asami Takasaki, Univ of Toyama, Toyama, Japan
Fukiko Ichida, Univ of Toyama, Toyama, Japan

3112 Novel Wnt Signaling in Neonatal Heart During Perinatal Transition
Marlin Touma, Univ of Califomia Los Angeles,
David Geffen Sch of Med, Los Angeles, CA
Yibin Wang, Univ of Califomia Los Angeles, David Geffen Sch of Med, Los Angeles, CA

3113 Disease-Specific Induced Pluripotent Stem Cells Identify the Transcriptional Repression and Epigenetic Modification of NKKX2-5, HAND1, and NOTCH1 During Cardiac Development of Hypoplastic Left Heart Syndrome
Junko Kobayashi, Okayama Univ, Okayama, Japan
Hidemasa Oh, Okayama Univ Hosp, Okayama, Japan

Abstract Poster Session
APS.211.03
Behavioral Risk Factors and CVD Risk I

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

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Poster Professor:
Bonnie Spring, Chicago, IL

2394 A microRNA Signature of Tobacco Exposure
Christine Willinger, NHLBI, Framingham, MA
Daniel Levy, NHLBI, Framingham, MA

2395 Demographic and Epidemiologic Drivers of Cardiovascular Mortality: Findings from the Global Burden of Disease, Injuries and Risk Factors Study, 1990-2010
Gregory A Roth, Univ of Washington, Seattle, WA
Christopher JL Murray, Univ of Washington, Seattle, WA

3114 Phosphodiesterase-5 Expression and Activity is Increased in Children With Single Ventricle Heart Failure
Shelley D Miyamoto, Univ of Colorado Denver, Children’s Hosp Colorado, Aurora, CO
Carmen C Sucharov, Univ of Colorado Denver, Aurora, CO

3115 Human c-kit+ Cardiac or Mesenchymal Stem Cells Enhance Right Ventricular Function in Neonatal Swine
Brody Wehman, Univ of Maryland Medical Ctr, Baltimore, MD
Sunjay Kaushal, Univ of Maryland Medical Ctr, Baltimore, MD

3116 Analysis of the Mechanisms of Intravenous Immunoglobulin-Resistant Kawasaki Disease Using iPS Cell Technology
Kazuyuki Ikeda, Kyoto Prefectural Univ of Med, Kyoto, Japan
Kenji Hanakoa, Kyoto Prefectural Univ of Med, Kyoto, Japan

3117 Successful Expansion and Bioscaffolding of Clonogenic Cardiac Pericyte-Like Cells From Infants Affected by Congenital Heart Disease
Paolo Madeddu, Univ of Bristol, Bristol, United Kingdom

3118 Differing Genetic Expression Patterns in Infants with Aortic Coarctation With or Without Arch Hypoplasia
Michael F Swartz, Univ of Rochester, Rochester, NY
George M Alfieris, Univ of Rochester, Rochester, NY
Short Adult Stature is an Independent Predictor of Cardiovascular Disease Risk Factors and Subclinical Vascular Changes in a Larger Population Based Sample
Mohan Thanikachalam, Tufts Univ Sch of Med, Boston, MA
Sadagopan Thanikachalam, Sri Ramachandra Univ, Porur, India

2397
Cigarette Smoking Explains Excess Deaths Associated with Being Underweight among Middle-Aged Korean Men
Joo Young Lee, Yonsei Univ Health System, Seoul, Republic of Korea
Il Suh, Yonsei Univ Health System, Seoul, Republic of Korea

2398
Higher Prevalence of Insulin Resistance among Asian Americans despite Lower Body Mass Index
Jia Fu, Palo Alto Medical Fndn, Palo Alto, CA
Latha Palaniappan, Palo Alto Medical Fndn, Palo Alto, CA

2399
The Association of Smoking With Abdominal Aortic Aneurysms, Peripheral Arterial Disease, Carotid Artery Stenosis and Atrial Fibrillation Amongst 1.3 Million Screened US Adults
Richard Bulbulia, CTSU, Univ of Oxford, Oxford, United Kingdom
Sarah Lewington, CTSU, Univ of Oxford, Oxford, United Kingdom

2400
Insulin Resistance over a 10-Year Period is Associated with Coronary Atherosclerosis in HIV-infected and Uninfected Men in the Multicenter AIDS Cohort Study
Michael Brenner, Johns Hopkins Univ, Baltimore, MD
Todd T Brown, Johns Hopkins Univ, Baltimore, MD

2401
The Natural History of Subjects with Isolated Metabolic Syndrome Compared to Metabolic Syndrome- a Population Based Study
Pratik A Patel, Mayo Clinic, Rochester, MN
Horn Choe, Mayo Clinic, Rochester, MN

2402
Gender Differences in the Cardiovascular Risk Factors in First acute myocardial infarction in a Middle Eastern Country over a 20-year period
Emad Ahmed, Heart Hosp, Doha, Qatar
Abdurrazzak A Gehani, Heart Hosp, Doha, Qatar

2403
Association of Diagonal Earlobe Crease With Traditional Cardiovascular Risk Factors and Coronary Artery Calcification in the General Population: Heinz Nixdorf Recall Study
Mustafa Kaynar, Univ of Duisburg-Essen, Essen, Germany
Raimund Erbel, Univ of Duisburg-Essen, Essen, Germany

Abstract Poster Session
Bleeding, Thrombosis and Pharmacology for ACS and PCI
South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Board # 6011
The Impact of Prolonged Clopidogrel Use Beyond 12 Months After Coronary Stenting in Smokers and Non-smokers
Jeremiah P Depta, Veterans Affairs Boston Healthcare System, West Roxbury, MA
Scott Kinlay, Veterans Affairs Boston Healthcare System, West Roxbury, MA

Board # 6012
Impact of Prasugrel versus Clopidogrel in Patients with Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention: a Propensity Score-Matched Analysis of the Amis-Plus Registry
David J Kurz, Triemli Hosp, Zurich, Switzerland
AMIS Plus Investigators

Board # 6013
Impact of Prasugrel Pretreatment and Timing of Coronary Artery Bypass Grafting on Clinical Outcomes of Patients With Non-ST-Segment Elevation Myocardial Infarction: From the ACCOAST Study
Dariusz Dudek, Jagiellonian Univ Medical Coll, Univ Hosp, Kraków, Poland
for the ACCOAST Investigators

Board # 6014
Lower Bleeding Risk Following PCI in Patients With Diabetes Prescribed Prolonged Dual Anti Platelet Therapy
Anna Grodzinsky, Saint Luke’s Mid America Heart Inst, Kansas City, MO
Mikhail Kosiborod, Saint Luke’s Mid America Heart Inst, Kansas City, MO

Board # 6015
Sarpogrelate Use and Clinical Outcomes After Drug-Eluting Stent in Patients With Diabetes Mellitus(s-code), a Single Center Trial
Kohei Fukuchi, Osaka Red Cross Hosp, Osaka City, Japan
Masaru Tanaka, Osaka Red Cross Hosp, Osaka City, Japan

Board # 6016
Bivalirudin versus Unfractionated Heparin for Residual Thrombus Burden: A Frequency-Domain Optical Coherence Tomography Study
Rocco Vergallo, Massachusetts General Hosp, Harvard Medical Sch, Boston, MA
Ik-Kyung Jang, Massachusetts General Hosp, Harvard Medical Sch, Boston, MA
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<th>BOARD #</th>
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<td>4344</td>
<td>Regional Differences in Outcomes After Cardiopulmonary Resuscitation for In-Hospital Cardiac Arrest in the United States</td>
<td>Dhaval Kolte, New York Medical Coll, Valhalla, NY; Julio A. Panza, New York Medical Coll, Valhalla, NY</td>
</tr>
<tr>
<td>4345</td>
<td>Discrepancy Between Originally Assigned and Adjudicated Causes of Out-of-Hospital-Cardiac-Arrest of “No Obvious Cause” in Young Patients</td>
<td>Katherine S Allen, Keenan Res Ctr of the Li Ka Shing Knowledge Inst of St Michael’s Hosp; Inst of Medical Sciences, Faculty of Med, Univ of Toronto, Toronto, ON, Canada; Paul Dorian, Keenan Res Ctr of the Li Ka Shing Knowledge Inst of St Michael’s Hosp; Inst of Medical Sciences, Faculty of Med, Univ of Toronto, Toronto, ON, Canada</td>
</tr>
<tr>
<td>4346</td>
<td>Survival From Sudden Cardiac Arrest in the Hemodialysis Setting</td>
<td>Carmen Teodorescu, Cedars-Sinai Medical Ctr, Los Angeles, CA; Sumeet S Chugh, Cedars-Sinai Medical Ctr, Los Angeles, CA</td>
</tr>
<tr>
<td>4347</td>
<td>Amplitude-Spectral Area of the Ventricular Fibrillation Waveform and Chest Compression Quality in Witnessed and Unwitnessed Out-of-Hospital Cardiac Arrest: Can We Predict Who is Unlikely to Survive?</td>
<td>Julia Indik, Univ of Arizona, Tucson, AZ; Karl Kern, Univ of Arizona, Tucson, AZ</td>
</tr>
<tr>
<td>4348</td>
<td>Role of Coronary Angiography with Successful Percutaneous Coronary Intervention in Patients with Out-of-Hospital Cardiac Arrest without ST-Segment Elevation Myocardial Infarction</td>
<td>Yader Sandoval, Hennepin County Medical Ctr, Minneapolis, MN; Fouad A Bachour, Hennepin County Medical Ctr, Minneapolis, MN</td>
</tr>
<tr>
<td>4349</td>
<td>Presentation With Cardiac Arrest in Patients With Acute Coronary Syndromes: Insights From the Second Gulf Registry of Acute Coronary Events</td>
<td>Amar M Salam, Hamad Medical Corp &amp; Weill Cornell Medical Coll–Qatar, Doha, Qatar (Gulf RACE-2) Investigators The Second Gulf Registry of Acute Coronary Events</td>
</tr>
<tr>
<td>4350</td>
<td>Pre-Hospital Initiation of Therapeutic Hypothermia Associated With Better Survival and Neurologic Outcome in a Broad Population of Patients in North Carolina</td>
<td>Meena P Rao, Duke Univ, Durham, NC; Christopher B Granger, Duke Clinical Res Inst, Durham, NC</td>
</tr>
<tr>
<td>4351</td>
<td>Time of Hospital Admission and Its Effect on Treatment and Outcome in Patients After Cardiac Arrest</td>
<td>Thomas Uray, Medical Univ of Vienna, Vienna, Austria; Fritz Sterz, Medical Univ of Vienna, Vienna, Austria</td>
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**Abstract Poster Session**

**Cardiac Arrest: Population and Clinical Investigations**

- **South Hall A2 - Core 4**
- **Posters Displayed:** 9:00 AM - 5:00 PM
- **Presenter Available:** 3:00 - 4:30 PM

**Poster Professor:**
- **Taku Iwami, Kyoto, Japan**

**Warning Symptoms Prior to Sudden Cardiac Arrest: Spotlight on Sub-Acute Prevention**
- **Eloi Marjon**, Cedars-Sinai Medical Ctr, Los Angeles, CA
- **Sumeet S Chugh**, Cedars-Sinai Medical Ctr, Los Angeles, CA
**Systematic Rhythm Analysis of Automated External Defibrillators Reveals a High Proportion of Shockable Rhythm**

Marco B Hansen, Copenhagen Univ Hosp, Rigshospitalet, Dept of Anesthesia, Ctr of Head and Orthopedics, Copenhagen, Denmark

Anne Møller Nielsen, Copenhagen Univ Hosp, Rigshospitalet, Dept of Anesthesia, Ctr of Head and Orthopedics, Copenhagen, Denmark

---

**Acute Effect of the Na+/Ca2+ Exchanger (ncx) Inhibitor Sea0400 on Diastolic Function in vivo and in vitro in a Model of Heart Failure With Preserved Ejection Fraction**

Uwe Primessnig, Medical Univ of Graz, Graz, Austria

Frank Heinzl, Medical Univ of Graz, Graz, Austria

---

**sFRP2, Even When Overexpressed in Myocytes, is a Novel Mechanism for Myocardial Ischemic Protection through Angiogenesis**

Xiangzhen Su, Cardiovascular Res Inst, Rutgers-New Jersey Medical Sch, Newark, NJ

Dorothy Vatner, Cardiovascular Res Inst, Rutgers-New Jersey Medical Sch, Newark, NJ

---

**The Retinoblastoma Protein is Inactivated in Response to Cardiac Pressure Overload and Regulates Apoptosis and Autophagy in Cardiomyocytes**

Paul B Ammann, Rutgers New Jersey Medical Sch, Newark, NJ

Junichi Sadoshima, Rutgers New Jersey Medical Sch, Newark, NJ

---

**Disruption of Myeloid Differentiation Factor-88 Signaling Prevents the Formation of the Nlrp3 Inflammasome in the Heart in Acute Myocardial Infarction in the Mouse**

Stefano Toldo, Virginia Commonwealth Univ, Richmond, VA

Antonio Abbate, Virginia Commonwealth Univ, Richmond, VA

---

**Endoglin Selectively Modulates TRPC Expression in Response to Left or Right Ventricular Pressure Overload**

Kevin J Morine, Tufts Medical Ctr, Boston, MA

Navin K Kapur, Tufts Medical Ctr, Boston, MA

---

**Loss of Gelsolin Attenuates Pressure Overload Induced Heart Failure: Novel Role of Gelsolin in Cardiac Biomechanical Stress Induced Cytoskeletal Remodeling**

Vaibhav B Patel, Univ of Alberta, Edmonton, AB, Canada

Gavin Y Oudit, Univ of Alberta, Edmonton, AB, Canada

---

**Therapeutic Inhibition of Microrna-208a Attenuates Apoptosis, Fibrosis, and Improves Cardiac Function Post Myocardial Infarction**

Hasahya Tony, Union Hosp of Tongji Medical Coll of Huazhong Univ of Science and Technology, Wuhan, China

Zeng Qutang, Union Hosp of Tongji Medical Coll of Huazhong Univ of Science and Technology, Wuhan, China

---

**Time-resolved Wall Stress Assessments Reveal Marked Late Systolic Load in Heart Failure with Reduced Ejection Fraction (HFREF)**

Vandan Panchal, Univ of Pennsylvania, Philadelphia, PA

Scott Akers, Philadelphia VAMC, Philadelphia, PA

---

**Concordant and Discordant Atrial and Ventricular Remodeling in Patients with Cardiac Resynchronization Therapy**

Isabelle C Van Gelder, Univ Medical Ctr Groningen, Groningen, Netherlands
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<tr>
<th>5053</th>
<th>Adiponectin Inhibits Maladaptive Cardiac Remodeling in Cardiac Disease by Increasing Matrix Metalloproteinase-9 Activity</th>
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<td></td>
<td><em>Alexander C Jenke</em>, Charite Univsmedizin Berlin, Berlin, Germany</td>
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<td>Carsten Skurk, Charite Univsmedizin Berlin, Berlin, Germany</td>
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<tr>
<th>5054</th>
<th>A Novel Role for Brown Adipose Tissue in Cardioprotection</th>
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<td></td>
<td><em>Robrecht Thoonen</em>, Massachusetts General Hosp, Boston, MA</td>
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<td>Marielle Scherrer-Crosbie, Massachusetts General Hosp, Boston, MA</td>
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<th>5055</th>
<th>Discordant Left Bundle Branch Block is Associated With Left Ventricular Dyssynchrony at Cardiac Magnetic Resonance Imaging in Patients With Nonischemic Cardiomyopathy</th>
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<tr>
<td></td>
<td><em>Alessandro Valleggi</em>, Fondazione Toscana Monasterio, Pisa, Italy</td>
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<td>Luigi Padeletti, Univ Di Firenze, Firenze, Italy</td>
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<tr>
<th>5056</th>
<th>Right Ventricular Global Longitudinal Strain Improves Diagnostic and Prognostic Assessment in Patients with Arrhythmogenic Right Ventricular Cardiomyopathy</th>
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<tr>
<td></td>
<td><em>Tetsuari Onishi</em>, Himeji Cardiovascular Ctr, Himeji, Japan</td>
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<td>Hiroya Kawai, Himeji Cardiovascular Ctr, Himeji, Japan</td>
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<tr>
<th>5057</th>
<th>Cardiomyocyte Overexpression of the Mitochondrial Sodium/Calcium Exchanger Increases Matrix Calcium Efflux and Preserves Cardiac Function in Mouse Models of Heart Failure</th>
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<td><em>Timothy S Luongo</em>, Temple Univ Sch of Med, Philadelphia, PA</td>
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<td>John W Elrod, Temple Univ Sch of Med, Philadelphia, PA</td>
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<th>5058</th>
<th>Cardioprotective Role of Ceruloplasmin in Heart Failure via Inhibition of Myeloperoxidase Activity</th>
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<tr>
<td></td>
<td><em>David J Kennedy</em>, Cleveland Clinic, Cleveland, OH</td>
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<td>W H Wilson Tang, Cleveland Clinic, Cleveland, OH</td>
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<th>5059</th>
<th>Cardioprotective Role of Paraoxonases in Heart Failure</th>
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<td><em>David J Kennedy</em>, Cleveland Clinic, Cleveland, OH</td>
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<th>5060</th>
<th>Late Systolic Central Hypertension as a Predictor of Incident Heart Failure: The Multi-Ethnic Study of Atherosclerosis</th>
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<td><em>Julio A Chininos</em>, Univ of Pennsylvania, Philadelphia, PA</td>
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<td>David R Jacobs, Sch of Public Health Univ of Minnesota, Minneapolis, MN</td>
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<th>5071</th>
<th>IL-18 a Powerful Activator of B-cells is Associated With Mortality in Acute Decompensated Heart Failure</th>
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<tr>
<td></td>
<td><em>Andrea M Cordero-Reyes</em>, The Methodist Hosp, Houston, TX</td>
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<td>Jerry D Estep, The Methodist Hosp, Houston, TX</td>
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<th>5072</th>
<th>Global Intracoronary Infusion of Allogeneic Cardiosphere-Derived Cells (CDCs) Immediately After Reperfusion Stimulates Myocyte Regeneration in Remote Viable Myocardium in Swine With Acute Myocardial Infarction</th>
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<td></td>
<td><em>Gen Suzuki</em>, Univ at Buffalo, Buffalo, NY</td>
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<td>John M Canty, Univ at Buffalo/VA WNY Healthcare System, Buffalo, NY</td>
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<th>5073</th>
<th>The NHLBI and Cardiovascular Cell Therapy Research Network (CCTRN) TIME Trial: Two-Year Results</th>
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<td></td>
<td><em>Jay H Traverse</em>, Minneapolis Heart Inst Fndn, Minneapolis, MN</td>
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<td>Robert D Simari, Kansas Univ Medical Ctr, Kansas City, KS</td>
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<th>Class II Major Histocompatibility Complex Transactivator (CIITA) Knockdown Prevents Immune Rejection of Allogeneic Bone Marrow Stem Cells in Cardiac Regeneration</th>
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<tr>
<td></td>
<td><em>Ana Ludke</em>, Toronto General Res Inst, Univ Health Network, Toronto, ON, Canada</td>
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<td>Ren-Ke Li, Toronto General Res Inst, Univ Health Network, Toronto, ON, Canada</td>
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<th>5075</th>
<th>Inhibition of GRK2 Prevents Cardiac Fibroblast-Mediated Maladaptive Ventricular Remodeling</th>
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<td><em>Jennifer L Philip</em>, Univ of Wisconsin, Madison, WI</td>
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<td>Shahab A Akhter, Univ of Wisconsin, Madison, WI</td>
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<th>5076</th>
<th>Ablation of Aryl Hydrocarbon Nuclear Translocator (ARNT) in the Heart Leads to Diabetic Cardiomyopathy Phenotype Through PPARα Activity</th>
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<tr>
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<td><em>Rongxue Wu</em>, Feinberg Cardiovascular Res Inst, Chicago, IL</td>
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<td>Hossein Ardehali, Feinberg Cardiovascular Res Inst, Chicago, IL</td>
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<th>5077</th>
<th>SIRT6 Blocks Differentiation of Cardiac Fibroblasts into Myofibroblasts by Inactivation of the TGFβ1 Signaling</th>
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<td><em>Mahesh P Gupta</em>, Univ Chicago, Chicago, IL</td>
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Abstract Poster Session

Cardiac Regeneration/Cellular Therapy: Experimental I

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
Marcello Rota, Boston, MA

5078 Protective Role of Fgf21 in Adverse Cardiac Remodeling After Myocardial Infarction
Yusuke Joki, Nagoya Univ Graduate Sch of Med, Nagoya, Japan
Noriyuki Ouchi, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

5079 Up-Regulation of Microrna-208b Contributes to Diabetic Myocardial Fibrosis in Mouse
Zhi Xin Shan, Guangdong General Hosp, Guangzhou, China
Shu lin Wu, Guangdong General Hosp, Guangzhou, China

5080 Dominant Negative 14-3-3 Protein Exacerbates Cardiac Dysfunction by Suppressing Cardiac Regeneration After Coronary Artery Ligation in Mice
Rajarajan Amirthalingam Thandavarayan, Houston Methodist DeBakey Heart and Vascular Ctr, Houston, TX
Prasanna krishnamurthy, Houston Methodist DeBakey Heart and Vascular Ctr, Houston, TX

5406 The Paracrine Factors Released From Mesenchymal Stem Cells Rejuvenate Cardiomyocytes Through Transfer of miRs and Regulation of Pten/ Akt Signaling Pathway
Bin Yu, Univ of Cincinnati Medical Ctr, Cincinnati, OH
Meifeng Xu, Univ of Cincinnati Medical Ctr, Cincinnati, OH

5407 Inducible Nitric Oxide Synthase Expression in Mesenchymal Stromal Cells Induces Immunomodulation but Enhances Tumorigenic Conversion in Allogenic Cell Sheet Transplantation for Rat Myocardial Infarction
Yukiko Imanishi, Graduate Sch of Med, Osaka Univ, Suita, Japan
Ari Harjula, Helsinki Univ Central Hosp, Helsinki, Finland

5408 NF-κB Activity is Required for Heart Regeneration
Ravi Karra, Duke Univ Medical Ctr, Durham, NC
Kenneth D Poss, Duke Univ Medical Ctr, Durham, NC

5409 CREG1 Interacts With Sec8 to Promote Cardiomyogenic Differentiation From Embryonic Stem Cells
Shaohua Li, Robert Wood Johnson Medical Sch, New Brunswick, NJ

5410 Left Ventricular Dysfunction Switches Cardiac Mesenchymal Stem/Stromal Cells Toward a Pro-Inflammatory Phenotype
Uri Amit, Tamman Cardiac Res Inst and Sheba Ctr for Regenerative Med, Stem Cells and Tissue Engineering, Tel-Aviv University, Sheba Medical Center, Israel
Jonathan Leor, Tamman Cardiac Res Inst and Sheba Ctr for Regenerative Med, Stem Cells and Tissue Engineering, Tel-Aviv University, Sheba Medical Center, Israel

5411 MicroRNA-377 Modulates Angiogenic Properties of Intramyocardially Transplanted Bone Marrow-Derived Progenitor Cells After Myocardial Infarction
Darukeshwara Joladarsahi, Houston Methodist Res Inst, Houston, TX
Prasanna Krishnamurthy, Houston Methodist Res Inst, Houston, TX

5412 Function of the Cytoskeletal Linker Proteins Alpha-Catenins in Cardiomyocytes Proliferation
Alexia Vite, Thomas Jefferson Univ, Philadelphia, PA
Glenn Radice, Thomas Jefferson Univ, Philadelphia, PA

5413 Wnt11 Over-expressing Mesenchymal Stem Cells Promote Cardiomyocyte Proliferation by Paracrine Signaling
Jingcai Wang, Univ of Cincinnati, Cincinnati, OH
Meifeng Xu, Univ of Cincinnati, Cincinnati, OH

5414 Very High Engraftment, Proliferation, and Therapeutic Potential of iPSC-Derived Cardiomyocytes
Shunsuke Funakoshi, Kyoto Univ, Kyoto, Japan
Yoshinori Yoshida, Ctr for iPSC Cell Res and Application,Kyoto university, Kyoto, Japan

5415 High Frequency Echocardiography and Speckle Tracking Based Strain Analysis Revealed Delayed Functional Recovery After Myocardial Cryoinjury in Adult Zebrafish
Selina Hein, Heidelberg Univ Hosp, Heidelberg, Germany
David Hassel, Heidelberg Univ Hosp, Heidelberg, Germany
Abstract Poster Session

**Cardiac Regeneration/Cellular Therapy: Experimental II**

South Hall A2 - Core 5

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Kenneth Fish, New York, NY

5426 **Glutathione-S-Transferase P Regulates Neovascularization in the Remodeling Heart via Effects on Endothelial Progenitor Cells and Reparative Monocytes**

Guihua Zhou, Univ of Alabama at Birmingham, Birmingham, AL

Sumanth D Prabhu, Univ of Alabama at Birmingham, and Birmingham VAMC, Birmingham, AL

5427 **The Histone Methyltransferase Smyd3 Regulates Cardiac Differentiation of Human Cardiac Progenitor Cells by Directly Regulating the Expression of Nkx2.5**

João D Pereira, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA

Annarosa Leri, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA

5428 **Patient and Cell Characteristics Associated With Clinical Outcomes in the CCTRN LateTIME Trial**

Aruni Bhatnagar, Univ of Louisville, Louisville, KY

Doris A Taylor, Texas Heart Inst, St Luke’s Episcopal Hosp, Houston, TX

5429 **Acute Inflammation is Required for Regenerative Response in the Neonatal Mouse Heart**

Chunyong Han, Fuwai Hosp, Beijing, China

Shengshou Hu, Fuwai Hosp, Beijing, China

5430 **Evidence for Circulating Stem Cells Derived from the Human Heart and Their Therapeutic Potential**

Han-Mo Yang, Seoul Nati Univ Hosp, Seoul, Republic of Korea

Hyo-Soo Kim, Seoul Nati Univ Hosp, Seoul, Republic of Korea

5431 **Effect of the Stress by Supercooling on Cell Proliferation and Immunogenicity of Transplanted Human Induced Pluripotent Stem (iPS) Derived Cardiomyocytes**

Hisashi Moriguchi, Oak Clinic Group, Osaka, Japan

5432 **MicroRNA 1825 Acts as a Master Regulator Inducing Proliferation of Adult Cardiomyocytes and Regenerates Ischemic Myocardium**

Raghav Pandey, Univ of Cincinnati, Sch of Med, Cincinnati, OH

Rafeeq PH Ahmed, Univ of Cincinnati, Sch of Med, Cincinnati, OH

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Abstract Poster Session

**Cardiac Rhythm Devices: Implant and Explant Considerations**

South Hall A2 - Core 4

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Jude Clancy, New Haven, CT

4297 **Incidence and Predictors of Peri-procedure Complications with Transvenous Lead Extractions in the Real World: Data from NCDR ICD Registry**

Nitesh Sood, Southcoast Health System, Fall River, MA

Rachel Lampert, Yale Univ Sch of Med, New Haven, CT

4298 **Use of Real-Time Transesophageal Echocardiography to Improve Safety of Lead Extraction**

Brett Oestreich, Univ of Colorado Hosp, Aurora, CO

Ryan Aleong, Univ of Colorado Hosp, Aurora, CO

4299 **Coronary Sinus Lead Extraction_Laser Required**

Erin A Fender, Oregon Health and Science Univ, Portland, OR

Charles A Henrikson, Oregon Health and Science Univ, Portland, OR

4300 **Complications with Cardiac Perforation and Lead Dislodgement of the 5086 MRI Pacing Lead**

Jin Hee Choi, Asan medical center, Seoul, Republic of Korea

You-Ho Kim, Asan medical center, Seoul, Republic of Korea
Monday, November 17  •  Chicago, Illinois

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**Abstract Poster Session**

**Cardiorenal Physiology/Pathophysiology I**

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**Board #**

**Poster Professor:**
Nobuhira Hagiwara, Tokyo, Japan

**7449**

**Frequency and Distribution of Hemodialysis (HD)-Associated Atrial Fibrillation: Preliminary Results of the (MiD) Study**
Alexandru I Costea, Univ of Cincinnati, Cincinnatti, OH
James A Tumin, Chattanooga, TN

**7450**

**The Fractional Excretion of Urea is Substantially Altered by Diuretics in Heart Failure Patients: Implications for its Use in the Evaluation of Worsening Renal Function**
Susan J Cheng, Yale Sch of Med, New Haven, CT
Jeffrey M Testani, Yale Sch of Med, New Haven, CT

**7451**

**PDEV Inhibition + BNP Administration Enhanced the Cardiac but not the Renal Response to Acute Volume Overload in Human Preclinical Diastolic Dysfunction as Compared to PDEV Inhibition Alone**
Isabel Torres-Courchoud, Mayo Clinic, Rochester, MN
Horng H Chen, Mayo Clinic, Rochester, MN

**7452**

**Impairment of the Compensatory Natriuretic Peptide Response to Myocardial Infarction in the Aged is Associated With Adverse Cardiorenal Repair and Heart Failure**
S Jeson Sangaralingham, Mayo Clinic, Rochester, MN
John C Burnett, Mayo Clinic, Rochester, MN

**7453**

**Interpretation of Diastolic Function in Hemodialysis Patients: The Importance of a Load Independent Index of Left Ventricular Diastolic Compliance**
Ruth F Dubin, UC San Francisco, San Francisco, CA
Sanjiv J Shah, Northwestern Univ Feinberg Sch of Med, Chicago, IL

**7454**

**Obesity and Prognosis of Patients on Hemodialysis and After Renal Transplantation**
José de Lima, Heart Inst (InCor) Hosp das Clinicas Univ of São Paulo Medical Sch, São Paulo, Brazil
Luiz A Bortolotto, Heart Inst (InCor) Hosp das Clinicas Univ of São Paulo Medical Sch, São Paulo, Brazil

**7455**

**Febuxostat - A Xanthine Oxidase Inhibitor - May Improve Cardiorenal Interaction: A Randomized Controlled Pilot Study**
Shigemasa Tani, Nihon Univ Hosp, Tokyo, Japan
Atsushi Hirayama, Nihon Univ Hosp, Tokyo, Japan

**7456**

**MicroRNAs Mediate the Protective Effect of Angiotensin Converting Enzyme Inhibition (ACEI) on the Heart in Rat Model of Acute Kidney Injury**
Indrajeet Rana, Federation Univ Australia, Ballarat, Australia
Fadi J Charchar, Federation Univ Australia, Ballarat, Australia

**7457**

**Hyperamylinemia, a Potential Therapeutic Target in Diabetic Cardiorenal Syndrome**
Sarah Srodulski, Univ of Kentucky, Lexington, KY
Florin Despa, Univ of Kentucky, Lexington, KY
**Monday AM**

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<td>Prevention of Contrast-Induced Nephropathy by Oxygen Preconditioning in Patients With Impaired Renal Function</td>
<td>Haruki Sekiguchi, Natl Hosp Organization Yokohama Medical Ctr, Yokohama, Japan Nobuhisa Hagiwara, Tokyo Women’s Medical Univ, Tokyo, Japan</td>
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<td>7459</td>
<td>Coronary Artery Disease is a Predictor of Progression to Dialysis in Patients With Chronic Kidney Disease, Type 2 Diabetes, and Anemia: An Analysis of the TREAT Trial</td>
<td>Marwa A Sabe, Cleveland Clinic Fndn, Cleveland, OH Marc A Pfeffer, Brigham and Women’s Hosp, Boston, MA</td>
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<td>7460</td>
<td>End-Stage Renal Disease Associated With Metabolic Syndrome: A Study of Biomarkers Relevant to Cardiovascular Risk</td>
<td>Jawed Fareed, Loyola Univ Medical Ctr, Maywood, IL Syed Ahmd, Loyola Univ Medical Ctr, Maywood, IL</td>
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### Abstract Poster Session

#### APS.801.03

**Case Studies in Complex Arrhythmia Management**

**South Hall A2 - Core 5**

**Posters Displayed:** 9:00 AM - 5:00 PM  
**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Mark E Josephson, Boston, MA

| 8020 | Safety of Cryoablation of Atrial Fibrillation in the Presence of Mechanical Mitral Valve | Srinivas Rajeshker, Univ of Cincinnati, Cincinnati, OH Mehran Attari, Univ of Cincinnati, Cincinnati, OH |
| 8021 | Intraoperative Electroanatomical Mapping and Histopathological Examination Revealed Mechanism of Monomorphic Ventricular Tachycardia associated with Primary Cardiac Tumor | Hiroshige Murata, Nippon Medical Sch, Tokyo, Japan Wataru Shimizu, Nippon Medical Sch, Tokyo, Japan |
| 8022 | Intra-Hisian Complete Heart Block is Often due to Localized Disease in Main His Bundle: Proof of Concept by Electrophysiological Observations during Transient HV Block at the time of Permanent His Bundle Pacing | Pugazhendhi Vijayaraman, Geisinger Wyoming Valley Medical Ctr, Wilkes Barre, PA John Miller, Indiana Univ Medical Ctr, Indianapolis, IN |

**APS.801.04**

**Case Studies Using Multimodality Cardiac Imaging**

**South Hall A2 - Core 5**

**Posters Displayed:** 9:00 AM - 5:00 PM  
**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Pamela S Douglas, Durham, NC

| 8011 | Sirolimus Stents, Late Incomplete Stent Malapposition, in Stent Restenosis, Oh My-Glagov’s Phenomenon Revisited | Jonathan E Feig, Mount Sinai Medical Ctr, NY, NY Daniel E Soffer, Mount Sinai Medical Ctr, NY, NY |
8012  Traumatic Acute Myocardial Infarction Following Blunt Chest Trauma
Nazila Naderi, Univ of Texas Health Science Ctr
San Antonio, San Antonio, TX
Marvin Eng, Univ of Texas Health Science Ctr
San Antonio, San Antonio, TX

8013  A Rare Case of Primary Cardiac Leiomyosarcoma Involving the Left Ventricle
Haz D Khalid, Univ of Illinois at Urbana-Champaign, Urbana, IL
Sarwar Orakzai, Carle Frnd Hosp, Urbana, IL

8014  Malignant Melanoma Presenting as a Cardiac Tumor
Rachit Shah, Virginia Commonwealth Univ, Richmond, VA
J V (Ian) Nixon, Virginia Commonwealth Univ, Richmond, VA

8015  Unusual Manifestation of Eosinophilic Granulomatosis with Polyangiitis: Diffuse Intracardiac Thrombi Mimicking Hypereosinophilic Syndrome and Antineutrophil Cytoplasmic Antibody-negative Angioneocrotic Glomerulonephritis
Yuichi Saito, Chiba Univ Graduate Sch of Med, Chiba, Japan
Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

8016  Recurrent Spontaneous Coronary Artery Dissection Treated Medically
Toufik Mahfood Haddad, Creighton Univ Medical Ctr, Omaha, NE
Mark J Holmberg, Creighton Univ Medical Ctr, Omaha, NE

8017  Multiple Infective Coronary Arteritis Complicated with Bacterial Pericarditis
Nobusada Funabashi, Chiba Univ Graduate Sch of Med, Chiba, Japan
Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

8018  A Case Series Assessing the Suitability of Treatment with Apixaban Based on Renal Function
Julliana Newman, Bristol-Myers Squibb, Mulgrave, VIC, Australia
Frank Rhodes, Moorabbin Clinic, Moorabbin, VIC, Australia

8019  Supracardiac Type (1a) Total Anomalous Pulmonary Venous Return with Right to Left Shunt Atrial Septal Defect Diagnosed by 320 Slice CT
Nobusada Funabashi, Chiba Univ Graduate Sch of Med, Chiba, Japan
Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

Abstract Poster Session

Catheter Ablation: Lesion Science
South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
John L Sapp, Halifax, NS, Canada

Insulated Radiofrequency Ablation Catheter Janice V Huang, Univ of Colorado Denver Health Sciences Ctr, Aurora, CO
Duy T Nguyen, Univ of Colorado Denver Health Sciences Ctr, Aurora, CO

Atrial Rhythm Influences Catheter Tissue Contact During Radiofrequency Ablation of Atrial Fibrillation
Hisao Matsuda, Campus Virchow Clinic, Charité-Univers Med, Berlin, Germany
Leif-Hendrik Boldt, Campus Virchow Clinic, Charité-Univers Med, Berlin, Germany

Durability of Linear Ablation Lesions and Their Relationship With Clinical Recurrence After Left Atrial Catheter Ablation in Patients With Persistent Atrial Fibrillation: Focused on Redo-Ablation Findings
Junbeom Park, Yonsei Univ Severance Hosp, Seoul, Republic of Korea
Hui-Nam Pak, Yonsei Univ Severance Hosp, Seoul, Republic of Korea

Radiofrequency Ablation With Electrode in Contact With Circular Mapping Catheter: Coagulation, Char, and Pop Occurrence Comparison With Two Types of Irrigated Ablation Catheters
Carlos Oberti, Cleveland Clinic Fndn, Cleveland, OH
Wald Saliba, Cleveland Clinic Fndn, Cleveland, OH

How much Reduction of Radiation Exposure is Feasible in Ablation Procedures Without Affecting the Outcome? a Single Center Study on Cryoballoon Ablation in Paroxysmal Atrial Fibrillation
Georg Nölker, Heart and Diabetes Ctr North Rhine-Westphalia, Ruhr Univ Bochum, Bad Oeynhausen, Germany

Permanence of Pulmonary Vein Isolation Using Cryoballoon Observed in Repeat Left Atrial Ablation
Albert Chiu, Banner Good Samaritan Medical Ctr, Phoenix, AZ
Wilber Su, Banner Good Samaritan Medical Ctr, Phoenix, AZ

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Ablation of Paroxysmal Atrial Fibrillation Applying an Improved Cryoballoon: is Reduction of Freezing Time Possible? Georg Nölker, Heart and Diabetes Ctr North Rhine-Westphalia, Ruhr Univ Bochum, Bad Oeynhausen, Germany Klaus-Jürgen Gutleben, Heart and Diabetes Ctr North Rhine-Westphalia, Ruhr Univ Bochum, Bad Oeynhausen, Germany

Determination of Maximum Isotherm to Achieve Conduction Block During Cryoablation Karoly Kaszala, Hunter Holmes McGuire VAMC, Richmond, VA Kenneth A Ellenbogen, Virginia Commonwealth Univ, Richmond, VA

VisiTag as a New Promising Index of Optimal Lesion Formation During Atrial Fibrillation Ablation with Adequate Contact Force Masao Kimura, Hirosaki Univ Graduate Sch of Med, Hirosaki, Japan Ken Okumura, Hirosaki Univ Graduate Sch of Med, Hirosaki, Japan

Impact of Direct Contact Force Measurement on Electrical Reconnections after Circumferential Pulmonary Vein Isolation for Atrial Fibrillation Using a Contact Force-Sensing Catheter Kohki Nakamura, Gunma Prefectural Cardiovascular Ctr, Maebashi, Japan Shigeru Oshima, Gunma Prefectural Cardiovascular Ctr, Maebashi, Japan

Cell, Tissue Engineering and Gene-Based Therapies II

Self-Complementary AAV9 Provides No Advantage Over Single-Stranded AAV9 in shRNA Knockdown of Ubiquitously Expressed GFP in Heart or Liver after Systemic Delivery Brent A French, Univ of Virginia, Charlottesville, VA

A Novel Method to Therapeutic Angiogenesis by Sustained Release of Basic Fibroblast Growth Factor Using Biodegradable Gelatin Hydrogel Sheet in a Canine Chronic Myocardial Infarction Model Motoyuki Kumagai, Cardiovascular Surgery, Kyoto Univ Graduate Sch of Med, Kyoto, Japan Ryuzo Sakata, Cardiovascular Surgery, Kyoto Univ Graduate Sch of Med, Kyoto, Japan

Ultrastructural Features of Ischemic Tissue Following Application of a Bio-membrane Based Progenitor Cardiomyocyte Patch for Myocardial Infarction Repair Dehua Chang, Univ of Cincinnati, Cincinnati, OH Yigang Wang, Univ of Cincinnati, Cincinnati, OH

Implantation of Scaffold-Free Tubular Tissue Using a Bio-3D Printer Augments Vascular Remodeling and Endothelialization Manabu Itoh, Saga Univ, saga, Japan Shigeki Morita, Saga Univ, saga, Japan

Critical Role of miR-181 Family During Oxidative Stress in Heart Samarjit Das, Johns Hopkins Univ, Baltimore, MD Charles Steenbergen, Johns Hopkins Univ, Baltimore, MD

Epicardial Infarct Repair with a Novel Biologic Extracellular Matrix Improves Infarct Healing: Preclinical Validation Holly EM Mewhort, Univ of Calgary, Calgary, AB, Canada Paul WM Fedak, Univ of Calgary, Calgary, AB, Canada

A Novel Role of Autophagy in the Regulation of Endothelial to Mesenchymal Transition Krishna K Singh, St Michaels Hosp, Toronto, ON, Canada Subodh Verma, St Michaels Hosp, Toronto, ON, Canada

A Promising Highly Sensitive and Quantitative Assays of Tumorigenicity Essential for Facilitating Safety Studies of Human Induced Pluripotent Stem Cells -derived Cardiomyocytes for Future Therapeutic Application Emiko Ito, Osaka Univ, Suita, Japan Yoshi Sawa, Osaka Univ, Suita, Japan

Development of Functional Tissue-engineered Artificial Cardiac Construct using Human Induced Pluripotent Stem Cells; Optimizing the Cell Components to Mimic Cardiac Tissue Hiroko Isaoaka, Osaka Univ, Osaka, Japan Yoshi Sawa, Osaka Univ, Osaka, Japan

Hax1 Overexpression Promotes Sca1+ Cardiac Stem Cell Proliferation and Protects Against Hypoxia-induced Apoptosis Wen-Feng Cai, Univ of Cincinnati, Cincinnati, OH Yigang Wang, Univ of Cincinnati, Cincinnati, OH
### Monday AM

**Abstract Poster Session**

**APS.302.02h**

**Cellular and Molecular Regulation of Cardiac Development**

**South Hall A2 - Core 3**

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Jamie L Lohr, Minneapolis, MN

3046 **Inferring Dynamic Gene-microRNA Regulatory Networks in Cardiac Differentiation by Integrating Multi-Dimensional Data**

Wuming Gong, Univ of Minnesota, Minneapolis, MN

Daniel J Garry, Univ of Minnesota, Minneapolis, MN

3047 **Identification of Cardiovascular Lineage Descendants at Single Cell Resolution**

Guang Li, Cardiovascular Inst, Stanford, CA

Sean M Wu, Cardiovascular Inst, Stanford, CA

3048 **Regulation of Cardiac Regeneration by Hippo Pathway and Dystrophin Glycoprotein Complex**

Yuka Morikawa, Texas Heart Inst, Houston, TX

James F Martin, Baylor Coll of Med, Houston, TX

3049 **miR-322/503 Cluster Drives Cardiac Differentiation by Inhibiting CUG-binding Protein 1**

Xiaopeng Shen, Univ of Houston, Houston, TX

Yu Liu, Univ of Houston, Houston, TX

3050 **miRNA-Hippo Pathway Plays a Critical Role in the Cardiac Conduction System**

Jun Wang, Baylor Coll of Med, Houston, TX

James Martin, Baylor Coll of Med, Houston, TX

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**Abstract Poster Session**

**APS.402.01**

**Cellular Electrophysiology and Excitation-Contraction Coupling I**

**South Hall A2 - Core 4**

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Mohamed Boutjdir, Brooklyn, NY

4021 **Genetically Engineered Stem Cell-Derived Model for Therapeutic Discovery in Long QT Syndrome**

Jordan S Leyton-Mange, Massachusetts General Hosp, Boston, MA

David J Milan, Massachusetts General Hosp, Boston, MA

4022 **Distinct Patterns of Ca2+ Cycling Protein Abundance and Phosphorylation Level Facilitate Robust and Rhythmic Local Ca2+ Releases to Regulate Spontaneous Beating of Cardiac Pacemaker Cells**

Tatiana M Vinogradova, Natl Inst on Aging, Baltimore, MD

Edward G Lakatta, Natl Inst on Aging, Baltimore, MD

4023 **iPSC-derived Cardiomyocytes From a Patient With Hypertropic Cardiomyopathy Exhibit Impaired SR Ca Handling but No Change in Cytosolic Buffering Properties**

Hyun Seok Hwang, Vanderbilt Univ, Nashville, TN

Bjorn C Knollmann, Vanderbilt Univ, Nashville, TN

4024 **Heterozygous Knock-out of Rydnoide Receptor 2 in Rabbits Produces Haploinsufficiency in the Absence of Compensatory Remodeling of the Heart Francisco J Alvarado, Univ of Michigan, Ann Arbor, MI

Hector H Valdivia, Univ of Michigan, Ann Arbor, MI

4025 **Spontaneous Post Myocardial Infarction Arrhythmia is Potentiated by Calcium Alternans in Type I Diabetic Akita Mice Hongwei Jin, Tufts Medical Ctr, Boston, MA

Jonas Galper, Tufts Medical Ctr, Boston, MA

4026 **Human Cardiac Fibroblasts Speed Up Calcium Transient Decline and Prolong Action Potential Duration in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes by a Mechanism That Requires Direct Physical Interaction**

Christopher Kane, Imperial Coll London, London, United Kingdom

Cesare M Terracciano, Imperial Coll London, London, United Kingdom

4027 **Ionic Current Remodeling Delays the Electrical Recovery of the Senescent Heart**

Sergio Signore, Brigham and Women's Hosp-Harvard Medical Sch, Boston, MA

Marcello Rota, Brigham and Women's Hosp-Harvard Medical Sch, Boston, MA

4028 **Electrophysiological Characteristics and Transcriptional Profiles in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes During a Long-Term Culture**

Yuta Yamamoto, Kyoto Univercity Graduate Sch of Med, Kyoto, Japan

Takeshi Kimura, Kyoto University Graduate Sch of Med, Kyoto, Japan

4029 **Role of the Fast Transient Outward Current Ito,f in Shaping Action Potential Waveforms in Human iPSC-derived Cardiomyocytes**

Scott Marrus, Washington Univ Sch of Med, Saint Louis, MO

Jeanne Nerbonne, Washington Univ Sch of Med, Saint Louis, MO

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Abstract Poster Session

APS.601.01

Challenges in Antiplatelet Therapy for PCI

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Robert P Giugliano, Boston, MA

6001 Safety and Efficacy of Triple versus Dual Anti-Platelet Therapy after Stent Implantation in Patients Requiring Chronic Anticoagulation: a Meta-analysis of Observational Studies

Chirag Bavishi, Mount Sinai St Luke’s Hosp, New York, NY
Jacqueline E Tamis-Holland, Mount Sinai St Luke’s Hosp, New York, NY

6002 Comparison of Aspirin and Clopidogrel Therapy With Clopidogrel Alone Use Following Coronary Stent Implantation in Patients With Acute Myocardial Infarction

Jin Sup Park, Pusan Natl Univ Hosp, Busan, Republic of Korea
Taek Jong Hong, Pusan Natl Univ Hosp, Busan, Republic of Korea

6003 Prognostic Impacts, Predictors and Genetic Determinants of High On-treatment Platelet Reactivity to Aspirin and Clopidogrel and in Patients Undergoing Elective PCI in Japanese Population

Keiko Fukino, New Tokyo Hosp, Chita, Japan
Sunao Nakamura, New Tokyo Hosp, Chita, Japan

6004 Is It Safe Placing a Drug Eluting Stent in Patients Requiring Long-term Anticoagulation?

Antonia Sambola, Univ Hosp Vall d’Hebron, Barcelona, Spain
David García-Dorado, Univ Hosp Vall d’Hebron, Barcelona, Spain

6005 Impact of Ticagrelor Re-Load on Pharmacodynamic Profiles in Patients on Maintenance Ticagrelor Therapy

Jung Rae Cho, Univ of Florida - Jacksonville, Jacksonville, FL
Dominick J Angiolillo, Univ of Florida - Jacksonville, Jacksonville, FL

Abstract Poster Session

APS.216.01

Clinical and Hospital-Based Observational Studies: Anticoagulation, Valves and Vessel

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
John Ikonomidis, Charleston, SC

2700 Novel Genotype Guided Personalized Warfarin Service Improves Outcomes in an Ethnically Diverse Population

Edith Nutescu, Univ of Illinois at Chicago, Chicago, IL
Larisa Cavallari, Univ of Florida, Chicago, IL
2701 Bridging Therapy in Oral Anticoagulation
Jürgen H Prochaska, Univ Medical Ctr Mainz, Johannes Gutenberg Univ Mainz, Mainz, Germany
Philipp S Wild, Univ Medical Ctr Mainz, Johannes Gutenberg Univ Mainz, Mainz, Germany

2702 A Better Personalized Prediction for International Normalized Ratio Levels in Inpatients Receiving Warfarin
Yao Zhao, Rutgers Univ, Newark, NJ
Kathleen Hickey, Columbia Univ, New York, NY

2703 Total Burden of Out-of-Pocket Costs for Penicillin Prophylaxis for Rheumatic Heart Disease in India: Results From the AIIMS Pediatric RHD Registry
Anurag Mehta, All India Inst of Medical Sciences, New Delhi, India
Dhruv S Kazi, Univ of California San Francisco, San Francisco, CA

2704 Low-intensity Anticoagulant Treatment in Chinese Patients with Mechanical Heart Valve Prostheses: Early Outcomes of a Prospective, Multicenter Registry in China
Jia Hu, West China Hospital, Sichuan University, Chengdu, China
Li Dong, West China Hospital, Sichuan University, Chengdu, China

2705 Carotid Artery Stenting and Carotid Endarterectomy are Comparable Among Medicare Beneficiaries Treated in Routine Clinical Practice
Jessica J Jalbert, Brigham and Women's Hosp/ Harvard Medical Sch, Boston, MA
Soko Setoguchi, Duke Clinical Res Inst, Durham, NC

2706 Potential Heterogeneity in the Performance of Carotid Artery Stenting Relative to Carotid Endarterectomy Among Subgroups of Medicare Beneficiaries in Routine Clinical Practice
Jessica J Jalbert, Brigham and Women's Hosp/ Harvard Medical Sch, Boston, MA
Soko Setoguchi, Duke Clinical Res Inst, Durham, NC

2707 Screening of Abdominal Aortic Aneurysm during Transhiatal Echocardiography
Takao Kato, The Tazuke Kofukai Medical Reseach Inst, Kitano Hosp, Osaka, Japan
Moriak Inoko, The Tazuke Kofukai Medical Reseach Inst, Kitano Hosp, Osaka, Japan

2708 Emerging Prognostic Factors in Patients with Aortic Stenosis - A Report from the CHART-2 Study
Kenjiro Sato, Tohoku Univ Graduated Sch of Med, Sendai, Japan
Hiroaki Shimokawa, Tohoku Univ Graduated Sch of Med, Sendai, Japan

2709 Outcomes of Medical Treatment for Aortic Stenosis in Japan
Eri Minamino, The Tazuke Kofukai Medical Reseach Inst, Kitano Hosp, Osaka, Japan
Moriak Inoko, The Tazuke Kofukai Medical Reseach Inst, Kitano Hosp, Osaka, Japan
Monday, November 17  •  Chicago, Illinois

2716  A Drop in Admission Serum Creatinine is Prognostically Similar to a Rise in Admission Serum Creatinine in Hospitalized Medicare Beneficiaries with Heart Failure: Impact on 30-Day All-Cause Readmission
Mohammed Siddiqui, Univ of Alabama at Birmingham, Birmingham, AL
Ali Ahmed, Univ of Alabama at Birmingham, Birmingham, AL

2717  Inverse Association between Family History of Premature Coronary Artery Disease and the Risk of Death in Patients with Coronary Artery Disease
Ahmed Abd Al, Univ of Calgary, Calgary, AB, Canada
Stephen B Wilton, Univ of Calgary, Calgary, AB, Canada

2718  The Circadian Decline Rate of Blood Pressure is Closely Associated With Cardiovascular Diseases in Patients With Essential Hypertension
Gang Wang, the Second Affiliated Hosp, Xi’an, China

2719  Effects of Obstructive Sleep Apnea on In-Hospital Mortality in Patients With Myocardial Infarction
Mahdi Khoshchehreh, Univ of California, Irvine, CA
Shaista Malik, Univ of California, Irvine, Orange, CA

Abstract Poster Session

APS.408.01
Clinical Cardiac Arrest Outcomes and Care Processes
South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

4334  Hemodynamic Variables and Vasopressor Support After Out-of-hospital Cardiac Arrest: Associations With 1-year Neurologic Outcome
Johanna Laurikkala, Helsinki Univ Hosp, Helsinki, Finland
Finnresuscsci Investigators

4335  How Much Exposure to Resuscitation Do Emergency Medical Service Personnel Get?
Kylie Dyson, Monash Univ, Melbourne, Australia
Finn Judith, Curtin Univ, Bentley, Australia

4336  Optimal Targeted Temperature in Comatose Survivors After Cardiac Arrest Treated With Extracorporeal Cardiopulmonary Resuscitation
Eisuke Kagawa, Hiroshima City Asa Hosp, Hiroshima, Japan
Finnresuscsci Investigators

4337  Disparities in Care After Establishment of DNR in Female Survivors of Cardiac Arrest
Sarah M Perman, Univ of Colorado Sch of Med, Aurora, CO

WITHDRAWN

4338  Delayed Recognition of Cardiac Arrest in Emergency Medical Dispatch - Best Source of Key Information for System Improvement?
Camilla Hardeland, Univ of Oslo, 0318 Oslo, Norway
Theresa M Olasveengen, Oslo Univ Hosp, 0424 Oslo, Norway

4339  Sports-Related Sudden Cardiac Arrest: Comparison of Survival Outcomes in Europe versus the United States
Eloi Marijon, European Georges Pompidou Hosp, Paris, France
Sumeet S Chugh, Cedars-Sinai Medical Ctr, Los Angeles, CA

4340  Effect of Gender on Hospital Discharge Survival After an Out-of-hospital Cardiac Arrest - a Systematic Review and Meta-analysis
Wulfran Bougouin, Cochin Hosp, Paris, France
Xavier Jouven, Pompidou Hosp, Paris, France

4341  Comparative Effectiveness of Stacked versus Single Shock Therapy for In-Hospital Cardiac Arrest: Insights from the Get with the Guidelines-Resuscitation Registry
Steven M Bradley, VA Eastern Colorado Health Care System and Univ of Colorado Sch of Med, Denver, CO
P Michael Ho, VA Eastern Colorado Health Care System and Univ of Colorado Sch of Med, Denver, CO
Abstract Poster Session

APS.406.04

Complications of Catheter Ablation

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Riccardo Cappato, San Donato Milanese, Italy

4252 Predictors of Silent Cerebral Events Detected on Magnetic Resonance Imaging in Patients After Atrial Fibrillation Ablation
Thomas Denke, Heart Ctr Bad Neustadt, Bad Neustadt, Germany
Anja Schadle, Heart Ctr Bad Neustadt, Bad Neustadt, Germany

4253 Neurocognitive Function and Silent Cerebral Thromboembolii Following Atrial Fibrillation Catheter Ablation
Mohammed Qintar, Cleveland Clinic Fndn, Lakewood, OH
Mina Chung, Cleveland Clinic Fndn, Lakewood, OH

4254 “The Left Main Coronary Artery - A Potential Hazard During Ablation of Left Atrial and Outflow Tract Arrhythmias”
Katie A Walsh, Cork Univ Hosp, Cork City, Ireland
Gerard J Fahy, Cork Univ Hosp, Cork City, Ireland

4255 Unusually High Incidence of Dressler’s Syndrome After Hybrid Ablation for Atrial Fibrillation
Tina C Sichrovsky, Valley Hosp, Ridgewood, NJ
Jonathan S Steinberg, Valley Hosp, Ridgewood, NJ

4256 Incidence and Characteristics of Pulmonary Vein Stenosis Following Catheter Ablation of Atrial Fibrillation: Insights From the Contemporary Multicenter ADVICE Trial
Sophie Gomes, Montreal Heart Inst, Montreal, QC, Canada
Laurent Macle, Montreal Heart Inst, Montreal, QC, Canada

4257 Intracardiac Echo Findings Post Atrial Fibrillation Ablation Are an Important Predictor of Late Pericardial Effusion
Luigi Di Blase, Albert Einstein Coll of Med at Montefiore Hosp And Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr, New York and Austin, TX
Andrea Natale, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr, Austin, TX

4258 Phrenic Nerve Injury Despite High-Output Pacing in Patients Undergoing Radiofrequency Catheter Ablation of Atrial Fibrillation
Brett Izzo, Univ Of Michigan, Ann Arbor, MI
Aman Chugh, Univ Of Michigan, Ann Arbor, MI

4259 Analysis of the Primary Factor which Predicts the Incidence of Esophagus Ulceration Observed After Radiofrequency Catheter Ablation of Atrial Fibrillation
Miwa Ito, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

4260 Impact of Age on Safety of Radiofrequency Ablation in Patients With Atrial Fibrillation
Janet W Elcano, Yonsei Severance Hosp, Seoul, Republic of Korea
Hui Nam Pak, Yonsei Severance Hosp, Seoul, Republic of Korea

4261 Time Trends, Mortality and Complications Associated With Cardiac Catheter Ablation: A New Jersey Statewide Study From 1998 to 2012
Marinos A Charalambous, Rutgers Robert Wood Johnson Medical Sch, New Brunswick, NJ
Study Group For the Myocardial Infarction Data Acquisition System (MIDAS)

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Abstract Poster Session

APS.106.01

Computed Tomography: Coronary Artery Clinical Trials

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Arthur Stillman, Atlanta, GA

1186 Cost-effectiveness of Different Strategies for the Diagnosis of Stable Coronary Artery Disease: Results from the Evinci Study
Danilo Neglia, CNR, Inst of Clinical Physiology & Fondazione Toscana G Monasterio, Pisa, Italy
The EVINCI Investigators

1187 Lipoprotein Sub-fractions by Ion Mobility Analysis Association with Burden of Subclinical Coronary Atherosclerosis in a High Risk Population: the Baptist Employee Healthy Heart Study (BEHHS)
Ehimen Aneni, Baptist Health South Florida, Miami, FL
Khurram Nasir, Baptist Health South Florida, Miami, FL

1188 Quantitative Coronary Plaque Analysis on Coronary Computed Tomography Can Detect High-Risk Plaque Characteristics Associated with Acute Coronary Syndrome - Results from the ROMICAT II Trial
Maros Ferencik, Oregon Health and Science Univ, Portland, OR
Udo Hoffmann, Massachusetts General Hosp and Harvard Medical Sch, Boston, MA
1190  Distribution and Burden of New Onset Coronary Artery Calcium (CAC): An Age, Gender, and Race/Ethnicity-Based Analysis From the Multi-Ethnic Study of Atherosclerosis (MESA)
Krishna Alluri, Johns Hopkins Medical Insts, Baltimore, MD
Michael J Blaha, Johns Hopkins Medical Insts, Baltimore, MD

1191  Clinical Prediction Risk Scores Systematically Underestimate the Presence and Extent of Subclinical Atherosclerosis in Brazilian Women: The Brazilian Study of Longitudinal Health (ELSA-Brasil)
Marcio S Bittencourt, Univ Hosp - Univ of São Paulo, São Paulo, Brazil
Paulo A Lotufo, Univ Hosp - Univ of São Paulo, São Paulo, Brazil

1192  Coronary Artery Calcium and Risk of Atrial Fibrillation in the Multi-Ethnic Study of Atherosclerosis
Wesley T O’Neal, Wake Forest Sch of Med, Winston Salem, NC
Elsayed Z Soliman, Wake Forest Sch of Med, Winston Salem, NC

1193  Diabetics With Acute Chest Pain Have Similar Length of ED Stay From Early CCTA Compared to Standard Evaluation but More Downstream Testing and Radiation Exposure: The ROMICAT II Trial
Quynh Truong, New York Presbyterian Hosp and Weill Cornell Medical Coll, New York, NY
Pamela K Woodard, Washington Univ Sch of Med, St Louis, MO

1194  Left Atrial Structure and Function and Cardiovascular Events in Patients With Diabetes Mellitus: Results From Multi-Ethnic Study of Atherosclerosis (MESA)
Timothy M Markman, Johns Hopkins Hosp, Baltimore, MD
João A Lima, Johns Hopkins Hosp, Baltimore, MD

1195  Association of Cardiovascular Risk Factors and Myocardial Fibrosis with Early Cardiac Dysfunction in Type 1 Diabetes Mellitus: The Diabetes Control and Complications Trial (DCCT) and the Epidemiology of Diabetes Interventions and Complications (EDIC) Study
Anderson C Armstrong, Johns Hopkins Univ, Baltimore, MD
João A Lima, Johns Hopkins Univ, Baltimore, MD

Abstract Poster Session
Cardiovascular Symptoms

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Board #

2128  The Associations Between Symptom Clusters and Quality of Life Trends Following Coronary Artery Bypass Surgeries in Taiwan
Ming Fen Tsai, Chang Gung Univ of Science and Technology, Taoyuan, Taiwan
Tsuey-Yuan Huang, Chang Gung Univ of Science and Technology, Taoyuan, Taiwan

2129  Caregiver Symptoms and Burden 3 Weeks and 3 Months After Their Spouse’s Cardiac Surgery
Paula Schulz, Univ of Nebraska Medical Ctr, Lincoln, NE
Sue Barnason, Univ of Nebraska Medical Ctr, Lincoln, NE

2130  Knowling and Going: the Perfect Combination for Women Experiencing Symptoms of Acute Coronary Syndrome
Leslie L Davis, Univ of North Carolina, Greensboro, NC

2131  How Does the Symptom Experience Differ From Patient’s Expectations of What Having a Heart Attack is Like?
Janet E Bray, Monash Univ, Melbourne, Australia
Judith Finn, Monash Univ, Melbourne, Australia

2132  Impact of Dyspnea: From Validity Indices to the Clinical Utility of the French-canadian Version of the Modified Dyspnea Index
Michel Dore, Ctr de Recherche de L’Inst Univire de Cardiologie et de Pneumologie de Québec (CRIUCPQ), Quebec, QC, Canada
Céline Gélinas, McGill Univ, Montreal, QC, Canada

2133  Is Positive Psychological Well-being Associated with Physical Functioning in Older Adults? Results From the Chicago Healthy Aging Study (CHAS)
Rosalba Hernandez, Northwestern Univ, Chicago, IL
Martha L Daviglus, Northwestern Univ, Chicago, IL

2134  Impact of Psychosocial Factors on Survival After Cardiac Surgery
Lisa M Martin, Inova Heart and Vascular Inst, Falls Church, VA
Niv Ad, Inova Heart and Vascular Inst, Falls Church, VA

2135  Young Women with Stable CHD are More Likely to Develop Myocardial Ischemia with Mental Stress Than Men of Similar Age
Viola Vaccarino, Emory Univ Sch of Public Health, Atlanta, GA
Arshed A Quyyumi, Emory Univ Sch of Med, Atlanta, GA
### Abstract Poster Session

**APS.211.02**

**CVD Epidemiology: Socioeconomic Status, Race and Other Risk Factors**

South Hall A2 - Core 2  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

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| 2384    | Temporal Trends in the Characteristics of Autopsy-Verified Victims of Sudden Cardiac Death Without a Known Prior Cardiac Disease | Eeva K Hookana, Univ of Oulu, Oulu, Finland  
Heikki V Huikuri, Univ of Oulu, Oulu, Finland |
| 2385    | Associations Between Neighborhood Characteristics and Inflammation: The Morehouse and Emory Team Up to Eliminate Health Disparities (META-Health) Study | Jia Shen, Emory Univ Dept of Med, Atlanta, GA  
Arshed Quyyumi, Emory Univ Dept of Med, Atlanta, GA |
| 2386    | Atrial Fibrillation is Associated with Significant Physical Function Decline in Older Adults | Jared W Magnani, Boston Univ Sch of Med, Boston, MA  
Tamara Harris, Nati Inst on Aging, Bethesda, MD |
| 2387    | Patients With Familial Hypercholesterolemia Are Protected Against Type II Diabetes - a Cross-sectional Study in 63,000 Individuals Tested for the Presence of LDL Receptor Mutations | Joost Besseling, Academic Medical Ctr, Amsterdam, Netherlands  
Gerard K Hovingh, Academic Medical Ctr, Amsterdam, Netherlands |
| 2388    | Adherence and Persistence to Statin Therapy in a Veteran Population                        | David Siegel, VA Northern CA HCS, Sacramento, CA                                      |

### Abstract Poster Session

**APS.210.02**

**Diabetes Mellitus and CVD: Prevention and Management II**

South Hall A2 - Core 2  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

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Majken K Jensen, Harvard Sch of Public Health, Boston, MA |
| 2392    | The Incidence and Predicting Factors of Heart Failure After First Acute Myocardial Infarction: A Population-Based Study in Taiwan | Yi-Heng Li, Nati Cheng Kung Univ Coll of Med and Hosp, Tainan, Taiwan  
Yea-Huei Kao Yang, Nati Cheng Kung Univ Coll of Med and Hosp, Tainan, Taiwan |
| 2393    | Serum Hepcidin Predicts New Onset Heart Failure in Women in the Community                 | Lisbrand T Klijn, Univ Medical Ctr Groningen, Groningen, Netherlands  
Peter van der Meer, Univ Medical Ctr Groningen, Groningen, Netherlands |

### Abstract Poster Session

**APS.210.02**

**Diabetes Mellitus and CVD: Prevention and Management II**

South Hall A2 - Core 2  
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| 2394    | ROCK2 Mediates Browning of White Fat and Protects Against Obesity                          | Phetcharat Chen, Univ of Chicago, Chicago, IL  
James Liao, Univ of Chicago, Chicago, IL |
| 2395    | S100/calgranulins Mediate Inflammation in Brown Adipose Tissue Leading to Impaired Adaptive Thermogenesis and Obesity in hBAC-S100 Transgenic Mice | Ling Yan, Univ of Chicago, Chicago, IL  
Marion A Hofmann Bowman, Univ of Chicago, Chicago, IL |

### Abstract Poster Session

**APS.211.02**

**CVD Epidemiology: Socioeconomic Status, Race and Other Risk Factors**

South Hall A2 - Core 2  
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| 2396    | Glycemic Variability is Associated With Persistent Epigenetic Changes and Endothelial Dysfunction in Type 2 Diabetic Subjects With Optimal Glycemic Control | Francesco Paneri, Karolinska Inst, Stockholm, Sweden  
Francesco Cosentino, Karolinska Inst, Stockholm, Sweden |
| 2397    | Low Density Lipoprotein Cholesterol Response and Statin Persistence among Patients with High Coronary Heart Disease Risk Initiating Treatment | Paul Muntner, Univ of Alabama at Birmingham, Birmingham, AL |
| 2398    | Serum Hepcidin Predicts New Onset Heart Failure in Women in the Community                 | Lisbrand T Klijn, Univ Medical Ctr Groningen, Groningen, Netherlands  
Peter van der Meer, Univ Medical Ctr Groningen, Groningen, Netherlands |
| 2399    | Temporal Trends in the Characteristics of Autopsy-Verified Victims of Sudden Cardiac Death Without a Known Prior Cardiac Disease | Eeva K Hookana, Univ of Oulu, Oulu, Finland  
Heikki V Huikuri, Univ of Oulu, Oulu, Finland |
| 2400    | Associations Between Neighborhood Characteristics and Inflammation: The Morehouse and Emory Team Up to Eliminate Health Disparities (META-Health) Study | Jia Shen, Emory Univ Dept of Med, Atlanta, GA  
Arshed Quyyumi, Emory Univ Dept of Med, Atlanta, GA |
| 2401    | Atrial Fibrillation is Associated with Significant Physical Function Decline in Older Adults | Jared W Magnani, Boston Univ Sch of Med, Boston, MA  
Tamara Harris, Nati Inst on Aging, Bethesda, MD |
| 2402    | Patients With Familial Hypercholesterolemia Are Protected Against Type II Diabetes - a Cross-sectional Study in 63,000 Individuals Tested for the Presence of LDL Receptor Mutations | Joost Besseling, Academic Medical Ctr, Amsterdam, Netherlands  
Gerard K Hovingh, Academic Medical Ctr, Amsterdam, Netherlands |
| 2403    | Adherence and Persistence to Statin Therapy in a Veteran Population                        | David Siegel, VA Northern CA HCS, Sacramento, CA                                      |

### Abstract Poster Session

**APS.210.02**

**Diabetes Mellitus and CVD: Prevention and Management II**

South Hall A2 - Core 2  
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| 2404    | The Association of Fetuin-a With Incident Cardiovascular Disease Differs by Glycemic Status: The Multi-Ethnic Study of Atherosclerosis | David E St-Jules, Harvard Sch of Public Health, Boston, MA  
Majken K Jensen, Harvard Sch of Public Health, Boston, MA |
| 2405    | The Incidence and Predicting Factors of Heart Failure After First Acute Myocardial Infarction: A Population-Based Study in Taiwan | Yi-Heng Li, Nati Cheng Kung Univ Coll of Med and Hosp, Tainan, Taiwan  
Yea-Huei Kao Yang, Nati Cheng Kung Univ Coll of Med and Hosp, Tainan, Taiwan |
| 2406    | Serum Hepcidin Predicts New Onset Heart Failure in Women in the Community                 | Lisbrand T Klijn, Univ Medical Ctr Groningen, Groningen, Netherlands  
Peter van der Meer, Univ Medical Ctr Groningen, Groningen, Netherlands |
| 2407    | Temporal Trends in the Characteristics of Autopsy-Verified Victims of Sudden Cardiac Death Without a Known Prior Cardiac Disease | Eeva K Hookana, Univ of Oulu, Oulu, Finland  
Heikki V Huikuri, Univ of Oulu, Oulu, Finland |
| 2408    | Associations Between Neighborhood Characteristics and Inflammation: The Morehouse and Emory Team Up to Eliminate Health Disparities (META-Health) Study | Jia Shen, Emory Univ Dept of Med, Atlanta, GA  
Arshed Quyyumi, Emory Univ Dept of Med, Atlanta, GA |
| 2409    | Atrial Fibrillation is Associated with Significant Physical Function Decline in Older Adults | Jared W Magnani, Boston Univ Sch of Med, Boston, MA  
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| 2410    | Patients With Familial Hypercholesterolemia Are Protected Against Type II Diabetes - a Cross-sectional Study in 63,000 Individuals Tested for the Presence of LDL Receptor Mutations | Joost Besseling, Academic Medical Ctr, Amsterdam, Netherlands  
Gerard K Hovingh, Academic Medical Ctr, Amsterdam, Netherlands |
| 2411    | Adherence and Persistence to Statin Therapy in a Veteran Population                        | David Siegel, VA Northern CA HCS, Sacramento, CA                                      |
2327 The Mitochondrial Adaptor p66Shc Drives Endothelial Insulin Resistance in Obese Mice
Sarah Costantino, Karolinska Inst, Stockholm, Sweden
Francesco Cosentino, Karolinska Inst, Stockholm, Sweden
APS.210.03

2328 Long-Term Dietary Nitrite and Nitrate Deficiency Causes Metabolic Syndrome-Like Phenotypes in Mice
Masato Tsutsui, Graduate Sch of Med, Univ of the Ryukyus, Okinawa, Japan
Yusuke Ohya, Graduate Sch of Med, Univ of the Ryukyus, Okinawa, Japan
BOARD #

2329 Chronic Vagal Nerve Stimulation Causes Weight Loss by Reducing Food Intake and Feeding Efficiency in Mice
Harald M Stauss, Univ of Iowa, Iowa City, IA
Kamal Rahmouni, Univ of Iowa, Iowa City, IA

2330 Defect of Ca2+-activated Cl- Channel in Intestinal Nodose Neurons Contributes to Impaired Satietry Signal in High-Fat Diet Induced Obesity
Runping Wang, The Univ of Iowa, Iowa City, IA
Francois M Abboud, The Univ of Iowa, Iowa City, IA

2331 Effects of Muscle Stretching on Endothelium-Dependent Vasodilation and Skeletal Muscle Blood Flow of Aged Rats
Kazuki Hotta, Univ of Florida, Gainesville, FL
Judy M Muller-Delp, Univ of Florida, Gainesville, FL

2332 AST-120 Ameliorates Lowered Exercise Capacity and Mitochondrial Dysfunction of the Skeletal Muscle in Mice with Chronic Kidney Disease via Reducing Oxidative Stress
Mikito Nishikawa, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan
Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

2333 Development of a Novel Vaccine Against Dipeptidyl Peptidase-4 in Mice
Zhengda Pang, Osaka Univ Graduate Sch of Med, Osaka, Japan

2334 Does Intensive Glucose Control Prevent Cognitive Decline in Diabetes? a Meta-analysis
Carlos A Peñaherrera Oviedo, Univ Católica de Santiago de Guayaquil, Guayaquil, Ecuador
Rocio A Santibañez Vasquez, Univ Católica de Santiago de Guayaquil, Guayaquil, Ecuador

2335 LX4211, a Dual Inhibitor of Sodium-Glucose Cotransporters 1 and 2, Reduces Systolic Blood Pressure in Patients With Type 2 Diabetes Mellitus and Moderate to Severe Renal Impairment
Pablo Lapuerta, Lexicon Pharmaceuticals, Inc., The Woodlands, TX
Arthur Sands, Lexicon Pharmaceuticals, Inc., The Woodlands, TX

2336 Sitagliptin Shows No Significant Benefit on Cardiac Outcomes: Systematic Review and Meta-Analysis
Raynold V Yin, Western Univ of Health Sciences, Pomona, CA
Olivia J Phung, Western Univ of Health Sciences, Pomona, CA

2337 Dapagliflozin Lowers HbA1c, Systolic Blood Pressure and Serum Uric Acid in Patients With Type 2 Diabetes and Hypertension, Regardless of Class of Concomitant Antihypertensive Therapy
Michael A Weber, SUNY Downstate Coll of Med, New York, NY
Agata Ptaszynska, Bristol-Myers Squibb, Princeton, NJ

2338 Effects of Glucose Control and Coronary Revascularization Strategies on Cardiac Troponin and Natriuretic Peptide Levels in Patients with Type 2 Diabetes and Stable Ischemic Heart Disease: a BARI-2D Substudy
Brendan M Everett, Brigham and Womens Hosp, Boston, MA
Deepak Bhatt, Brigham and Womens Hosp, Boston, MA

2339 No Increased Risk of Early or Late Adjudicated Cardiovascular Events With Dapagliflozin
Ingrid Gause-Nilsson, AstraZeneca, Mölndal, Sweden
Bob Frederich, Bristol-Myers Squibb, Princeton, NJ
The Sodium Glucose Co-Transporter 2 Inhibitor (SGLT2i) Empagliflozin Reduces Weight and Markers of Visceral Adiposity (VA) in Type 2 Diabetes (T2D) in Short- and Intermediate Term
Ian Neeland, Univ of Texas, Southwestern Medical Ctr, Dallas, TX
Odd Erik Johansen, Boehringer-Ingelheim, Asker, Norway

Graded Benefit of EDTA Chelation in Post-MI Patients with Diabetes Treated with Different Hypoglycemic Strategies
Gervasio A Lamas, Mount Sinai Medical Ctr, Miami Beach, FL
Kerry Lee, Duke Univ Sch of Med, Durham, NC

Empagliflozin Reduces Systolic Blood Pressure in Dipper and Non-Dipper Patients with Type 2 Diabetes and Hypertension
Robert Chilton, Univeristy of Texas Health Science Ctr, San Antonio, TX
Thomas Hach, Boehringer Ingelheim Pharma GmbH & Co KG, Ingelheim, Germany

BP Reduction With the Sodium Glucose Co-Transporter 2 Inhibitor Empagliflozin in Type 2 Diabetes is Similar in Treatment Naïve as in Those on One or ≥ 2 Antihypertensive Agents - Further Insights From a Dedicated 24h ABPM Study
Uli C Broedl, Boehringer-Ingelheim, Ingelheim, Germany
Odd Erik Johansen, Boehringer-Ingelheim, Asker, Norway

ECG Markers of CVD Risk II
South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Combination of QRS Duration and JT interval is More Prognostic Than the QT interval for Cardiovascular Death in an Ambulatory Population
David Pickham, Stanford Health System, Stanford, CA
Victor Froelicher, VA Health System Palo Alto, Stanford, CA

Prolonged PR Interval is Significantly Associated with Increased Risk of Cardiovascular Diseases and Strokes in a Population-based Cohort Study
Takashi Kobayashi, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan
Yoshihiro Miyamoto, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan

Implantable Loop Recorder Monitoring is useful in Detecting a High Incidence of Previously Unrecognized Atrial Fibrillation in Hemodialysis Patients. Preliminary Data From the Monitoring in Dialysis (MiD) Study
Bruce A Koplan, Brigham & Women’s Hosp, Boston, MA
David M Charytan, Brigham & Women’s Hosp, Boston, MA

Abnormalities in the Electrocardiogram: a Meta-Analysis Comparing Chagas Disease to Other Cardiomyopathies
Rhanderson N Cardoso, Univ of Miami, Miami, FL
Raul D Mitrani, Univ of Miami, Miami, FL

Prolonged P Wave Duration is Not Associated With New Onset Atrial Fibrillation During 10-year Follow-up After First-ever Ischemic Stroke in Lund Stroke Register
Maria A Baturova, Lund Univ, Lund, Sweden
Pyotr G Platonov, Lund Univ, Lund, Sweden

External Validation of a Prediction Model for the Development of Atrial Fibrillation in a Repository of Electronic Medical Records
Matthew J Kolek, Vanderbilt Univ Medical Ctr, Nashville, TN
Dawood Darbar, Vanderbilt Univ Medical Ctr, Nashville, TN

Single Measurement of GDF-15 Provides Reliable Prognostic Value of Stroke and Major Bleeding in Atrial Fibrillation
Lars Wallentin, Dept of Medical Sciences, Cardiology and Uppsala Clinical Res Ctr, Uppsala Univ, Uppsala, Sweden
Agneta Siegbahn, Dept of Medical Sciences, Clinical Chemistry and Uppsala Clinical Res Ctr, Uppsala Univ, Uppsala, Sweden

The Prognostic Implications of Right Bundle Branch Block in Healthy Population: a Systematic Review and Meta-analysis
Sunita Sharma, Mayo Clinic, Rochester, MN
M Hassan Murad, Mayo Clinic, Rochester, MN

Respiratory Sinus Arrhythmia Quantified from Standard ECG for Risk Stratification of Post-Infarction Patients
Daniel Sinnecker, Klinikum rechts der Isar-Technische Univ München, Munich, Germany
Georg Schmidt, Klinikum rechts der Isar-Technische Univ München, Munich, Germany

Association of Sleep Disordered Breathing and ECG R-Wave to Radial Artery Pulse Delay: The MESA Study
Younghoon Kwon, Univ of Minnesota, Minneapolis, MN
Daniel Duprez, Univ of Minnesota, Minneapolis, MN
Abstract Poster Session

APS.102.03
Echocardiography in the Context of Multimodality Imaging
South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Paaladinesh Thavendiranathan, Toronto, ON, Canada

1062 Relative Merits of Ejection Fraction and Strain by 2D Echo, 3D Echo and Cardiac Magnetic Resonance Imaging for Image-Based Recognition of Heart Failure
Aasha Gopal, St Francis Hosp Heart Ctr, Roslyn, NY

1063 Estimation of Stroke Volume and Aortic Valve Area in Patients With Aortic Stenosis: A Comparison of Doppler-Echocardiography and Cardiac Magnetic Resonance
Romain Capoulade, Quebec Heart & Lung Inst, Quebec, QC, Canada
Philippe Pibarot, Quebec Heart & Lung Inst, Quebec, QC, Canada

1064 Fusion of Coronary Anatomy from Computed Tomography with Left Ventricular Strain Function from 3D Echocardiography
Francesco Maffessanti, Univ of Chicago, Chicago, IL
Roberto M Lang, Univ of Chicago, Chicago, IL

1065 Incremental Prognostic Value of Left Ventricular Global Longitudinal Strain and Late Gadolinium Enhancement in Patients with Dilated Cardiomyopathy
Misato Chimura, Himeji Cardiovascular Ctr, Himeji, Japan
Yoshinori Yasaka, Himeji Cardiovascular Ctr, Himeji, Japan

1066 Real-Time Three-Dimensional Transesophageal Echocardiography for Diagnosis of Pannus Formation in Mechanical Aortic Valves: Comparison with Multi-detector Computed Tomography and Surgical Findings
Sahmin Lee, Cardiovascular Ctr, Seoul Natl Univ Hosp, Seoul, Republic of Korea
Dae-Won Sohn, Cardiovascular Ctr, Seoul Natl Univ Hosp, Seoul, Republic of Korea

1067 Head-to-head Comparison of Real-Time Myocardial Perfusion Echocardiography vs Cardiac Magnetic Resonance in Patients with Revascularized ST-Elevation Myocardial Infarction: Prognostic Implications
Sahar S Abdelmoneim, Mayo Clinic, Rochester, MN
Sharon L Mulvagh, Mayo Clinic, Rochester, MN

Abstract Poster Session

APS.103.02
Echocardiography/Imaging in Structural Heart Disease and Interventions
South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Masaaki Takeuchi, Kitakyushu, Japan

1112 Does Transcatheter Aortic Valve Replacement Have Acute Impact on Right Ventricular Function?
Youssef Nasr, Henry Ford Hosp, Detroit, MI
Karthik Ananthasubramaniam, Henry Ford Hosp, Detroit, MI
1113 Impact of Transcatheter Aortic Valve Replacement (TAVR) on Left Ventricular Diastolic Function; Comparison with Surgical Aortic Valve Replacement (sAVR)
Sang Jin Ha, Severance Cardiovascular Hosp, Yonsei Univ Health System, Seoul, Republic of Korea
Namsik Chung, Severance Cardiovascular Hosp, Yonsei Univ Health System, Seoul, Republic of Korea

1114 A Novel Parameter to Predict Long-term Cardiac Mortality in Mitral Stenosis
Maria Carmo P Nunes, Univ Federal de Minas Gerais, Belo Horizonte, Brazil
Robert A Levine, Massachusetts General Hosp, Boston, MA

1115 Right Ventricular Remodeling Post MitraClip Insertion for Severe Mitral Regurgitation - Single Centre Echocardiographic Study
Kalilur Anvardeen, Sir Charles Gairdner Hosp, Nedlands, Australia
Brendan McQuillan, Univ of Western Australia, Crawley, Australia

1116 Evaluation of Tricuspid Regurgitation (TR) Severity Prior to and after Device Extraction in Patients with Cardiac Device Infection
Thomas Butler, The Prince Charles Hosp, Brisbane, Australia
John F Sedgwick, The Prince Charles Hosp, Brisbane, Australia

1117 Tethering of Mitral Leaflets Relates to Displacement of Papillary Muscles by Dislocation of Heart During Off-Pump Coronary Artery Bypass Surgery: Assessment of Mitral Valve Complex by Three-Dimensional Echocardiography in Porcine Model
Takashi Igarashi, Fukushima Medical Univ, Fukushima, Japan
Hitoshi Yokoyama, Fukushima Medical Univ, Fukushima, Japan

1118 Prognostic Value of Pulmonary Artery Pressure Assessment during Ankle Flexing Exercise in Patients with Heart Failure Showing Functional Mitral Regurgitation
Atsushi Tanaka, Wakayama Medical Univ, Wakayama, Japan
Masato Takenaka, Kinan Hosp, Tanabe, Japan

1119 Are Patients With Caseous Calcification of the Mitral Annulus But Without Atrial Fibrillation at Increased Risk of Cerebral Embolization?
Charles A Dietl, Univ of New Mexico, Albuquerque, NM
Veena Raizada, Univ of New Mexico, Albuquerque, NM

1120 Absence of Chordae Tendineae near Valve Coaptation Leads to Mitral Regurgitation in Lone Atrial Fibrillation
Yuji Itabashi, Cedars-Sinai Medical Ctr, Los Angeles, CA
Takahiro Shiota, Cedars-Sinai Medical Ctr, Los Angeles, CA

1121 Tricuspid Valve Imaging by 3D Transesophageal Echocardiography: Feasibility of Coaptation Length Measurement and Its Relationship With Severity of Regurgitation
Kikuko Obase, Univ of Chicago, Chicago, IL
Roberto M Lang, Univ of Chicago, Chicago, IL

Abstract Poster Session

Echocardiography: Clinical Applications of Contrast Echocardiography

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Board #
Poster Professor:
Geu-Ru Hong, Seoul, Republic of Korea

1072 Diagnostic Ultrasound Induced Inertial Cavitation of Microbubbles Improves Microvascular Re-Flow Following Thrombotic Microembolization to a Greater Degree than Stable Cavitation
Feng Xie, Univ of Nebraska Medical Ctr, Omaha, NE
Thomas R Porter, Univ of Nebraska Medical Ctr, Omaha, NE

1073 Quantitative Characteristics of Left Ventricular Vortex Flow in the Short and Long Axis Views by High Frame Rate Echocardiographic Particle Image Velocimetry
Haruhiko Abe, Osaka Natl Hosp, Osaka, Japan
Satoshi Nakatani, Osaka Univ Graduate Sch of Med, Suita, Japan

1074 Efficient and Persistent Transgene Expression by Minicircle Plasmid versus Standard Plasmid Using Ultrasound Targeted Microbubble Destruction
Dmitriy Rudenko, St Michael’s Hosp, Toronto, ON, Canada
Howard Leong-Poi, St Michael’s Hosp, Toronto, ON, Canada

1075 Pro-angiogenic Dual Gene Therapy in Chronic Diabetic Hindlimb Ischemia with Ultrasound Mediated Delivery of miR-126 and VEGF Plasmid DNA
Wei J Cao, St Michael’s Hosp, Toronto, ON, Canada
Howard Leong-Poi, St Michael’s Hosp, Toronto, ON, Canada

1076 Vector Flow Mapping is a Novel Useful Technique in Assessing Inertia Force of Late Systolic Aortic Flow and Left Ventricular Early Diastolic Function
Kazuaki Wakami, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan
Nobuyuki Ohte, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan
1077 Are Noninvasive Methods for Pasp Measurement Accurate When Compared to Invasive Pasp Measurements?  
Nishath Quader, Northwestern Univ, Chicago, IL  
Kameswari Maganti, Northwestern Univ, Chicago, IL

1078 Volumetric Echocardiographic Particle Image Velocimetry (V-Echo-PIV)  
Arash Kheradvar, Univ of California Irvine, Irvine, CA

1079 Dual-Targeted Microbubbles Improve the Detection of Previously Ischemic Myocardium by Echocardiography  
Brent A French, Univ of Virginia, Charlottesville, VA

1080 3D Contrast-enhanced Ultrasound (CEUS) Imaging of Carotid Artery Plaques and Intra-plaque Angiogenesis  
Venu Gourineni, Rush Univ Medical Ctr, Chicago, IL  
Steven Feinstein, Rush Univ Medical Ctr, Chicago, IL

1081 The Diamond-Forrester Criterion Significantly Overestimates the Risk of Obstructive Coronary Artery Disease in Patients Presenting to the Emergency Department With Low-Risk Chest Pain  
Todd Lecher, Penn State Hershey Medical Ctr, Hershey, PA  
Andrew Foy, Penn State Hershey Medical Ctr, Hershey, PA

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**Abstract Poster Session**

**APS.102.02**  
**Echocardiography: Evaluation of RV Function—Role of Strain Imaging**  
South Hall A2 - Core 1  
Posters Displayed:  9:00 AM - 5:00 PM  
Presenter Available:  9:30 - 11:00 AM

**Poster Professor:**  
Chi Young Shim, Seoul, Republic of Korea

1052 Right Ventricular Free Wall Strain Differentiates Acute Pulmonary Afterload Increases From Chronic Pulmonary Hypertension  
Leah Wright, Menzies Res Inst, Hobart, Australia  
Thomas Marwick, Menzies Res Inst, Hobart, Australia

1053 Right Ventricular Remodeling is Additive to Global Longitudinal Strain in Predicting Long Term Survival in Patients with Pulmonary Hypertension  
Akiko Gods, Univ of Pittsburgh, Pittsburgh, PA  
John Gorcsan, Univ of Pittsburgh, Pittsburgh, PA

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**1054 Early Detection of Right Ventricular Dysfunction Using Speckle-Tracking Echocardiography in Systemic Sclerosis Patients**  
Monica Mukherjee, Johns Hopkins Univ Sch of Med, Baltimore, MD  
Ami A Shah, Johns Hopkins Univ Sch of Med, Baltimore, MD

**1055 Combined Assessment of Right Ventricular Function and Reverse Remodeling as Prognostic Marker after Administration of Medical Treatment for Pulmonary Hypertension**  
Hiroyuki Sano, Kobe Univ Graduate Sch of Med, Kobe, Japan  
Ken-ichi Hirata, Kobe Univ Graduate Sch of Med, Kobe, Japan

**1056 Role of Velocity Vector Imaging Derived Strain Parameters in Arrhythmogenic Right Ventricular Cardiomyopathy**  
Andreea M Dragos, Ospedale Riuniti di Trieste, Trieste, Italy  
Gianfranco Sinagra, Ospedale Riuniti di Trieste, Trieste, Italy

**1057 Do Biventricular Mechanics in Transient Constrictive Pericarditis Improve After Medical Therapy?**  
Ayman I Ayache, Cleveland Clinic, Cleveland, OH  
Allan L Klein, Cleveland Clinic, Cleveland, OH

**1058 Right Ventricular Strain is a More Sensitive Marker of Right Ventricular Dysfunction Than Right Ventricular Ejection Fraction in a Cohort of Patients With Idiopathic Pulmonary Arterial Hypertension**  
Julia Grapsa, Hammersmith Hosp, London, United Kingdom  
Petros Nihoyannopoulos, Hammersmith Hosp, London, United Kingdom

**1059 Feasibility of Single Beat Three-dimensional Echocardiography for Analysis of Right Ventricular Systolic Function in Neonatal Heart**  
Ikuo Hashimoto, Toyama City Hosp, Toyama, Japan  
Fukiko Ichida, Univ of Toyama, Toyama, Japan

**1060 The Additive Effects of Tricuspid Regurgitation and Pressure Overload in Pulmonary Hypertension on Three-Dimensional Right Ventricular Mechanics and Patient Outcomes**  
Keiko Ryo, Univ of Pittsburgh, Pittsburgh, PA  
John Gorcsan, Univ of Pittsburgh, Pittsburgh, PA

**1061 Classifying Right Ventricular Dysfunction: an Echocardiographic Algorithm**  
Joseph T Peterucha, Mayo Clinic Coll of Med, Rochester, MN  
Patrick W O’Leary, Mayo Clinic Coll of Med, Rochester, MN
Abstract Poster Session

Echocardiography: Evaluation of Systolic and Diastolic Function II

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
Venkat Polsani, Atlanta, GA

1011 Diastolic Dysfunction in Asymptomatic Patients With Moderate to Severe Aortic Regurgitation is Strongly Related to Increased Longitudinal Fiber Stress and Subsequent Non-uniform Myocardial Relaxation
Stig Urheim, Oslo Univ Hosp, Rikshospitalet, Oslo, Norway
Lars Gullesstad, Oslo Univ Hosp, Rikshospitalet, 0327 Oslo, Norway

1012 Reference Echocardiographic Measurements in Free-Living Adults: The Brazilian Longitudinal Study of Adult Health (ELSA-Brasil)
Murilo Foppa, Hosp de Clinicas de Porto Alegre - UFRGS, Porto Alegre, Brazil
Bruce B Duncan, UFRGS, Porto Alegre, Brazil

1013 Impact of Diastolic Dysfunction on Outcomes of Patients With Aortic Stenosis Romain Capoulade, Quebec Heart & Lung Inst, Quebec, QC, Canada
Philippe Pibarot, Quebec Heart & Lung Inst, Quebec, QC, Canada

1014 Reduced Lung Function is Associated With Decreased Ejection Fraction and Decreased Left Ventricular Size in Patients in a Tertiary Care Center
Melissa S Burroughs Pena, Duke Univ, Durham, NC
Eric J Velazquez, Duke Univ, Durham, NC

1015 Age-Related Changes of Right Atrial and Right Ventricular Functions Assessed by Speckle Tracking Echocardiography
Dragos Vinereanu, Univ of Med and Pharmacy Carol Davila, Bucharest, Romania

1016 Addition of Myocardial Parameters to the Diagnosis of Stage B Heart Failure
Tom Marwick, Menzies Res Inst Tasmania, Hobart, Australia
Christine Jellis, Cleveland Clinic, Cleveland, OH

1017 Comparison of Cardiopulmonary Exercise Parameters and Right Ventricular Function in Patients With Severe Heart Failure: Chagas Differ From Ischemic Etiology
Alexandra C Lima, Univ of Brasilia, Brasilia, Brazil
Gerson Cipriano Jr., Univ of Brasilia, Brasilia, Brazil

Abstract Poster Session

Endothelium in the Diseased Pulmonary Vasculature

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

5366 Systemic Administration of Mitochondria Alleviates 100% Oxygen-Induced Acute Respiratory Distress Syndrome in Rats
Sarah Chua, Kaohsiung Chang Gung Memorial Hosp, Chang Gung Univ Coll of Med, Kaohsiung City, Taiwan

5367 Nicotinamide Phosphoribosyltransferase (NAMPT) Modulates Oxidative Stress via Nrf2: Roles of Intracellular and Extracellular NAMPT
Tao Jiang, Univ of Arizona, Tucson, AZ
Joe GN Garcia, Univ of Arizona, Tucson, AZ

WITHDRAWN

5368 Mechanism of Mechanical Stress-Regulated Non-Muscle Myosin Light Chain Kinase Alternative Splicing, Implication for Acute Lung Inflammation
Joseph B Mascarenhas, Univ Of Arizona, Tucson, AZ
Joe GN Garcia, Univ Of Arizona, Tucson, AZ

WITHDRAWN

5369 Young Women Have More Impaired Left Ventricular Diastolic Function than Young Men in Patients with Never Treated Primary Arterial Hypertension
Seong-Mi Park, Korea Univ Medical Ctr, Seoul, Republic of Korea
Wan-Joo Shim, Korea Univ Medical Ctr, Seoul, Republic of Korea

5370 Framingham Risk Trajectories Predict Left Ventricular Dyssynchrony as a Measure of Subclinical Myocardial Dysfunction: The Coronary Artery Risk Development in Young Adults (CARDIA) Study
Ravi Sharma, Johns Hopkins Univ, Baltimore, MD
João A Lima, Johns Hopkins Univ, Baltimore, MD
Carlos J Rodriguez, Wake Forest Univ Health Sciences, Winston-Salem, NC
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<tr>
<td>7088</td>
<td>Gangjian Qin, Chicago, IL</td>
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<td><strong>The CD38 Inhibitor Luteolinidin Ameliorates Ischemia/reperfusion Injury Through Preservation of NADP(H) and NAD(H)</strong></td>
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<td>James J Bossett, Ohio State Univ, Columbus, OH</td>
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<td>Jay Zweier, Ohio State Univ, Columbus, OH</td>
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| 7089    | Tiziano Scarabelli, Mount Sinai, New York, NY |
|         | Riccardo Raddino, Univ of Brescia, Brescia, Italy |
| **Cardiovascular Toxicity of Carfilzomib on Vascular Tone, Vascular Reactivity and Endothelial Function** |

| 7090    | Sebastian Steven, Univ Medical Ctr of the Johannes Gutenberg Univ, Mainz, Germany |
|         | Mainz, Germany |
|         | Andreas Daber, Univ Medical Ctr of the Johannes Gutenberg Univ, Mainz, Germany |
| **Effects of DPP4-inhibition on Endothelial Function and Hemostasis in a Rodent Model of Septic Shock** |
|         | Shigeki Kato, National Ctr for Cardiovascular Diseases, Osaka, Japan |
|         | Hiroshi Nakashima, National Ctr for Cardiovascular Diseases, Osaka, Japan |
|         | Yujiro Matsuo, National Ctr for Cardiovascular Diseases, Osaka, Japan |
|         | Atsushi Iwakura, National Ctr for Cardiovascular Diseases, Osaka, Japan |

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**Impact of Baseline Spasm on 3-year Clinical Outcomes in Patient with Significant Coronary Artery Spasm as Assessed by Acetycholine Provocation Test**
Seung Woon Rha, Korea Univ Guro Hosp, Seoul, Republic of Korea
Dong Joo Oh, Korea Univ Guro Hosp, Seoul, Republic of Korea

**High-Mobility Group Box-1 Activates Toll-Like Receptor 4: A Potential Novel Mechanism in Endothelial Dysfunction in Diabetes Mellitus**
Maria Alicia Carrillo-Sepulveda, Georgia Regents Univ, Augusta, GA
R Clinton Webb, Georgia Regents Univ, Augusta, GA

**Vascular Protective Actions of a Novel Sustained Release Nitrite Formulation in Obese Swine With Metabolic Syndrome**
Jessica M Bradley, Louisiana State Univ Health Sciences Ctr, New Orleans, LA
Traci T Goodchild, Louisiana State Univ Health Sciences Ctr, New Orleans, LA

**Knockout of CD38 Preserves Endothelial Function in the Postischemic Heart through Reduced Nicotinamide Adenine Dinucleotide Phosphate Salvage**
James J Bossett, Ohio State Univ, Columbus, OH
Jay Zweier, Ohio State Univ, Columbus, OH

**Integrated Flow-Mediated Vasodilation Response Predicts Cardiovascular Events in Elderly Patients at Cardiovascular Risk Factor**
Tomoyuki Kabutoya, Jichi Medical Univ Sch of Med, Shimotsuke,Tochigi, Japan
Kazuomi Kario, Jichi Medical Univ Sch of Med, Shimotsuke,Tochigi, Japan
Abstract Poster Session

**Exercise, Physical Activity and Rehabilitation III**

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Sherry L Grace, Toronto, ON, Canada

2209 **Impact of Physical Activity Levels on Death or Heart Failure Related Hospitalizations in Patients with Heart Failure: a Sub study of the HART Trial (NCT00018005)**
Ashvarya Mangla, OSF Saint Francis Medical Ctr, Peoria, IL
Lynda H Powell, Rush Univ Medical Ctr, Chicago, IL

2210 **A Novel Rehabilitation Intervention for Older Patients with Acute Decompensated Heart Failure: the REHAB-HF Pilot Study**
Gordon R Reeves, Thomas Jefferson Univ, Philadelphia, PA
Dalane W Kitzman, Wake Forest Univ Medical Ctr, Winston-Salem, NC

2211 **Better Parameters of Ventilation-co2 Output Relationship Predict Death in CHF Patients**
Xingguo Sun, Natl Ctr for Cardiovascular Diseases, Fuwai Hosp, Chinese Acad of Medical Sciences, Beijing, China
Shengzhou Hu, Natl Ctr for Cardiovascular Diseases, Fuwai Hosp, Chinese Acad of Medical Sciences, Beijing, China

2212 **Impact of In-hospital Acute Phase Cardiac Rehabilitation on Long-term Cardiovascular Outcomes in Acute Myocardial Infarction Patients**
Chika Kawashima, Yokohama City Univ Medical Ctr, Yokohama, Japan
Kazuo Kimura, Yokohama City Univ Medical Ctr, Yokohama, Japan

2213 **Higher Ambient Fine Particulate Matter Air Pollution and Temperature Levels Adversely Impact Cardiopulmonary Exercise Performance Among Patients Beginning Cardiac Rehabilitation**
Paolo Giorgini, Univ of L’Aquila, L’Aquila, Italy
Robert D Brook, Univ of Michigan, Ann Arbor, MI

2214 **Utilization of Inpatient Cardiac Rehabilitation During a Hospitalization for a Cardiac Condition: A National Sample**
Quinn R Pack, Baystate Medical Ctr, Springfield, MA
Peter K Lindenauer, Baystate Medical Ctr, Springfield, MA

**Abstract Poster Session**

**Exercise, Physical Activity and Rehabilitation IV**

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Felipe Lobelo, Atlanta, GA

2219 **Inverse Relationship Between Inflammation and Cardiorespiratory Fitness: The Henry Ford Hospital Exercise Testing Project (FIT Project)**
Waqas Qureshi, Wake Forest Univ, Winston Salem, NC
Mouaz Al-Mallah, Henry Ford Hosp, Detroit, MI

2220 **Determinants of Ethnic Differences in Cardiorespiratory Fitness: The Dallas Heart Study**
Ambarish Pandey, Univ of Texas Southwestern Medical Ctr, Dallas, TX
Jarett Berry, Univ of Texas Southwestern Medical Ctr, Dallas, TX

2215 **Similar Improvements in Outcomes Following 36 Sessions of Cardiac Rehabilitation Irrespective of Duration**
Pallavi Gomadam, Wake Forest Baptist Medical Ctr, Winston-Salem, NC
Killian Robinson, Wake Forest Baptist Medical Ctr, Winston-Salem, NC

2216 **Morbid Obesity Predicts Smaller Improvements in Exercise Capacity but Greater Weight Loss after Bypass Surgery with Cardiac Rehabilitation**
Pallavi Gomadam, Wake Forest Baptist Medical Ctr, Winston-Salem, NC
Killian Robinson, Wake Forest Baptist Medical Ctr, Winston-Salem, NC

2217 **Cardiac Rehabilitation Program Adherence among Women Following Referral to Different Program Models: A Randomized Controlled Trial**
Sherry L Grace, York Univ, Toronto, ON, Canada

2218 **Pacemaker Quantified Physical Activity Predicts All-Cause Mortality**
Sudhi Tyagi, Medical Coll of Wisconsin, Milwaukee, WI
Michael Widlansky, Medical Coll of Wisconsin, Milwaukee, WI

WITHDRAWN
2222 Combined Aerobic and Resistance Exercise Training Decrease Oxidative Stress by Augmenting Antioxidant Potential in Patients with Cardiovascular Disease
Noriko Yoshida, Kurume Univ, Fukuoka, Kurume, Japan
Hisao Ikeda, Kurume Univ, Fukuoka, Kurume, Japan

2223 Higher Salivary Cortisol Level Contributes to Exercise Intolerance via Reduced Muscle Strength in Patients With Chronic Heart Failure
Nobuaki Hamazaki, Kitasato Univ Hosp, Kanagawa, Japan
Junya Ako, Kitasato Univ Sch of Med, Kanagawa, Japan

2224 Brain-Derived Neurotrophic Factor Maintains Exercise Capacity and Mitochondrial Function in the Skeletal Muscle Through Ampk-Pgc1α Signaling
Shingo Takada, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan
Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

2225 Physical Exercise Reduces Angiopoietin-like 2 Circulating Levels Only in CAD Patients With Endothelial Dysfunction
Eric Thorin, Montreal Heart Inst, Montreal, QC, Canada
Anil Nigam, Montreal Heart Inst, Montreal, QC, Canada

2226 Changes of Metabolomic Profiling Are Associated With Reduced Exercise Capacity in Patients With Heart Failure
Masaya Tsuda, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan
Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

2227 Angiotensin II Directly Induces Mitochondrial Dysfunction and Atrophy in the Skeletal Muscle
Tomoyasu Kadoguchi, Hokkaido Univ Graduate Sch of Med, Sapporo-shi, Japan
Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo-shi, Japan

2228 Effects of Robot-Assisted Therapy Combined With Electrical Stimulation on Motor Control, Motor Impairment, and Daily Function in Stroke Patients
Ching-yi Wu, Chang Gung Univ, Kwei-Shan, Tao-Yuan, Taiwan
Man-chiao Hsiao, Chang Gung Univ, Kwei-Shan, Tao-Yuan, Taiwan

Abstract Poster Session

Experimental Gene Therapy

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

3021 Nos1 Adapter Protein Nos1ap Overexpression Alters Qtc Intervals in Transgenic Mice
Tatjana Williams, Univ Hosp of Wuerzburg, Wuerzburg, Germany
Oliver Ritter, Univ Hosp of Wuerzburg, Wuerzburg, Germany

3022 Post Infarct Treatment With Microrna145 Protects the Heart Against Myocardial Ischemia Reperfusion Injury Through Acceleration of Myocyte Autophagy
Kenshi Higashi, Gifu Univ Graduate Sch Of Med, Gifu, Japan
Shinya Minatoguchi, Gifu Univ Graduate Sch Of Med, Gifu, Japan

3023 Rescue of D2R Function in Mouse Kidney Using AAV9 Vector Abrogates the Renal Injury and High Blood Pressure Induced by D2R Silencing
Prasad Korkalmatt, Univ of Maryland Sch of Med, Baltimore, MD
Ines Armando, Univ of Maryland Sch of Med, Baltimore, MD

3024 Molecular Mechanism of Chronic Sildenafil-Ca2+-ATPase, Subtype of β-Adrenergic Receptors and Nitric Oxide Synthase Isoforms
Che Ping Cheng, Wake Forest Sch of Med, Winston-Salem, NC

3025 Regulation of Cardiac Fibroblast Phenotype by Scleraxis
Rushita Bagchi, Inst of Cardiovascular Sciences/Univ of Manitoba, Winnipeg, MB, Canada
Michael P Czubryt, Inst of Cardiovascular Sciences/Univ of Manitoba, Winnipeg, MB, Canada

3026 WITHDRAWN
5-oxoprolinase: a Novel Cardiac Mediator of the Oxidative Stress Response in the Failing Heart
Atze van der Pol, UMCG, Groningen, Netherlands
Peter V van der Meer, UMCG, Groningen, Netherlands

3027 Genetic Ablation of S-nitrosoglutathione Reductase (GSNOR) in Mice Enhances Proliferative Expansion of Adult Heart Progenitors and Myocytes Post Myocardial Infarction
Konstantinos E Hatzistergos, Univ of Miami, ISCI, Miami, FL
Joshua M Hare, Univ of Miami, ISCI, Miami, FL
Wednesday, November 18  •  Chicago, Illinois

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### Abstract Poster Session

**APS.723.05**

**Experimental Therapeutic Approach for Pulmonary Hypertension**

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Kurt R Stenmark, Aurora, CO

**7606** Inhalable Delivery of AAV-based Mrp4/abcc4 Silencing RNA Attenuates Monocrotaline-induced Pulmonary Hypertension
Jean-Sebastien Hulot, Sorbonne Universités, UPMC Univ Paris 06, Paris, France

**7607** Urocortin-2 Improves Right Ventricular Function in Pulmonary Arterial Hypertension
Pedro Mendes-Ferreira, Faculty of Med Univ of Porto, Porto, Portugal
Carmen Brás-Silva, Faculty of Med Univ of Porto, Porto, Portugal

**7608** Proangiogenic Hematopoietic Progenitor-Derived Eotaxins Promote Pathological Angiogenesis and Airway Inflammation in Asthma
Kewal Asoosingh, Cleveland Clinic, Cleveland, OH
Serpl Erzurum, Cleveland Clinic, Cleveland, OH

**7609** Inhibition of P38 MAPK Improves Heart Function in Sustained Pressure-overload Induced Right Ventricular Hypertrophy and Failure
Baktybek Kojonazarov, Universities of Giessen and Marburg Lung Ctr, Giessen, Germany
Ralph Theo Schermuly, Universities of Giessen and Marburg Lung Ctr, Giessen, Germany

**7610** A Novel Formulation of Vasoactive Intestinal Peptide Attenuates both Acute Hypoxic Pulmonary Vasoconstriction and the Development of Pulmonary Hypertension
Dustin R Fraidenburg, Univ of Illinois in Chicago, Chicago, IL
Jason X-J Yuan, Univ Arizona, Tuscon, AZ

**7611** Cyclophilin a and Basigin Promotes Pulmonary Hypertension by Inducing Inflammation and Vascular Smooth Muscle Cell Proliferation
Kimio Satoh, Tohoku Univ Graduate Sch of Med, Sendai, Japan
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan

**7612** The Synergistic Effects of Incretin-related Drugs for the Treatment of Pulmonary Arterial Hypertension
Susumu Hosokawa, Tokyo Medical and Dental Univ, Tokyo, Japan
Mitsuaki Isobe, Tokyo Medical and Dental Univ, Tokyo, Japan

**7613** Inhibition of Increased Thrombin Receptor Activity Attenuated Monocrotaline-induced Pulmonary Hypertension in Rats
Yukimitsu Kuwabara, Graduate Sch of Medical Sciences, Kyushu Univ, Fukuoka, Japan
Kenji Sunagawa, Graduate Sch of Medical Sciences, Kyushu Univ, Fukuoka, Japan

**7614** Acute Effects of Adaptive Servo-Ventilation on Diurnal Respiratory Instability Quantified Using Novel Method in Patients With Heart Failure
Naoto Kumagai, Mie Univ Graduate Sch of Med, Tsu, Japan
Masaaki Ito, Mie Univ Graduate Sch of Med, Tsu, Japan
Toshio Nakanishi, Tokyo Women's Medical Univ, Tokyo, Japan

**7615** Valproic Acid, a Class I Histone Deacetylase Inhibitor, Suppresses the Development of Severe Pulmonary Hypertension in Rats
Beidi Lan, Tokyo Women's Medical Univ, Tokyo, Japan

**Abstract Poster Session**

**APS.712.01**

**Growth Factors, Cytokines, Signal Transduction II**

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Moshe Arditi, Los Angeles, CA

**7297** Syndesomes: Novel Therapeutics for Chronic Ulcers and Peripheral Ischemia
Subhamoy Das, Univ of Texas, Austin, Austin, TX
Aaron Blair Baker, Univ of Texas, Austin, Austin, TX

**7298** An Intermediary for Sirpα/SKap2-dependent Integrin-Stimulated Cytoskeletal Rearrangement in Macrophages, and the Implications for Atherosclerosis
Francis J Alenghat, Univ of Chicago, Chicago, IL
David E Golan, Harvard Medical Sch, Boston, MA
Abstract Poster Session

Heart Failure Pharmacology: From Diabetes to CKD

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
David Aguilar, Houston, TX

Pharmacological Targeting of the Hexosamine Biosynthesis Pathway (HBP) Overcomes Diabetes-Induced Impaired Myocardial Inotropic Responsiveness to α1-Adrenoceptor (α1-AR) Stimulation
Rebecca H Ritchie, Baker IDI Heart & Diabetes Inst, Melbourne, Australia
John C Chatham, Univ of Alabama at Birmingham, Birmingham, AL

Dipeptidyl Peptidase 4 Inhibition Ameliorates Hypertensive Heart Failure via Suppression of Angiotensin-II-mediated Cardiac Na+/H+ Exchanger1 Pathway
Yasuko K Bando, Nagoya Univ., Nagoya Aichi, Japan
Toyoaki Murohara, Nagoya Univ., Nagoya Aichi, Japan

Pathological Decline in Incretin Hormone Glucagon-like Peptide-1 Causes Cardiac Apoptosis and Dysfunction in Pressure-overloaded Heart Failure Through Cyclic AMP-dependent Mechanisms. -Distinct Role of Protein Kinase a and EPAC
Yasuko K Bando, Nagoya Univ., Nagoya Aichi, Japan
Toyoaki Murohara, Nagoya Univ., Nagoya Aichi, Japan

Dipeptidyl-Peptidase 4 Inhibitors and the Risk of Heart Failure - A Nationwide Case-Crossover Study
Jou Wei Lin, Natl Taiwan Univ Hosp Yun-Lin Brnch, Dou Lion City, Taiwan
Mei-Shu Lai, Natl Taiwan Univ, Taipei, Taiwan

Stimulation of Glucagon-Like-Peptide-1 Receptor Elicits the Protection Through Akt-1 in Infarcted Hearts
Ting C Zhao, Roger William Medical Ctr, Providence, RI

N-Terminal-pro-Brain Natriuretic Peptide Decreases Following Treatment with Alogliptin in Patients with Type 2 Diabetes and Recent Acute Coronary Syndromes: Results from EXAMINE
Faiez Zannad, CIC-INSERM-CHU, Vandoeuvre les Nancy, France
William B White, Calhoun Cardiology Ctr, Univ of Connecticut Sch of Med, Farmington, CT
Dysfunctional cAMP-Dependent Protein Kinase (PKA) Signaling Causes Impaired Autonomic Control in Diabetic Heart Failure
Lee Bockus, Oklahoma Medical Res Fndn, Oklahoma City, OK
Kenneth Humphries, Oklahoma Medical Res Fndn, Oklahoma City, OK

Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial of Once-Daily ZS-9 for Treatment of Hyperkalemia: Achievement and Maintenance of K+ in Subgroup Analysis of Patients with Heart Failure not on RAAS Inhibitors
Bhupinder Singh, Apex Res of Riverside, Riverside, CA

Dysfunctional cAMP-Dependent Protein Kinase (PKA) Signaling Causes Impaired Autonomic Control in Diabetic Heart Failure
Lee Bockus, Oklahoma Medical Res Fndn, Oklahoma City, OK
Kenneth Humphries, Oklahoma Medical Res Fndn, Oklahoma City, OK

Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial of Once-Daily ZS-9 for Treatment of Hyperkalemia: Achievement and Maintenance of K+ in Subgroup Analysis of Patients with Heart Failure not on RAAS Inhibitors
Bhupinder Singh, Apex Res of Riverside, Riverside, CA

Right Ventricular Dysfunction Plays an Important Role in Predicting Non-Response to Tolvaptan Treatment in Patients With Heart Failure With Reduced Ejection Fraction With Chronic Kidney Disease
Noriaki Iwahashi, Yokohama City Univ, Yokohama, Japan
Kazuo Kimura, Yokohama City Univ, Yokohama, Japan

Effects of the Oral Adsorbent of AST-120 in Patients with both Chronic Heart Failure and Chronic Kidney Disease
Miki Imazu, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan
Masafumi Kitakaze, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan

Heart Failure Pharmacotherapy: Diuretics and Beyond

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Throttle and Brake - A Novel Therapeutic Strategy in Post-Ischemic Acute Heart Failure by Combined Use of Dobutamine and Ivabradine
Jens Peter Bakkehaug, Univ of Tromsoe, Tromsoe, Norway
Ole Jakob How, Arctic Univ of Norway, Tromso, Norway

Outcomes and Survival With Home Intravenous Inotrope Therapy in Contemporary Heart Failure Management
Taimoor Hashim, Univ of Alabama at Birmingham, Birmingham, AL
Deepak Acharya, Univ of Alabama at Birmingham, Birmingham, AL

Chronic Diuretics Treatment in Dogs: Novel Diuretic ROMK Inhibitor versus Furosemide
Maya Dajee, Merck & Co, Kenilworth, NJ
Kathleen Sullivan, Merck & Co, Kenilworth, NJ

Effect of Eplerenone According to QRS Duration and Morphology in Emphasis-HF
John McMurray, Univ of Glasgow, Glasgow, United Kingdom

Acute Inhibition of Phosphodiesterase Type 5A (PDE5) with Sildenafil Augments Contractility of LV and Myocyte in Heart Failure
Tiankai Li, Wake Forest Sch of Med, Winston-Salem, NC
Che Ping Cheng, Wake Forest Sch of Med, Winston-Salem, NC

An Outcomes Assessment of Vasodilator Therapy in Pulmonary Arterial Hypertension Through Meta-Analysis of 31 Randomized Controlled Trials
John J Ryan, Univ of Utah, Salt Lake City, UT
Harlan Krumholz, Yale Univ, New Haven, CT

Neurohormonal Activation Status Influences Prognostic Implication of Diuretics in Acute Decompensated Heart Failure
Masahiro Hoshino, Kameda Medical Ctr, Kamogawa, Japan
Yuji Hashimoto, Kameda Medical Ctr, Kamogawa, Japan

Nitroxyl (HNO) Improves Ventricular Relaxation and Ca2+-Handling in Rats with Induced Chronic Diastolic Dysfunction
Steve R Roof, QTest Labs, Columbus, OH
Robert Hamlin, QTest Labs, Columbus, OH

Direct Cardiac Myosin Activation Augments Force Production in isolated Cardiomyocytes but might Impair Diastolic Functions
Laszlo Nagy, Debrecen, Hungary
Zoltan Papp, Debrecen, Hungary

Pro-Atrial Natriuretic Peptide: A Novel Guanylyl Cyclase-A Receptor Activator Which Goes Beyond Carperitide and Nesiritide
Tomoko Ichiki, Mayo Clinic, Rochester, MN
John C Burnett, Mayo Clinic, Rochester, MN
**Abstract Poster Session**

**APS.213.04**

**Heart Failure: Hospitalizations, Transitional Care, Devices and Surgery**

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

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**BOARD #**

**Poster Professor:**
Javed Butler, Atlanta, GA

2640  **Burden and Timing of Hospitalizations in Heart Failure: A Community Study**
Alanna M Chamberlain, Mayo Clinic, Rochester, MN  
Veronique L Roger, Mayo Clinic, Rochester, MN

2641  **Variation in Referral for Specialist Follow-Up and 30-Day Mortality in Patients Hospitalized With Heart Failure in England and Wales**
Connor A Emdin, Univ of Oxford, Oxford, United Kingdom  
Theresa McDonagh, King’s Coll London, London, United Kingdom

2642  **Effect of Home-Based Follow up Intervention on Readmissions and Mortality in Heart Failure Patients - A Meta-analysis of Randomized Controlled Trials**
Aaqib H Malik, Yale-Griffin Hosp, Derby, CT  
Haq Nawaz, Yale-Griffin Hosp, Derby, CT

2643  **Identifying Hospitalizations Related to Heart Failure in Dronedarone Users Who Are Supplementary Medicare Beneficiaries**
Chuntao Wu, Sanofi, Bridgewater, NJ  
Juhaeri Juhaeri, Sanofi, Bridgewater, NJ

2644  **Skilled Nursing Facilities and 30-day Hospital Readmissions in Heart Failure**
Sheila M Manemann, Mayo Clinic, Rochester, MN  
Veronique L Roger, Mayo Clinic, Rochester, MN

2645  **Cost-Effectiveness of Single-Chamber Compared with Dual-Chamber and Single-Lead with Atrial Sensing Implantable Cardioverter Defibrillators**
James V Freeman, Yale Univ Sch of Med, New Haven, CT

2646  **The Ethics of Unilateral ICD and CRT-D Deactivation: Patient Perspectives**
James N Kirkpatrick, Univ of Pennsylvania, Philadelphia, PA

2647  **Disparities in Advanced Heart Failure Therapy**
Khalil Murad, Univ of Minnesota, Minneapolis, MN  
Monica Colvin, Univ of Minnesota, Minneapolis, MN

2648  **Very Long Term Survival After Mitral Repair vs Replacement. a Propensity Score Analysis of a Large, Prospective, Multicenter International Registry**
Siham Lazam, Univ catholique de Louvain, Brussels, Belgium  
Jean-Louis Vanoverschelde, Univ catholique de Louvain, Brussels, Belgium

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**Abstract Poster Session**

**APS.503.01**

**Heart Failure: Inflammation and the Heart**

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

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**BOARD #**

**Poster Professor:**
Leslie W Miller, Tampa, FL

5121  **Ventricular Myocarditis Coincides With Atrial Myocarditis in Patients**
Paul Krijnen, VU Univ Medical Ctr, Amsterdam, Netherlands  
Hans Niessen, VU Univ Medical Ctr, Amsterdam, Netherlands

5122  **The Pivotal Role of Pentraxin 3, a New Inflammatory Marker, in Hypertensive Failing Heart With Normal Ejection Fraction**
Eiichiro Yamamoto, Kumamoto university, Kumamoto, Japan  
Hisao Ogawa, Kumamoto university, Kumamoto, Japan

5123  **MicroRNA-155: A New Player in Sepsis-Induced Cardiac Dysfunction**
Francisco Vasques-Nóvoa, Faculty of Med of Porto, Porto, Portugal  
Roberto Roncon-Albuquerque Jr., Faculty of Med of Porto, Porto, Portugal

**WITHDRAWN**

**5124**  **N-terminal Region of Cardiac Myosin Binding Protein-C Is Proinflammatory Following Myocardial Infarction**  
**5125**  **The Ethics of Unilateral ICD and CRT-D Deactivation: Patient Perspectives**

5126  **Circulating Invariant Natural Killer T Cells are Decreased in Patients With Chronic Heart Failure**
Akimichi Saito, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan  
Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

5127  **Cardiac Th1/Th2 Cytokine Imbalance Was Closely Associated With the Transition From Left Ventricular Hypertrophy to Diastolic Heart Failure in Salt-Sensitive Hypertensive Rats**
Eiichiro Yamamoto, Kumamoto university, Kumamoto, Japan  
Hisao Ogawa, Kumamoto university, Kumamoto, Japan
**MONDAY AM**

**5128** Atrium Fibrosis and Inflammation: Impaired Atrial Natriuretic Peptide System in Experimental Heart Failure  
Tomoko Ichiki, Mayo Clinic, Rochester, MN  
John C Burnett, Mayo Clinic, Rochester, MN

**5129** Acute Venous Congestion Enhances Vasoconstriction, Inflammation, Oxidative stress and Endothelial Activation and in Compensated Ambulatory Patients with Systolic Heart Failure on Stable Medical Regimen  
Paolo C Colombo, Columbia Univ, New York, NY

**5130** Extracellular Annexin A2 Promotes Trypanosoma cruzi Cardiotropism  
Conrad L Epting, Northwestern Univ, Chicago, IL  
David M Engman, Northwestern Univ, Chicago, IL

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**Abstract Poster Session**

**APS.506.10** Heart Failure: Long-Term Outcomes, Predictions and Population Science

South Hall A2 - Core 5  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**  
Anita Deswal, Houston, TX

**5326** Heart Failure With Preserved Ejection Fraction (HfP EF) and Atrial Fibrillation (AF) is Prognostically Equivalent to HF With Reduced Ejection Fraction (HFrEF) With or Without AF Among Community-Dwelling Older Adults  
Navkaranbir S Bajaj, Univ of Alabama Birmingham, Birmingham, AL  
Ali Ahmed, Univ of Alabama Birmingham, Birmingham, AL

**5327** Effect of Enalapril on Long-Term Survival among Patients with Left Ventricular Systolic Dysfunction: a 25-Year Near-Full Life-Cycle Follow-Up of SOLVD in Belgium  
Michel F Rousseau, Univ of Louvain, Brussels, Belgium

**5328** Ethnic Differences in Factors Precipitating Hospital Admissions for Heart Failure in Middle-Eastern Arabs and South Asians: Insights From the Gulf CARE Registry  
Amar M Salam, Hamad Medical Corp & Weill Cornell Medical Coll-Qatar, Doha, Qatar  
Magdi Yacoub, Qatar Cardiovascular Res Ctr, Doha, Qatar

**5329** Population Thresholds for Systematically Applying Nurse-Led Chronic Heart Failure Management Programs to Reduce Recurrent Hospitalization and Prolong Survival  
Simon Stewart, Baker Heart Res Inst, Melbourne, Victoria, Australia  
on behalf of the WHICH? Trial Investigators

**5330** Gender, Racial and Insurance Disparities in the Cardiac Resynchronization Therapy: Trends Over the Last Decade  
Nileshkumar J Patel, Staten Island Univ Hosp, Staten Island, NY  
Marcin Kowalski, Staten Island Univ Hosp, Staten Island, NY

**5331** Race and Gender Differences in Survival Among Hospitalized Heart Failure With Preserved Ejection Fraction: The Atherosclerosis Risk in Communities (ARIC) Surveillance Study  
Kavita Sharma, The Johns Hopkins Hosp, Baltimore, MD  
Stuart D Russell, The Johns Hopkins Hosp, Baltimore, MD

**5332** Medicare Readmission Penalties and Their Socioeconomic Correlates in Urban Hospitals  
Arshad A Javed, Wayne State Univ, Detroit, MI  
Amy M Horton, Univ of Michigan Coll of Pharmacy, Ann Arbor, MI

**5333** Utility of Combined Assessment of Exercise Oscillatory Breathing and Global Circumferential Strain to Predict Cardiac Events in Heart Failure Patients  
Hidekazu Tanaka, Kobe Univ Graduate Sch of Med, Kobe, Japan  
Ken-ichi Hirata, Kobe Univ Graduate Sch of Med, Kobe, Japan

**5334** Incremental Prognostic Significance of Peripheral Endothelial Dysfunction in Heart Failure With Reduced Left Ventricular Ejection Fraction  
Koichiro Fujiyukie, Kumamoto Univ, Kumamoto, Japan  
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

**5335** Malnutrition Assessed by Geriatric Nutritional Index Provides the Additional Long-Term Prognostic Information to Renal Dysfunction in Patients Admitted for Acute Decompensated Heart Failure  
Takahisa Yamada, Osaka General Medical Ctr, Osaka, Japan  
Masatake Fukunami, Osaka General Medical Ctr, Osaka, Japan
Abstract Poster Session

**Heart Failure: Predicting Heart Failure and Clinical Outcomes**

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

5151  
Subclinical Thyroid Dysfunction, Rather than Low-T3 Syndrome, is an Independent Predictor of Adverse Cardiac Events in Patients with Acute Decompensated Heart Failure  
Tomohiro Hayashi, Natl Cerebral and Cardiovascular Ctr, Suita, Japan  
Toshihisa Anzai, Natl Cerebral and Cardiovascular Ctr, Suita, Japan

5152  
Prognostic Importance of Novel Cardiac and Renal Biomarkers in Patients With Heart Failure, Reduced Ejection Fraction and Anemia  
John McMurray, Univ of Glasgow, Glasgow, United Kingdom  
James B Young, Cleveland Clinic, Cleveland, OH

5153  
Moderate to Severe Acute Kidney Injury During Heart Failure Treatment Provides the Additional Long-Term Prognostic Information to Hemoconcentration in Patients Admitted With Acute Decompensated Heart Failure  
Takahisa Yamada, Osaka General Medical Ctr, Osaka, Japan  
Masatake Fukunami, Osaka General Medical Ctr, Osaka, Japan

5154  
Serum Alkaline Phosphatase Elevation is an Independent Predicting Factor of Worsening Renal Function in the Patients with Acute Heart Failure  
Masahiro Yamazoe, St.Luke's Intl Hosp, Tokyo, Japan  
Mitsuki Isobe, Tokyo Medical and Dental Univ, Tokyo, Japan

5155  
Worsening Heart Failure During Acute Heart Failure Hospitalization: Insights from ASCEND-HF  
Jacob P Kelly, Duke Univ, Durham, NC  
Christopher M O'Connor, Duke Univ, Durham, NC

5156  
Impaired Systolic Function Assessed by Strain Imaging Predicts Cardiovascular Morbidity and Mortality in Heart Failure with Preserved Ejection Fraction  
Amil M Shah, Brigham and Women's Hosp, Boston, MA  
Scott D Solomon, Brigham and Women's Hosp, Boston, MA

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**Hypertension: Impact on Cardiac and Vascular Function**

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

7468  
Ablation of the Hypertension Candidate Gene ATP2B1 Results in Increased Blood Pressure and Cardiac Hypertrophic Remodeling  
Sally K Hammad, Univ of Manchester, Manchester, United Kingdom  
Elizabeth J Cartwright, Univ of Manchester, Manchester, United Kingdom

7469  
Identification of microRNAs that Target mRNA Encoding Atrial Natriuretic Peptide  
Connie Wu, Massachusetts General Hosp/ Harvard Medical Sch, Boston, MA  
Kenneth D Bloch, Massachusetts General Hosp/ Harvard Medical Sch, Boston, MA

7470  
Brain Angiotensin II Type1 Receptor Blockade Ameliorates the Development of Atrial Fibrillation via Sympathoinhibition Independent of Depressor Response in Hypertensive Rats  
Tomomi Nagayama, Kyushu Univ Graduate Sch of Medical Sciences, Fukuoka, Japan  
Kenji Sunagawa, Kyushu Univ Graduate Sch of Medical Sciences, Fukuoka, Japan
7471 In Vivo Induction of Regulatory T Cells Delays the Development of Hypertension in Stroke-Prone Spontaneously Hypertensive Rats
Masato Katsuki, Kyushu Univ Graduate Sch of Medical Sciences, Fukuoka, Japan
Kenji Sunagawa, Kyushu Univ Graduate Sch of Medical Sciences, Fukuoka, Japan

7472 Notch3 is Required for the Cardiac Adaptation to Hypertension
Héléne Ragot, INSERM, PARIS, France
Jane-Lise Samuel, INSERM, PARIS, France

7473 Vagus Nerve Stimulation Reduces Mean Arterial Pressure Through Structural and Electrical Remodeling of the Heart in Dahl Salt-Sensitive Rat Hypertension Model
Elena G Tolkaicheva, Univ of Minnesota, Minneapolis, MN

7474 Ang II activates the RhoA Exchange Factor Arhgef1 in Humans
Gervaise Loirand, Inserm, Nantes, France

7475 Adiponectin at Physiologically Relevant Concentrations Fails to Induce Direct Vasorelaxation but Regulates the Balance Between Other Endogenous Vasoconstrictors and Vasodilators via Cav-1/AdipoR-1 Signaling
Yajing Wang, Thomas Jefferson Univ, Philadelphia, PA
Xin Ma, Thomas Jefferson Univ, Philadelphia, PA

7476 Exercise-Mediated Wall Shear Stress Induces Mitochondrial Remodeling and Prevents Angiotensin II-Induced High Blood Pressure
Boa Kim, Temple Univ, Philadelphia, PA
Joon-Young Park, Temple Univ, Philadelphia, PA

7477 Artery Cell Contraction Regulated by ROS and NO Balance Directly Visualized by in vivo Multi-Photon Imaging Technique
Satoshi Nishimura, The Univ of Tokyo, and Jichi Medical Univ, Tokyo, Japan

Abstract Poster Session

Insights from IVUS, FFR and OCT

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Justin Davies, London, United Kingdom

6224 Clinical Significance of Echo-Attenuated Plaque on Intravascular Ultrasound in Patients With Stable Angina Pectoris
Shigeki Kimura, Yokosuka Kyosai Hosp, Yokosuka, Japan
Mitsuki Isobe, Tokyo Medical and Dental Univ, Tokyo, Japan

6225 Reproducibility Between Online and Offline Analysis of Qualitative Optical Coherence Tomography Results After Stenting in non-ST Elevation Acute Coronary Syndromes
Nicolas F Meneveau, Univ Hosp Jean Minjoz, Besancon, France
Francois Schiele, Univ Hosp Jean Minjoz, Besancon, France

6226 Predictors of “Visual-Functional Mismatch” in Contemporary Practice - The Lesion Characteristics Associating With Mismatch Between Angiographic Stenosis and Fractional Flow Reserve
Hiroyuki Arashi, Tokyo women’s medical university, Tokyo, Japan
Nobuhisa Hagiwara, Tokyo women’s medical university, Tokyo, Japan

6227 Persistent Hemodynamic Variability during Intravenous Adenosine Administration Affects Fractional Flow Reserve Assessment despite Stable Stenosis Hemodynamics as Expressed by Its Pressure Drop-Velocity Relationship
Lorena Casadonte, Academic Medical Ctr, Amsterdam, Netherlands
Maria Siebes, Academic Medical Ctr, Amsterdam, Netherlands

6228 Comparison of Wave-free Ratio with Fractional Flow Reserve in Patients with Diabetes Mellitus and with Prior Myocardial Infarction
Tomoyuki Ikeda, Kindai university, Osaka, Japan
Syunichi Miyazaki, Kindai university, Osaka, Japan

6229 Diagnostic Efficacy of Instantaneous Wave-free Ratio (iFR), Resting Distal Coronary Artery Pressure / Aortic Pressure, and iFR During Adenosine Administration Among Intermediate Coronary Lesions
Kensuke Matsuishi, MD, Kanagawa, Japan
Kazuo Kimura, PhD, Kanagawa, Japan

6230 Does Optical Coherence Tomography Guided Percutaneous Coronary Intervention Reduce Resource Utilization?
Ricardo Cigarroa, Massachusetts General Hosp, Harvard Medical Sch, Boston, MA
Ik-kyuk Jang, Massachusetts General Hosp, Harvard Medical Sch, Boston, MA

6231 Geographic Distribution of Cardiac Allograft Vasculopathy Associated With Acute Cellular Rejection: A Serial Three-Dimensional IVUS Study of Heart Transplant Recipients
Kozo Okada, Stanford Univ, Stanford, CA
Yasuhiro Honda, Stanford Univ, Stanford, CA

**Abstract Poster Session**

**APS.716.02 Insights into the Treatment and Outcomes of Patients with Acute Coronary Syndromes**

**South Hall A2 - Core 7**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Emily C O’Brien, Durham, NC

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**7388 Early Effect of Bezafibrate on Fibrinogen Levels, Inflammatory Response and Clinical Impact, in Patients With St Elevation Acute Myocardial Infarction**

Alejandra Madrid Miller, Insto Mexicano del Seguro Social UMAE Hosp de Cardiología, Mexico City, Mexico

Francisco Blanco Favela, Insto Mexicano del Seguro Social, Mexico City, Mexico

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**7389 Trends in Incidence, Invasive Management and Outcomes of Cardiogenic Shock Complicating Non ST-Segment Elevation Myocardial Infarction**

Navdeep Gupta, Medical Coll Of Wisconsin, Milwaukee, WI

Srinal Bangalore, NYU Langone Medical Ctr, New York, NY

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**7390 Bleeding Events in Clopidogrel-Treated Patients with STEMI is Associated with a Genetic Risk Score Based on High-Risk Genetic Polymorphisms**

Jing Wang, Fuwai Hosp, Chinese Acad of Medical Sciences and Peking Union Medical Coll, Beijing, China

Yi Yao, Fuwai Hosp, Chinese Acad of Medical Sciences and Peking Union Medical Coll, Beijing, China

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**7391 Time-Dependent Interactions of Prasugrel vs Clopidogrel on the Long-Term Risks of Stroke after Acute Coronary Syndromes: Results from the TRILOGY ACS Trial**

Chee Tang Chin, Natl Heart Ctr Singapore, Singapore, Singapore

Matthew T Roe, Duke Clinical Res Inst, Durham, NC

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**7392 Cytochrome P450 Polymorphism and Endothelial Dysfunction Additively Correlates With Adverse Cardiovascular Events in Patients With Coronary Heart Disease**

Noriaki Tabata, Kumamoto Univ, Kumamoto, Japan

Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

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**Abstract Poster Session**

**APS.204.02 Issues Surrounding Pharmacological Treatment of Heart Disease**

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Cynthia Arslanian-Engoren, Ann Arbor, MI

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**2108 Analysis of Vitamin D Levels in Patients With and Without Statin-induced Myalgia - A Systematic Review and Meta-analysis of 7 Studies with 2416 Patients**

Maciej Banach, Medical Univ of Lodz, Poland, Lodz, Poland

on (LBPMC) Group Lipid and Blood Pressure Meta-analysis Collaborati
2109  Internal Medicine Housestaff Perceptions of Statins and ACC/AHA Blood Cholesterol Guidelines
Peter Flueckiger, Emory Univ, Atlanta, GA
Laurence Sperling, Emory Univ, Atlanta, GA

2110  Comparative Effectiveness of Different Angiotensin II-Receptor Blockers for Survivors of ST-Elevation Myocardial Infarction: A Nationwide Cohort Study Using Insurance Claims Database
Min-Tsun Liao, Nati Taiwan Univ Hosp, Hsinchu Branch, HsinChu, Taiwan
Mei-Shu Lai, Nati Taiwan Univ, Taipei, Taiwan

2111  Does Testosterone Therapy Increase Risk of Cardiovascular Event Among Men? A Meta-Analysis
Nader Makki, Univ of Iowa, Iowa City, IA
Wassef Karrayni, St.Lukes hospital/Unity Point Healthcare, Cedar rapids, IA

2112  The Correlation of Patient Reported versus Observed Medication Adherence in Type 2 Diabetes (T2DM)
Katherine Kelly, Duke Univ Hosp System, Durham, NC
Bradi Granger, Duke Univ, Durham, NC

2113  Title: Quality and Efficacy of Patient Self-Management of Warfarin
Kathleen R Bonaventura, Cardiac Specialists a Div Of Northeast Medical Group, YNHHS, Fairfield, CT
Kerry Milner, Sacred Heart Univ, Fairfield, CT

2114  Results of a Patient Survey Assessing Knowledge of Anticoagulation Control and Therapy - A Report from the Michigan Anticoagulation Quality Improvement Initiative
Steven T Heidt, Univ of Michigan, Ann Arbor, MI
Jay H Kozlowski, Huron Valley-Sinai Hosp, Commerce, MI

2115  Statin Prescription and Dose Intensity Among Elderly Medicare Beneficiaries, by CV Disease Diagnosis and Prescriber Specialty
Charles A Herzog, Chronic Disease Res Group/Univ of Minnesota, Minneapolis, MN

2116  Environmental Tobacco Smoke Exposure is Associated with Dyslipidemia and Left Ventricular Structural and Functional Changes in Children
Kenji Harada, Harada Kids Clinic, Akita, Japan
Yukiko Harada, Harada Kids Clinic, Akita, Japan

2117  Digitalis is not Associated with Increased Mortality in Japanese Patients with Atrial Fibrillation: From the Fushimi AF Registry
Hisashi Ogawa, Kyoto Medical Ctr, Kyoto, Japan
The Fushimi AF Registry Investigators

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**Abstract Poster Session**

**Lipids, Lipid Mediators and Lipoprotein Metabolism**

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**Poster Professor:**
Daisy Sahoo, Milwaukee, WI

**CETP Inhibitor K-312 Lowers PCSK9 Expression and LDL Cholesterol Levels in vivo**
Katsutoshi Miyosawa, Ctr for Interdisciplinary Cardiovascular Sciences, Brigham and Women's Hosp, Boston, MA
Masanori Aikawa, Ctr for Interdisciplinary Cardiovascular Sciences, Brigham and Women's Hosp, Boston, MA

**Icosabutate, a Novel Structurally Enhanced Fatty-acid Increases Hepatic Uptake of Cholesterol and Triglycerides in Conjunction With Increased Hepatic LDL Receptor Expression**
David A Fraser, Pronova BioPharma Norge AS - part of BASF, Oslo, Norway
Svein Olaf Hustvedt, Pronova BioPharma Norge AS - part of BASF, Oslo, Norway

**Differential Uptake of Omega-3 Polysaturated Fatty Acids in Trial Subjects Could Explain Variability of the Trials' Outcome**
Nisar A Shaikh, Ret Professor, Univ of Toronto, Mississauga, ON, Canada
George Jackowski, Pivotal Therapeutics Inc., Woodbridge, ON, Canada

**Metabolic Burden Switches Impact of Betatrophin (ANGPTL8) R59W Mutation From Atheroprotective to Atherogenic Lipid Profiles**
Atsushi Nohara, Kanazawa Univ Graduate Sch of Medical Sciences, Kanazawa, Japan
Hiroshi Mabuchi, Kanazawa Univ Graduate Sch of Medical Sciences, Kanazawa, Japan

**Significance of Lipoprotein-Associated Phospholipase A2-Mediated Regulation of Akt and Caspase-7 Activity in Macrophage Apoptosis**
Hisakazu Ogita, Shiga Univ of Medical Science, Otsu, Japan
Dimitar P Zankov, Shiga Univ of Medical Science, Otsu, Japan

**Lipoprotein Subclasses, Size, and Statin-Associated Incident Diabetes: An Analysis From the JUPITER Trial**
Sagar Dugani, Brigham and Women's Hosp, Boston, MA
Samia Mora, Brigham and Women's Hosp, Boston, MA
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<td>Lipids, Lipid Mediators and Lipoprotein Metabolism: Cellular and Animal I</td>
<td>Ariane Fischer, Goethe Univ Frankfurt, Stefanie Dimmel, Goethe Univ Frankfurt</td>
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<td>APS.201.02</td>
<td>Lipids, Lipid Mediators and Lipoprotein Metabolism: Cellular and Animal II</td>
<td>Weiqin Chen, Georgia Regents Univ, Augusta, GA Lawrence Chan, Baylor Coll of Med, Houston, GA</td>
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<td>Sergio Fazio, Portland, OR</td>
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<td>APS.201.02</td>
<td>Lipids, Lipid Mediators and Lipoprotein Metabolism: Cellular and Animal II</td>
<td>Sergio Fazio, Portland, OR</td>
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2013  ROCK2 Mediates the Uptake of Fatty Acids through the Transcriptional Regulation of CD36  
Christina J Park, Univ of Chicago, Chicago, IL  
Pat P Ongusaha, Univ of Chicago, Chicago, IL

2014  Ttc39b Deficiency Has a Beneficial Role on Cholesterol and Triglyceride Absorption in Enterocytes  
Masahiro Koseki, Osaka Univ Graduate Sch, Suita, Osaka, Japan  
Shizuya Yamashita, Osaka Univ Graduate Sch, Suita, Osaka, Japan

2015  NLRP3 Inflammasome Promote Myocardial Remodeling During Diet-Induced Obesity  
Trine Ranheim, Oslo Univ Hosp Rikshospitalet, Oslo, Norway  
Arne Yndestad, Oslo Univ Hosp Rikshospitalet, Oslo, Norway

2016  DPP-4 Inhibition Reduces Atherosclerosis by Priming Monocytes into Alternative M2 Macrophages  
Christoph Brenner, Munich Univ Hosp, Munich, Germany  
Nicolle Krankel, Univ of Zurich, Schlieren, Switzerland

2017  Endothelial Cell Specific CD36 Deletion Reduces Uptake of Fatty Acids by the Heart  
Florian Willecke, New York Univ Sch of Med, New York, NY  
Ira J Goldberg, New York Univ Sch of Med, New York, NY

2018  Hepatic HNF1α Knockdown Reduces Circulating PCSK9 Levels and Increases Liver LDL Receptor Abundance in Mice  
Jingwen Liu, VA Palo Alto Health Care System, Palo Alto, CA

2019  Phthalate Substitute Plasticizers Activate PXR and Induce Dyslipidemia in Mice  
Yipeng Sui, Univ of Kentucky, Lexington, KY  
Changcheng Zhou, Univ of Kentucky, Lexington, KY

2020  High Density Lipoprotein in Coronary Artery Disease Impairs Vascular Endothelial Growth Factor- Induced Angiogenesis  
Jingsong Ou, The First Affiliated Hosp, Sun Yat-sen Univ, Guangzhou, China  
Shen-Ming Wang, The First Affiliated Hosp, Sun Yat-sen Univ, Guangzhou, China

**Abstract Poster Session**

**Magnetic Resonance Imaging: Arrhythmia**

South Hall A2 - Core 1

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**Poster Professor:**  
Gregory Kicska, Seattle, WA

**Board #**

1271  The Effect of Atrial Fibrillation at the Time of Imaging on Measurement of Myocardial T1 Time  
Jay A Montgomery, Vanderbilt Univ Medical Ctr, Nashville, TN  
Mark Lawson, Vanderbilt Univ Medical Ctr, Nashville, TN

1272  Atrial Fibrillation Alters Both Left and Right Atrial 3D Hemodynamics  
Michael Markl, Northwestern Univ, Chicago, IL

1273  The Presence of Left Ventricular Scar in Atrial Fibrillation is associated with Major Adverse Cardiovascular Events  
Promporn Suksaranjit, Univ of Utah Sch of Med, Salt Lake City, UT  
Christopher J McGann, Univ of Utah Sch of Med, Salt Lake City, UT

1274  Association of Left Atrial Function and Left Atrial Fibrosis in Patients with Atrial Fibrillation: a Cardiac Magnetic Resonance Study  
Mohammadali Habibi, Johns Hopkins Univ, Baltimore, MD  
Saman Nazarian, Johns Hopkins Univ, Baltimore, MD

1275  Atrial Fibrillation is Associated with Altered Left Atrial 3D Hemodynamics and Increased Stasis  
Daniel C Lee, Northwestern Univ, Chicago, IL  
Jeffrey J Goldberger, Northwestern Univ, Chicago, IL

1276  Structural Remodeling Determinants of Reduced Left Atrial Blood Flow Measured by 4D Flow MRI in Patients With Atrial Fibrillation  
Jason Ng, Northwestern Univ, Chicago, IL  
Jeffrey J Goldberger, Northwestern Univ, Chicago, IL

1277  First Clinical Experience of Novel MRI Artifact Suppression Sequence in ICD Patients Undergoing Scar Delineation for Ventricular Tachycardia (VT) Ablation  
Timm Dickfeld, Univ of Maryland, Baltimore, MD

1278  Abnormal Right Ventricular Strain by Cardiac Magnetic Resonance in Preclinical Arrhythmogenic Right Ventricular Cardiomyopathy  
David A Bluemke, Natl Insts of Health, Bethesda, MD
1279 Assessment of Acute Cryo and RF Ablation Lesions by Non-contrast and Contrast Enhanced MRI Techniques: Similarities and Differences
Eugene Kholmovski, Univ of Utah, Salt Lake City, UT
Nassir Marrouche, Univ of Utah, Salt Lake City, UT

1280 Utility of Late Gadolinium Enhancement to Predict Response to Cardiac Resynchronization Therapy: A Meta-analysis
Marissa Edmiston, MetroHealth Medical Ctr, Cleveland, OH
Ashish Aneja, MetroHealth Medical Ctr, Cleveland, OH

Abstract Poster Session

Mechanical Circulatory Support: Interventions to Affect Outcomes
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
Michael Kiernan, Boston, MA

5356 Are Continuous-Flow Left Ventricular Assist Devices (CF-LVAD) Better Than the Waiting List? A Propensity-score Matched Analysis of CF-LVAD versus Waiting List for Adult Patients in United Network for Organ Sharing Status II (UNOS-II)
Stefano Mastrubuoni, St Luc’s Hosp, Univ’ Catolique du Louvain, Brussels, Belgium
Jose Garcia, Massachusetts General Hosp, Harvard Univ, Boston, MA

5357 Comparison of Infectious Complications Encountered in Heart Transplant Recipients With and Without Pre-Transplant LVAD Therapy
Muhammad Rizwan Sohail, Mayo Clinic, Rochester, MN

5358 Are Patients Implanted with a Ventricular Assist Device as Destination Therapy Created Equal? Analysis of Outcomes by Implant Indications
Simon Mattais, Vanderbilt Univ Medical Ctr, Nashville, TN
John M Stulak, Vanderbilt Univ Medical Ctr, Nashville, TN

5359 Long Term Valvular Outcomes With Patients Supported With HVAD and HeatMate II LVADS
Scott C Silvestry, Washington Univ, St Louis, MO
Akinobu Itoh, Washington Univ, St Louis, MO

5360 Left Ventriicle Internal Dimension in Diastole Strongly Predicts Long-term Survival Following Continuous Flow Left Ventricular Assist Device Implantation
Steve K Singh, Baylor Coll of Med, Houston, TX
Hari R Malidi, Baylor Coll of Med, Houston, TX

5361 Can 3D Echocardiography Play a Role in Left Ventricular Assist Device Optimization? Francesco Mattessanti, Univ of Chicago, Chicago, IL

5362 Cardiac Index Declines During Long-term LVAD Support
Rohan J Kalathiya, Johns Hopkins Hosp, Baltimore, MD
Ryan J Tedford, Johns Hopkins Hosp, Baltimore, MD

5363 Does Left Ventricular Assist Device (LVAD) Implantation Affect the Driving Patterns in Patients With End Stage Heart Failure?
Mamatha Pinninti, Aurora St Luke’s Medical Ctr, Milwaukee, WI
Nasir Z Sulemanjee, Aurora Cardiovascular Services, Aurora Sinai/Aurora St Luke’s Medical Ctr, Univ of Wisconsin Sch of Med and Public Health, Milwaukee, WI

5364 Point of Care Testing Overestimates INR in CF-LVAD Patients
Marija Dionizovik-Dimanovski, Columbia Univ Medical Ctr, New York, NY
Ulrich P Jorde, Columbia Univ Medical Ctr, New York, NY

5365 Survival after Veno-arterial Extracorporeal Membrane Oxygenation Support is Dependent on Underlying Etiology of Cardiogenic Shock
Brett J Carroll, Massachusetts General Hosp, Boston, MA
Jose P Garcia, Massachusetts General Hosp, Boston, MA

Abstract Poster Session

Mechanisms of Atherosclerosis IV
South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Hong Chen, Oklahoma City, OK

7016 PPAP2B Expression Regulates the Development of Atherosclerosis
Paul Mueller, Univ of Kentucky, Lexington, KY
Susan Smyth, Univ of Kentucky, Lexington, KY
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<td>Scamc-1 is a Novel Extracellular Vesicle Protein Linked to Vascular Calcification</td>
<td>Joshua D Hutcheson, Brigham and Women's Hosp, Boston, MA; Elena Aikawa, Brigham and Women's Hosp, Boston, MA</td>
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<td>7018</td>
<td>Rage Dependent Macropinocytosis Mediates Endocytosis of Enzyme Modified Non Oxidized LDL and Foam Cell Formation in Mouse Aortic Smooth Muscle Cells</td>
<td>Bijoy Chellan, Univ of Chicago, Chicago, IL; Marion Hofmann Bowman, Univ of Chicago, Chicago, IL</td>
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<td>VSMC-specific Genetic Deletion of Nox1, a Regulatory Subunit of Nox1 NADPH Oxidase, Attenuates Vascular Inflammation and Atherosclerosis in ApoE-/ Mice</td>
<td>Anhiro Sumida, Univ of North Carolina Sch of Med, Chapel Hill, NC; Marschall Runge, Univ of North Carolina Sch of Med, Chapel Hill, NC</td>
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<td>7020</td>
<td>Novel Apolipoprotein E-derived ABCA1 Agonist Peptide (CS-6253) Promotes Reverse Cholesterol Transport in vitro and Induces de novo Formation of Apo(a-1 Containing preα1 HDL in Human Plasma</td>
<td>Anouar Hafiane, McGill Univ, Montreal, QC, Canada; Jacques Genest, McGill Univ, Montreal, QC, Canada</td>
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<td>7021</td>
<td>Apo-A Suppresses Neointimal Hyperplasia Following Stent Deployment and Modulates Neointimal Cellular Phenotype</td>
<td>Laura Vanags, The Heart Res Inst, Newtown, Australia; Christina Bursill, The Heart Res Inst, Newtown, Australia</td>
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<td>7022</td>
<td>Combined Effect of an Interleukin-6 Gene Variant and Smoking on Endothelial Function, Inflammatory and Thrombotic Processes and Prevalence of Coronary Artery Disease</td>
<td>George Hatzi, Hippokration Hosp, Greece; Athens, Greece; Dimitris Tousoulis, Hippokration Hosp, Greece; Athens, Greece</td>
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<td>7023</td>
<td>Bone Morphogenetic Protein 2/4 Stimulate Dendritic and T Cell Inflammatory Responses in Atherosclerosis</td>
<td>Jorge A Scutti, Albert Einstein Inst, São Paulo, Brazil</td>
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<td>A Novel ATF4 Dependent ER-Stress Induced Transcriptional Unit Within the CHAC1 Promoter</td>
<td>Imran N Mungre, LSU-Health-New Orleans, New Orleans, LA</td>
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<td>Relationship Between Neutrophil-to-Lymphocyte Ratio and Plaque Components in Patients With Coronary Artery Disease: Virtual Histology Intravascular Ultrasound Analysis</td>
<td>Young Joon Hong, Chonnam Nati Univ Hosp, Gwangju, Republic of Korea; Jong Chun Park, Chonnam Nati Univ Hosp, Gwangju, Republic of Korea</td>
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<td>7027</td>
<td>Endothelial Microparticles Induced by TNF-α Vary in miRNA Content and Physical Properties: Implications for Their Role in Cell-to-Cell Communication</td>
<td>Tamas Alexy, Emory Univ Sch of Med, Atlanta, GA; Charles D Searles, Emory Univ Sch of Med, Atlanta, GA</td>
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<td>Atypical Mechnanosensitive MicroRNA-712 Derived From Pre-ribosomal RNA Induces Endothelial Inflammation and Atherosclerosis</td>
<td>Sandeep Kumar, Emory Univ, Atlanta, GA; Hanjoong Jo, Emory Univ, Atlanta, GA</td>
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<td>Protease-activated Receptor 4 Deficiency Reduces Atherosclerosis</td>
<td>A Phillip Owens, III, Univ of North Carolina at Chapel Hill, Chapel Hill, NC; Nigel Mackman, Univ of North Carolina at Chapel Hill, Chapel Hill, NC</td>
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<td>7030</td>
<td>Patterns of Coronary Plaque Progression: Phasic versus Linear A Combined Optical Coherence Tomography and Intravascular Ultrasound Study</td>
<td>JinWei Tian, Massachusetts General Hosp, Boston, MA; Ik-Kyung Jang, Massachusetts General Hosp, Boston, MA</td>
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<td>7031</td>
<td>Alternatively Spliced Tissue Factor promotes plaque progression, inflammation and angiogenesis in experimental atherosclerosis</td>
<td>Chiara Giannarelli, Icahn Sch of Med at Mount Sinai, New York, NY</td>
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Inhibition and Genetic Deficiency of Trem-1 Receptor Reduces Development of Experimental Atherosclerosis in Mice
Jérémie Joffre, INSERM U970, Paris, France
Hatif Ait Oufella, INSERM U970, Paris, France
Monday, November 17 • Chicago, Illinois
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Intermittent Hypoxia Induces Early Pro-Atherogenic Changes in Aortic Wall Macrophages in a Murine Model of Obstructive Sleep Apnea
Alex Gileles-Hillel, Univ of Chicago, Chicago, IL
David Gozal, Univ of Chicago, Chicago, IL

The TMAO Generating Enzyme Flavin Monoxygenase 3 (FMO3) is a Novel Regulator of Cholesterol Balance
J Mark Brown, Cleveland Clinic, Cleveland, OH

Loss of Zfp148 Reduces Atherosclerosis in Mice by Activating P53
Volkan I Sayin, Gothenburg Univ, Gothenburg, Sweden

Adiponectin Limits Monocytic Microparticle-Induced Inflammasome Activation and Endothelial Dysfunction
Mehroz Ehsan, St Michaels Hospital, Toronto, ON, Canada
Subodh Verma, St Michaels Hospital, Toronto, ON, Canada

Mechanisms of Atherosclerosis I
South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM
BOARD #

Poster Professor:
Chen Yan, Rochester, NY

Macrophage P90rsk Accelerates Atherosclerosis by Inhibiting Efferocytosis
Kyungsoo Heo, Univ of Rochester Medical Ctr, Rochester, NY
Jun-ichi Abe, Univ of Rochester Medical Ctr, Rochester, NY

Dendritic Cell Surface Proteoglycan Binding-mediated Internalization of the Apob-100 Peptide P210 Increases Cd8+ T Cell Cytolytic Function
Xiaoning Zhao, Cedars-Sinai Medical Ctr, Los Angeles, CA
Kuyang-Yuh Chyu, Cedars-Sinai Medical Ctr, Los Angeles, CA

MiR-30e Targets IGF2-Regulated Osteogenesis in Bone Marrow Derived Mesenchymal Stem Cells, Aortic Smooth Muscle Cells, and APOE-/- Mice
Wen Ding, Univ of Miami Miller Sch of Med, Miami, FL
Lina A Shehadeh, Univ of Miami Miller Sch of Med, Miami, FL

Nucleostemin and Nucleophosmin Express with Up-regulating Telomere Reverse Transcriptase in the Arteriosclerotic Lesions
Kunimitsu Iwai, Kanazawa Medical Univ, Ishikawa-ken, Japan
Shigeto Morimoto, Kanazawa Medical Univ, Ishikawa-ken, Japan

PKR-Like Endoplasmic Reticulum Kinase (PERK) and Glycogen Synthase Kinase (GSK)-α/β Signaling Regulate Atherosclerosis Development
Cameron McAlpine, McMaster Univ, Hamilton, ON, Canada
Geoff Werstuck, McMaster Univ, Hamilton, ON, Canada

Maternal High Fat Diet Exaggerates Atherosclerosis Development in Adult Offspring by Augmenting Periaortic Adipose Tissue-Specific Proinflammatory Response
Noriyuki Wakana, Kyoto Prefectural Univ Sch of Med, Kyoto, Japan
Hiroyuki Yamada, Kyoto Prefectural Univ Sch of Med, Kyoto, Japan

Loss of LRP6/TCF7L2 Regulation of Vascular Smooth Muscle Cell Phenotype Contributes to Coronary Artery Disease
Roshni Srivastava, Yale Univ, New Haven, CT
Arya Mani, Yale Univ, New Haven, CT
Abstract Poster Session

APS.702.04
Mechanisms of Atherosclerosis II

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
Chunxiang Kevin Zhang, Chicago, IL

7048
Monocyte/Macrophage-Specific Insulin-Like Growth Factor-1 Receptor Deficiency Promotes Lipid Accumulation and Inflammatory Responses in Macrophages, Leading to Increased Atherosclerosis
Yusuke Higashi, Tulane Univ Sch of Med, New Orleans, LA
Patrice Delafontaine, Tulane Univ Sch of Med, New Orleans, LA

7049
Generation of CD8+ Effector Memory T cells by Diet-induced Hypercholesterolemia in apoE-/- Mice
Paul C Dimayuga, Cedars-Sinai Medical Ctr, Los Angeles, CA
Prediman K Shah, Cedars-Sinai Medical Ctr, Los Angeles, CA

7050
Preventive Effects of Tumor Necrosis Factor-Stimulated Gene-6 on Atherosclerosis
Takuya Watanabe, Tokyo Univ of Pharmacy and Life Sciences, Tokyo, Japan

7051
Increased Atherosclerotic Plaque Instability in Advanced Atherosclerosis with Aging: the Role of Calpain 2 in SOD2-deficient ApoE-/ Mice
Aleksandr E Vendrov, Univ of North Carolina, Chapel Hill, NC
Marschall S Runge, Univ of North Carolina, Chapel Hill, NC

7052
Low-Density Lipoprotein of Systemic Lupus Erythematosus Patients Contains Lysophosphatidylcholine-Rich Lipid That Induces Overexpression of CX3CL1 in Endothelial Cells
Hua-Chen Chan, Kaohsiung Medical Univ Hosp, Kaohsiung, Taiwan
Chu-Huang Chen, Texas Heart Inst, Houston, TX

7053
Inhibition of Dynamin-Related Protein 1 Accelerates Vascular Calcification in apoE-Deficient Mice through AKT Activation
Maximillian Rogers, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA
Elena Akawa, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA

7054
Low Dose Oral Cyclophosphamide Therapy Reduces Atherosclerosis Progression and Promotes Plaque Stability in a Murine Model of Atherosclerosis
Yayoi Sato-Okabayashi, Juntendo Univ, Tokyo, Japan
Koichi Hattori, Inst of Medical Science at the Univ of Tokyo, Tokyo, Japan

7055
Brown Adipose Tissue Transplantation Inhibits Atherosclerosis Development in Recipient ApoE Deficient Mice Without Affecting Glucose Homeostasis
Masakazu Kikai, Kyoto Prefectural Univ of Med, Kyoto, Japan
Hiroyuki Yamada, Kyoto Prefectural Univ of Med, Kyoto, Japan

7056
Dendritic Cells Play a Critical Role in the Initiation of Atherosclerosis
Mengyao Jin, Univ of North Carolina at Chapel Hill, Chapel Hill, NC
Peng Liu, Univ of North Carolina at Chapel Hill, Chapel Hill, NC

7057
Four-and-a-Half LIM Domain Protein-2 Absence Reduces Atherogenesis in Apolipoprotein E-deficient Mice: Role of Monocytic Immune Cells
Sven Wassmann, McGill Univ, Montreal, QC, Canada

Abstract Poster Session

APS.702.05
Mechanisms of Atherosclerosis III

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
Gangjian Qin, Chicago, IL

7058
Novel Assay for Detection of LDL Transcytosis Across Coronary Endothelium Reveals an Unexpected Role for SR-B1
Warren L Lee, Univ of Toronto, Toronto, ON, Canada

7059
Overexpression of Human Omentin in a Fat-Specific Manner Attenuates Atherosclerotic Lesion Formation in ApoE-Deficient Mice
Mizuho Hiramatsu-Ito, Nagoya Univ Graduate Sch of Med, Nagoya, Japan
Noriyuki Ouchi, Nagoya Univ Graduate Sch of Med, Nagoya, Japan
7060 Selective Estrogen Receptor Modulator Retards Arterial Senescence and Atherosclerosis Through Restoration of Down-regulated Sirt-1 in Post-menopause Model Mouse
Takahiro Miyachi, Graduate Sch of Medical and Dental Sciences, Kagoshima Univ, Kagoshima, Japan
Mitsuru Oishi, Graduate Sch of Medical and Dental Sciences, Kagoshima Univ, Kagoshima, Japan

7061 Insulin-like Growth Factor I (IGF-1) Reduces Lipid Oxidation and Foam Cell Formation via Downregulation of 12/15-lipoxygenase
Sergiy Sukhanov, Tulane Univ Sch Med, New Orleans, LA
Patrick Delafontaine, Tulane Univ Sch Med, New Orleans, LA

7062 Arterial Calcification Can Be Inhibited via Stress Protein Induction Through a PPAR-dependent Pathway
Tzongshi Lu, Brigham and Women's Hosp, Harvard Medical Sch, Boston, MA

7063 Dipeptidyl-Peptidase-4 Inhibitor, Des-Fluoro-Sitagliptin, Prevented the Progression of Established Atheromatous Plaques in ApoE-Deficient Mice - Possible Involvement of AMP-Activated Protein Kinase Pathway - Hirofumi Kurokawa, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

7064 Proprotein Convertase Subtilisin/Kexin Type 9 Regulates Migration of Mononuclear Cells
Isabell A Just, Deutsches Herzzentrum Berlin, Berlin, Germany
Philipp Stawowy, Deutsches Herzzentrum Berlin, Berlin, Germany

7065 Inhibition of Bone Morphogenetic Protein Signaling Reduces Endothelial-Mesenchymal Transition and Vascular Smooth Muscle Cell Calcification Associated with Matrix Gla Protein Deficiency
Megan F Burke, Massachusetts General Hosp, Boston, MA
Rajeev Malhotra, Massachusetts General Hosp, Boston, MA

7066 The Mammalian Target of Rapamycin Activation is Required for Monocyte Proinflammatory Response in Patients with Coronary Artery Disease
Zuyi Yuan, First Affiliated Hosp of Xi'an Jiaotong Univ Health Science Ctr, Xi'an city, China

7067 Endothelial-Specific Deletion of Epsin-5 Attenuates Atherosclerosis in ApoE-Deficient Mouse Model
Yunzhou Dong, Oklahoma Medical Res Fndn, Oklahoma City, OK
Hong Chen, Oklahoma Medical Res Fndn, Oklahoma City, OK

Abstract Poster Session

Metabolic Remodeling in Heart Failure: Discoveries for Translation

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Gary Lopaschuk, Edmonton, AB, Canada

Angiotensin Converting Enzyme 2 Deficiency Results in Cardiac Insulin Resistance in Response to High-Fat Diet
Vaibhav B Patel, Univ of Alberta, Edmonton, AB, Canada
Gavin Y Oudit, Univ of Alberta, Edmonton, AB, Canada

Short Chain Acyl-CoA Intermediates in the Failing Heart: Further Evidence of an Energy Starved State
J Eduardo Rame, Univ of Pennsylvania, Philadelphia, PA

Western Diet for One Month Impairs Myocardial Energetics and Both Systolic and Diastolic Pump Function in the Mouse Heart
Ivan Luptak, Boston Medical Ctr, Boston, MA
Wilson S Colucci, Boston Medical Ctr, Boston, MA

Loss of Mitochondrial Pyruvate Carrier 1 in Cardiomyocytes Leads to Compensated Cardiac Hypertrophy in Non-stressed Hearts
Yuan Zhang, Univ of Iowa, Iowa City, IA
E Dale Abel, Univ of Iowa, Iowa City, IA

Increased Circulating Levels of Total and Very Long-Chain Ceramides as Markers of Abnormal Lipid Metabolism and Lipotoxicity in Patients With Chronic Stable Heart Failure
Lily Yue Deng, Columbia Univ Medical Ctr, New York, NY
P Christian Schulze, Columbia Univ Medical Ctr, New York, NY

Defects of Myocardial Mitochondrial Function in Patients With End-stage Heart Failure Are Associated With Reduced EndonucleaseG
Vojtech Melenovsky, Inst for Clinical and Experimental Med - IKEM, Prague, Czech Republic
Josef Houstek, Inst of Physiology, Acad of Sciences of CR, Prague, Czech Republic

Palmitate, Not Oleate, is the Preferred Fatty Acid for Cardiac Triacylglycerol Synthesis
Stephen C Kolwicz, Univ of Washington, Seattle, WA
Rong Tian, Univ of Washington, Seattle, WA
Abnormalities of Mitochondrial Number and Function in Pediatric Idiopathic Dilated Cardiomyopathy
Kathryn C Chatfield, Univ of Colorado Denver, Aurora, CO
Brian L Stauffer, Univ of Colorado Denver, Aurora, CO

Metabolic Remodeling in Mice with Cardiomyocyte-Specific Fatty Acid Overload
Aly Elezaby, Boston Univ Sch of Med, Boston, MA
Edward J Miller, Boston Univ Sch of Med, Boston, MA

Normalizing Myocardial Carbohydrate Metabolism Reverses Energetic Impairment and Diastolic Dysfunction in a Rodent Model of Obesity
Andrew JM Lewis, Univ of Oxford, Oxford, United Kingdom
Damian J Tyler, Univ of Oxford, Oxford, United Kingdom

Mitochondria and Energy Metabolism
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Mitochondrial Protein ES1 Deficiency Leads to Cardiac Hypertrophy Due to Disturbances in Mitochondrial Energy Metabolism
Qinqiang Long, Univ of Alabama at Birmingham, Birmingham, AL
Qinglin Yang, Univ of Alabama at Birmingham, Birmingham, AL

Protein Phosphatase 2C-alpha Knockdown Reduces Angiotensin II-Mediated Skeletal Muscle Wasting via Restoration of Mitochondrial Recycling and Function
Alexander M Tabony, Tulane Univ, New Orleans, LA
Patrice Delafontaine, Tulane Univ, New Orleans, LA

Mitochondrial Spatial and Temporal Resolution Before and After Left Ventricular Assist Device Support in Advanced Heart Failure Patients
David A Liem, UCLA, Los Angeles, CA
Peipei Ping, UCLA, Los Angeles, CA

Toll-Like Receptor 4 Knockout Preserves Cardiac Function in High Fat Diet-Induced Obesity
Jun Ren, Univ of Wyoming, Laramie, WY

Mitochondria and Redox Regulation of Cardioprotection
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

On-Pump Cardiac Surgery in Humans Induces Myocardial Nitric Oxide Synthase Dysfunction via S-Glutathionylation of eNOS
Raja Jayaram, Univ of Oxford, Oxford, United Kingdom
Barbara Casadei, Univ of Oxford, Oxford, United Kingdom

Parathyroid Hormone-Related Peptide Protects Cardiomyocytes from Oxidative Stress: First Evidence of a Novel Endocrine-Cardiovascular Interaction
Nabanita S Datta, Wayne State Univ Sch of Med, Detroit, MI
Monday, November 17  •  Chicago, Illinois

5523  Oxidative Stress Accelerates Senescence and Reduces Life Span but Does Not Alter Cardioprotection in Mice Over-expressing H11kinase/hsp22  
Bijan Ghaleh, INSERM U955, Créteil, France

5524  Nitrite Decreases Oxidative Stress Through Inhibition of Nuclear Factor-kappaB (NF-κB) Signaling Pathway During Chronic Ischemic-Induced Heart Failure  
Kazi N Islam, LSU Health Sciences Ctr, New Orleans, LA  
David J Lefer, LSU Health Sciences Ctr, New Orleans, LA

5525  Boronated Antioxidant Prodrug (BRAP) as a Novel Hydrogen Peroxide-activatable Therapy for Ischemia-reperfusion Injury  
Peter M Kang, Beth Israel Deaconess Hosp, Boston, MA

5526  Increased Mitochondrial Reactive Oxygen Species Lead to Deleterious JNK Signaling and Ischemia-Reperfusion Injury in AMPK-Inactivated Hearts  
Vlad G Zaha, Yale Sch of Med, New Haven, CT  
Lawrence H Young, Yale Sch of Med, New Haven, CT

5527  A Decrease in Mitochondrial, but Not Cytosolic, Iron Protects Against Cardiac Ischemia-Reperfusion Damage Through a Reduction in ROS  
Hsiang-Chun Chang, Feinberg Cardiovascular Res Inst, Northwestern Univ, Chicago, IL  
Hossein Ardehali, Feinberg Cardiovascular Res Inst, Northwestern Univ, Chicago, IL

5528  The Cardiolipin-targeting Peptide Bendavia Improves Post-ischemic Mitochondrial Energetics by Sustaining Native Respiratory Protein Complexes  
David Brown, East Carolina Univ, Greenville, NC

5529  Attenuating the Interaction Between Delta PKC (dPKC) and the d Subunit of F1Fo ATP Synthase (dF1Fo) protects Against Myocardial Infarction in Rats  
John A Johnson, Georgia Regents Univ, Augusta, GA

5530  Is Mitochondrial DNA Fragmentation a Major Contributor to Necrosis in Myocardial Infarction?  
Michael V Cohen, Univ of South Alabama, Mobile, AL  
James M Downey, Univ of South Alabama, Mobile, AL

Abstract Poster Session

Molecular Signaling in Cardiac Growth

South Hall A2 - Core 5

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Mansoureh Eghbali, Los Angeles, CA

SDPR/Cavin-2 Modulates Akt Signaling Involved in Regulation of Hypertrophy and Apoptosis in Cardiomyocytes
Naoki Maruyama, Kyoto Prefectural Univ of Med, Kyoto, Japan  
Tomomi Ueyama, Kyoto Prefectural Univ of Med, Kyoto, Japan

Distinct Cardiac Microvascular Endothelium-specific Gene Signatures in Experimental Pressure-overload Heart Failure
Sander Trenson, KU Leuven, Leuven, Belgium  
Stefan Janssens, KU Leuven, Leuven, Belgium

Haploinsufficiency of MYBPC3 in the Development of Hypertrophic Cardiomyopathy
David Barefield, Loyola Univ Chicago, Maywood, IL  
Sakthivel Sadayappan, Loyola Univ Chicago, Maywood, IL

ARC Inhibits Cardiac Hypertrophy Through Co-localisation With Mitochondrial NADH Dehydrogenase
Lingjia Qian, Beijing Inst of Basic Medical Sciences, Beijing, China

Signaling via Interleukin-10 Receptor in Cardiomyocytes Modulates Pathological Cardiac Hypertrophy
Farryah Assrafally, Manchester Univ, Manchester, United Kingdom  
Delvac Oceandy, Manchester Univ, Manchester, United Kingdom

Crucial Role of SmgGDS in the Inhibitory Effects of Statins on Cardiac Hypertrophy and Fibrosis in Mice
Shun Kudo, Tohoku Univ Graduate Sch of Med, Sendai, Japan  
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan
Mir-424/322 Regulates Insulin Signaling Pathway and Protects Against Diabetic Cardiomyopathy
Anne-Marie Lompré, UMR_S 1166, ICAN, Paris, France

Osteopontin RNA Aptamer Reverses Heart Failure and Increases Plasma HDL Levels
Lina A Shehadeh, Univ of Miami Sch of Med, Miami, FL

Growth Factor Midkine Deteriorates Cadiac Hypertrophy via Epidermal Growth Factor Receptor Signaling: A Novel Mediator of Cardio-Renal Interaction
Yuki Honda, Yamagata Univ Sch of Med, Yamagata City, Japan
Isao Kubota, Yamagata Univ Sch of Med, Yamagata City, Japan

A Familial Hypertrophic Cardiomyopathy is Caused by a Mutation in Elp2, Encoding One of Subunits of Elongator Acetyltransferase Complex
Ryuji Okamoto, Mie Univ Graduate Sch of Med, Tsu, Japan
Masaaki Ito, Mie Univ Graduate Sch of Med, Tsu, Japan

Abstract Poster Session

Myocardial Protection, Intraoperative Management and Postoperative Critical Care I

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Jennifer Lawton, St Louis, MO

Mild Preoperative Anemia is an Independent Predictor of Mortality and Cardiovascular Events in Patients Undergoing Elective Major Noncardiac Surgery
Jesús Álvarez-García, Hosp de la Santa Creu i Sant Pau, Barcelona, Spain
Xavier Pelaez, Hosp de la Santa Creu i Sant Pau, Barcelona, Spain

High-Molecular-Weight Polyethylene Glycol (PEG) Inhibits Myocardial Ischemia-Reperfusion Injury and Improves Ventricular Function and Survival
Jennifer L Philip, Univ of Wisconsin, Madison, WI
Shahab A Akhter, Univ of Wisconsin, Madison, WI

Permanent Pacemaker Implantation Following Heart Surgery: In-Hospital and Postoperative Retrospective Multicentre Evaluation in 1,156 Implants
Roberto Lorusso, Spedali Civili, Brescia, Italy
Mattia Glauber, Humanitas Hosp, Rozzano, Italy

Decreased Relaxation Response of Coronary Arterioles to Calcium-Activated-Potassium-Channel Activators in Diabetic patients
Jun Feng, Rhode Island Hosp, Brown Medical Sch, Providence, RI
Frank Seliße, Rhode Island Hosp, Brown Medical Sch, Providence, RI

Role Reversal of Oxidants in Coronary Endothelium: Short-term vs Long-term Exposure
Ruhul Abid, Brown Univ Warren Alpert Medical Sch, Providence, RI
Frank W Seliße, Brown Univ Warren Alpert Medical Sch, Providence, RI

Withdrawal of Antiplatelet Therapy Results in Worse Short-term Prognosis in Patients Undergoing Elective Major Noncardiac Surgery
Jesús Álvarez-García, Hosp de la Santa Creu i Sant Pau, Barcelona, Spain
Xavier Pelaez, Hosp de la Santa Creu i Sant Pau, Barcelona, Spain

Myocyte-Specific Over-Expression of Hdac4 Promotes Myocardial Ischemia and Reperfusion Injury
Ting C Zhao, Roger William Medical Ctr, Providence, RI

Human Epicardial Bipolar Electrograms Prolong and Reduce in Amplitude Prior to Induction of Peri-Operative Atrial Fibrillation and Are Related to Sites of High Electrogram Dominant Frequency in Sinus Rhythm
Junaiz Zaman, Imperial Coll London, London, United Kingdom
Nicholas S Peters, Imperial Coll London, London, United Kingdom

Major Adverse Cardiac Events After Non-cardiac Surgery Following Previous Percutaneous Coronary Intervention With Stent Implantation
Marcin Wasowicz, Toronto General Hosp/Univ of Toronto, Toronto, ON, Canada
Scott William Beattie, Toronto General Hosp/Univ of Toronto, Toronto, ON, Canada

Synergistic Effect of Acetylation and Methylation Modifiers in Attenuating Lung Vascular Hyperpermeability in Endotoxemia-Induced Inflammatory Lung Injury
Johnson Rajasingh, Univ of Kansas Medical Ctr, Kansas City, KS
Buddhadeb Dawn, Univ of Kansas Medical Ctr, Kansas City, KS
### Abstract Poster Session

**APS.609.03h**  
**Myocardial Protection, Intraoperative Management and Postoperative Critical Care II**  
South Hall A2 - Core 6  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

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| 6292    | Y Joseph Woo, Stanford, CA | Nutritional Support With Medium Chain Fatty Acids During Extracorporeal Membrane Oxygenation in Infant Swine Model | Masaki Kajimoto, Seattle Children's Res Inst, Seattle, WA  
Michael A Portman, Seattle Children's Res Inst, Seattle, WA |
| 6293    | Jianli Zhao, Thomas Jefferson Univ, Philadelphia, PA | Sevoflurane Pre-Conditioning Effectively Ameliorates Diabetic Myocardial Ischemia/Reperfusion Injury via Differential Regulation of p38 and ERK | Yajing Wang, Thomas Jefferson Univ, Philadelphia, PA |
| 6294    | Masaki Funamoto, Kyoto Univ, Kyoto, Japan | Preoperative Oral Treatment of Green Tea Polyphenol Protects From the Acute Kidney Injury After Cardiopulmonary Bypass on Diabetic Rats | Ryuizo Sakata, Kyoto Univ, Kyoto, Japan |
| 6295    | M Burhan Janjua, Washington Univ, St Louis, MO | Cardioprotective Diazoixide Inhibits Succinate Dehydrogenase Independent of the Adenosine Triphosphate Sensitive Potassium Channel in Mouse and Human Mitochondria | Jennifer S Lawton, Washington Univ, St Louis, MO |
| 6296    | M Burhan Janjua, Washington Univ, St Louis, MO | Adenosine Triphosphate Sensitive Potassium Kir Subunits Implicated in Cardioprotection by Diazoxide | Jennifer S Lawton, Washington Univ, St Louis, MO |

### Abstract Poster Session

**APS.514.04**  
**New Approaches to Protect the Heart**  
South Hall A2 - Core 5  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 AM - 11:00 AM

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| 5551    | Tetsuji Miura, Sapporo, Japan | Cardiac SIRT1 Deficiency Sensitizes Myocardium to Ischemia and Reperfusion Injury | Yina Ma, Univ at Buffalo-SUNY, Buffalo, NY  
Ji Li, Univ at Buffalo-SUNY, Buffalo, NY |
| 5552    | Yuichi Nakamura, Fukushima Medical Univ, Fukushima, Japan | High Mobility Group Box 1 Promotes Angiogenesis From Bone Marrow-Derived Endothelial Progenitor Cells After Myocardial Infarction | Yasuchika Takeishi, Fukushima Medical Univ, Fukushima, Japan |
| 5553    | Andriy Yabluchanskiy, Univ of Mississippi Medical Ctr, Jackson, MS | What’s the Best Age for Mice to Have Myocardial Infarction: Modulating Matrix Metalloproteinase-9 to Answer the Question | Merry L Lindsey, Univ of Mississippi Medical Ctr, Jackson, MS |
| 5554    | Tamas Seres, Univ of Colorado, Aurora, CO | Upregulation of DJ-1 Protein after Prolonged Ischemia in a Murine Model for Myocardial Ischemia and Reperfusion | Tobias Eckle, Univ of Colorado, Aurora, CO |
| 5555    | Yan Feng, Massachusetts General Hosp, Charlestown, MA | Toll-like Receptor 7 Mediates Extracellular RNA-induced Cytokine Production in Cardiomyocytes | Wei Chao, Massachusetts General Hosp, Charlestown, MA |
| 5556    | Yu-Ting Xuan, Univ of Kansas Medical Ctr, Kansas City, KS | STAT3 Inhibits Hypoxia-Induced Apoptosis via Post-Translational Modification of GSK-3β and Bad in Mesenchymal Stem Cells | Zhelong Xu, Tianjin Medical Univ, Tianjin, China |
| 5557    | Jinkun Xi, Hebei United Univ, Tangshan, China | Zn2+ and mPTP Mediate ERS Inhibition-induced Cardioprotection Against Ischemia/Reperfusion Injury | Buddhadeb Dawn, Univ of Kansas Medical Ctr, Kansas City, KS |
5558  Critical Role of Sodium-Glucose Cotransporter 1 in the Cardioprotection Through the Maintenance of Energy Production During Ischemia-Reperfusion Injury Yusuke Kashiwagi, The Jikei Univ Sch of Med, Tokyo, Japan Michihiro Yoshimura, The Jikei Univ Sch of Med, Tokyo, Japan

5559  Lps Improves Msc-mediated Cardioprotection in a Mouse Model of Cardiac Ischemia/reperfusion Injury via Myd88 and Stat3 Signaling Yue Wang, Indiana Univ, Indianapolis, IN

5560  Remote Ischemic Conditioning, Applied During Recurrent Coronary Thrombosis Mimicking Unstable Angina, Improves Coronary Patency Karin Przyklenk, Wayne State Univ Sch of Med, Detroit, MI Peter Whittaker, Wayne State Univ Sch of Med, Detroit, MI

Abstract Poster Session

APS.723.02  New Diagnostic Approach for Pulmonary Hypertension

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Keiichi Fukuda, Tokyo, Japan

7579  Sleep-Disordered Breathing is Associated with Subclinical Myocardial Injury and Disease Severity in Pulmonary Hypertension Patients Takashi Kohno, Keio Univ Sch of Med, Tokyo, Japan Keiichi Fukuda, Keio Univ Sch of Med, Tokyo, Japan

7580  Right Ventricular Effective Arterial Elastance is a Novel Predictor of Mortality in Pulmonary Hypertension Due to Left Heart Disease Emmanouil Tampakakis, Johns Hopkins Hosp, Baltimore, MD Ryan J Tedford, Johns Hopkins Hosp, Baltimore, MD

7581  Prediction of Occurrence of Adverse Events Using Right Ventricular End Diastolic and Systolic Volume Measurements on ECG-Gated 320 Slice CT in Subjects With Chronic Thromboembolic Pulmonary Hypertension. A Study With a Median of 23 Months Follow-Up Koya Ozawa, Chiba Univ Graduate Sch of Med, Chiba, Japan Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

7582  CT-guided Planar Imaging for the Assessment of Right Ventricular Myocardial Perfusion: a Novel, Noninvasive Monitoring Tool for Patients With Pulmonary Hypertension Ken Kato, Chiba Univ Graduate Sch of Med, Chiba, Japan Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

7583  Bridging the Gap Between Functional and Biological Phenotypes in Pediatric Pulmonary Hypertension Vitaly O Kheyfets, Univ of Colorado/Children’s Hosp Colorado, Aurora, CO Robin Shandas, Univ of Colorado/Children’s Hosp Colorado, Aurora, CO

7584  Right Atrial Function as Prognostic factor in Patients with Pulmonary Hypertension Yuko Fukuda, Kobe Univ Graduate Sch of Med, Kobe, Japan Ken-ichi Hirata, Kobe Univ Graduate Sch of Med, Kobe, Japan

7585  Abnormal Peripheral Muscle Oxygenation During Submaximal Exercise Contributes to Exercise Intolerance in Pulmonary Arterial Hypertension Simon Malenfant, CRIUCPQ, Québec, QC, Canada Steeve Provencher, CRIUCPQ, Québec, QC, Canada

7578  Quantitative Measurement of Cross sectional Area of Small Pulmonary Vessels Using High-resolution Ct in Chronic Thromboembolic Pulmonary Hypertension Toshihiko Sugiura, Chiba Univ, Chiba, Japan Kouichiro Tatsumi, Chiba Univ, Chiba, Japan

7576  Efficacy of Combining Assessment of Right Ventricular Function and Right Atrial Remodeling as Prognostic Factor in Patients With Pulmonary Hypertension Yuko Fukuda, Kobe Univ Graduate Sch of Med, Kobe, Japan Ken-ichi Hirata, Kobe Univ Graduate Sch of Med, Kobe, Japan

7577  Prognostic Value of Cardiovascular Magnetic Resonance-Derived Indices of Right Ventriculo-Arterial Coupling and Internal Mechanical Work in Pulmonary Hypertension Amr Abouelnour, Allegheny General Hosp, Pittsburgh, PA Robert W.W Biederman, Allegheny General Hosp, Pittsburgh, PA

7586  Abnormal Peripheral Muscle Oxygenation During Submaximal Exercise Contributes to Exercise Intolerance in Pulmonary Arterial Hypertension Simon Malenfant, CRIUCPQ, Québec, QC, Canada Steeve Provencher, CRIUCPQ, Québec, QC, Canada
**Abstract Poster Session**

**APS.406.01**

**New Techniques and Strategies in AF Ablation**

**South Hall A2 - Core 4**  
**Posters Displayed:** 9:00 AM - 5:00 PM  
**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**  
Vivek Reddy, New York, NY

**4223**  
**Rotors and Focal Sources for Human Atrial Fibrillation Are Spatially and Temporally Stable**  
Vijay Swarup, Arizona Heart Hosp, Phoenix, AZ  
Sanjiv Narayan, UCSD Medical Ctr, La Jolla, CA

**4224**  
**Atrial Fibrillation Triggers From Non-PV, Non-SVC Foci: Assessment of Incidence, Characteristics and Efficacy of Catheter Ablation in a Single Center, High Volume Series**  
Kiyoshi Otomo, Sendai Kousei Hosp, Sendai, Japan  
Taiichiro Meguro, Sendai Kousei Hosp, Sendai, Japan

**4225**  
**Mechanistic Comparison of “Nearly-Missed” versus “On-Target” Rotor Ablation**  
Uma Mahesh R Avula, Univ of Michigan, Ann Arbor, MI  
Jérôme Kalifa, Univ of Michigan, Ann Arbor, MI

**4226**  
**Preliminary Experience Using Multiplexed Imaging of the Sympathetic Autonomic Nervous System - Impact on Outcome of Catheter Ablation of Atrial Fibrillation**  
Sabine Ernst, Royal Brompton and Harefield Hosp, London, United Kingdom  
Simona Ben-Haim, Univ Coll London Hosp, London, United Kingdom

**4227**  
**Prevalence of Right Atrial Non-pulmonary Vein Triggers in Atrial Fibrillation Patients Treated With Thyroid Hormone Replacement Therapy**  
Sanghamitra Mohanty, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX  
Andrea Natale, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX

**4228**  
**Phased RF Evaluation of Acute Pulmonary Vein Isolation in Paroxysmal AF With New GENius and PVAC GOLD: the PRECISION-GOLD Study**  
Yves De Groot, ZNA Middelheim Hosp Antwerp, Antwerp, Belgium  
Zoltan Csanadi, Univ of Debrecen, Debrecen, Hungary

**4229**  
**Fluoroscopic-Free Ablation with 3D Imaging: Immediate Procedural Success and Complications**  
Ryan T Kipp, Univ of Wisconsin Hosp and Clinics, Madison, WI  
Lee Eckhardt, Univ of Wisconsin Hosp and Clinics, Madison, WI

**Abstract Poster Session**

**APS.603.01**

**New Technology, New Insights into Coronary and Vascular Interventions**

**South Hall A2 - Core 6**  
**Posters Displayed:** 9:00 AM - 5:00 PM  
**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**  
Daniel I Simon, Cleveland, OH

**6101**  
**In Vivo Results of Cobra Pzf™ Stented Rabbit Iliac Arteries**  
Luc Maillard, GCS ES Axium Rambot, Aix en Provence, France  
Eric Van Belle, GCS ES Axium Rambot, Aix en Provence, France

**6102**  
**Improved Safety and Efficacy of a Novel Dual cRGD- and Everolimus-Coated Coronary Stent Compared to Everolimus-Eluting Stents in the Porcine Coronary Model**  
Felix Vogt, RWTH Univ, Aachen, Germany  
Rüdiger Blindt, RWTH Univ, Aachen, Germany

**6103**  
**Feasibility and Safety of Treatment With an Intracoronary Infusion of Adipose Derived Regenerative Cells (ADRC) in Patients With an Acute ST-Elevation Myocardial Infarction (ADVANCE study)**  
Henricus J Duckers, Univ Medical Ctr Utrecht, Utrecht, Netherlands  
Giulio Pompilio, Ctr Cardiologico Monzino IRCCS, Milano, Italy
Abstract Poster Session

**Noncoronary Vascular Imaging (CT/MRI/Other)**

South Hall A2 - Core 1

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**Poster Professor:**
Constantino Pena, Miami, FL

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<tr>
<td>1306</td>
<td>Aortic Valve Orientation Angle is Associated With Aortic Morphology and Dissection Risk</td>
<td>Ashutosh A Hardikar, Menzies Res Inst, Hobart, Australia</td>
</tr>
<tr>
<td>1307</td>
<td>WITHDRAWN</td>
<td></td>
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<tr>
<td>1308</td>
<td>Impact of Pulse Pressure on the Progression of Aortic Valve Calcification in Patients with Aortic Stenosis</td>
<td>Lionel L Tastet, Univ Laval, Québec, QC, Canada, Philippe Pibarot, Univ Laval, Québec, QC, Canada</td>
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<td>1309</td>
<td>Serum Parathyroid Hormone is Associated with Valvular Calcification but not with Aortic Root or Coronary Artery Calcification in Aortic Valve Stenosis</td>
<td>Lionel L Tastet, Univ Laval, Québec, QC, Canada, Philippe Pibarot, Univ Laval, Québec, QC, Canada</td>
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<tr>
<td>1310</td>
<td>Impact of Assessment for Aortic Annulus Through Cardiac Cycle by Using Four-dimension Multidetector Computed Tomography in Patients With Severe Aortic Stenosis</td>
<td>Harutoshi Tamura, Sakakibara Heart Inst, Fuchu, Japan, Hitonobu Tomoike, Sakakibara Heart Inst, Fuchu, Japan</td>
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<td>1311</td>
<td>Hemodynamic Performance of Transcatheter Prosthetic Valve is Superior to that of Surgical Prosthetic Valve for Aortic Valve Stenosis with Small Aortic Root</td>
<td>Koichi Maeda, Osaka Univ Graduate Sch of Med, Osaka, Japan, Yoshiki Sawa, Osaka Univ Graduate Sch of Med, Osaka, Japan</td>
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<tr>
<td>1312</td>
<td>Descending Aortic Reverse Flow is Independently Associated with Left Ventricular Hypertrophy and Diffuse Fibrosis</td>
<td>Neetha Vadde, Univ of Pennsylvania, Philadelphia, PA, Scott Akers, Philadelphia VA Medical Ctr and Univ of Pennsylvania, Philadelphia, PA,</td>
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Cell Damage and Even Death Detected in Peripheral T-Lymphocytes in Patients Undergoing Cardiac Computed Tomographic Angiography
Patricia Nguyen, Stanford, Stanford, CA
Joseph C Wu, Stanford, Stanford, CA

MRI Venous Volume Measurements are Associated With Ankle Brachial Index in Peripheral Artery Disease Patients: Results From the Effect of Lipid Modification on Peripheral Arterial Disease After Endovascular Intervention Trial (ELIMIT)
Hassan Kamran, Baylor Coll of Med, Houston, TX
Gerd Brunner, Baylor Coll of Med, Houston, TX

Blood Oxygenation Level Dependent Magnetic Resonance Imaging: a Tool for Objective Assessment of Perfusion in the Lower Limb
Adnan Bajwa, King’s Coll London, London, United Kingdom

Abstract Poster Session
APS.602.05

Novel Insights in Percutaneous Coronary Interventions
South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Board #

Poster Professor:
Matthew Price, San Diego, CA

WITHDRAWN

Predictors of Long-Term Survival of Acute Coronary Syndrome Patients Over 90 Years of Age Discharged Alive From a Tertiary Care Center
Nicolas W Shammas, Midwest cardiovascular Res Fndn, Davenport, IA
Christopher Koepke, Midwest cardiovascular Res Fndn, Davenport, IA

Patterns of OCT Detected Stent Complications are Different between Acute Myocardial Infarction and Stable Angina
Tsunenari Soeda, Massachusetts General Hosp, Boston, MA
Ik-Kyung Jang, Massachusetts General Hosp, Boston, MA

The Relevance to Clinical Outcomes of Stent Fracture after Second Generation DES deployment
Takahiro Tokuda, Saiseikai Yokohama City Eastern Hospspital, Yokohama, Japan
Yosuke Honda, Saiseikai Yokohama City Eastern Hospspital, Yokohama, Japan

Single Vessel Disease - Surgical or Interventional treatment a Systematic Review With Meta-analysis of 3,491 Patients
Antje C Deppe, Univ Hosp Cologne, Cologne, Germany
Thorsten Wahlers, Univ Hosp Cologne, Cologne, Germany

Assessment of Optical Coherence Tomographic Findings between Cobalt-Chromium Everolimus-Eluting Stents and New Generation Drug-Eluting Stents
Hirofumi Ohtani, Yokosuka Kyosai Hosp, Japan, Yokosuka, Japan

Differential Response of Local Coagulation after Implantation of New Generation Drug-Eluting Stents Compared with Sirolimus-Eluting Stent
Koji Yamaguchi, Tokushima Univ Hosp, Tokushima, Japan
Masataka Sata, Tokushima Univ Hosp, Tokushima, Japan

Comparison of Second-Generation Drug-Eluting Stent With First-Generation Drug-Eluting Stent for the Treatment of Left Main and/or Three-Vessel Disease: Propensity Matched Analysis
Nonhiro Kobayashi, Saiseikai Yokohama-city Eastern Hosp, Yokohama, Japan
Masatsugu Nakano, Saiseikai Yokohama-city Eastern Hosp, Yokohama, Japan

Incidence and Predictors for Late Acquired Stent Malapposition of Drug-Eluting-Stents With Second-Generation Permanent and Biodegradable Polymer-Coatings - A Prospective, Randomized Comparison Using Optical Coherence Tomography
Christian Roth, Medical Univ of Vienna, Vienna, Austria
Rudolf Berger, Medical Univ of Vienna, Vienna, Austria

Efficacy and Safety of Sequent Please Paclitaxel-Coated Balloon Compared to DIOR Paclitaxel-Coated Balloon for the Treatment of In-Stent Restenosis
Javier Benezet, Jerez Hosp, Jerez de la Frontera, Spain
Jesus Oneto, Jerez Hosp, Jerez de la Frontera, Spain
Abstract Poster Session

**Novel Risk Factors for CAD I**

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Paul M Ridker, Boston, MA

2545 A Family History of Premature Coronary Artery Disease is Associated With Location and Severity of Angiographically Defined Coronary Artery Stenosis

Muhammad Hammadah, Cleveland Clinic, Cleveland, OH

Arshed A Quyyumi, Emory Univ, atlanta, GA

2546 The Difference in Risk of Future Cardiovascular Events for Patients Presenting With Acute Coronary Syndrome Diminishes After 6 Months Compared to Non-Acute Coronary Syndrome Patients: The Intermountain Heart Collaborative Study

Tami L Bair, Intermountain Medical Ctr, Murray, UT

Joseph B Muhlestein, Intermountain Medical Ctr, Univ of Utah, Murray, UT

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**Novel Risk Factors for CAD III**

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Russell V Luepker, Minneapolis, MN

2595 Prevalence and Predictors of the Absence of Obstructive Epicardial Coronary Artery Disease in Patients Referred for Index Coronary Angiography

Adrian I Löffler, Univ of Virginia Health System, Charlottesville, VA

Jamieson M Bourque, Univ of Virginia Health System, Charlottesville, VA

2596 Effects of Optimal Medical Therapy on Health Status in Patients With or Without PCI for Stable Coronary Disease: Results From COURAGE

Zugui Zhang, Christiana Care Health System, Newark, DE

William S Weintraub, Christiana Care Health System, Newark, DE

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**Preoperative Angiographically-Determined Coronary Artery Disease Provides Independent and Complementary Prediction for Atherothrombotic Events After Lung Transplantation**

Kongkiat Chaikriangkrai, Houston Methodist Hosp, Houston, TX

Soma Jyothula, Houston Methodist Hosp, Houston, TX

2553 High-sensitivity Cardiac Troponin T Level in the Emergency Department and Long-term Mortality in Patients With and Without Myocardial Infarction

Nadia Bandstein, Karolinska Univ Hosp, Huddinge, Sweden

Martin Holzmann, Karolinska Univ Hosp, Huddinge, Sweden


Yariv Gerber, Mayo Clinic, Rochester, MN

Veronique L Roger, Mayo Clinic, Rochester, MN

**The Prevalence of Atherosclerotic Disease in Those With Connective Tissue Disease as a Function of Age, Race, and Traditional Risk Factors**

Francis J Alenghat, Univ of Chicago, Chicago, IL

2550 Both Hyponatremia and Elevated Plasma Renin Activity Are Independent and Additive Cardiovascular Risk Factors in Patients With Angiographically Proven Coronary Artery Disease (CAD): The Intermountain Heart Collaborative Study

Tami L Bair, Intermountain Medical Ctr, Murray, UT

Joseph B Muhlestein, Intermountain Medical Ctr, Univ of Utah, Murray, UT

2551 The Prevalence and Prediction of Significant Coronary Artery Disease in Patients Referred for Valvular Heart Surgery

Jason M Lappe, Cleveland Clinic, Cleveland, OH

Leslie Cho, Cleveland Clinic, Cleveland, OH

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2552
2598  **Plasma MicroRNAs Correlate With Platelet Reactivity in Patients With Acute Coronary Syndrome: Association With Platelet Function**  
*Manuel Mayr, Kings Coll London, London, United Kingdom*  
*Robert F Storey, Univ of Sheffield, Sheffield, United Kingdom*

2599  **Clinical Significant of the Ratio of Eicosapentaenoic Acid to Arachidonic Acid as a Risk Marker for Coronary Artery Disease**  
*Masashi Sakuma, Dokkyo Medical Univ, Mibu, Japan*  
*Teruo Inoue, Dokkyo Medical Univ, Mibu, Japan*

2600  **EN-RAGE: A Novel Inflammatory Marker for Coronary Heart Disease**  
*Symen Ligthart, Erasmus Univ Medical Ctr, Rotterdam, Netherlands*  
*Abbas Dehghan, Erasmus Univ Medical Ctr, Rotterdam, Netherlands*

2601  **Medical Therapy and Coronary Revascularization for Patients with Stable Coronary Artery Disease and Unclassified Appropriateness Score**  
*Mony Shuvy, Sunnybrook Health Sciences Ctr, Toronto, ON, Canada*  
*Dennis T Ko, Inst for Clinical Evaluative Sciences, Toronto, ON, Canada*

2602  **Prediction of Cardiovascular Disease in the Framingham Offspring Study**  
*Ernst J Schaefer, Tufts Univ, Boston, MA*  
*L Adrienne Cupples, Boston Univ Sch of Public Health, Boston, MA*

2603  **Demographic Factors for 30 Day Readmission Following Percutaneous Coronary Intervention Procedure: Analysis of Nationwide Inpatient Sample Data**  
*Sourabh Aggarwal, Western Michigan Univ Sch of Med, Kalamazoo, MI*  
*Vishal Gupta, Borgess Cardiology Inst, Kalamazoo, MI*

2604  **Inpatient Mortality, Rates of Cardiac Catheterizations, Revascularization and National Trends after Acute Myocardial Infarction in Patients with Schizophrenia and Bipolar Disorders**  
*Trinadha Pilla, Southern Illinois Univ Sch Of Med, Springfield, IL*  
*Jeffrey Bennett, Southern Illinois Univ Sch Of Med, Springfield, IL*

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**Abstract Poster Session**

**Novel Signaling Mechanisms in Cardiac Metabolism**

**South Hall A2 - Core 5**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**Poster Professor:**  
Jun Ren, Laramie, WY

- **AMP-Activated Protein Kinase Signaling Mediates the Cardioprotective Effect of Antithrombin Against Myocardial Ischemia and Reperfusion Injury**  
*Yina Ma, Univ at Buffalo-SUNY, Buffalo, NY*  
*Ji Li, Univ at Buffalo-SUNY, Buffalo, NY*

- **Cardiac DGAT1 Deficiency Decreases Triglyceride Turnover and Alters Substrate Utilization**  
*Nathan Roe, Univ of Washington, Seattle, WA*  
*Rong Tian, Univ of Washington, Seattle, WA*

- **Chronic PPAR-γ Stimulation with Pioglitazone Increases Expression of Mitochondrial Antioxidants in Chronically Ischemic Pig Hearts**  
*Edward O McFalls, Univ of Minnesota, Minneapolis, MN*

- **Glycogen Synthase Kinase-3α Plays a Critical Role in the Development of Cardiac Dysfunction During Obesity and Insulin Resistance Through Phosphorylation of Peroxisome Proliferator-Activated Receptor α**  
*Michinari Nakamura, Rutgers New Jersey Medical Sch, Newark, NJ*  
*Junichi Sadoshima, Rutgers New Jersey Medical Sch, Newark, NJ*

- **Loss-of-Function Mutation in Toll-Like Receptor 4 Partially Protects Against Peripheral and Cardiac Insulin Resistance During a Long-Term High-Fat Diet**  
*Ellen Jackson, Oklahoma State Univ, Stillwater, OK*  
*Veronique Lacombe, Oklahoma State Univ, Stillwater, OK*
**Monday AM**

**5504 Pras40 Prevents Development of Diabetic Cardiomyopathy**
*Mirko Volkers, San Diego State Univ, San Diego, CA*
Mark Sussman, San Diego State Univ, San Diego, CA

**5505 Klf5 Mediates Glucose-driven Changes of Cardiac Ppara in Diabetes**
*Konstantinos Drosatos, Temple Univ, Philadelphia, PA*
Ira J Goldberg, New York Univ, New York, NY

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### Abstract Poster Session

**APS.514.02**

**Novel Targets in Cardioprotection**

**South Hall A2 - Core 5**

Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Elizabeth Murphy, Bethesda, MD

**5531 A New Approach to Select Novel Potential Therapeutic Mirna Targets Effectively in the Cardiac Protection of Ischemia/Reperfusion (i/r) Injury**
*Yue Zhou, Cardiovascular Res Inst, Natl Univ of Singapore, Singapore, Singapore*
Peipei Wang, Cardiovascular Res Inst, Natl Univ of Singapore, Singapore, Singapore

**5532 Implication of DNA Damage Signaling and Epigenetic Readers in Metabolic Disorder Observed in Vascular Wall of Ischemic Patients**
*Jolyane Meloche, Laval Univ, Quebec, QC, Canada*
Sebastien Bonnet, Univ Laval, Quebec, QC, Canada

**5533 Endocrine Mechanisms against Ischemic Cardiomyocyte Calcification**
*Shu Liu, Northwestern Univ, Evanston, IL*
Yu H Wu, Northwestern Univ, Evanston, IL

**5534 In vivo Visualization of ATP Dynamics Under Hypoxia Reveals That G0/G1 Switch Gene 2 Provides Ischemic Tolerance Through the Increase of ATP Production**
*Hidetaka Kioka, Osaka Univ Graduate Sch of Med, Suita, Japan*
Seiji Takashima, Osaka Univ Graduate Sch of Med, Suita, Japan

**5535 Ischemic Postconditioning Confers Cardioprotection through Adiponectin-dependent Mitochondrial STAT3 Activation in Mice**
*Haobo Li, The Univ of Hong Kong, Hong Kong*
Zhengyuan Xia, The Univ of Hong Kong, Hong Kong

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### Abstract Poster Session

**APS.206.03h**

**Nutrition in CVD Risk and Prevention II**

**South Hall A2 - Core 2**

Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Penny Kris-Etherton, University Park, PA

**2194 Omega-3 Fatty Acids Effects on Carotid IMT in Metabolic Syndrome**
*Edward A Gill, Univ of Washington, Seattle, WA*
Xue-Qiao Zhao, Univ of Washington, Seattle, WA

**2195 Mc4r Genotype and 2-Year Change in Appetite in Response to Weight-loss Diets: The Pounds Lost Trial**
*Tao Huang, Harvard Sch of Public Health, Boston, MA*
Lu Qi, Harvard Sch of Public Health, Boston, MA

**2196 Clinical Benefit of Chelation Therapy in Post-MI Patients With Diabetes and Peripheral Artery Disease**
*Esteban Escolar, Mount Sinai Medical Ctr, Miami Beach, FL*
Kerry Lee, Duke Univ Sch of Med, Durham, NC
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<thead>
<tr>
<th>Board #</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>2284</td>
<td>Gastric Bypass Surgery is Associated with a Marked Reduction in Circulating High Sensitivity Cardiac Troponin I Concentrations: Comparison with Intensive Lifestyle Intervention</td>
<td>Magnus N Lyngbakken, Univ of Oslo, Oslo, Norway Dag Hofso, Vestfold Hosp Trust, Tonsberg, Norway</td>
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<tr>
<td>2285</td>
<td>Obstructive Sleep Apnea Screening Resulting in Improved CVD Risk Score</td>
<td>Rupa L Iyengar, Ichan Sch of Med at Mount Sinai, New York, NY Cynara Maceda, Ichan Sch of Med at Mount Sinai, New York, NY</td>
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<tr>
<td>2286</td>
<td>Impaired Right Ventricular Hemodynamics Suggest Preclinical Pulmonary Hypertension in Patients With Metabolic Syndrome</td>
<td>Deepa M Gopal, Boston Univ, Boston, MA Jennifer E Ho, Boston Univ, Boston, MA</td>
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<tr>
<td>2287</td>
<td>Waist Circumference is Superior to BMI in Predicting Cardiovascular Risk Factors in a Rural Indigenous Mayan Population in Guatemala</td>
<td>David Chen, Univ of Virginia, Charlottesville, VA Max Luna, Univ of Virginia, Charlottesville, VA</td>
</tr>
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<td>2288</td>
<td>Impact of Obesity on Outcomes After Percutaneous Coronary Intervention in Japanese Population: Obesity Paradox with High Waist Circumference but Not High BMI</td>
<td>Kenji Sakamoto, Kumamoto Univ Hosp, Kumamoto, Japan Hisao Ogawa, Kumamoto Univ Hosp, Kumamoto, Japan</td>
</tr>
<tr>
<td>2289</td>
<td>Independent Association of Lipoprotein Sub-fractions by Ion Mobility Analysis with Anthropometric and Ectopic Visceral fat on Cardiac CT Examinations in a High risk Population: The Baptist Employee Healthy Heart Study (BEHHS)</td>
<td>Ebenezer T Oni, Brooklyn Hosp Ctr, Brooklyn, NY Khurram Nasir, Ctr for Prevention and Wellness Res, Miami, FL</td>
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<tr>
<td>2290</td>
<td>Subclinical Atherosclerosis and Obesity Phenotypes in Mexican Americans</td>
<td>Susan T Laing, Univ of Texas Health Science Ctr-Houston, Houston, TX Susan P Fisher-Hoch, Univ of Texas Sch of Public Health-Brownsville, Brownsville, TX</td>
</tr>
<tr>
<td>2291</td>
<td>Obesity Paradox in the Extremely Obese: Evaluation of In-Hospital and Long Term Clinical Outcomes After Percutaneous Coronary Interventions</td>
<td>Maninder Singh, Guthrie/Robert Packer Hosp, Sayre, PA Daniel Sporn, Guthrie/Robert Packer Hosp, Sayre, PA</td>
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<td>2292</td>
<td>Visceral Adipose Tissue Secretion of Adiponectin Decreases with Increased Body Mass Index</td>
<td>Lenore R Rengel, Medical Coll of Wisconsin, Milwaukee, WI Srvindya Kidambi, Medical Coll of Wisconsin, Brookfield, WI</td>
</tr>
<tr>
<td>2293</td>
<td>Obesity and Prognosis in Patients with Acute Cerebrovascular Accident</td>
<td>Sami Hayek, Allegheny General Hosp, Pittsburgh, PA Raef Hajjali, Allegheny General Hosp, Pittsburgh, PA</td>
</tr>
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**Abstract Poster Session**

**APS.209.03**

**Obesity in CVD Risk and Prevention III**

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

Poster Professor:
TBD

2302 **Low Body Weight is Significantly Associated with the Incidence of Stroke in Atrial Fibrillation Patients**

Yasuhiro Hamatani, Nati Hosp Organization Kyoto Medical Ctr, Kyoto, Japan
Masaharu Akao, Nati Hosp Organization Kyoto Medical Ctr, Kyoto, Japan

2303 **Obesity Does Not Increase Venous Thromboembolism in Hospitalized Medical Patients Upon Multivariate Analysis**

Gabriel V Fontaine, Intermountain Medical Ctr, Murray, UT
Scott C Woller, Intermountain Medical Ctr, Murray, UT

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**Abstract Poster Session**

**APS.305.03**

**Outcomes Research in Congenital Heart Disease**

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

Poster Professor:
Gary Satou, Los Angeles, CA

3119 **Factors Affecting Fontan Length of Stay: Results From the Single Ventricle Reconstruction Trial**


3120 **A Novel Approach to Critical Congenital Heart Disease (CCHD) Screening at Moderate Altitude**

Jason T Wright, Univ of Colorado, Aurora, CO
Christopher M Rausch, Univ of Colorado, Aurora, CO

3121 **Quality of Life in Adolescents and Young Adults After the Fontan Operation: The Pediatric Heart Network Fontan Follow-Up Study**

Karen Uzark, Univ of Michigan Congenital Heart Ctr, Ann Arbor, MI for the Pediatric Heart Network Investigators

3122 **Prevalence of Rheumatic Heart Disease in Ugandan School-Aged Population: Implications for Sub-Saharan Africa**

Jacqueline Weinberg, Children’s Natl Health System, Washington, DC
Craig Sable, Children’s Natl Health System, Washington, DC

3123 **Critical Care Nursing Experience and Education are Associated With Outcomes Following Pediatric Cardiac Surgery: An Analysis of the STS Congenital Heart Surgery Database**

Patricia A Hickey, Children's Hosp Boston, Boston, MA
Jennifer C Hirsch-Romano, Univ of Michigan, Ann Arbor, MI

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**Abstract Poster Session**

**APS.209.03**

**Obesity in CVD Risk and Prevention III**

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

Poster Professor:
TBD

2294 **The Effect of Mobile Phone Intervention on Weight Loss Among Overweight and Obese Adults: A Meta-Analysis of Randomized Controlled Trials**

Fangchao Liu, Tulane Univ; State Key Lab of Cardiovascular Disease, Fuwai Hosp, New Orleans; Beijing, China
Tanika N Kelly, Tulane Univ, New Orleans, China

2295 **The Influences of Obesity on Cardiac Remodeling, Geometric Alteration and Diastolic Patterns in a Large Asian Population With Preserved Ejection Fraction**

Yau-Huei Lai, Mackay Memorial Hosp, Taipei, Taiwan
Chung-Lieh Hung, Mackay Memorial Hosp, Taipei, Taiwan

2296 **WITHDRAWN**

2297 **Gender Differences in Non-BMI Predictors of Left Ventricular Myocardial Relaxation in Non-Obese Individuals**

Haruki Sekiguchi, Aoyama Hosp,Tokyo Women's Medical Univ, Tokyo, Japan
Masatoshi Kawana, Aoyama Hosp,Tokyo Women's Medical Univ, Tokyo, Japan

2298 **Higher Serum Uric Acid is Associated with Arterial Stiffening and Cardiac Hypertrophy in Childhood Obesity**

Kenji Harada, Harada Kids Clinic, Akita, Japan
Yukiko Harada, Harada Kids Clinic, Akita, Japan

2299 **Achievement of Weight Loss With Hypertension Control Among Adults With Incident Hypertension**

Heather M Johnson, Univ of WI Sch of Med and Public Health, Madison, WI
Maureen A Smith, Univ of WI Sch of Med and Public Health, Madison, WI

2300 **Paradoxical Impact of Overweightness on Mortality in Lung Transplantation**

Kongkiet Chaikriangkrai, Houston Methodist Hosp, Houston, TX
Soma Jyothula, Houston Methodist Hosp, Houston, TX

2301 **Continuous Positive Airway Pressure Therapy as a Therapy for Cardiac Arrhythmias: Meta - Analysis of 14 Studies**

Waqas Qureshi, Wake Forest Univ, Detroit, NC
Mouaz H Al-Mallah, Henry Ford Hosp, Detroit, MI

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**Abstract Poster Session**

**APS.305.03**

**Outcomes Research in Congenital Heart Disease**

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
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**BOARD #**

Poster Professor:
Gary Satou, Los Angeles, CA

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Jennifer C Hirsch-Romano, Univ of Michigan, Ann Arbor, MI

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**Abstract Poster Session**

**APS.209.03**

**Obesity in CVD Risk and Prevention III**

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
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Poster Professor:
TBD

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**Abstract Poster Session**

**APS.305.03**

**Outcomes Research in Congenital Heart Disease**

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

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Patricia A Hickey, Children's Hosp Boston, Boston, MA
Jennifer C Hirsch-Romano, Univ of Michigan, Ann Arbor, MI
Monday, November 17 • Chicago, Illinois

3124 Quantifying the Impact of Early Term Gestation Delivery Upon Resource Demands Following Neonatal Congenital Heart Surgery
Andrew H Smith, Vanderbilt Univ Sch of Med, Nashville, TN
Ann Kavanaugh-McHugh, Vanderbilt Univ Sch of Med, Nashville, TN

3125 Resource Utilization for Non-Cardiac Hospital Admissions in Patients With Single Ventricle Congenital Heart Disease
Ian D Thomas, Univ of Arizona, Tucson, AZ
Michael D Seckeler, Univ of Arizona, Tucson, AZ

3126 Relationship Between Hospital Procedure Volume and Complications Following Congenital Cardiac Catheterization: a Report from the IMPACT® Registry
Andrew C Glatz, The Children's Hosp of Philadelphia, Philadelphia, PA
John A Spertus, Saint Luke's Mid America Heart Inst, Kansas City, MO

3127 Clinical Presentation, Management and Longitudinal Follow-Up of Neonatal and Infants With Coronary Artery Fistula - A Multicenter Study From the Coronary Artery Fistula Registry
Srinath T Gowda, Children's Hosp of Michigan, Detroit, MI
Athar Qureshi, Texas Children's Hosp, Houston, TX

3128 Growth Asymmetry, Head Circumference and Neurodevelopmental Outcomes in Infants with Single Ventricles
Thomas A Miller, Univ of Utah, Salt Lake City, UT
for the Pediatric Heart Network Investigators, NIH, Bethesda, MD

3129 Coronary Revascularization Procedures in Children: A Review of the Pediatric Cardiac Care Consortium
Lazaros Kochias, Univ of Minnesota, Minneapolis, MN

3130 The Unnatural History of the Ventricular Septal Defect: Outcome up to 40 Years after Surgical Closure
Myrthe E Menting, Erasmus MC, Rotterdam, Netherlands
Jolien W Roos-Hesselink, Erasmus MC, Rotterdam, Netherlands

3131 Intramural Ventricular Septal Defects After Repair of Conotruncal Anomalies Are Associated With Postoperative Morbidity
Jyoti K Patel, Children’s Hosp of Philadelphia, Philadelphia, PA
Meryl S Cohen, Children’s Hosp of Philadelphia, Philadelphia, PA

3132 In-vitro and Computational Study of the Assisted Bidirectional Glenn Procedure for Initial Palliation of Single Ventricle Physiology
Mahdi Esmaily-Moghadam, Univ of California San Diego, La Jolla, CA
Alison Marsden, Univ of California San Diego, La Jolla, CA

3133 Total Cavopulmonary Connection Geometry and Hemodynamics: Implications on Patient Exercise Performance
Elaine Tang, Georgia Inst of Technology, Atlanta, GA
Ajit P Yoganathan, Georgia Inst of Technology, Atlanta, GA

3134 Frequency and Contributing Factors to Diaphragm Paresis Following Pediatric Cardiac Surgery
Intikhab Zafurallah, Birmingham Children's Hosp, Birmingham, United Kingdom
Alejandro Floh, The Hosp for Sick Children, Toronto, ON, Canada

3135 Pulmonary Vein Obstruction: a European Congenital Heart Surgeons Association (ECHSA) Multicentric Study
David Kalfa, Marie Lannelongue Hosp, New York-Presbyterian Morgan Stanley Children's Hosp, New York, NY
European Congenital Heart Surgeons Association (ECHSA)

3136 A Vascular Endothelial Growth Factor a (VEGFA) Genetic Variant is Associated With Improved Ventricular Function and Transplant-Free Survival After Surgery for Non-Syndromic Congenital Heart Defects
Constantine D Mavroudis, Children’s Hosp of Philadelphia, Philadelphia, PA
J William Gaynor, Children’s Hosp of Philadelphia, Philadelphia, PA

3138 Survival of Fontan Patients After Heart Transplant; Has Survival Improved in the Current Era?
Kathleen E Simpson, Washington Univ in Saint Louis, Saint Louis, MO
Charles E Canter, Washington Univ in Saint Louis, Saint Louis, MO

3139 Late Myocardial Infarction After Fontan in Pulmonary Atresia With Intact Ventricular Septum
Adam Jordan Small, Hosp of the Univ of Pennsylvania, Philadelphia, PA

Abstract Poster Session

APS.308.01 Pediatric Cardiac Surgery I

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Board #

Poster Professor:
Richard G Ohye, Ann Arbor, MI

3174 Survival of Fontan Patients After Heart Transplant; Has Survival Improved in the Current Era?
Kathleen E Simpson, Washington Univ in Saint Louis, Saint Louis, MO
Charles E Canter, Washington Univ in Saint Louis, Saint Louis, MO

3175 Late Myocardial Infarction After Fontan in Pulmonary Atresia With Intact Ventricular Septum
Adam Jordan Small, Hosp of the Univ of Pennsylvania, Philadelphia, PA

3176 Total Cavopulmonary Connection Geometry and Hemodynamics: Implications on Patient Exercise Performance
Elaine Tang, Georgia Inst of Technology, Atlanta, GA
Ajit P Yoganathan, Georgia Inst of Technology, Atlanta, GA

3177 Frequency and Contributing Factors to Diaphragm Paresis Following Pediatric Cardiac Surgery
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Alejandro Floh, The Hosp for Sick Children, Toronto, ON, Canada

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European Congenital Heart Surgeons Association (ECHSA)

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Lazaros Kochias, Univ of Minnesota, Minneapolis, MN

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J William Gaynor, Children’s Hosp of Philadelphia, Philadelphia, PA

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Jolien W Roos-Hesselink, Erasmus MC, Rotterdam, Netherlands

3182 Intramural Ventricular Septal Defects After Repair of Conotruncal Anomalies Are Associated With Postoperative Morbidity
Jyoti K Patel, Children’s Hosp of Philadelphia, Philadelphia, PA
Meryl S Cohen, Children’s Hosp of Philadelphia, Philadelphia, PA

3183 In-vitro and Computational Study of the Assisted Bidirectional Glenn Procedure for Initial Palliation of Single Ventricle Physiology
Mahdi Esmaily-Moghadam, Univ of California San Diego, La Jolla, CA
Alison Marsden, Univ of California San Diego, La Jolla, CA
**Abstract Poster Session**

**APS.605.01**

**Percutaneous Structural Heart Interventions: From Mitral Valve to Transposition**

South Hall A2 - Core 6  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**  
Horst Sievert, Frankfurt, Germany

- **6142**  
  **Acute Changes in Left Ventricular Contractility Following Mitraclip Implantation Depend on Left Atrial Volume**  
  Kristina M Dahlem, Univ of Cologne, Cologne, Germany  
  Volker Rudolph, Univ of Cologne, Cologne, Germany

- **6143**  
  **Outcomes after Intravascular Stenting for Baffle Obstruction in Patients with Transposition of the Great Arteries after Atrial Switch**  
  Joseph T Poterucha, Mayo Clinic Coll of Med, Rochester, MN  
  Frank Cetta, Mayo Clinic Coll of Med, Rochester, MN

- **6144**  
  **Percutaneous Transluminal Balloon Angioplasty Ameliorates Metabolic and Renal Dysfunctions Associated With Hemodynamic Improvement in Patients With Chronic Thromboembolic Pulmonary Hypertension**  
  Shunsuke Tatebe, Tohoku Univ Graduate Sch of Med, Sendai, Japan  
  Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan

- **6145**  
  **15-year Outcomes and Predictors of Success for Percutaneous Mitral Commissurotomy for Rheumatic Mitral Stenosis**  
  AlFazir Omar, Nati Heart Inst, Kuala Lumpur, Malaysia  
  Rosli Mohd Ali, Nati Heart Inst, Kuala Lumpur, Malaysia

- **6146**  
  **MitraClip Acute Outcomes are Similar in Functional vs. Degenerative Mitral Regurgitation: A Meta-analysis of Observational Studies**  
  Sainath Gaddam, Staten Island Univ Hosp, Staten Island, NY  
  Chad Kliger, Lenox Hill Hosp, New York, NY

- **6147**  
  **Long Term Outcomes After Transcatheter and Surgical Closure of Atrial Septal Defect: Implications From National Populational Based Cohort Study in Propensity Score Matching**  
  Tien Hsing Chen, Chang Gung Memorial Hosp, Taoyuan, Taiwan  
  Chia Chi Cheng, Chang Gung Memorial Hosp, Taoyuan, Taiwan

**Abstract Poster Session**

**APS.213.07**

**Perspectives on Cardiovascular Prevention, Care Delivery and Disease**

South Hall A2 - Core 2  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**  
Shannon M Dunlay, Rochester, MN

- **2670**  
  **Impact of Medical Study Publication on Cholesterol Medication Prescriptions**  
  William B Border, George Washington Univ, Washington, DC  
  Kosali Simon, Indiana Univ, Bloomington, IN

- **2671**  
  **The Implications of the Recent American College of Cardiology/American Heart Association Guidelines for the Treatment of Blood Cholesterol on a Rural Community: The Heart of New Ulm Project**  
  Michael D Miedema, Minneapolis Heart Inst Fndn, Minneapolis, MN  
  Jeffrey J VanWormer, Marshfield Clinic Res Fndn, Marshfield, WI

- **2672**  
  **A Successful Trial Multifaceted Randomized Trial of Home Blood Pressure Telemonitoring Plus Pharmacist Management: What Makes It Work and Who Benefits the Most?**  
  Karen Margolis, HealthPartners Inst of Education and Res, Minneapolis, MN  
  Anna Bergdall, HealthPartners Inst of Education and Res, Minneapolis, MN
2673 The Impact of the Publication of Cardiovascular Safety Signals on the Prescribing of Varenicline: an Interrupted Time-Series Analysis
Kristian B Filion, Lady Davis Inst, Jewish General Hosp, McGill Univ, Montreal, QC, Canada
Laurent Azoulay, Lady Davis Inst, Jewish General Hosp, McGill Univ, Montreal, QC, Canada

2674 A Learning Collaborative Model to Improve Door to Needle Time for Stroke Thrombolysis in Chicago
Shyam Prabhakaran, Northwestern Univ, Feinberg Sch of Med, Chicago, IL
Chicago Primary Stroke Centers QUESTS Initiative

2675 Implementation of a Knowledge Translation and Education Tool to Improve Appropriate Use of Stress Echocardiography at a Large Academic Medical Center in a Public Funded Healthcare System
Kevin Levitt, Univ of Toronto, Toronto, ON, Canada
Sacha Bhatia, Univ of Toronto, Toronto, ON, Canada

2676 Application of the HIV/AIDS Treatment Cascade Model to Rheumatic Heart Disease in Uganda
Chris Longenecker, Case Western Reserve Univ, Cleveland, OH
Daniel Simon, Case Western Reserve Univ, Cleveland, OH

2677 Asian Dust Has an Impact on the Incidence of Acute Myocardial Infarction -- a Time-stratified Case-crossover Study
Sunao Kojima, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

2678 High versus Low-to-Moderate Intensity Statin Treatment and One-Year Clinical Outcomes Among Older Patients With Coronary Artery Disease
Emily C O’Brien, Duke Clinical Res Inst, Durham, NC
Gregg C Fonarow, Univ of California, Los Angeles, Los Angeles, CA

2679 How Low Should You Go in Secondary Prevention Treatment of LDL Cholesterol: Observational Insights from the Intermountain Heart Collaborative Study
Joseph B Muhlestein, Intermountain Medical Ctr, Univ of Utah, Murray, UT
Jeffrey L Anderson, Intermountain Medical Ctr, Univ of Utah, Murray, UT

Abstract Poster Session

Potassium Channels in Arrhythmias and Disease
South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
TBD
WITHDRAWN

Regulation of Kv11.1 C-terminal Isoform Expression by Branch Point of Intron 9
Qiuming Gong, Oregon Health and Science Univ, Portland, OR
Zhengfang Zhou, Oregon Health and Science Univ, Portland, OR

Endocytosis Pathway of Kv1.5 Channels in Atrial Cardiomyocytes
Camille Barbier, UMRS_1166 / UPMC, Paris, France
Elise Balse, UMRS_1166 / UPMC, Paris, France

KChIP2 Regulates Cardiac Excitability and Ion Channel Dysregulation by Novel Transcriptional Regulation of miR-34s
Drew Nassal, Case Western Reserve Univ, Cleveland, OH
Isabelle Deschenes, Case Western Reserve Univ, Cleveland, OH

MG53 Modulates KChIP2 Expression through Regulation of NF-κB Activity
Jie Liu, Sch of Med, Shenzhen, China

In the Absence of Muscarinic-Activation, Inhibition of Kir3.1/3.4 and Kir3.4/3.4, but Not Kir3.1/3.4-Alone Prolongs Repolarisation of Atrial Tissue From Patients With Atrial Fibrillation
James Milnes, Xention Ltd., Cambridge, United Kingdom
Ursula Ravens, TU Dresden, Dresden, Germany

The Prognosis of Andersen-Tawil Syndrome is Not So Benign as Ever Thought
Hiromi Kimura, Shiga Univ of Medical Science, Otsu city, Shiga, Japan
Minoru Horie, Shiga Univ of Medical Science, Otsu city, Shiga, Japan

Cardiovascular Hypercontractility in Cantu Syndrome Results From Neurohumorally-induced Increase in Cardiomyocyte L-type Ca2+ Current
Mark D Levin, Washington Univ Sch of Med, Saint Louis, MO
Colin G Nichols, Washington Univ Sch of Med, Saint Louis, MO

‘Dyads’ Function as Ion Channel Hubs in Cardiac Myocytes and Junctophilin-2 Plays a Critical Role in Stabilizing Channel Expression in Dyads
Gea-Ny Tseng, Virginia Commonwealth Univ, Richmond, VA
Abstract Poster Session

Progress in Clinical Pediatric Heart Failure/Transplantation

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Janet Scheel, Washington, DC

3229 Increased Risk of Post-Heart Transplant Mortality in Small Infants
Heang M. Lim, C.S Mott Children's Hosp, Univ of Michigan, Ann Arbor, MI
Kurt R Schumacher, C.S Mott Children's Hosp, Univ of Michigan, Ann Arbor, MI

3230 Myocarditis is Not an Independent Risk Factor for Outcomes in Children Listed for Heart Transplantation
Jessica C Garbern, Boston Children's Hosp, Boston, MA
Tajinder P Singh, Boston Children's Hosp, Boston, MA

3231 WITHDRAWN

3232 Modern Outcomes of Mechanical Circulatory Support as a Bridge to Pediatric Heart Transplantation
Brody Wehman, Univ of Maryland Medical Ctr, Baltimore, MD
Bartley P Griffith, Univ of Maryland Medical Ctr, Baltimore, MD

3233 Pediatric Quality of Life While Supported With a Ventricular Assist Device
Jacob R Miller, Washington Univ in St Louis, St Louis, MO
Pirooz Eghtesady, St Louis Children's Hosp, St Louis, MO

3234 Medical Therapy Leads to Positive Remodeling in Left Ventricular Non-Compaction Cardiomyopathy
John J Parent, Cincinnati Children's Hosp Medical Ctr, Cincinnati, OH
John L Jefferies, Cincinnati Children's Hosp Medical Ctr, Cincinnati, OH

Abstract Poster Session

Proliferation, Remodeling, Extracellular Matrix I

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
Shiyou Chen, Athens, GA

7108 MiR-125b is Critical for Fibroblast-to-Myofibroblast Transition and Cardiac Fibrosis
Varun Nagpal, Northwestern Univ, Chicago, IL
Douglas E Vaughan, Northwestern Univ, Chicago, IL

7109 Everolimus Prevents Vascular Smooth Muscle Cell Proliferation by Repressing Cell Cycle-Dependent Telomerase Activation
Jun Aono, Univ of Kentucky, Lexington, KY
Dennis Bruemmer, Univ of Kentucky, Lexington, KY

7110 Multimerin2 Influences Vascularization Through Modulation of the Extracellular Matrix
Petra E Burgisser, Univ Medical Ctr Utrecht, Utrecht, Netherlands
Henricus Duckers, Univ Medical Ctr Utrecht, Utrecht, Netherlands
711 Insulin-Like Growth Factor-1 Induces Vascular Smooth Muscle Cell Contractile Phenotype via a PI3K-Mediated Post-Transcriptional Mechanism Dependent on the α5β1 Integrin
Chris Blackstock, Tulane Univ, New Orleans, LA
Patrice Delafontaine, Tulane Univ, New Orleans, LA

712 Downregulation of microRNA-494 Facilitates Smooth Muscle Cell Proliferation and Vascular Remodeling
Daniel Sedding, Hannover Medical Sch, Hannover, Germany

713 MicroRNA-146a Augments Vascular Smooth Muscle Cell Proliferation and Neointima Formation
Daniel Sedding, Hannover Medical Sch, Hannover, Germany

714 Genetic Deletion of Integrin Alpha1beta1 Alleviates Aortic Rupture in Angiotensin II-induced Abdominal Aortic Aneurysm
Toru Miyoshi, Okayama Univ, Okayama, Japan
Hiroshi Ito, Okayama Univ, Okayama, Japan

715 A Common Gene Network Governs the Cellular Phenotypes in Acute Aortic Dissection
Satoko Ohno, Kurume Univ Sch of Med, Kurume, Japan
Yoshihiro Fukumoto, Kurume Univ Sch of Med, Kurume, Japan

716 Rivaroxaban, a Direct Factor Xa Inhibitor, Attenuates Neointima Formation after Mechanical Vascular Injury
Tomoya Hara, Inst of Health Biosciences, The Univ of Tokushima Graduate Sch, Tokushima, Japan
Masataka Sato, Inst of Health Biosciences, The Univ of Tokushima Graduate Sch, Tokushima, Japan

717 Estrogen-Induced Vasoprotection is Preserved After Prolonged Estrogen Deprivation
Fadi G Hage, Univ of Alabama at Birmingham and Birmingham Veterans Affairs Medical Ctr, Birmingham, AL
Suzanne Oparil, Univ of Alabama at Birmingham, Birmingham, AL

Abstract Poster Session

Proliferation, Remodeling, Extracellular Matrix II
South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Ming-hui Zou, Oklahoma City, OK

RECK Inhibits EGF Receptor Activation and MMP Induction, and Blunts Neointimal Hyperplasia in the Rat
Nitin A Das, UTHSCSA, San Antonio, TX
Chandrasekar Bysani, Tulane Univ, New Orleans, LA

A Monoclonal Antibody to a Sodium Pump Inhibitor Marinobufagenin Reversed Aortic Remodeling and Stiffness in Normotensive Rats on a High Salt Intake
Yulia Grigorova, Natl Inst on Aging, NIH, Baltimore, MD
Alexei Bagrov, Natl Inst on Aging, NIH, Baltimore, MD

Role of Thrombospondin-1 in the Remodeling Induced by a Chronic Increase in Flow in Resistance Arteries
Céline Grenier, CNRS 6214 Inserm 1083, Angers, France
Laurent Loufrani, CNRS 6214 Inserm 1083, Angers, France

Extracellular Protein Disulfide Isomerase Reshapes Vascular Architecture Against Constrictive Remodeling
Haniel A Araujo, Univ of São Paulo, São Paulo, Brazil
Francisco R M Laurindo, Univ of São Paulo, São Paulo, Brazil

Synthetic Modified RNA Driven Delivery of Insulin-Like Growth Factor-1 Promotes Early Cardiomyocyte Survival Post-Acute Myocardial Infarction
Chien-Ling Huang, CRVB, Univ Coll Cork, Cork, Ireland
Noel M Caplice, CRVB, Univ Coll Cork, Cork, Ireland

Class Ia PI 3-kinase Isoforms in Vascular Remodeling: Only p110alpha is Important
Marius Vantler, Univ Hosp of Cologne, Cologne, Germany
Stephan Rosenkranz, Univ Hosp of Cologne, Cologne, Germany
**Abstract Poster Session**

**APS.703.01**

**Recent Advances in Regulation of Nitric Oxide and Endothelial Function**

**South Hall A2 - Core 7**

Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**  
Qinglin Yang, Birmingham, AL

**7068**  
**Hyperinsulinemia Disrupts Vascular Homeostasis, Enhances Oxidative Stress and Impairs Flow Induced Dilatation of Human Skeletal Muscle Arterioles**  
Jacob M Haus, Univ of Illinois at Chicago, Chicago, IL

**7069**  
**Brief Exposure to Marijuana Secondhand Smoke Impairs Vascular Endothelial Function**  
Xiaoyin Wang, Univ of California, San Francisco, San Francisco, CA  
Matthew L Springer, Univ of California, San Francisco, San Francisco, CA

**7070**  
**Role of Kir Channels in Flow-Induced Vasodilatation**  
Sang Joon Ahn, Univ of Illinois at Chicago, Chicago, IL  
Irena Levitan, Univ of Illinois at Chicago, Chicago, IL

**7071**  
**Combinatorial Treatment with HDAC6 and DNA Methylation Modifiers in Attenuating Lung Vascular Hyperpermeability in LPS-induced Inflammatory Lung Injury**  
Johnson Rajasingh, Univ of Kansas Medical Ctr, Kansas City, KS  
Buddhadeb Dawn, Univ of Kansas Medical Ctr, Kansas City, KS

**7072**  
**Physiological Balance Between Nitric Oxide and Endothelium-Derived Hyperpolarizing Factor Plays a Crucial Role in Cardiovascular Homeostasis**  
Shigeo Godo, Tohoku Univ Graduate Sch of Med, Sendai, Japan  
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan

**7073**  
**Acetylation of Asymmetric Dimethylarginine - a Novel Pathway of Clearance of Endogenous Methylarginines**  
Roman N Rodionov, Technical Univ Dresden, Dresden, Germany  
Stefanie M Bode-Böger, Otto-von-Guericke Univ, Magdeburg, Germany

**7074**  
**Impact of Coronary Artery Fixed Lesion on 3-years Clinical Outcomes in Vasospastic Angina Patients with Myocardial Bridge**  
Seung Woon Rha, Korea Univ Guro Hosp, Seoul, Republic of Korea  
Dong Joo Oh, Korea Univ Guro Hosp, Seoul, Republic of Korea

**7075**  
**GM1 Ganglioside-containing Nanoliposomes Protect Against AL Amyloid Light Chain-induced Human Microvascular Endothelial Dysfunction**  
Raymond Q Migrino, Phoenix VA, Univ of Arizona, Phoenix, AZ

**7076**  
**Paradoxical Endothelial Dysfunction in Murine Model of Increased Endothelial Insulin Sensitivity - Role of PYK2 and Reactive Oxygen Species**  
Pooja Shah, Univ of Leeds, Leeds, United Kingdom  
Mark Kearney, Univ of Leeds, Leeds, United Kingdom

**7077**  
**The Significance of Aldehyde Dehydrogenase 2 Polymorphisms in Coronary Spastic Angina**  
Yuji Mizuno, Kumamoto Aging Res Inst, Kumamoto, Japan  
Hirofumi Yasue, Kumamoto Aging Res Inst, Kumamoto, Japan
Abstract Poster Session

**APS.703.02**

**Recent Advances in Vascular Biology**

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Lu Cai, Louisville, KY

**7078**

Left Ventricular Diastolic Dysfunction and Exercise Intolerance in Type 2 Diabetes Patients With Endothelial Dysfunction

Tadafumi Sugimoto, Ise Red Cross Hosp, Ise, Japan

Masaki Ito, Mie Univ Graduate Sch of Med, Tsu, Japan

**7079**

Impaired Peripheral Endothelial Function Assessed by Digital Reactive Hyperemia Peripheral Arterial Tonometry and Risk of In-Stent Restenosis

Naohiro Komura, Kumamoto Univ, Kumamoto, Japan

Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

**7080**

Vascular Response to the Sodium-Glucose Cotransporter Inhibitor in Type 2 Diabetic Mice

Ying Han, Univ of Arizona, Tuscon, AZ

Ayako Makino, Univ of Arizona, Tuscon, AZ

**7081**

Mechanical Shear Stress Restores Mitochondrial Cytoarchitecture in Human Endothelial Cells Exposed to Angiotensin II by Modulating Activity of the Fission-Inducing Protein Dynamin Related Protein 1

Matthew J Durand, Medical Coll of Wisconsin, Milwaukee, WI

David D Gutterman, Medical Coll of Wisconsin, Milwaukee, WI

**7082**

Endothelial Insulin Sensitisation Enhances Vascular Repair in Systemic Insulin Resistance and Improves Endothelial Function by Restoring Nitric Oxide Bioavailability

Anshuman Sengupta, Univ of Leeds, Leeds, United Kingdom

Richard Cubbon, Univ of Leeds, Leeds, United Kingdom

**7083**

Dynamic SIRTUIN1-modulated Lysine Acetylation of P66shc Governs Vascular Endothelial Oxidative Stress and Dysfunction of Diabetes

Santosh Kumar, Univ of Iowa, Iowa City, IA

Kaikobad Irani, Univ of Iowa, Iowa City, IA

**7084**

Prognostic Value of Combination of Flow-Mediated Vasodilation and Nitroglycerine-Induced Vasodilation

Masato Kajikawa, Hiroshima Univ Graduate Sch of Biomedical Sciences, Hiroshima, Japan

Yasuki Kihara, Hiroshima Univ Graduate Sch of Biomedical Sciences, Hiroshima, Japan

**7085**

Telmisartan, a Clinically Available Antihypertensive Medicine, Enhances Mitochondrial Function and Improves Endothelial Dysfunction Through the AMPK Pathway

Hirofumi Kurokawa, Kumamoto Univ, Kumamoto, Japan

Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

**7086**

The Dual PPAR-α/γ Agonist Aleglitazar Enhances Arteriogenesis, Angiogenesis and Endothelial Function

Christian Werner, Univsklinikum des Saarlandes, Homburg / Saar, Germany

Ulrich Laufs, Univsklinikum des Saarlandes, Homburg / Saar, Germany

**7087**

Maintenance of Endothelial NO Release after Inhibition of NADPH Oxidase 4

Claudia Eickholt, TU Dresden, Dresden, Germany

Henning Morawietz, TU Dresden, Dresden, Germany

**APS.703.04**

**Regulation of Vascular Function**

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Juming Zhong, Auburn, AL

**7098**

Pulse Wave Velocity and Augmentation Index as New Markers of Vasculopathy in Sickle Cell Disease: Preliminary Results of the CADRE Study

Xavier Jouven, Inserm Paris Descartes university, PARIS, France

**7099**

Hepatic Nuclear Factor 4 Alpha is the Major Regulator of Alanine:Glyoxylate Aminotransferase 2 Expression - A Novel Link Between Diabetes and Impaired Metabolism of Nitric Oxide and Lipids

Roman N Rodionov, Technical Univ Dresden, Dresden, Germany

**7100**

Angiopoietin Like-2 Contributes to Cerebral Artery Endothelial Dysfunction in Mice

Carol Yu, Montreal Heart Inst, Montreal, QC, Canada

Eric Thorin, Montreal Heart Inst, Montreal, QC, Canada
7101  Low Angiopoietin Like-2 Expression Prevents Recruitment of Endothelium-derived Relaxing Factor by Voluntary Exercise in Mice  
Cécile Martel, Montreal Heart Inst, Montreal, QC, Canada 
Eric Thorin, Montreal Heart Inst, Montreal, QC, Canada

7102  A Novel Hydrogen Sulfide Donor Promotes Nitric Oxide Bioavailability in a Phase I Clinical Trial  
David J Polhemus, LSU Health Sciences Ctr, New Orleans, LA 
David J Lefer, LSU Health Sciences Ctr, New Orleans, LA

7103  The Role of Endothelial Function on Paroxysmal and Chronic Atrial Fibrillation  
Dimitris Tousoulis, 1st Cardiology Dept, Univ of Athens Medical Sch, “Hippokration” Hosp, Athens, Gre, Athens, Greece 
Christodoulos Stefanadis, 1st Cardiology Dept, Univ of Athens Medical Sch, “Hippokration” Hosp, Athens, Gre, Athens, Greece

7104  Pulse Pressure and Intraluminal Mean Pressure Regulate Endothelium-Dependent Flow-Mediated Dilation in Cerebral Arteries of Dyslipidemic Mice  
Adeline Raignault, Montreal Heart Inst, Montreal, QC, Canada 
Eric Thorin, Montreal Heart Inst, Montreal, QC, Canada

7105  Roles of Aldosterone, Mineralocorticoid Inhibition and G6PD Activity in Microvascular Endothelial Dysfunction in African Americans with Hypertension  
Tisha M Suboc, Medical Coll of Wisconsin, Milwaukee, WI 
Michael E Widlansky, Medical Coll of Wisconsin, Milwaukee, WI

7106  Weight Loss with Low Carbohydrate Diets Improves Flow Induced Vasodilation in Resistance Arteries  
Jing-Tan Bian, The Univ of Illinois at Chicago, Chicago, IL 
Shane A Phillips, The Univ of Illinois at Chicago, Chicago, IL

7107  Heme Oxygenase 1 Activity and Expression Suppresses a Proinflammatory Phenotype in Monocytes and Correlates With Endothelial Function in Mice and Humans  
Philip Werzel, Univ Medical Ctr of the Johannes Gutenberg-Univ, Mainz, Germany 
Thomas MüNZel, Univ Medical Ctr of the Johannes Gutenberg-Univ, Mainz, Germany

Abstract Poster Session

Resuscitation Science from Bench to Bedside

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Joshua C Reynolds, Pittsburgh, PA

WITHDRAWN

Does the Airway Management Device for Out-of-Hospital Cardiac Arrest Have No Effect to Patient’s Outcome?  
Hiroshi Takyu, Kokushikan Univ, Tama, Tokyo, Japan 
Takashi Nakagawa, Aichi Medical Univ, Nagakute, Aichi, Japan

Wider Dissemination of CPR Training with Chest Compression-only CPR and Changes in Bystander CPR in a Community  
Taku Iwami, Kyoto Univ Health Services, Kyoto, Japan 
Tetsuya Sakamoto, Teikyo Univ, Tokyo, Japan

Effects of Different Temperature Profiles During Emergency Cardiopulmonary Bypass Resuscitation on Reperfusion Physiology in Rats  
Florian Ettl, Medical Univ of Vienna, Vienna, Austria 
Andreas Janata, Hanusch Hosp, Vienna, Austria

The Priority of Coronary Arteriography and Therapeutic Hypothermia After Return of Spontaneous Circulation in Patients With Out-of-hospital Cardiac Arrest. the Result of Sos-kanto 2012 Study  
Shuichi Hagiwara, SOS-KANTO 2012 Study Group, Maebashi, Japan 
Naoto Morimura, SOS-KANTO 2012 Study Group, Maebashi, Japan

Induced Hypothermia After Out-of-Hospital Cardiac Arrest: Body Habitus and Survival  
Pierre Charbel Atallah, William Beaumont Health System, Royal Oak, MI 
Barr Franklin, William Beaumont Health System, Royal Oak, MI

Effect on Survival of an Early versus Late Coronary Angiography Approach in Patients With Out-of-hospital Cardiac Arrest Without ST-Segment Elevation Myocardial Infarction  
David F Miranda, Hennepin County Medical Ctr, Minneapolis, MN 
Fouda A Bachour, Hennepin County Medical Ctr, Minneapolis, MN
**Monday, November 17 • Chicago, Illinois**

**Abstract Poster Session**

**APS.212.03**

**Risk Factors, Biomarkers, Risk Prediction I**

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Wolfgang Koenig, Ulm, Germany

4380 **Impact of Median Household Income and Hospital Variation in the Utilization of Do-not-resuscitate Order in Cardiac Arrest: A National Perspective**
Shilpkumar Arora, Mount Sinai St Luke’s-Roosevelt Hosp Ctr, New York, NY
Cindy Grines, Mount Sinai Hosp, Detroit, MI

4381 **Therapeutic Hypothermia at 33C is Superior to 35C After Ischemia**
Patrick Lyden, Cedars-Sinai Medical Ctr, Los Angeles, CA

4382 **Extracorporeal Cardiopulmonary Resuscitation With Cardiac Arrest Bypass System for Refractory Out-of-Hospital Cardiac Arrest is associated With Favorable Survival**
Katsunori Mochizuki, Shinshu Univ, Matsumoto, Japan
Hiroshi Imamura, Shinshu Univ, Matsumoto, Japan

2497 **Derivation and Validation of a Clinical Prediction Rule for Sleep Disordered Breathing in Patients With Cardiovascular Disease**
Takashi Miyazaki, Kumamoto Univ Hosp, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

2498 **Prevalence and Clustering of Cardiovascular Risk Factors Across the National Income Spectrum in the Africa Middle East Region**
Alawi A Alsheikh-Ali, Inst of Cardiac Sciences, Abu Dhabi, United Arab Emirates
Walid M Mashhoud, Pfizer, Jeddah, Saudi Arabia

2499 **Ethnic Differences in the 10-Year Risk of Coronary Heart Disease Among High Risk Individuals in a Large Contemporary Population**
Jamal S Rana, Kaiser Permanente Norther California, Oakland, CA
Andrew J Karter, Kaiser Permanente Dept of Res, Oakland, CA

2500 **Alanine Aminotransferase Levels and Incident Cardiovascular Events**
Paulo Harada, Brigham and Women’s Hosp, Boston, MA
Paul M Ridker, Brigham and Women’s Hosp, Boston, MA

2501 **Urine Albumin-to-Creatinine Ratio Outperforms Other Biomarkers in Predicting Death**
Rony Lahoud, CCF, Cleveland, OH
Danielle Brennan, CCF, Cleveland, OH

2502 **The Biomarker Tissue Inhibitor of Metalloproteinase-1 (TIMP-1) is a Stronger Independent Predictor of All-Cause Mortality Than Other Established Biomarkers in the AGES-Reykjavik Study**
Gina LaRocca, Natl Insts of Health, Bethesda, MD
Andrew E Arai, Natl Insts of Health, Bethesda, MD

2503 **A Novel Biomarker of Oxidative Stress is Predictive of Incident Death and Myocardial Infarction in Patients with Coronary Artery Disease**
Riyaz S Patel, Emory Univ Sch of Med, Atlanta, GA
Arshed A Quyyumi, Emory Univ Sch of Med, Atlanta, GA

294 Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
Abstract Poster Session

APS.211.10 Risk Factors, Biomarkers, Risk Prediction V
South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARDS #
Poster Professor:
David S Siscovick, New York, NY

2464 Incidence and Etiology of Sudden Cardiac Arrest and Death in US High School Athletes
Irfan M Asif, Univ of South Carolina Greenville, Greenville, SC
Jonathan A Drezer, Univ of Washington, Seattle, WA

2465 Toll-Like Receptor 2 Methylation and Dietary Flavonoid Intake Modify the Association Between Fine Particle Exposure and Cardiac Autonomic Dysfunction: The Normative Aging Study
Jia Zhong, Harvard Sch of Public Health, Boston, MA
Andrea Baccarelli, Harvard Sch of Public Health, Boston, MA

2466 Nonsustained Ventricular Tachycardia is Independently Associated With Lower Cognitive Executive Function: The Atherosclerosis Risk in Communities (ARIC) Study
Lin Y Chen, Univ of Minnesota, Minneapolis, MN
Alvaro Alonso, Univ of Minnesota, Minneapolis, MN

2467 Non-Specific Intraventricular Conduction Delay and Risk of Sudden Death
Audrey Uy-Evanado, Cedars-Sinai Medical Ctr, Los Angeles, CA
Sumeet S Chugh, Cedars-Sinai Medical Ctr, Los Angeles, CA

2468 Endogenous and Exogenous Estrogen Exposure have Synergistic Effects on Mid-life Electrocardiographic PR Interval among Women: the Women's Health Initiative Hormone Therapy Trial
Nisha I Parikh, Univ of California San Francisco, San Francisco, CA
Barbara V Howard, Medstar Health, Hyattsville, MD

2469 Chronic Asthma Predicts Cardiovascular Disease Events: The Multi-Ethnic Study of Atherosclerosis (MESA)
Matthew C Tattersall, Univ of Wisconsin-Madison Sch of Med and Public Health, Madison, WI
James H Stein, Univ of Wisconsin-Madison Sch of Med and Public Health, Madison, WI

2470 Obstructive and Central Sleep Apnea and Risk of Incident Atrial Fibrillation
Patricia Tung, Beth Israel Deaconess Medical Ctr, Boston, MA
Susan Redline, Brigham & Women's Hosp, Boston, MA

Abstract Poster Session

APS.721.01 Stroke, Heart and Vascular Poster Session I
South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARDS #
Poster Professor:
Jose Biller, Maywood, IL

7535 Temporal Trends in Ischemic Stroke and Anticoagulation Therapy Among Medicare Beneficiaries Having Non-Valvular Atrial Fibrillation With and Without Diabetes Mellitus, 1992-2010
Gautam R Shroff, Hennepin County Medical Ctr/Univ of Minnesota, Minneapolis, MN
Charles A Herzog, Chronic Disease Res Group;Hennepin County Medical Ctr; Univ of Minnesota, Minneapolis, MN

7536 Sitagliptin Attenuated Brain Damage and Cognitive Impairment in Mice With Chronic Cerebral Hypo-Perfusion Through Suppressing Oxidative Stress and Inflammatory Reaction
Tzu-Hsien Tsai, Kaohsiung Chang Gung Memorial Hosp, Chang Gung Univ Coll of Med, Kaohsiung Hsien, Taiwan
Hon Kan Yip, Kaohsiung Chang Gung Memorial Hosp, Chang Gung Univ Coll of Med, Kaohsiung Hsien, Taiwan
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<th>Authors</th>
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<td>7537</td>
<td>A National Perspective of Weekend-Effect on Mortality and Adverse Outcomes in Patients with Intracerebral Hemorrhage</td>
<td>Alexandre M Benjo, Ochsner Medical Ctr, New Orleans, LA Syed I Hussain, Detroit Medical Ctr, East Lansing, MI</td>
<td>Chicago, Illinois</td>
<td>APS.722.02</td>
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<td>7539</td>
<td>Rate of Carotid Disease Progression in Asymptomatic Low to Moderate Risk Individuals: The Right Study</td>
<td>Veit Sandfort, NIH, Bethesda, MD David A Bluemke, NIH, Bethesda, MD</td>
<td>Chicago, Illinois</td>
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<td>7540</td>
<td>Predictive Role of Microwave Radiometry in Identifying Culprit Carotid Arteries Provoking Ischemic Stroke</td>
<td>Georgios Benetos, Athens Medical Sch, Athens, Greece Christodoulos Stefanadis, Athens Medical Sch, Athens, Greece</td>
<td>Chicago, Illinois</td>
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<td>7541</td>
<td>Ipsilateral Carotid Arteries Exhibit Higher Inflammation in Patients With Ischemic Stroke and Bilateral Carotid Artery Disease</td>
<td>Georgios Benetos, Athens Medical Sch, Athens, Greece Christodoulos Stefanadis, Athens Medical Sch, Athens, Greece</td>
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<td>7542</td>
<td>Aortic Arch Plaque Deteriorates With Advancing Chronic Kidney Disease Stage</td>
<td>Satoshi Nishiyama, Yamagata Univ Sch of Med, Yamagata, Japan Isao Kubota, Yamagata Univ Sch of Med, Yamagata, Japan</td>
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<td>7545</td>
<td>Angiographic and Hemodynamic Features of Symptomatic Vertebrobasilar Disease: Baseline Data from the VERITAS Study</td>
<td>Sepideh Amin-Hanjani, Univ of Illinois at Chicago, Chicago, IL VERITAS Study Group</td>
<td>Chicago, Illinois</td>
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<td>Philip B Gorelick, ??????</td>
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<td><strong>In-vivo Assessment of the Impact of Endovascular Embolization on 3D Intracranial Hemodynamics in Pediatric Patients With Vein of Galen Aneurysmal Malformations</strong></td>
<td>Can Wu, Northwestern Univ, Chicago, IL Michael Marri, Northwestern Univ, Chicago, IL Toshiharu Rim, Kimitosho Chuo Hosp, Kusarazu, Japan</td>
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<td><strong>A Prolonged Atrial Electromechanical Interval is Associated with a Stroke in Patients with Paroxysmal Atrial Fibrillation</strong></td>
<td>Noriko Eguchi, Kimitosho Chuo Hosp, Kusarazu, Japan Toshiharu Rim, Kimitosho Chuo Hosp, Kusarazu, Japan</td>
<td>Chicago, Illinois</td>
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<td><strong>Circulating Lipoprotein (a) Level, Apolipoprotein (a) Isoform Size, and Risk of Unexplained Ischemic Stroke in Younger Adults (The Tthrombophilia in Cryptogenic stroke [THICK] Study)</strong></td>
<td>Azadeh Beheshitian, Albert Einstein Coll of Med / Montefiore Medical Ctr, Bronx, NY Jorge R Kizer, Albert Einstein Coll of Med / Montefiore Medical Ctr, Bronx, NY</td>
<td>Chicago, Illinois</td>
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<td><strong>Total Atrial Conduction Time Evaluated With Tissue Doppler Imaging Predicts Cardioembolic Stroke in Patients With Acute Ischemic Stroke</strong></td>
<td>Gensai Yamamura, Yamagata Univ Sch of Med, Yamagata, Japan Isao Kubota, Yamagata Univ Sch of Med, Yamagata, Japan</td>
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<td><strong>Mechanism Underlying Increased eNOS Expression and Neuroprotection in Mice With Targeted Deletion of ROCK2</strong></td>
<td>Yukio Hiroi, Natl Ctr for Global Health and Med, Tokyo, Japan James K Liao, The Univ of Chicago Med, Chicago, IL</td>
<td>Chicago, Illinois</td>
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<td><strong>Long-term Incidence of Stroke and Transient Ischemic Attack after Coronary Artery Bypass Grafting</strong></td>
<td>Heng Zhang, Fuwai Hosp, Beijing, China Zhe Zheng, Fuwai Hosp, Beijing, China</td>
<td>Chicago, Illinois</td>
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<td>4296</td>
<td>Hybrid Surgical and Catheter Ablation of Atrial Fibrillation: Comparison of Techniques</td>
<td>Anil Gehi, Univ of North Carolina, Chapel Hill, NC Andy Kiser, Univ of North Carolina, Chapel Hill, NC</td>
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<td>4292</td>
<td>Predictor of Long-term Atrial Fibrillation Recurrence Post Hybrid-MAZE Procedure: Five-Year Outcomes</td>
<td>Albert Chiu, Banner Good Samaritan Medical Ctr, Phoenix, AZ Wilber Su, Banner Good Samaritan Medical Ctr, Phoenix, AZ</td>
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<td>4293</td>
<td>Surgical Ablation of Atrial Fibrillation in Patients with Giant Left Atrium</td>
<td>Ho Jin Kim, Asan Medical Ctr, Seoul, Republic of Korea Jae Won Lee, Asan Medical Ctr, Seoul, Republic of Korea</td>
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<td>4294</td>
<td>A Prospective Observational Review of Patients Undergoing the Novel ‘TS’ Approach to the Hybrid Atrial Fibrillation Procedure</td>
<td>Joseph J Tiano, St Vincent’s Medical Ctr, Bridgeport, CT Rafael Squitieri, St Vincent’s Medical Ctr, Bridgeport, CT</td>
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<td>4295</td>
<td>Hybrid Approach for Ablation of Atrial Fibrillation - A Systematic Review and Meta-analysis</td>
<td>Jason A Varzaly, Univ of Adelaide and Royal Adelaide Hosp, Adelaide, Australia Prashanthan Sanders, Univ of Adelaide and Royal Adelaide Hosp, Adelaide, Australia</td>
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Monday, November 17 • Chicago, Illinois

**Abstract Poster Session**

**The Brain, Sleep and Cardiovascular Risk**

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**Board #**

**Poster Professor:** Nancy Redeker, West Haven, CT

2118 The Long-Term Effect of Coronary Atherosclerosis and Apnea Hypopnea Index During Rapid Eye Movement on Posttraumatic Stress Disorder
Naser Ahmadi, UCLA - Rosalind Franklin Univ, North Chicago, IL
Fereshteh Hajadehgi, UCLA, Los Angeles, CA

2119 Severity of Sleep-Disordered Breathing Has an Impact on the Frequency of Nocturnal Enuresis - The Challenge With Continuous Positive Airway Pressure to Stop Nocturnal Enuresis in Cardiovascular Patients - Sunao Kojima, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

2120 Changes in Brain Caudate Nuclei Functional Connectivity in Heart Failure
Mary A Woo, UCLA, Los Angeles, CA
Rajesh Kumar, UCLA, Los Angeles, CA

2121 Relationship Between Depression and Brain Injury in Heart Failure
Mary A Woo, UCLA, Los Angeles, CA
Rajesh Kumar, UCLA, Los Angeles, CA

2122 Local Atrophy of Parahippocampal Gyrus is Prominent in Heart Failure Patients Without Dementia
Tomomi Meguro, Chemotherapy Res Inst, Kaken Hosp, IUHW, Ichikawa-shi, Japan

2123 The Association of Sleep Disturbance and Depression with Prodromal Symptoms of Coronary Heart Disease in Women: Secondary Data Analysis from a Multi-Site, Longitudinal Study
Christina Pettry, Univ of Arkansas for Medical Sciences, Little Rock, AR
Jean C McSweeney, Univ of Arkansas for Medical Sciences, Little Rock, AR

2124 Association of Sleep Medication with Cardiorespiratory Fitness in Normotensives, Prehypertensives and Hypertensives
Faye S Routledge, Emory Univ, Atlanta, GA
Sandra B Dunbar, Emory Univ, Atlanta, GA

2125 Elevated Cardiovascular Risk Factors among Appalachian Women with a History of Pregnancy Complications
Rebecca L Dekker, Univ of Kentucky, Lexington, KY
Debra K Moser, Univ of Kentucky, Lexington, KY

2126 Health Literacy, Adherence to Self-Care Behaviors, and Ten-Year Cardiovascular Disease Risk in Central Appalachian Residents
Jia-rong Wu, Univ of North Carolina, Chapel Hill, NC
Debra K Moser, Univ of Kentucky, Lexinton, KY

2127 A Meta-Synthesis on Usefulness of Stress Reduction with Meditation in the Prevention and Treatment of Cardiovascular Disease
Robert H Schneider, Maharishi Univ of Management Res Inst, Maharishi Vedic City, IA

**Abstract Poster Session**

**Transcatheter Aortic Valve Replacement: Comparing and Optimizing Valve Placement**

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**Board #**

**Poster Professor:** Josep Rodes-Cabau, Quebec, QC, Canada

6172 Stent Geometry and Radial Force Comparison of Portico vs CoreValve
Saravana Kumar, St Jude Medical, Plymouth, MN
Kristopher Vietmeier, St Jude Medical, Plymouth, MN
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<tr>
<th>Session</th>
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</table>
| 6173    | The Concept of “Effective Implant Area”: A Simple Method Beyond Annular Sizing to Optimize Valve Selection and Outcomes in Transcatheter Aortic Valve Replacement | Gilbert H Tang, Westchester Medical Ctr, Valhalla, NY  
          |                                               | Steven L Lansman, Westchester Medical Ctr, Valhalla, NY                                      |
| 6174    | Timing of Staged Percutaneous Coronary Intervention Prior to Transcatheter Aortic Valve Implantation: Outcome Implications | Philippe van Rosendaal, Leiden Univ Medical Ctr, Leiden, Netherlands  
          |                                               | Victoria Delgado, Leiden Univ Medical Ctr, Leiden, Netherlands                               |
| 6175    | A Meta-Analysis of Major Adverse Cardiovascular and Cerebrovascular Events in Patients Undergoing Transcatheter Aortic Valve Implantation Using Edwards SAPIEN valve versus Medtronic CoreValve for Severe Aortic Stenosis | Hemang B Panchal, East Tennessee State Univ, Johnson City, TN  
          |                                               | Timir Paul, East Tennessee State Univ, Johnson City, TN                                      |
| 6176    | Pre-Procedural Aortic Valve Area Predicts Degree of Thrombocytopenia Following Trans-Catheter Aortic Valve Implantation | Elizabeth Retzer, Univ of Chicago, Chicago, IL  
          |                                               | Atman Shah, Univ of Chicago, Chicago, IL                                                     |
| 6177    | Clinical Impact of Coronary Protection During Transcatheter Aortic Valve Replacement: First Reported Series of 20 Patients | Yigal Abramowit, Cedars-Sinai Medical Ctr, Los Angeles, CA  
          |                                               | Raj R Makkar, Cedars-Sinai Medical Ctr, Los Angeles, CA                                     |
| 6178    | Pseudoaneurysms after TAVI Using the Prostar-XL system, a Comparison CoreValve and the Edwards Sapien XT Valve | Suzanne Fathe-Moghadam, Univ Tuebingen, Tuebingen, Germany  
          |                                               | Wolfgang Bocksch, Univ Tuebingen, Tuebingen, Germany                                         |
| 6179    | Adverse Outcomes Following Transcatheter Aortic Valve Replacement (TAVR) in Patients with Low Flow-Low Gradient (LFLG) Aortic Stenosis (AS) | Jay N Patel, Winthrop-Univ Hosp, Mineola, NY  
          |                                               | Abdul M Hafiz, Winthrop-Univ Hosp, Mineola, NY                                               |
| 6180    | Comparative Meta-Analysis of Balloon-Expandable and Self-Expandable Valves for Transcatheter Aortic Valve Replacement | Shikhar Agarwal, Cleveland Clinic, Cleveland, OH  
          |                                               | Samir R Kapadia, Cleveland Clinic, Cleveland, OH                                             |
| 6181    | Transfemoral Aortic Implantation of Repositionable and Retrievable Foldavalve: A Proof of Concept in Animals | Arash Kheradvar, Univ of California Irvine, Irvine, CA  
<pre><code>      |                                               | Elaine Tseng, Univ of California San Francisco Medical Ctr, San Francisco, CA                 |
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### Treatment of Hyperlipidemia

**APS.202.01**

**South Hall A2 - Core 2**

Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

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| 2030    | Genetic CETP Deficiency Associated With Higher eGFR and Lower Coronary Stenosis Index in Dyslipidemic Patients in Japan  
Atsushi Nohara, Kanazawa Univ Graduate Sch of Medical Sciences, Kanazawa, Japan  
Hiroshi Mabuchi, Kanazawa Univ Graduate Sch of Medical Sciences, Kanazawa, Japan | 2039 | Long-Term Reduction in Lipoprotein (a) With the PCSK9 Monoclonal Antibody Evolocumab (AMG 145): A Pooled Analysis of 3278 Patients in Phase 2, 3, and Open Label Extension Studies  
Frederick Raal, Carbohydrate & Lipid Metabolism Res Unit, Div of Endocrinology & Metabolism, Johannesburg, South Africa  
Evan A Stein, Metabolic and Atherosclerosis Res Ctr, Cincinnati, OH |
| 2031    | Efficacy and Safety of Alirocumab in Japanese Patients With Hypercholesterolemia on Stable Statin Therapy: First Data With the 75 mg Every Two Weeks Dose  
Tamio Teramoto, Teikyo Academic Res Ctr, Tokyo, Japan  
Marie T Baccara-Dinet, Sanofi, Montpellier, France | 2032 | Effects of Evolocumab Treatment on Serum Adrenal and Gonadal Hormone Levels: Results from the 52-week, Phase 3, Double-blind, Randomized, Placebo-controlled DESCARTES Study  
Dirk J Blom, Univ of Cape Town, Cape Town, South Africa  
Eli Roth, Sterling Res Group, Cincinnati, OH |

**Mon, Nov 17, Chicago, IL**

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### Abstract Poster Session

**APS.701.01**  
**Vascular Development, Differentiation and Regeneration**  
South Hall A2 - Core 7  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

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<td>7001</td>
<td>Kishore Wary, Chicago, IL</td>
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<td>7003</td>
<td>John P Cooke, Ctr for Cardiovascular Regeneration, Houston Methodist Res Inst, Houston, TX</td>
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<td>7004</td>
<td>Daniel J Garry, Univ of Illinois, Chicago, IL</td>
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<td>7005</td>
<td>Yigang Wang, Univ of Cincinnati, Cincinnati, OH</td>
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<td>7006</td>
<td>Kimberly A Kelly, Univ of Virginia, Charlottesville, VA</td>
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**APS.701.02h**  
**Vascular Development, Differentiation and Regeneration II**  
South Hall A2 - Core 7  
Posters Displayed: 9:00 AM - 5:00 PM  
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<td>Mark W Majesky, Seattle, WA</td>
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<td>7013</td>
<td>Nikos Werner, Univ of Bonn, Bonn, Germany</td>
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<td>7008</td>
<td>Jugajyoti Baruah, Univ of Illinois Chicago, Chicago, IL</td>
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<td>7009</td>
<td>Daniel Garry, Lillehei Heart Inst, Minneapolis, MN</td>
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<td>7010</td>
<td>Siva Sai Krishna Dasa, Univ of Virginia, Charlottesville, VA</td>
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- **Etv2/mir-130a/pdgfra Pathway Regulates Endothelial Lineage Specification**  
  Bhairab N Singh, Lillehei Heart Inst, Minneapolis, MN
- **WITHDRAWN**
- **Tideglusib, a Novel Allosteric Inhibitor of Glycogen Synthase Kinase-3β Mimics Canonical Wnt Signaling**  
  Jugajyoti Baruah, Univ of Illinois Chicago, Chicago, IL
- **Cu Transporter ATP7A Protects Against Fibrosis Through Limiting Endothelial to Mesenchymal Transition**  
  Seock-Won Youn, Univ of Illinois at Chicago, Chicago, IL
- **Smooth Muscle Cells From the Arterial Anastomosis Are the Major Precursors of Forming Neointima in Both Artery and Vein Grafts**  
  Jizhong Cheng, Baylor Coll of Med, Houston, TX
- **Microrna-126-Containing Endothelial Microparticles Reduce Neointimaformation and Vascular Smooth Muscle Cell Proliferation**  
  Felix Jansen, Univ of Bonn, Bonn, Germany
- **Non-coding RNA Regulation in Peripheral Ischemia**  
  Fabio Martelli, Policlinico San Donato, San Donato Milanese, Milan, Italy
- **Hypoxia Induces Phenotypic Switching of Human Pericytes Into Smooth Muscle Cells That is Associated With Changes in Pericyte-specific Non-coding RNA Expression**  
  Christoph M Zehendner, Goethe Univ, Frankfurt am Main, Germany
- **Non-VEGF-Mediated Angiogenesis, Plays a Determining Role in Neovascularization of the Infarct Post-mi**  
  Siva Sai Krishna Dasa, Univ of Virginia, Charlottesville, VA
- **A Genomic Blueprint of Human Endothelial Cell Differentiation From Pluripotent Stem Cells Identifies Unique Epigenetic Signatures and Anti-Osteogenic Responses to Laminar Shear Stress**  
  Molong Li, Gladstone Insts, Univ of California, San Francisco, CA
- **Hornerin, a Multifunctional Protein Critical to Non-VEGF-Mediated Angiogenesis, Plays a Determining Role in Neovascularization of the Infarct Post-mi**  
  Siva Sai Krishna Dasa, Univ of Virginia, Charlottesville, VA
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<td>Sakthivel Sadayappan, Loyola Univ Chicago, Maywood, IL</td>
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<td><strong>5476</strong></td>
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<tr>
<td><strong>Junctional Late Enhancement in Non-ischemic Dilated Cardiomyopathy by Cardiac Magnetic Resonance: A Marker of Ventricular Adaptation Due to Pulmonary Hypertension</strong></td>
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<td>Martina Perazzolo Marra, Dept of Cardiac, Thoracic, and Vascular Sciences, Univ of Padua, Padova, Italy</td>
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<td>Sabino Iliceto, Dept of Cardiac, Thoracic, and Vascular Sciences, Univ of Padua, Padova, Italy</td>
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<td><strong>5477</strong></td>
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<tr>
<td><strong>Wave Reflections are Independently Associated with Left Ventricular Hypertrophy in Aortic Stenosis</strong></td>
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<td>Anjaneyulu Dunde, Univ of Pennsylvania, Philadelphia, PA</td>
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<td>Julio A Chirinos, Philadelphia VA Medical Ctr and Univ of Pennsylvania, Philadelphia, PA</td>
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<td><strong>2D Speckle Tracking Myocardial Strain Gradients Have Positive Relationship With the Degree of Hypertrophy in LV Myocardium for Hypertrophic Cardiomyopathy and Severe Aortic Stenosis With Different Mechanism. A Novel Multi-Layer Technique TTE Study</strong></td>
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<td>Koya Ozawa, Chiba Univ Graduate Sch of Med, Chiba, Japan</td>
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<td>Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan</td>
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<td><strong>In vivo Pathophysiology of Hypertrophic Cardiomyopathy in a Highly Prevalent 25 bp Deletion Mutation in MYBPC3</strong></td>
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<td>Diederik D W Kuster, Loyola Univ Chicago, Maywood, IL</td>
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<td>Sakthivel Sadayappan, Loyola Univ Chicago, Maywood, IL</td>
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<td><strong>A Mouse Model of Heart Failure with Preserved Ejection Fraction (HfPfEF) due to Chronic Infusion of a Low Subpressor Dose of Angiotensin II</strong></td>
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<td>Stefano Toldo, Virginia Commonwealth Univ, Richmond, VA</td>
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<td>Antonio Abbate, Virginia Commonwealth Univ, Richmond, VA</td>
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<td><strong>5481</strong></td>
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<td><strong>Pulmonary Artery Pulsatility Index Predicts Right Ventricular Failure Following LVAD Surgery</strong></td>
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<td>Kevin J Morine, Tufts Medical Ctr, Boston, MA</td>
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<td>Navin K Kapur, Tufts Medical Ctr, Boston, MA</td>
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**Best of AHA Specialty Conferences**

| **BASC.03** |
| **Best of AHA Specialty Conferences: ATVB 2014** |
| South Hall A2, Best of AHA Specialty Conferences  |
| 9:00 AM - 5:00 PM  |
| Presenter Available: 9:30 - 11:00 AM  |
| **ATVB01** |
| **Endothelial Dysfunction Potentiates Deep Venous Thrombosis in a Mouse Model of Sepsis**  |
| Andrea T Obi, Univ of Michigan, Ann Arbor, MI  |
| Peter K Henke, Univ of Michigan, Ann Arbor, MI  |
| **ATVB02** |
| **ABCA1 Ligand Peptides That Stimulate Cellular Cholesterol Efflux With High Potency Increase Insulin Sensitivity in Metabolic and Genetic Mouse Models of Obesity and Type 2 Diabetes**  |
| Jan Johansson, Artery Therapeutics, San Ramon, CA  |
| **ATVB03** |
| **MiR-33 Coordinate Regulates Macrophage Autophagy**  |
| Mireille Ouimet, New York Univ Sch of Med, New York, NY  |
| Kathryn Moore, New York Univ Sch of Med, New York, NY  |
| **ATVB04** |
| **Angiotensin II Drives Murine Ly-6chi Monocyte Trafficking from the Spleen to the Aneurismal Aorta Through B Cells**  |
| Stephane Potteaux, INSERM, Paris, France  |
ATVB05 The Nuclear Receptor FXR Uncouples the Actions of Srebp2 and MiR-33  
Thomas Vallin, UCLA, Los Angeles, CA

ATVB06 Targeting Sortilin in Immune Cells Reduces Atherosclerosis  
Martin B Mortensen, Aarhus Univ Hosp, Aarhus N, Denmark
Jacob F Bentzon, Aarhus Univ Hosp, Aarhus N, Denmark

ATVB07 Telomerase Reverse Transcriptase Mediates Vascular Smooth Muscle Cell Proliferation and Cell Cycle Progression Through Epigenetic Regulation of E2F Target Genes  
Jun Aono, Univ of Kentucky, Lexington, KY
Dennis Bruemmer, Univ of Kentucky, Lexington, KY

ATVB08 Macrophage Expression of the Notch Ligand Delta-Like 4 Promotes Vein Graft Disease in LDL Receptor–Deficient Mice  
Masanori Aikawa, Brigham and Women's Hosp, Harvard Medical Sch, Boston, MA

ATVB09 Endogenous Superoxide Dismutase Protects From Impaired Generation of Activated Protein C and Enhanced Susceptibility to Experimental Thrombosis in Mice  
Sanjana Dayal, Univ of Iowa, Iowa City, IA
Steven R Lentz, Univ of Iowa, Iowa City, IA

ATVB10 SH2B3 Is a Genetic Determinant of Cardiac Inflammation and Fibrosis  
Michael J Flister, Medical Coll of Wisconsin, Milwaukee, WI
Howard Jacob, Medical Coll of Wisconsin, Milwaukee, WI

ATVB11 Disturbed Flow Alters Genomewide DNA Methylation Patterns, Regulating Endothelial Gene Expression and Atherosclerosis  
Jessilyn Dunn, Georgia Inst of Technology and Emory Univ, Atlanta, GA
Hanjoong Jo, Georgia Inst of Technology and Emory Univ, Atlanta, GA

ATVB12 Endothelial LOX-1 Protects Against Arterial Thrombosis via Activation of the Oct-1/SIRT1 Pathway  
Alexander Akhmedov, Zurich Univ, Schlieren, Switzerland
Thomas F Lüscher, Zurich Univ, Schlieren, Switzerland

ATVB13 A Role for Macrophage Lipopolysaccharide Binding Protein in Atherosclerosis Development  
Thomas Gilliland, Howard Hughes Medical Inst, Los Angeles, CA
Cynthia Hong, Howard Hughes Medical Inst, Los Angeles, CA

ATVB14 CAT-2003 is a Novel Small Molecule That Inhibits Proprotein Convertase Subtilisin/Kexin Type 9 Production and Lowers Non-High-Density Lipoprotein Cholesterol  
Michael Zimmer, Catabasis Pharmaceuticals, Cambridge, MA
Michael Jirousek, Catabasis Pharmaceuticals, Cambridge, MA

ATVB15 Sortilin 1 Promotes Matrix Vesicle-Mediated Vascular Microcalcification via Rab11 Trafficking and C-Terminal Phosphorylation  
Claudia Goettsch, Brigham and Women's Hosp, Harvard Medical Sch, Boston, MA
Elena Aikawa, Brigham and Women's Hosp, Harvard Medical Sch, Boston, MA

ATVB16 KLF2 Regulates Aortic Aneurysm Morphology via Matrix Endopeptidase Regulation During Aneurysm Formation  
Morgan Salmon, Univ of Virginia Medical Ctr, Charlottesville, VA
Gorav Alawadi, Univ of Virginia Medical Ctr, Charlottesville, VA

Lars Maegdefessel, Karolinska Inst, Stockholm, Sweden

ATVB18 Novel Functions of Small GTPase Rap1 in Regulating Endothelial Homeostasis: Control of Nitric Oxide Release, Vascular Function and Blood Pressure  
Sribalaji Lakshminathan, Blood Ctr of Wisconsin, Milwaukee, WI
Magdalena Chrzanowska-Wodnicka, Blood Ctr of Wisconsin, Milwaukee, WI

ATVB19 Lipoprotein(a) Internalization in HepG2 Cells is Regulated by Proprotein Convertase Subtilisin Kexin Type 9 Through the Low-Density Lipoprotein Receptor  
Rocco Romagnuolo, Univ of Windsor, Windsor, ON, Canada
Marlys L Koschinsky, Univ of Windsor, Windsor, ON, Canada

ATVB20 Oxidative Stress Induces Endothelial Dysfunction: Role of Sterol Regulatory Element Binding Protein 2 and MicroRNA-92a  
Zhen Chen, Univ of California, San Diego, La Jolla, CA
John Shyy, Univ of California, San Diego, La Jolla, CA

ATVB21 Diagnostic and Prognostic Biomarker Potential of miR-24 in Abdominal Aortic Aneurysm Disease and Rupture  
Lars Maegdefessel, Karolinska Inst, Stockholm, Sweden

ATVB22 Serum Amyloid A and Toll-Like Receptor 2 Activation Promote Dedifferentiation of Vascular Smooth Muscle Cells  
Lawrence G Pessolano Jr., Boston Univ Sch of Med, Boston, MA
Barbara M Schreiber, Boston Univ Sch of Med, Boston, MA

ATVB23 Anti-miR33 Therapy Promotes PGC1alpha Expression, Mitochondrial Function and Immunometabolic Pathways in Macrophages in Atherosclerosis  
Denuja Karunakaran, Univ of Ottawa Heart Inst, Ottawa, ON, Canada
Katey J Rayner, Univ of Ottawa Heart Inst, Ottawa, ON, Canada
ATVB24  AAV-Mediated Expression of Human IDOL in Mouse Liver Increases LDL Cholesterol in a Dose-Dependent Fashion
Salam Ibrahim, Univ of Pennsylvania, Sch of Med, Philadelphia, PA
Daniel J Rader, Univ of Pennsylvania, Sch of Med, Philadelphia, PA

ATVB25  A Novel Lysosome-Mediated Degradation Mechanism for Hepatic Lipid Droplet Turnover
Zemin Yao, Univ of Ottawa, Ottawa, ON, Canada

ATVB26  A Novel Role of Endothelial and Macrophage Epsins in Atherosclerosis
Hong Chen, OMRF, Oklahoma City, OK

ATVB27  Emilin1 Controls Myogenic Response of Resistance Arteries by Modulation of TRPC6 Through the TGFβ/ALK5/ADAM17/EGFR Pathway
Daniela Carnevale, Sapienza Univ of Rome at IRCCS Neuromed, Pozzilli (IS), Italy
Giuseppe Lembo, Sapienza Univ of Rome at IRCCS Neuromed, Pozzilli (IS), Italy

ATVB28  Anti-TIM-1 Monoclonal Antibody Therapy Expands Atheroprotective B1a B Cells in vivo and Attenuates Development and Progression of Atherosclerosis
Tin Kyaw, Baker IDI Heart and Diabetes Inst, Melbourne, Australia
Ban-Hock Toh, Monash Medical Ctr, Melbourne, Australia

ATVB29  Suppression of Atherosclerosis by CD39
Yogendra Kanthi, Univ of Michigan Health System, Ann Arbor, MI
David Pinsky, Univ of Michigan Health System, Ann Arbor, MI

ATVB30  Elucidation of the Mechanism of Apolipoprotein(a)/Lipoprotein(a)-Induced Interleukin 8 Gene Expression: Insight into Potential Receptors and Signaling Pathways and the Role of Oxidized Phospholipids
Corey A Scipione, Univ of Windsor, Windsor, ON, Canada
Marlys L Koschinsky, Univ of Windsor, Windsor, ON, Canada

ATVB31  B2 Cells Suppress Abdominal Aortic Aneurysms and Increase Peripheral Regulatory T Cells
Akshaya K Meher, Univ of Virginia, Charlottesville, VA
Gorav Alawadi, Univ of Virginia, Charlottesville, VA

ATVB32  Deficiency of Nogo-B Receptor Promotes the Nuclear Translocation of Liver X Receptor Alpha and Hepatic Lipogenesis
Qing (Robert) Miao, Medical Coll of Wisconsin, Milwaukee, WI

ATVB33  MiR-33 Antagonism Prevents the Progression of Atherosclerosis by Promoting an M2 Macrophage Phenotype
Hasini N Ediriveera, NYU, New York, NY
Kathryn J Moore, NYU, New York, NY

ATVB34  Basigin Promotes Vascular Smooth Muscle Proliferation and Pulmonary Hypertension
Kimio Sato, Tohoku Univ Graduate Sch of Med, Sendai, Japan
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan

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BASCV01  miR-28 Induces Oxidative Stress via Nrf2 in Right Ventricular Failure but not in Left Ventricular Failure
Sushma Reddy, Lucile Packard Children's Hosp, Palo Alto, CA
Daniel Bernstein, Lucile Packard Children's Hosp, Palo Alto, CA

BASCV02  The Role of Post-translational Modifications in SERCA2a-related Cardiac Dysfunction
Changwon Kho, Icahn Sch of Med at Mount Sinai, New York, NY
Roger Hajjar, Icahn Sch of Med at Mount Sinai, New York, NY

BASCV03  Differences Between Mammalian and Drosophila Mitochondrial Calcium Handling Help Identify Mechanisms Regulating the Permeability Transition
Dipayan Chaudhuri, Boston Children's Hosp, Boston, MA
David E Clapham, Boston Children's Hosp, Boston, MA

BASCV04  A β1-Adrenergic Receptor/-Arrestin1-Regulatable MicroRNA, MiR-150 Protects the Mouse Heart from Ischemic Injury by Repressing Pro-apoptotic Egr2 and P2x7r
Il-man Kim, Georgia Regents Univ, Augusta, GA
Qiuping Hu, Georgia Regents Univ, Augusta, GA

BASCV05  Multi-Species Genome-Wide Analyses of the Specification of Individual Cardiac Cell Fates
Brian Busser, NHLBI/NIH, Washington, MD
Alan Michelson, NHLBI/NIH, Bethesda, MD

BASCV06  Diet-Induced Leukocyte Telomere Shortening Correlates with Extent of Atherosclerosis
Genevieve Karere, Texas Biomedical Research Institute, San Antonio, TX
Laura Cox, Texas Biomedical Research Institute, San Antonio, TX

BASCV07  Targeted Inhibition of Cardiac Ankyrin Repeat Protein Disrupts Sarcomeric ERK-GATA4 Signaling at the Titin I-band and Abrogates Agonist-Induced Cardiac Hypertrophy
Chee Lim, Vanderbilt Univ, Nashville, TN
Jeffrey M Davidson, Vanderbilt Univ, Nashville, TN
| BCVS08 | Genetic Deletion Of Mir-208a Induces Pathological Remodeling And Heart Failure  
Robert T Davis, Univ of Illinois at Chicago, Chicago, IL  
Madhu Gupta, Univ of Illinois at Chicago, Chicago, IL |
| BCVS090 | MEOX1 is a Cell-cycle Oscillator Required for Mitotic Transition and Proliferation in Cardiac Fibroblasts  
Shuichiro Higo, Osaka Univ Graduate Sch of Med, Suita, Japan  
Seiji Takashima, Osaka Univ Graduate Sch of Med, Suita, Japan |
| BCVS10 | Epigenetic And Transcriptional Regulation Of Induced Pluripotent Stem Cells In Patients With Hypoplastic Left Heart Syndrome  
Junko Kobayashi, Dept of Cardiovascular Surgery, Okayama Univ, Okayama, Japan  
Hidemasa Oh, Ctr for Innovative Clinical Med, Okayama Univ Hosp, Okayama, Japan |
| BCVS11 | 2-deoxy Adenosine Triphosphate Improves Contraction In Human End-stage Heart Failure  
Farid Moussavi-Harami, Univ of Washington, Seattle, WA  
Michael Regnier, Univ of Washington, Seattle, WA |
| BCVS12 | Klf5 Regulates Cardiac Pparα and Med13 and affects Cardiac Fatty Acid Metabolism And Obesity  
Konstantinos Drosatos, Temple Univ, Philadelphia, PA  
Ira J Goldberg, Columbia Univ, New York, NY |
| BCVS13 | The Regulatory Effects Of Peroxisiredoxin II On Phospholamban Phosphorylation And Cardiac Contractile Function In Vivo  
Wen Zhao, Zhengzhou Univ, Zhengzhou, China  
Hong-Min Liu, Zhengzhou Univ, Zhengzhou, China |
| BCVS14 | Contractile Dysfunction In The Mouse Heart Caused By Phospholipase C beta1b Mediated Activation Of Protein Kinase Calpha  
David R Grubb, Baker IDI Heart and Diabetes Inst, Melbourne, Australia  
Elizabeth A Woodcock, Baker IDI Heart and Diabetes Inst, Melbourne, Australia |
| BCVS15 | Acute Mechanical Unloading of the Left Ventricle Promotes Cardioprotective Signaling and Limits Myocardial Infarct Size  
Navin K Kapur, Tufts Medical Ctr MCRI, Boston, MA  
Richard H Karas, Tufts Medical Ctr MCRI, Boston, MA |
| BCVS16 | ES1 Is A Novel Mitochondrial Protein Protecting The Heart Via Direct Regulation Of Mitochondrial Energy Metabolism  
Qingqiang Long, Univ of Alabama at Birmingham, Birmingham, AL  
Qinglin Yang, Univ of Alabama at Birmingham, Birmingham, AL |
| BCVS17 | Temporal Ubiquitin-Protasemal Degradation of Smad9 Mediated by its Specific E3 Ligase Asb2 is Required for Cardiac Development through the Regulation of Tbx2 Expression  
Kyung-Duk Min, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan  
Masafumi Kitakaze, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan |
| BCVS18 | miR-223 is Necessary for Exercise-induced Cardiac Growth and Protects Against Pathological Cardiac Remodeling  
Xiaojun Liu, Cardiovascular Div of the Beth Israel Deaconess Medical Ctr and Harvard Medical Sch, Boston, MA  
Anthony Rosenzweig, Cardiovascular Div of the Beth Israel Deaconess Medical Ctr and Harvard Medical Sch, Boston, MA |
| BCVS19 | Identification of Novel Protein Kinase G1 Alpha Antiremodeling Substrates in the Myocardium  
Robert M Blanton, Tufts Medical Ctr, Boston, MA  
Richard H Karas, Tufts Medical Ctr, Boston, MA |
| BCVS20 | Accumulation of Mitochondrial DNA Mutations Impairs Survival, Proliferation, and Differentiation of Cardiac Progenitor Cells  
Amabel M Orogo, Univ of California San Diego, La Jolla, CA  
Åsa B Gustafsson, Univ of California San Diego, La Jolla, CA |
| BCVS21 | Aldosterone Induces Cardiac Deleterious Effects Through A Grk2 And Grk5 Dependent Pathway  
Alessandro Cannavo, Temple Univ, Philadelphia, PA  
Walter J Koch, Temple Univ, Philadelphia, PA |
| BCVS22 | Use of Magnetic Resonance Imaging Method For Quantification Of Myocardial Salvage In A Rat Model Of Ischemia-reperfusion Injury  
Jawad Mazhar, Univ of Sydney, Camperdown, Australia  
Gemma A Figtree, Univ of Sydney, Camperdown, Australia |
| BCVS23 | Progressive Mitochondrial Protein Acetylation and Microsteatosis is Associated with Diastolic Dysfunction in a Hypertrophic Cardiomyopathy Model  
Amanda R Stram, Indiana Univ, Indianapolis, IN  
Mark Payne, Indiana Univ, Indianapolis, IN |
| BCVS24 | T Cell Mediated Immune Responses Regulate Cardiac Remodeling and Survival in Pressure Overload Induced Heart Failure  
Pilar Alcaide, Tufts Medical Ctr, Boston, MA  
Richard Karas, Tufts Medical Ctr, Boston, MA |
| BCVS25 | Ablation of the Hypertension Candidate Gene ATP2B1 Leads To Deficient Calcium Cycling, Systolic Dysfunction and Heart Failure Following Pressure Overload  
Nicholas P Stafford, Univ of Manchester, Manchester, United Kingdom  
Elizabeth J Cartwright, Univ of Manchester, Manchester, United Kingdom |
BCVS27  Cardiac Transcription Factor EB Sumoylation Deficiency Exacerbates Age-associated Reduction in Autophagy
Heng Ma, Dept of Physiology, Fourth Military Medical Univ, Xi’an, Shaanxi, China
Yan Li, Dept of Cardiology, Xijing Hosp, Fourth Military Medical Univ, Xi’an, Shaanxi, China

BCVS28  Dnajb6b Is A Novel Genetic Modifier For Cardiomyopathy That Regulates ER Stress Response
Yonghe Ding, Mayo Clinic, Rochester, MN
Xiaolei Xu, Mayo Clinic, Rochester, MN

BCVS29  Domain-Specific Roles for GRK2 in Cardiac Hypertrophy and Heart Failure
Sarah M Schumacher, Temple Univ, Philadelphia, PA
Walter J Koch, Temple Univ, Philadelphia, PA

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BASC.02  Best of AHA Specialty Conferences: EPI/NPAM 2014
South Hall A2, Best of AHA Specialty Conferences
9:00 AM - 5:00 PM

EPI01  A Comparison of Blood Pressure-Lowering Treatment Decisions Based on Levels of Blood Pressure, Age, and Risk
Kunal N Kamali, Northwestern Univ, Chicago, IL
Johan Sundstrom, Uppsala Univ, Uppsala, Sweden

EPI02  Effects of a Behavioral Intervention that Emphasizes Spices and Herbs on Adherence to Recommended Sodium Intake
Cheryl Anderson, Univ of Calif San Diego, La Jolla, CA
Lawrence J Appel, Johns Hopkins Univ, Baltimore, MD

EPI03  HIV Infection Is Associated With Greater Risk of Carotid Artery Lesions Over Seven Years
David B Hanna, Albert Einstein Coll of Med, Bronx, NY
Lawrence A Kingsley, Univ of Pittsburgh, Pittsburgh, PA

EPI04  Loss of Ideal Cardiovascular Health Factors from Early Young Adulthood to Middle Age
Holly C Gooding, Boston Children’s Hosp/ Harvard Medical Sch, Boston, MA
Donald M Lloyd-Jones, Northwestern Feinberg Sch of Med, Chicago, IL

EPI05  Associations of Cardiorespiratory and Musculoskeletal Fitness with Body Mass Index and Waist Circumference: Fitness versus Fatness in a Population-based Sample of Chilean 8th Graders
Michael D Garber, Emory Univ Rollins Sch of Public Health, Atlanta, GA
Marcelo Sajuria, Insto Nacional de Deportes de Chile, Santiago, Chile

EPI06  Age at Menarche is Inversely Associated with Liver Steatosis and Abdominal Fat Depots: CARDIA Study
Noel T Mueller, Dept of Epidemiology, Mailman Sch of Public Health, Columbia Univ, New York, NY
David R Jacobs, Div of Epidemiology & Community Health, Sch of Public Health, Univ of Minnesota, Minneapolis, MN

EPI07  Validity of Hospital Discharge Diagnosis Codes for Stroke: Evaluation of New American Heart Association/American Stroke Association Definitions
Sydney Jones, Univ of North Carolina at Chapel Hill, Chapel Hill, NC
Wayne D Rosamond, Univ of North Carolina at Chapel Hill, Chapel Hill, NC

EPI08  Relations of Arterial Stiffness and Incident Heart Failure in the Community
Connie W Tsoo, Beth Israel Deaconess Medical Ctr, Boston, MA
Ramachandran S Vasan, Boston Univ Sch of Med, Boston, MA

EPI09  Race-sex differences in hyperlipidemia awareness, treatment and control in the Reasons for Geographic And Racial Differences in Stroke (REGARDS) study
Monika M Safford, Univ of Alabama at Birmingham, Birmingham, AL
Emily Levitan, Univ of Alabama at Birmingham and Birmingham VA Medical Ctr, Birmingham, AL

EPI10  Body Mass Index And The Risk Of All-cause Mortality Among Patients With Type 2 Diabetes
Wenhui Zhao, Pennington Biomedical Research Center, Baton Rouge, LA
Gang Hu, Pennington Biomedical Res Ctr, Baton Rouge, LA

EPI11  The Impact of Low Consumption of Fruits and Vegetables on Mortality from Cardiovascular Diseases in 187 Countries
Shahab Khatibzadeh, Harvard Sch of Public Health, Boston, MA
Dariush Mozaffarian, Harvard Sch of Public Health, Boston, MA

EPI12  Increased Risk of Death in Individuals with Premature Atrial, but not Premature Ventricular Contractions on Screening Electrocardiogram
Amit J Shah, Emory Univ, Atlanta, GA
Elsayed Z Solman, Wake Forest Univ, Winston Salem, NC

EPI13  Fried Food Consumption and Genetic Predisposition to Obesity
Qibin Qi, Dept of Epidemiology and Population,Albert Einstein Coll of Med, New York City, NY
Lu Qi, Harvard Sch of Public Health, Boston, MA
<table>
<thead>
<tr>
<th>Session Code</th>
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<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>EPI14</td>
<td>Genetically Elevated Low-Density Lipoprotein Cholesterol is Associated with Aortic Valve Calcification and Incident Aortic Stenosis</td>
<td>George Thanassoulis, McGill Univ Health Ctr and Res Inst, Montreal, QC, Canada J Gustav Smith, Lund Univ, Lund, Sweden</td>
</tr>
<tr>
<td>EPI15</td>
<td>N-Terminal Pro-Brain Natriuretic Peptide (NT-proBNP) and Risk of Hypertension in the Atherosclerosis Risk in Communities (ARIC) Study</td>
<td>Julie K Bower, The Ohio State Univ, Columbus, OH Elizabeth Selvin, Johns Hopkins Univ, Baltimore, MD</td>
</tr>
<tr>
<td>EPI16</td>
<td>The Deaf Weight Wise Study: A Unique Clinical Trial of Health Behavior Modification with Deaf Adults</td>
<td>Steven Barnett, Univ of Rochester, Rochester, NY Deaf Weight Wise Group</td>
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<tr>
<td>EPI17</td>
<td>Increased Intake of Non-Dairy Sugars in Foods and Beverages is Positively Associated with Annual Increases in Waist Circumference among Overweight and Obese Adolescent Females</td>
<td>Jean Welsh, Emory Univ, Atlanta, GA</td>
</tr>
<tr>
<td>EPI18</td>
<td>Metabolomic Features Associated With Incident Hypertension - Results From Insulin Resistance Atherosclerosis Study</td>
<td>Waqas Qureshi, Wake Forest Univ, Winston Salem, NC David Herrington, Wake Forest Univ SOM, Winston Salem, NC</td>
</tr>
<tr>
<td>EPI19</td>
<td>Sleep duration and risk of stroke mortality among Chinese adults in Singapore: the Singapore Chinese Health Study</td>
<td>An Pan, Natl Univ of Singapore, Singapore Woon-Puay Koh, Duke-NUS Graduate Medical Sch, Singapore</td>
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<tr>
<td>EPI20</td>
<td>High Sedentary Activity Mediates the Association of Acculturation and Obesity in Mexican-American Adults: the National Health and Nutrition Examination Survey (NHANES) 2007-2010</td>
<td>Rosenda Murillo, Univ of Houston, Houston, TX Kiarri N Kashaw, Northwestern Univ, Chicago, IL</td>
</tr>
<tr>
<td>EPI21</td>
<td>In Praise of Demanding Parenting: The Effects of Parenting Style and Poverty on Obesity Risk in Children: Evidence from a Nationally Representative Sample</td>
<td>Lisa Katkinani, Concordia Univ, Montreal, QC, Canada Gilles Paradis, McGill Univ, Montreal, QC, Canada</td>
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<td>EPI22</td>
<td>Whole Grain Intake and Risk of All-Cause and Cause-Specific Mortality in US Men and Women</td>
<td>Hongyu Wu, Harvard Sch of Public Health, Boston, MA Qi Sun, Harvard Sch of Public Health, Boston, MA</td>
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<td>EPI23</td>
<td>Long-term Blood Pressure Variability though Young Adulthood and Cognitive Function in Midlife; The Coronary Artery Risk Development in Young Adults (CARDIA)Study</td>
<td>Yuichiro Yano, Northwestern Univ Feinberg Sch of Med, Chicago, IL Donald Lloyd-Jones, Northwestern Univ Feinberg Sch of Med, Chicago, IL</td>
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<td>EPI24</td>
<td>Stimulatory Effects of Fructose vs. Glucose on Brain Reward Activation and Hunger are Heightened in Obese Young Adults</td>
<td>Kathleen Page, USC, Los Angeles, CA John Monterosso, USC, Los Angeles, CA</td>
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<td>EPI25</td>
<td>Trajectories of Weight Change and Their Association with Barriers to Healthy Eating during 18-month Weight Loss Treatment</td>
<td>Yaguang Zheng, Univ of Pittsburgh, Pittsburgh, PA Lora E Burke, Univ of Pittsburgh, Pittsburgh, PA</td>
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<td>EPI26</td>
<td>Depressive Symptoms are Associated with Mental Stress-Induced Myocardial Ischemia After Acute Myocardial Infarction</td>
<td>Jingkai Wei, Emory Univ, Atlanta, GA Viola Vaccarino, Emory Univ, Atlanta, GA</td>
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<td>EPI28</td>
<td>Virtual Small Groups for Weight Management: An innovative delivery mechanism for evidence-based lifestyle interventions</td>
<td>Abigail Baldridge, Northwestern Univ Feinberg Sch of Med, Chicago, IL Mark Huffman, Northwestern Univ Feinberg Sch of Med, Chicago, IL</td>
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<td>EPI29</td>
<td>Prognostic Impact of Heart Failure with Preserved and Reduced Ejection Fraction after Myocardial Infarction in the Community</td>
<td>Yariv Gerber, Mayo Clinic, Rochester, MN Veronique L Roger, Dept of Health Sciences Res, Rochester, MN</td>
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<td>EPI30</td>
<td>Associations of Chronic Individual- and Neighborhood-Level Stressors with Incident Coronary Heart Disease (CHD): The Multi-Ethnic Study of Atherosclerosis (MESA)</td>
<td>Kiarri N Kashaw, Northwestern Univ, Chicago, IL Kiang Liu, Northwestern Univ, Chicago, IL</td>
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<td>EPI31</td>
<td>Biomarkers of Cardiovascular Stress and Left Ventricular Hypertrophic Function in Midlife; The Coronary Artery Risk Development in Young Adults (CARDIA)Study</td>
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<td>Prognostic Impact of Heart Failure with Preserved and Reduced Ejection Fraction after Myocardial Infarction in the Community</td>
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<td>Associations of Chronic Individual- and Neighborhood-Level Stressors with Incident Coronary Heart Disease (CHD): The Multi-Ethnic Study of Atherosclerosis (MESA)</td>
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<td>EPI42</td>
<td>Biomarkers of Cardiovascular Stress and Left Ventricular Hypertrophic Function in Midlife; The Coronary Artery Risk Development in Young Adults (CARDIA)Study</td>
<td>Veronique L Roger, Mayo Clinic, Rochester, MN Kiarri N Kashaw, Northwestern Univ, Chicago, IL Kiang Liu, Northwestern Univ, Chicago, IL</td>
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EPI32  The Validity of Predictive Equations for 24-Hour Urine Sodium Excretion Among Older Adults and Those with Hypertension: The MESA and CARDIA Urinary Sodium Study  
Norina B Allen, Northwestern Univ, Chicago, IL  
Kiang Liu, Northwestern Univ, Chicago, IL

EPI33  Daily Energy Intake Distribution And Weight Gain In Women  
Martin Lajous, Insto Nacional de Salud Publica, Mexico, Mexico  
Françoise Clavel-Chapelon, Inserm, Ctr for Research in Epidemiology and Population Health (CESP), U1018, Nutrition, Hormones and Women’s Health team, Univ Paris-Sud, UMRS 1018, Villejuif, France

EPI34  Echocardiographic Determinants of Change in Cardiorespiratory Fitness in Response to Exercise Training: The DREW Study  
Ambarish Pandey, Univ of Texas Southwestern Medical Ctr, Dallas, TX  
Jarett D Berry, Univ of Texas Southwestern Medical Ctr, Dallas, TX

EPI35  Integrative Genomics Analysis Reveals Novel Mechanisms For Plasma Lipid Regulation  
Yuqi Zhao, Dept of Integrative Biology and Physiology, Univ of California, Los Angeles, Los Angeles, CA  
Xia Yang, Univ of California, Los Angeles, Los Angeles, CA

EPI36  Relationship Between Casual Urinary Sodium/potassium Ratio And 24-h Urinary Sodium/potassium Ratio: The Intersalt Study  
Toshiyuki Iwahori, Shiga Univ of Medical Science, Otsu, Shiga, Japan  
Jeremiah Stamler, Northwestern Univ, Chicago, IL

EPI37  Cumulative Risks for Hypertension In Middle-Aged White and African American Men and Women  
John T Wilkins, Northwestern Univ Feinberg Sch of Med, Chicago, IL  
Donald M Lloyd-Jones, Northwestern Univ Feinberg Sch of Med, Chicago, IL

EPI38  Associations of Nonalcoholic Fatty Liver Disease with Subclinical Myocardial Dysfunction: The CARDIA Study  
Lisa B VanWagner, Northwestern Univ Feinberg Sch of Med, Chicago, IL  
Sanjiv J Shah, Northwestern Univ Feinberg Sch of Med, Chicago, IL

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BASC.06  Best of AHA Specialty Conferences: HBPR 2014

South Hall A2, Best of AHA Specialty Conferences  
9:00 AM - 5:00 PM

HBPR01  A Genetic Variant of Human Aldosterone Synthase Gene Causes Salt-Dependent High Blood Pressure in Transgenic Mice  
Brahmaraju Mopidevi, Univ of Toledo, Toledo, OH  
Ashok Kumar, Univ of Toledo, Toledo, OH

HBPR02  Alpha1a-Adrenoceptor Genetic Variant-Triggered Hyperproliferation in Cardiovascular Cells is Mediated by Novel Interacting Protein Spinophilin  
Anush Oganesian, Univ of Washington, Seattle, WA

HBPR03  Cholinergic Expansion of an Inflammatory Macrophage Population in the Pre-Hypertensive Spontaneously Hypertensive Rat  
Sailesh Harwani, Univ of Iowa, Iowa City, IA  
Francois M Abboud, Univ of Iowa, Iowa City, IA

HBPR04  Renal Medullary (Pro)Renin Receptor Mediates Angiotensin II-Induced Hypertension via Enhancement of Local Renin Response and Renal Medullary α-ENaC Expression  
Fei Wang, The Inst of Hypertension, Zhongshan Sch of Med, Sun Yat-sen Univ, Guangzhou, China  
Tianxin Yang, Dept of Internal Med, Univ of Utah, salt lake city, UT

HBPR05  Disruption of Shroom3 contributes to impaired glomerular podocyte function  
Nan Cher Yeo, Medical Coll of Wisconsin, Milwaukee, WI  
Howard J Jacob, Medical Coll of Wisconsin, Milwaukee, WI

HBPR06  Mutation in the PPARG Ligand Binding Domain Impairs PPARG-Mediated Turnover of the p65 Subunit of NF-κB  
Masashi Mukoda, Univ of Iowa Carver Coll of Med, Iowa City, IA  
Curt D Sigmund, Univ of Iowa Carver Coll of Med, Iowa City, IA

HBPR07  Selective Knockout of the Intracellular Isoform of Renin in the Brain Contributes to Metabolic and Cardiovascular Control  
Keisuke Shinohara, Tha Univ of Iowa, Carver Coll of Med, Iowa City, IA  
Curt D Sigmund, Univ of Iowa Carver Coll of Med, Iowa City, IA
The Myogenic Tone Of Resistance Arteries Is Controlled By A Molecular Pathway Driven By Tgfβ Through Emilin1 And Converging On The Regulation Of Trp Channels.
Daniela Carnevale, Sapienza Univ of Rome at IRCCS Neuromed, Pozzilli (IS), Italy
Giuseppe Lembo, Sapienza Univ of Rome at IRCCS Neuromed, Pozzilli (IS), Italy

Soluble Dipeptidyl Peptidase-4 Induces Endothelial Dysfunction by the Release of Vasoconstrictor Prostanoids: Protective Effect of Dipeptidyl Peptidase Inhibitors
Concepción Peiró, Univ Autonóma de Madrid, Madrid, Spain
Carlos F Sánchez-Ferrer, Univ Autónoma de Madrid, Madrid, Spain

Interleukin 17a Regulates Salt And Water Retention Through Enhanced Sgk1 And Nhe3 Expression In The Renal Proximal Tubule
Allison E Norlander, Vanderbilt Univ, Nashville, TN
Meena S Madhur, Vanderbilt Univ, Nashville, TN

Involvement of Decreases in Regulatory T Cells and Splenic Sympathetic Nerve in the Development of Hypertension in Genetically Hypertensive Rats
Masato Katsuki, Kyushu Univ Graduate Sch of Medical Sciences, Fukuoka, Japan
Kenji Sunagawa, Kyushu Univ Graduate Sch of Medical Sciences, Fukuoka, Japan

Foxp3+ T Regulatory Lymphocytes Counteract Angiotensin II-induced Vascular Injury
Muhammad Oneeb Rehman Mian, Lady Davis Inst for Medical Res, McGill Univ, Montreal, QC, Canada
Emesto L Schiffrin, Lady Davis Inst for Medical Res and Dept of Med, Sir Mortimer B Davis Jewish General Hosp, McGill Univ, Montreal, QC, Canada

20-SOLA, A Novel Water-soluble 20-HETE Antagonist, Elicits Natriuresis And Abrogates Hypertension In Cyp4a14 Knockout Mice.
Varun Kumar G Pandey, New York Medical Coll, Valhalla, NY
Michal L Schwartzman, New York Medical Coll, Valhalla, NY

Blockade of Toll-like Receptor 4 During Acute Lipopolysaccharide Treatment Preserves Afferent Arteriolar Autoregulatory Behavior.
Justin Van Beusecum, Univ of Alabama-Birmingham, Birmingham, AL
Edward W Inscho, Georgia Regents Univ, Augusta, GA

Oral Minocycline Reduces Blood Pressure and Restores Autonomic Balance in Chronic Ang II-Infusion Rat Model of Hypertension
Monica M Santistebar, Univ of Florida, Gainesville, FL
Mohan K Raizada, Univ of Florida, Gainesville, FL

APE1 Upregulation Reduces Oxidative DNA Damage and Protects Hippocampal Neurons from Ischemic Injury
Peiying Li, Dept of Anesthesiology-Huashan Hosp, Shanghai, China
Jun Chen, Univ of Pittsburgh, Pittsburgh, PA

In Vivo Molecular Imaging of Thrombosis and Thrombolysis Using a Fibrin-binding PET Probe
Francesco Blasi, Massachusetts General Hosp, Charlestown, MA
Peter Caravan, Massachusetts General Hosp, Charlestown, MA

Risk Factors Associated with Failure of Aggressive Medical Therapy in the SAMMPRIS Trial
Michael F Waters, Univ of Florida Coll of Med, Gainesville, FL
SAMMPRIS

Increased Activation of Inflammatory Genes in Monocytes of Healthy People with Ischemic White Matter Disease
Paul A Nyquist, Johns Hopkins, Baltimore, MD
Diane M Becker, Johns Hopkins, Baltimore, MD

Analysis of SUMO3-Modified Proteome in Post-Ischemic Mouse Brain
Wei Yang, Duke University Medical Ctr, Durham, NC
Wulf Paschen, Duke University Medical Ctr, Durham, NC

Psychometric Evaluation of an Instrument to Assess Perceived Benefits and Barriers to Exercise for Stroke Prevention among African Americans
Dawn Aycock, Georgia State Univ, Atlanta, GA
Patricia Clark, Georgia State Univ, Atlanta, GA

Risk of Thrombosis Remains Elevated for 12 Weeks After Labor and Delivery
Hooman Kamel, Hooman Kamel, New York, NY
Mitchell S Elkind, Columbia Coll of Physicians and Surgeons, New York, NY

Cortical Connectivity is a Powerful Predictor of Motor Recovery in Chronic Stroke
Steven C Cramer, Univ of California, Irvine, Irvine, CA
ISC09 Rates of In-Hospital Adverse Events and Discharge Outcomes Among Ischemic Stroke Patients Admitted to Joint Commission Primary Stroke Centers in United States
Saqib A Chaudhry, Michigan State Univ, East Lansing, MI
Adnan I Qureshi, Zeenat Qureshi Stroke Inst and CentraCare Health, St Cloud, MN
Joshua M Stolker, Saint Louis Univ, St Louis, MO

ISC10 Patients With Ischemic Stroke Have More Than Three-Fold Higher Rates of In-Hospital Mortality If Their Troponin Is Elevated
Krishi V Peddada, Saint Louis Univ Sch of Med, St Louis, MO

ISC11 Instituting a 24/7 Enrollment Plan for Acute Ischemic Stroke Clinical Trials: Feasibility, Implementation and Potential Impact
Loren F Shan, Univ of Texas Health Science Ctr at Houston, Houston, TX
Andrew D Barreto, Univ of Texas Health Science Ctr at Houston, Houston, TX

ISC12 Effect of Warfarin Adherence on the Mortality After Ischemic Stroke: A Nationwide Multicenter Cohort Study
Mitchell S Elkind, Cairo, Egypt
Byung-Woo Yoon, Seoul Natl Univ Hosp, Seoul, Republic of Korea

ISC13 Human Placenta-Derived Adherent Cell Treatment of Stroke Induces Angiogenesis, Increases Synaptic Plasticity and Improves Functional Outcome in Older-Adult Rats
Amjad Shehada, Henry Ford Hosp, Detroit, MI
Jieli Chen, Henry Ford Hosp, Detroit, MI

ISC14 HsCRP Predicts Recurrent Stroke and Vascular Events among Patients with Lacunar Stroke: The Levels of Inflammatory Markers in the Treatment of Stroke (LIMITS) Study
Mitchell S Elkind, Columbia Univ, New York, NY
LIMITS Investigators

ISC15 Reduction of Cerebral Hemorrhage by Dabigatran via Neurovascular Protection after Recanalization with tPA in Ischemic Stroke of Rat
Syoichiro Kono, Okayama Univ, Okayama, Japan
Koji Abe, Okayama Univ, Okayama, Japan

ISC16 The Effect of Patching in Carotid Endarterectomy (CEA) on Reducing The Risk of Restenosis and Stroke in the Carotid Revascularization Endarterectomy Versus Stenting Trial (CREST)
Mahmoud Malas, Johns Hopkins Bayview Medical Ctr, Baltimore, MD
Thomas G Brott, Mayo Clinic, Jacksonville, FL

ISC17 Effectiveness of Endovascular Recanalization for Acute Stroke: A Transition Toward Superiority Over Intravenous Thrombolysis
Beom Jooin Kim, Seoul Natl Univ Bundang Hosp, Seongnam-si, Gyeonggi-do, Republic of Korea
Hee-Joon Bae, Seoul Natl Univ Bundang Hosp, Seongnam-si, Gyeonggi-do, Republic of Korea

ISC18 Robotic Telepresence versus Standardly Supervised Stroke Alert Team Assessments
Cumara B O’Carroll, Mayo Clinic Arizona, Phoenix, AZ
Bart M Demaerschalk, Mayo Clinic Arizona, Phoenix, AZ

ISC19 Quantifying Intracranial Aneurysm Wall Permeability for Risk Assessment Using Dynamic Contrast Enhanced MRI: A Pilot Study
Parmede Vakil, Northwestern Univ, Evanston, IL
Timothy J Carroll, Northwestern Univ, Chicago, IL

ISC20 Antiplatelet Therapy Following Ischemic Stroke - Continue or Change Pre-existing Therapy?
Rachael Louise Fulton, University of Glasgow, Glasgow, United Kingdom

ISC21 Ultraearly Hematoma Growth: Multicenter External Validation of the Adjustment of Intracerebral Hemorrhage Volume by Onset-to-Imaging Time
David Rodriguez-Luna, Stroke Unit, Neurology Dept, Vall d’Hebron Univ Hosp, Vall d’Hebron Res Inst, Barcelona, Spain

ISC22 PAK01: A Synthesized Small Molecule That Enhances Reperfusion, Neuroprotection and Avoids Hemorrhagic Transformation in Rodent Models of Thromboembolic Stroke
Shinn-Zong Lin, China Medical Univ Hosp, Taichung, Taiwan
Shiqi Peng, Capital Medical Univ, Beijing, China

ISC23 Snapshot MR-OEF for Simultaneous Imaging of Tissue Oxygenation and CVR in 90 Seconds
Charles G Cantrell, Northwestern Univ, Chicago, IL
Timothy J Carroll, Northwestern Univ, Chicago, IL

ISC24 30-Day Mortality After Carotid Artery Stenting (CAS) in Trial Versus Real-World Settings
Jessica J Jalbert, Brigham and Women’s Hosp/ Harvard Medical Sch, Boston, MA
Soko Setoguchi, Duke Clinical Res Inst, Durham, NC

ISC25 Desmopressin Increases Platelet Activity After Acute Intracerebral Hemorrhage
Andrew M Naidech, Brigham and Women’s Hosp/ Harvard Medical Sch, Boston, MA
Hau C Kwaan, Northwestern Univ, Chicago, IL

ISC27 Procalcitonin, Copeptin and Midregional Pro-atrial Natriuretic Peptide as Markers of Ischemic Stroke Risk: The Northern Manhattan Study
Mira Katan, Univ Hosp of Zurich (and Columbia Univ, New York), Zurich, Switzerland
Mitchell S Elkind, Columbia Univ, New York, NY
ISC28  Sex Differences in Transforming Growth Factor B Activated Kinase-1 Signaling Following Experimental Stroke  
Meaghan Roy-O’Reilly, Univ of Connecticut Health Ctr, Farmington, CT  
Louise McCullough, Univ of Connecticut Health Ctr, Farmington, CT

ISC29  Cd73 Regulation of Netrin-1 Expression in Brain Ischemia  
Danica Petrovic-Djergovic, Univ of Michigan, Ann Arbor, MI  
David J Pinsky, Univ of Michigan, Ann Arbor, MI

ISC30  Trans-Ethnic Meta-Analysis of Genome-Wide Association Studies on Cerebral White Matter Lesions Identifies New Loci  
Myriam Fornage, Univ of Texas Health Science Ctr at Houston, Houston, TX  
on behalf of the NeuroCHARGE working group

ISC31  Pittsburgh Response to Endovascular Therapy (PRE) Score Predicts Likelihood of Benefit From Endovascular Therapy in Anterior Circulation Large Vessel Occlusions  
Srikant Rangaraju, Emory Univ, Atlanta, GA  
Tudor G Jovin, Univ of Pittsburgh Medical Ctr, Pittsburgh, PA

ISC32  Hypercoagulable Response After Intracerebral Hemorrhage Does Not Occur in Patients With Hematoma Enlargement  
Jorge Kawano-Castillo, Truman Medical Ctrs / Univ of Missouri – Kansas City Sch of Med, Kansas City, MO  
James Grotta, Univ of Texas at Houston, Houston, TX

ISC33  Association Between Pharmacologic Thromboprophylaxis and Hemorrhage Progression in Patients With Hemorrhagic Stroke  
William M Coplin, Centura Health Neurosciences, Englewood, CO  
David Bar-Or, St Anthony Hosp, Lakewood, CO

ISC34  Time to Angiographic Reperfusion Predicts Good Clinical Outcome in the Penumbra Studies  
Hope Buell, Penumbra, Inc, Alameda, CA  
RT and RetroSTART Trialists On behalf of the Penumbra Pivotal, POST, PICS, STA

ISC35  The Role of ER-α, ER-β, and AR in the FCG Model of Ischemic Brain Injury  
Kathryn C Bentivegna, Univ of Connecticut Health Ctr, Farmington, CT  
Louise D McCullough, Univ of Connecticut Health Ctr, Farmington, CT

ISC36  Geographic Disparities in Emergency Medical Services Calls for Stroke in Chicago  
Shyam Prabhakaran, Northwestern Univ, Feinberg Sch of Med, Chicago, IL  
Kathleen O’Neill, American Heart Association, Chicago, IL
Trends in Venous Thromboembolism in Hospitalized Heart Failure Patients in the United States: Analysis of the 2002 to 2011 Nationwide Inpatient Sample Database
Sahil Khera, New York Medical Coll, Valhalla, NY
Julio A Panza, New York Medical Coll, Valhalla, NY

Readmissions after Carotid Artery Revascularization in the Medicare Population
Mohammed Salim Al-Damluji, Yale Sch of Med, New Haven, CT
Jeptha P Curtis, Yale Ctr for Outcome and Res Evaluation, New Haven, CT

Non-Obstructive Coronary Artery Disease Is Not Benign: Insights from the VA CART Program on the Association between Non-Obstructive Disease and Cardiac Events
Thomas M Maddox, VA Eastern Colorado Health Care System, Denver, CO
John Fumsfeld, VA Eastern Colorado Health Care System, Denver, CO

Defining the Association of Do-Not-Attempt-Resuscitate Orders with Patients’ Likelihood of Survival after In-Hospital Cardiac Arrest
Timothy Fendler, St Luke’s Mid America Heart Inst, Kansas City, MO
Paul S Chan, St Luke’s Mid America Heart Inst, Kansas City, MO

The Association Between Change in Hospital-Level Use of Transradial PCI and Periprocedural Outcomes: Insights from the NCDR®
Steven M Bradley, VA Eastern Colorado Health Care System; Univ of Colorado Sch of Med, Denver, CO
Hitinder S Gurm, Univ of Michigan, Ann Arbor, MI

Percutaneous Coronary Intervention Outcomes in HIV- and HIV- Patients
Bennett Cua, Yale-New Haven Hosp, New Haven, CT
Matthew Freiberg, Univ of Pittsburgh Sch of Med and Graduate Sch of Public Health, Pittsburgh, PA

Sex, Gender, Socioeconomic Status and Access to Cardiac Catheterization in the Context of Universal Healthcare Coverage
Gabriel E Fabreau, Brigham and Women’s Hosp, Boston, MA
William A Ghali, Inst for Public Health - Univ of Calgary, Calgary, AB, Canada

Impact Of Drug Policy On Regional Trends In Ezetimibe Use
Lingyun Lu, California Northstate Univ Coll of Pharmacy, Elk Grove, CA
Cynthia Jackevicius, Western Univ of Health Sciences, Pomona, CA

Clinician Attitudes and Self-Reported Practices Regarding End of Life Care in Heart Failure
Shannon M Dunlay, Mayo Clinic Rochester, Rochester, MN
Margaret M Redfield, Mayo Clinic Rochester, Rochester, MN

Frequency and Predictors of Inappropriate Aspirin Prescribing for Primary Prevention of Cardiovascular Disease: Insights from the NCDR® PINNACLE Registry
Ravi S Hira, Baylor Coll of Med, Houston, TX
Salim S Virani, Michael E Debakey VA Medical Ctr & Baylor Coll of Med, Houston, TX

Association Between Cardiac Rehabilitation Participation and Health Status Outcomes After Acute Myocardial Infarction
Faraz Kureshi, Saint Luke’s Mid America Heart Inst and Univ of Missouri-Kansas City, Kansas City, MO
John A Spertus, Saint Luke’s Mid America Heart Inst and Univ of Missouri-Kansas City, Kansas City, MO

Low Rates of Implantable Cardioverter-Defibrillator Use Among Medicare Patients with Low Ejection Fraction After Myocardial Infarction
Sean Pokorney, Duke Univ Medical Ctr, Durham, NC
Tracy Y Wang, Duke Univ Medical Ctr, Durham, NC

Gender Differences in Pre-Event Health Status of Young Patients with Acute Myocardial Infarction: Insights from the VIRGO Study
Rachel P Dreyer, Ctr for Outcomes Res and Evaluation (CORE), Dept of Internal Med, Yale Univ Sch of Med, New Haven, CT
John A Spertus, Dept of Cardiovascular Res, Saint Luke’s Mid-America Heart Inst, Univ of Missouri, Kansas City, MO

**Cellular and Molecular Regulation of Cardiac Development**

South Hall A2 - Core 3 Theater
11:00 - 11:25 AM

**Moderator:**
Jamie L Lohr, Minneapolis, MN

**Inferring Dynamic Gene-microRNA Regulatory Networks in Cardiac Differentiation by Integrating Multi-Dimensional Data**
Wuming Gong, Univ of Minnesota, Minneapolis, MN
Daniel J Garry, Univ of Minnesota, Minneapolis, MN

**miRNA-Hippo Pathway Plays a Critical Role in the Cardiac Conduction System**
Jun Wang, Baylor Coll of Med, Houston, TX
James Martin, Baylor Coll of Med, Houston, TX

**Identification of Cardiovascular Lineage Descendants at Single Cell Resolution**
Guang Li, Cardiovascular Inst, Stanford, CA
Sean M Wu, Cardiovascular Inst, Stanford, CA
11:15  miR-322/503 Cluster Drives Cardiac Differentiation by Inhibiting CUG-binding Protein 1  
Xiaopeng Shen, Univ of Houston, Houston, TX  
Yu Liu, Univ of Houston, Houston, TX

11:20  Regulation of Cardiac Regeneration by Hippo Pathway and Dystrophin Glycoprotein Complex  
Yuka Morikawa, Texas Heart Inst, Houston, TX  
James F Martin, Baylor Coll of Med, Houston, TX

11:35  Sports-Related Sudden Cardiac Arrest: Comparison of Survival Outcomes in Europe versus the United States  
Elis Marijon, European Georges Pompidou Hosp, Paris, France  
Sumeet S Chugh, Cedars-Sinai Medical Ctr, Los Angeles, CA

11:40  Optimal Targeted Temperature in Comatose Survivors After Cardiac Arrest Treated With Extracorporeal Cardiopulmonary Resuscitation  
Eisuke Kagawa, Hiroshima City Asa Hosp, Hiroshima, Japan  
Yasuki Kihara, Hiroshima Univ Graduate Sch of Biomedical and Health Sciences, Hiroshima, Japan

11:00  Clinical Cardiac Arrest Outcomes and Care Processes  
South Hall A2 - Core 4 Theater  
11:00 - 11:45 AM  
Moderator: Michael Donnino, Boston, MA

11:00  Delayed Recognition of Cardiac Arrest in Emergency Medical Dispatch - Best Source of Key Information for System Improvement?  
Camilla Hardeland, Univ of Oslo, 0318 Oslo, Norway  
Theresa M Olasveengen, Oslo Univ Hosp, 0424 Oslo, Norway

11:10  How Much Exposure to Resuscitation Do Emergency Medical Service Personnel Get?  
Kylie Dyson, Monash Univ, Melbourne, Australia  
Finn Judith, Curtin Univ, Bentley, Australia

11:15  Comparative Effectiveness of Stacked versus Single Shock Therapy for In-Hospital Cardiac Arrest: Insights from the Get With the Guidelines-Resuscitation Registry  
Steven M Bradley, VA Eastern Colorado Health Care System and Univ of Colorado Sch of Med, Denver, CO  
P Michael Ho, VA Eastern Colorado Health Care System and Univ of Colorado Sch of Med, Denver, CO

11:20  Effect of Gender on Hospital Discharge Survival After an Out-of-hospital Cardiac Arrest - a Systematic Review and Meta-analysis  
Wulfran Bougoun, Cochin Hosp, Paris, France  
Xavier Jouven, Pompidou Hosp, Paris, France

11:25  Hemodynamic Variables and Vasopressor Support After Out-of-hospital Cardiac Arrest: Associations With 1-year Neurologic Outcome  
Johanna Launikkala, Helsinky Univ Hosp, Helsinki, Finland  
Finnresusci Investigators

11:30  Disparities in Care After Establishment of DNR in Female Survivors of Cardiac Arrest  
Sarah M Perman, Univ of Colorado Sch of Med, Aurora, CO

11:35  Sports-Related Sudden Cardiac Arrest: Comparison of Survival Outcomes in Europe versus the United States  
Elis Marijon, European Georges Pompidou Hosp, Paris, France  
Sumeet S Chugh, Cedars-Sinai Medical Ctr, Los Angeles, CA

11:40  Optimal Targeted Temperature in Comatose Survivors After Cardiac Arrest Treated With Extracorporeal Cardiopulmonary Resuscitation  
Eisuke Kagawa, Hiroshima City Asa Hosp, Hiroshima, Japan  
Yasuki Kihara, Hiroshima Univ Graduate Sch of Biomedical and Health Sciences, Hiroshima, Japan

11:00  Novel Risk Factors for CAD I  
South Hall A2 - Core 2 Theater  
11:00 - 11:50 AM  
Moderator: Paul M Ridker, Boston, MA

11:00  The Changing Epidemiology of Myocardial Infarction in the Population, 1995-2012  
Yariv Gerber, Mayo Clinic, Rochester, MN  
Veronique L Roger, Mayo Clinic, Rochester, MN

11:05  Predictors of Bleeding Complications in Patients Undergoing Percutaneous Coronary Intervention in an Australian Cohort  
Matthew Worthley, The Univ of Adelaide, The Royal Adelaide Hosp, Adelaide, Australia  
John Beltrame, The Univ of Adelaide, The Queen Elizabeth Hosp, Adelaide, Australia

11:10  The Difference in Risk of Future Cardiovascular Events for Patients Presenting With Acute Coronary Syndrome Diminishes After 6 Months Compared to Non-Acute Coronary Syndrome Patients: The Intermountain Heart Collaborative Study  
Tami L Bair, Intermountain Medical Ctr, Murray, UT  
Joseph B Muhlestein, Intermountain Medical Ctr, Univ of Utah, Murray, UT

11:15  Impact of Coronary Plaque Morphology Assessed by Optical Coherence Tomography on Periprocedural Cardiac Troponin Elevation in Patients With Non-ST Segment Elevation Acute Coronary Syndrome  
Tetsumin Lee, Tsuchiura Kyodo General Hosp, Tsuchiura-shi, Japan  
Tsunekazu Kakuta, Tsuchiura Kyodo General Hosp, Tsuchiura-shi, Japan
11:20 Preoperative Angiographically-Determined Coronary Artery Disease Provides Independent and Complementary Prediction for Atherothrombotic Events After Lung Transplantation
Kongkiat Chaikriangkrai, Houston Methodist Hosp, Houston, TX
Soma Jyothula, Houston Methodist Hosp, Houston, TX

11:25 A Family History of Premature Coronary Artery Disease is Associated With Location and Severity of Angiographically Defined Coronary Artery Stenosis
Muhammad Hammadah, Cleveland Clinic, Cleveland, OH
Arshed A Quyyumi, Emory Univ, atlanta, GA

11:30 The Prevalence of Atherosclerotic Disease in Those With Connective Tissue Disease as a Function of Age, Race, and Traditional Risk Factors
Francis J Alenghat, Univ of Chicago, Chicago, IL

11:35 High-sensitivity Cardiac Troponin T Level in the Emergency Department and Long-term Mortality in Patients With and Without Myocardial Infarction
Nadia Bandstein, Karolinska Univ Hosp, Huddinge, Sweden
Martin Holzmann, Karolinska Univ Hosp, Huddinge, Sweden

11:40 Infiltration and Polarisation of Macrophages in Human Adipose Tissue Control Local Adiponectin Biosynthesis in Patients With Ischaemic Heart disease
Marios Margaritis, Univ of Oxford, Oxford, United Kingdom
Charalambos Antoniades, Univ of Oxford, Oxford, United Kingdom

11:45 The Prevalence and Prediction of Significant Coronary Artery Disease in Patients Referred for Valvular Heart Surgery
Jason M Lappe, Cleveland Clinic, Cleveland, OH
Leslie Cho, Cleveland Clinic, Cleveland, OH

10:55 Q&A Discussion

11:00 Inhaled Nitric Oxide During Cardiopulmonary Resuscitation Improves Functional Outcome and Increases 7-Day-Survival After Prolonged Cardiac Arrest in Rats
Anne Brücken, Univ Hosp RWTH Aachen, Aachen, Germany
Michael Fries, Univ Hosp RWTH Aachen, Aachen, Germany

11:10 Q&A Discussion

11:15 Cardiac Injury and Stunning after Ischemia is Related to Loss of PBEF/Nampt Function and is Rescued by PTEN Inhibition
Jing Li, Univ of Illinois at Chicago, Chicago, IL
Terry L Yanden Hoek, Univ of Illinois at Chicago, Chicago, IL

11:25 Q&A Discussion

11:30 Early Regional Neuroinflammatory Profile After Asphyxial Cardiac Arrest Vs. Ventricular Fibrillation Cardiac Arrest Model in Rats
Thomas Uray, Univ of Pittsburgh, Pittsburgh, PA
Tomas Drabek, Univ of Pittsburgh, Pittsburgh, PA

11:40 Q&A Discussion

11:45 Heart Rate Variability After Cardiac Arrest is Preserved by Whole Body Periodic Acceleration (pGz)
Jose A Adams, Mt Sinai Medical Ctr, Miami Beach, FL
Paul Kurlansky, Columbia Univ, New York, NY

11:55 Q&A Discussion

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Abstract Oral Session

AOS.213.01 Chest Pain and Acute Coronary Syndromes: Presentation and Representation

S503 10:45 AM - 12:00 NOON

Moderators:
William Jones, Durham, NC
Steven M Bradley, Denver, CO

10:45 The HEART Pathway Randomized Trial: Identifying Emergency Department Patients with Acute Chest Pain for Early Discharge
Simon A Mahler, Wake Forest Sch of Med, Winston Salem, NC
Chadwick D Miller, Wake Forest Sch of Med, Winston Salem, NC

10:55 Q&A Discussion

11:00 The Incidence of Emergency Department Visits for ST-Elevation Myocardial Infarction is Decreasing in the U.S
Michael J Ward, Vanderbilt Univ Sch of Med, Nashville, TN
Wesley H Self, Vanderbilt Univ Sch of Med, Nashville, TN

11:10 Q&A Discussion
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<tr>
<th>Time</th>
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| 11:15 | International Variation in 30-day Unscheduled Cardiovascular Rehospitalization Rates Following Acute Myocardial Infarction in the Global Registry of Acute Coronary Events (GRACE)  
Prashant Vaishnava, The Univ of Michigan, Ann Arbor, MI  
Kim Eagle, The Univ of Michigan, Ann Arbor, MI |
| 11:25 | Q&A Discussion                                                                                                                                                                                      |
| 11:30 | Sex Differences in Characteristics, Treatments, and Outcomes Among Patients With ST-Segment Elevation Myocardial Infarction from 2001 to 2011: Insights From the China PEACE-Retrospective Study  
Xue Du, Natl Clinical Res Ctr of Cardiovascular Diseases, Fuwai Hosp, Beijing, China  
Lixin Jiang, Natl Clinical Res Ctr of Cardiovascular Diseases, Fuwai Hosp, Beijing, China |
| 11:40 | Q&A Discussion                                                                                                                                                                                      |
Dhruv S Kazi, San Francisco General Hosp, San Francisco, CA  
Mark A Hlatky, Stanford Univ Sch of Med, Stanford, CA |
| 11:55 | Q&A Discussion                                                                                                                                                                                      |
| 11:50 | Abstract Oral Session                                                                                                                                                                               |
| 12:00 | Clinical Applications of 3D Echocardiography                                                                                                                                                         |
| 10:45 | George E Brown Memorial Lecture                                                                                                                                                                     |
| 11:15 | Deficiency of Microrna-378 Contributes to the Development of Cardiac Fibrosis Involving a Tgfβ1-dependent Paracrine Mechanism  
Madhu Gupta, Univ of Illinois, Chicago, IL |
| 11:25 | Q&A Discussion                                                                                                                                                                                      |
| 11:30 | Microrna Signatures in the Transition From Left Ventricular Hypertrophy to Cardiac Dysfunction  
Peter Pokreisz, KU Leuven, Leuven, Belgium  
Stefan Janssens, KU Leuven, Leuven, Belgium |
| 11:40 | Q&A Discussion                                                                                                                                                                                      |
| 10:45 | George L. Duff Memorial Lecture: Lipids, Lipid Mediators and Lipoprotein Metabolism                                                                                                                  |
| 11:00 | George L. Duff Memorial Lecture: Simple Genetics for a Complex Trait: Getting to the Heart of the Matter  
Helen H Hobbs, Dallas, TX |
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<tr>
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<th>Authors</th>
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<tr>
<td>11:15</td>
<td>Silencing of Angiopoietin-like Protein 3 (ANGPTL3) in IHH- Hepatocytes Results in Increased Insulin Sensitivity and Reduced Triglyceride-rich VLDL Secretion</td>
<td>Anna Maria Tikka, Natl Inst for Health and Welfare, Helsinki, Finland Matti Jauhiainen, Natl Inst for Health and Welfare, Helsinki, Finland</td>
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<td>11:25</td>
<td>Q&amp;A Discussion</td>
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<td>11:30</td>
<td>Microrna-33, Located Within Srebf2 Intron, Regulate Fatty Acid Synthesis via Targeting SREBP-1 in vivo</td>
<td>Tomohiro Nishino, Kyoto Univ, Kyoto, Japan Koh Ono, Kyoto Univ, Kyoto, Japan</td>
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<td>11:40</td>
<td>Q&amp;A Discussion</td>
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<td>11:45</td>
<td>Mice Lacking Cyp8b1 Have Dramatically Improved Cardio-Metabolic Profile Due to Alterations in Bile Acid Profile</td>
<td>Saj Parathath, Merck &amp; Co., Kenilworth, NJ Kenny K Wong, Merck &amp; Co., Kenilworth, NJ</td>
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<td>11:55</td>
<td>Q&amp;A Discussion</td>
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**Abstract Oral Session**

**AOS.505.01**

**Heart Failure: ICDs, CRT and More**

S405  
10:45 AM - 12:00 NOON

**Moderators:**  
Kevin Thomas, Durham, NC  
Patricia Chang, Chapel Hill, NC

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<th>Time</th>
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<tr>
<td>10:45</td>
<td>Cost-Effectiveness of Bi-Ventricular Pacemakers vs. RV Pacemakers and Bi-Ventricular Defibrillators vs. Dual Chamber Defibrillators in Patients With Atroventricular Block and Systolic Dysfunction: All-Patient and Subgroup Analyses From the BLOCK-HF Clinical Trial</td>
<td>Philip B Adamson, Univ of Oklahoma Health Sciences Ctr, Oklahoma City, OK Anne B Curtis, Univ at Buffalo, Buffalo, NY</td>
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<td>10:55</td>
<td>Q&amp;A Discussion</td>
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<td>11:00</td>
<td>Patients with Renal Impairment Derive Long-Term Benefit from Cardiac Resynchronization Therapy: Results from the MADIT-CRT Long-Term Follow-Up</td>
<td>Usama Daimee, Univ of Rochester Medical Ctr, Rochester, NY Valentina Kutyifa, Univ of Rochester Medical Ctr, Rochester, NY</td>
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<td>11:10</td>
<td>Q&amp;A Discussion</td>
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Abstract Oral Session

**AOS.601.01**

**New Insights into Antithrombotic and Antiplatelet Therapy for PCI and ACS**

**N227a**

10:45 AM - 12:00 NOON

**Moderator:**
Bina Ahmed, Albuquerque, NM

10:45

**Bayesian Hierarchical Meta-Analysis Clarifies the Trade-Off Between Bleeding and Stent Thrombosis in Trials Comparing Bivalirudin with Heparin During Percutaneous Coronary Intervention**

**John A Bittl**, Munroe Regional Medical Ctr, Ocala, FL
Christopher D Lang, Brown Univ Alpert Sch of Med, Providence, RI

10:55 **Q&A Discussion**

11:00

**The Impact of Prolonged Clopidogrel Beyond 12 Months After Coronary Stenting in Patients with Acute Coronary Syndromes**

**Neil J Winner**, VA Boston Healthcare System and Brigham and Women's Hosp, Boston, MA
Scott Kinlay, VA Boston Healthcare System and Brigham and Women's Hosp, West Roxbury, MA

11:10 **Q&A Discussion**

11:15

**Efficacy and Safety of Vorapaxar in Non-ST-Segment Elevation Acute Coronary Syndrome Patients Undergoing Non-Cardiac Surgery**

**Sean van Diepen**, Univ of Alberta; Canadian Vigour Ctr, Edmonton, AB, Canada
Paul Armstrong, Univ of Alberta, Edmonton, AB, Canada

11:25 **Q&A Discussion**

**AOS.716.01**

**Novel Therapies and Treatment Strategies for Patients with Acute Coronary Syndromes**

**S105abc**

10:45 AM - 12:00 NOON

**Moderators:**
Derek P Chew, Adelaide, Australia
Robbert De Winter, Amsterdam, Netherlands

10:45

**EPICOR: An International Study of the Duration of Dual Antiplatelet Therapy in Survivors of Acute Coronary Syndromes**

**Héctor Bueno**, Hosp General Univirio Gregorio Marañón, Madrid, Spain
Frans Van de Werf, Univ Hosp Leuven, Leuven, Belgium

10:55 **Q&A Discussion**

11:00

**Apixaban Plus Mono versus Dual Antiplatelet Therapy After Acute Coronary Syndromes: Insights from the APPRAISE-2 Trial**

**Connie N Hess**, Duke Clinical Res Inst, Durham, NC
John H Alexander, Duke Clinical Res Inst, Durham, NC

11:10 **Q&A Discussion**

11:15

**A New, Comprehensive, Hospital-Level Time-to-Treatment Metric for Primary Percutaneous Coronary Intervention: A Report From the AHA Mission: Lifeline Program**


11:25 **Q&A Discussion**

11:30

**Randomized, Double-Blind, Placebo-Controlled Clinical Trial to Evaluate the Efficacy of B-Type Natriuretic Peptide for the Preservation of Left Ventricular Function Post Anterior Myocardial Infarction**

**Hong H Chen**, MAYO CLINIC, Rochester, MN
John C Burnett, MAYO CLINIC, Rochester, MN

11:40 **Q&A Discussion**
Monday, November 17  •  Chicago, Illinois

11:45  **PreSERVE-AMI: a Randomized, Double-Blind, Placebo-Controlled Clinical Trial of Intracoronary Administration of Autologous CD34+ Cells in Patients with Left Ventricular Dysfunction Post STEMI**
Arshed Quyyumi, Emory Univ Sch of Med, Atlanta, GA
Andrew Pecora, NeoStem, Inc., New York, NY

11:55  **Q&A Discussion**

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**Abstract Oral Session**

**AOS.311.02**

**Pediatric Epidemiology, Screening and Prevention**

**S102d**
10:45 AM - 12:00 NOON

**Moderators:**
Sara Pasquali, Ann Arbor, MI
Brian McCrindle, Toronto, ON, Canada

10:45  **Correlates of Successfully Achieving Statin Therapy Targets in Pediatric Patients**
Michael Mendelson, Boston Children’s Hosp, Boston, MA
Sarah D de Ferranti, Boston Children’s Hosp, Boston, MA

10:55  **Q&A Discussion**

11:00  **Gender Matters in the Risk for Sudden Death in Young Competitive Athletes**
Aneesha Ahluwalia, Minneapolis Heart Inst Fdn, Minneapolis, MN
Barry J Maron, Minneapolis Heart Inst Fdn, Minneapolis, MN

11:10  **Q&A Discussion**

11:15  **Energy Drink Exposures in the National Poison Data System: Epidemiology and Clinical Effects**
Steven E Lipshultz, Wayne State Univ Sch of Med, Detroit, MI

11:25  **Q&A Discussion**

11:30  **Factors Associated With Delayed Diagnosis of Critical Congenital Heart Defects in Texas**
Unnati Doshi, Univ of Texas - Houston Medical Sch, Houston, TX
Mousumi Moulik, Univ of Texas - Houston Medical Sch, Houston, TX

11:40  **Q&A Discussion**

11:45  **Statewide Newborn Screening for Critical Congenital Heart Defects in New Jersey**
Kim Van Naarden Braun, Ctrs for Disease Control and Prevention, Atlanta, GA
Lorraine F Garg, New Jersey Dept of Health, Trenton, NJ

11:55  **Q&A Discussion**

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**Abstract Oral Session**

**AOS.211.01**

**Subclinical Disease: Looking Deeper, Looking Ahead**

**S505**
10:45 AM - 12:00 NOON

**Moderators:**
Amit Khera, Dallas, TX
Nathan D Wong, Irvine, CA

10:45  **Ankle-Brachial Index and Physical Function in Community-Based Older Adults: The Atherosclerosis Risk in Communities (ARIC) Study**
Kunihiro Matsushita, Johns Hopkins Bloomberg Sch of Public Health, Baltimore, MD
Josef Coresh, Johns Hopkins Bloomberg Sch of Public Health, Baltimore, MD

10:55  **Q&A Discussion**

11:00  **Statin Use is Associated with Change in Coronary Artery Calcium Density: The Dallas Heart Study**
Birju S Patel, UT Southwestern, Dallas, TX
Amit Khera, UT Southwestern, Dallas, TX

11:10  **Q&A Discussion**

11:15  **Coronary Calcium Score and Subclinical Heart Damage: the Multi-Ethnic Study of Atherosclerosis (MESA)**
David Bluemke, Natl Insts of Health, Bethesda, MD

11:25  **Q&A Discussion**

11:30  **Prevalence and Burden of Abdominal Aortic Plaque Are Inversely Associated With Kidney Function: the Framingham Heart Study**
Michael L Chuang, The NHLBI’s Framingham Heart Study, Framingham, MA
Warren J Manning, Beth Israel Deaconess Medical Ctr, Boston, MA

11:40  **Q&A Discussion**

11:45  **Favorable Cardiovascular Risk Profile at Young/Middle Ages and 39-Year Progression of Major and Minor Electrocardiographic (ECG) Abnormalities - The Chicago Healthy Aging Study (CHAS)**
Thanh-Huyen T Vu, Northwestern Univ, Chicago, IL
Donald M Lloyd-Jones, Northwestern Univ, Chicago, IL

11:55  **Q&A Discussion**
Monday, November 17 • Chicago, Illinois

**Abstract Oral Session**

**AOS.610.01**  
**Surgical Therapy for Valvular Heart Disease**  
N226  
10:45 AM - 12:00 NOON

**Moderators:**  
Ani Anyanwu, New York, NY  
S Christopher Malaisrie, Chicago, IL

*10:45*  
**Transapical Off-Pump Implantation of Artificial Chordae as First Choice Option to Treat Degenerative Mitral Valve Regurgitation**  
Andrea Colli, Univ of Padua, Padua, Italy  
Gino Gerosa, Univ of Padua, Padua, Italy

*10:55*  
**Q&A Discussion**

*11:00*  
**Early Structural Valve Deterioration of Mitroflow Aortic Bioprosthesis: Mode, Incidence and Impact on Outcome in a Large Cohort of Patients**  
Thomas Sénage, Inst du Thorax - CTCV, Nantes Cedex 1, France  
Thierry Le Tourneau, Inst du Thorax - CTCV, Nantes Cedex 1, France

*11:10*  
**Q&A Discussion**

*11:15*  
**Intra-ventricular Papillary Muscle Banding vs. Undersized Mitral Annuloplasty to Treat Ischemic Mitral Regurgitation in a Chronic Swine Model**  
Muralidhar Padala, Emory Univ, Atlanta, GA  
Eric L Sarin, Emory Univ, Atlanta, GA

*11:25*  
**Q&A Discussion**

*11:30*  
**The Transcatheter Aortic Valve Replacement Experience in Medicare Patients at Trial and Non-Trial Hospitals**  
Fenton McCarthy, Univ of Pennsylvania, Philadelphia, PA  
Nimesh D Desai, Univ of Pennsylvania, Philadelphia, PA

*11:40*  
**Q&A Discussion**

*11:45*  
**Aortic Valve Replacement with Decellularized Aortic Allografts: First Clinical Results**  
Igor Tudorache, Hannover Medical Sch, Hannover, Germany  
Axel Haverich, Hannover Medical Sch, Hannover, Germany

*11:55*  
**Q&A Discussion**

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**Ask the Experts**

**ATE.201**  
**Care Management in Older Adults with CVD**  
S502  
10:45 AM - 12:00 NOON

**Moderator:**  
Shirley M Moore, Cleveland, OH

*10:45*  
**Cardiovascular Management in Long-Term Care Residents**  
Mary Dolansky, Cleveland, OH

*11:00*  
**Adapted Medication Management Approaches for Elders**  
Todd Ruppar, Columbia, MO

*11:15*  
**Managing Cardiovascular Symptoms in the Cognitively Impaired**  
Christopher S Lee, Portland, OR

*11:30*  
**Cardiovascular Risk Reduction in the Older Adult**  
Kathy A Berra, Palo Alto, CA

*11:45*  
**Q&A Discussion**

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**Cardiovascular Seminar**

**CVS.236.gc**  
**Ethics and Governance of Big Data Collections for Research and Clinical Care**  
S100c  
10:45 AM - 12:00 NOON

**Moderators:**  
TBD

*10:45*  
**Private Sector Perspective**  
Anne Wojcicki, Mountain View, CA

*11:20*  
**Academic Clinical Science Perspective**  
TBD

*11:35*  
**Patient Perspective on Patient Confidentiality and Data Sharing**  
Angela Radcliffe, Tarrytown, NY

*11:45*  
**Panel Discussion**
Cardiovascular Seminar

CVS.607

PCi and TAVR at the Extreme: Frailty, Extreme Age, Cardiac Arrest and Coma

N227b
10:45 AM - 12:00 NOON

Moderators:
Raj Makkar, Los Angeles, CA
Harold Dauerman, Burlington, VT

10:45
Cardiac Catheterization After Cardiac Arrest: Wait Till They Wake Up or Take Them Routinely
Demetris Yannopoulos, Minneapolis, MN

11:00
Cardiogenic Shock in the 85-Year-Old with STEMI: Does PCI Help?
Vladimir Dzavik, Toronto, ON, Canada

11:15
Severe AS and Ejection Fraction 25%: TAVR Is High Risk but Not Futile
Aravinda Nanjundappa, Charleston, WV

11:30
Are Some Patients Too Old for TAVR? Challenges in Measuring Frailty
Josep Rodes-Cabau, Quebec, QC, Canada

11:45
Transitions and Challenges in the Postprocedure Care of the Extremely Frail TAVR Patient
Jonathan Afflalo, Montreal, QC, Canada

Late-Breaking Clinical Trials

LBCT.02

Anti-Lipid Therapy and Prevention of CAD

North Hall B
10:45 AM - 12:13 PM

Moderators:
Sidney C Smith, Chapel Hill, NC
Philip Aylward, Adelaide, Australia

10:45
Low-Dose Aspirin for Primary Prevention of Cardiovascular Events in Elderly Patients With Multiple Atherosclerotic Risk Factors: A Randomized Controlled Trial
Yasu Ikeda, Tokyo, Japan

10:55
Discussant of Low-Dose Aspirin for Primary Prevention of Cardiovascular Events in Elderly Patients With Multiple Atherosclerotic Risk Factors: A Randomized Controlled Trial
Dorairaj Prabhakaran, New Delhi, India

10:58
Screening For Asymptomatic Obstructive Coronary Artery Disease Among High-Risk Diabetic Patients Using Coronary CT Angiography: Primary Results of FACTOR-64, a Randomized Controlled Trial
Joseph B Muhlestein, Murray, UT

11:07
Discussant of Screening For Asymptomatic Obstructive Coronary Artery Disease Among High-Risk Diabetic Patients Using Coronary CT Angiography: Primary Results of FACTOR-64, a Randomized Controlled Trial
Pamela S Douglas, Durham, NC

11:20
ODYSSEY ALTERNATIVE: Efficacy And Safety of the Proprotein Convertase Subtilisin/kexin Type 9 Monoclonal Antibody, Alirocumab, versus Ezetimibe, in Patients With Statin Intolerance as Defined by a Placebo Run-in and Statin Rechallenge Arm
Patrick M Moriarty, Kansas City, KS

11:29
Discussant of ODYSSEY ALTERNATIVE: Efficacy And Safety Of The Proprotein Convertase Subtilisin/kexin Type 9 Monoclonal Antibody, Alirocumab, Versus Ezetimibe, In Patients With Statin Intolerance As Defined By A Placebo Run-in And Statin Rechallenge Arm
Karol E Watson, Los Angeles, CA

11:39
IMPROVE-IT Trial: A Comparison of Ezetimibe/Simvastatin versus Simvastatin Monotherapy on Cardiovascular Outcomes After Acute Coronary Syndromes
Christopher P Cannon, Boston, MA

11:51
Discussant of IMPROVE-IT Trial: A Comparison of Ezetimibe/Simvastatin versus Simvastatin Monotherapy on Cardiovascular Outcomes after Acute Coronary Syndromes
Neil J Stone, Chicago, IL

12:01
Panel Discussion

11:42
Panel Discussion

12:04
Panel Discussion
**Special**

**SS.03**

**Nobel Laureate Lecture**

S100ab  
12:30 - 1:30 PM  
**Moderator:** Gerald W Dorn, St Louis, MO

12:30  
**Seven Transmembrane Receptors**  
Robert J Lefkowitz, Durham, NC

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**Meet the Trialists**

**MT.01**

Science & Technology Hall  
1:00 - 1:45 PM  
*This session is not accredited.*

1:00  
**Risk and Benefit of Prolonged Dual Antiplatelet Therapy After Drug-eluting Coronary Stents: Primary Endpoint Results from the Dual Antiplatelet Therapy Study**  
Laura Mauri, Boston, MA

1:00  
**ODYSSEY ALTERNATIVE: Efficacy And Safety of the Proprotein Convertase Subtilisin/kexin Type 9 Monoclonal Antibody, Alirocumab, versus Ezetimibe, in Patients With Statin Intolerance as Defined by a Placebo Run-in and Statin Rechallenge Arm**  
Patrick Moriarty, Kansas City, KS

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**Case Theater**

**CT.03**

**PAD/Vascular Surgery—Retrograde Pedal Access Case**  
South Hall A1 - Booth 1676  
2:00 - 2:45 PM  
**Case Presentation:** J Dawn Abbott, Providence, RI

**Panelists:**  
Herbert Aronow, Ypsilanti, MI  
Sahil Parikh, Cleveland, OH  
Giancarlo Biamino, Leipzig, Germany

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**e-Abstract Session**

**EAS.106.01**

**Computed Tomography: Coronary Artery Clinical Trials**

South Hall A2 - Core 1 Theater  
2:00 - 2:45 PM  
**Moderator:** Arthur Stillman, Atlanta, GA

2:00  
**Association of Cardiovascular Risk Factors and Myocardial Fibrosis with Early Cardiac Dysfunction in Type 1 Diabetes Mellitus: The Diabetes Control and Complications Trial (DCCT) and the Epidemiology of Diabetes Interventions and Complications (EDIC) Study**  
Anderson C Armstrong, Johns Hopkins Univ, Baltimore, MD  
João A Lima, Johns Hopkins Univ, Baltimore, MD

2:05  
**Left Atrial Structure and Function and Cardiovascular Events in Patients With Diabetes Mellitus: Results From Multi-Ethnic Study of Atherosclerosis (MESA)**  
Timothy M Markman, Johns Hopkins Hosp, Baltimore, MD  
João A Lima, Johns Hopkins Hosp, Baltimore, MD

2:10  
**Quantitative Coronary Plaque Analysis on Coronary Computed Tomography Can Detect High-Risk Plaque Characteristics Associated with Acute Coronary Syndrome - Results from the ROMICAT II Trial**  
Maros Ferencik, Oregon Health and Science Univ, Portland, OR  
Udo Hoffmann, Massachusetts General Hosp and Harvard Medical Sch, Boston, MA

2:15  
**Distribution and Burden of New Onset Coronary Artery Calcium (CAC): An Age, Gender, and Race/Ethnicity-Based Analysis From the Multi-Ethnic Study of Atherosclerosis (MESA)**  
Krishna Alluri, Johns Hopkins Medical Insts, Baltimore, MD  
Michael J Blaha, Johns Hopkins Medical Insts, Baltimore, MD

2:20  
**Coronary Artery Calcium and Risk of Atrial Fibrillation in the Multi-Ethnic Study of Atherosclerosis**  
Wesley T O’Neal, Wake Forest Sch of Med, Winston Salem, NC  
Elsayed Z Soliman, Wake Forest Sch of Med, Winston Salem, NC

2:25  
**Lipoprotein Sub-fractions by Ion Mobility Analysis Association with Burden of Subclinical Coronary Atherosclerosis in a High Risk Population: the Baptist Employee Healthy Heart Study (BEHHS)**  
Ehimen Aneni, Baptist Health South Florida, Miami, FL  
Khurram Nasir, Baptist Health South Florida, Miami, FL
Cost-effectiveness of Different Strategies for the Diagnosis of Stable Coronary Artery Disease: Results from the Evinci Study
Danilo Neglia, CNR, Inst of Clinical Physiology & Fondazione Toscana G Monasterio, Pisa, Italy
The EVINCI Investigators

Diabetics With Acute Chest Pain Have Similar Length of ED Stay From Early CCTA Compared to Standard Evaluation but More Downstream Testing and Radiation Exposure: The ROMICAT II Trial
Quynh Truong, New York Presbyterian Hosp and Weill Cornell Medical Coll, New York, NY
Pamela K Woodward, Washington Univ Sch of Med, St Louis, MO

Clinical Prediction Risk Scores Systematically Underestimate the Presence and Extent of Subclinical Atherosclerosis in Brazilian Women: The Brazilian Study of Longitudinal Health (ELSA-Brasil)
Marcio S Bittencourt, Univ Hosp - Univ of São Paulo, São Paulo, Brazil
Paulo A Lotufo, Univ Hosp - Univ of São Paulo, São Paulo, Brazil

Increased Expression and Serum Levels of Lectin-Like Oxidized Low-Density Lipoprotein Receptor-1 in Patients With Aortic Valve Stenosis
Tomotaka Yoshiyama, Osaka City General Hosp, Osaka, Japan
Makiko Ueda, Osaka City Univ Graduate Sch of Med, Osaka, Japan

Tictricuspid Regurgitation is Independently Associated With Increased Risk of Mortality in Patients With Low-Flow Low-Gradient Aortic Stenosis and Reduced Ejection Fraction-Results From the TOPAS Study
Abdellaziz Dahou, QHLI, Quebec, QC, Canada
Philippe Pibarot, QHLI, Quebec, QC, Canada

Role of Frailty Measures to Determine the Prognosis of Elderly Patients with Severe Aortic Stenosis
Carlos Rodriguez-Pascual, Hosp Meixoeiro, Vigo, Spain
Emilio Paredes, Hosp Meixoeiro, Vigo, Spain

Is Ejection Fraction <50% the Optimal Threshold for Referral for Valve Replacement in Patients With Severe Aortic Stenosis? Impact of Ejection Fraction on Post-Operative Outcome
Jordi S Dahli, Mayo Clinic, Rochester, MN
Patricia A Pelikka, Mayo Clinic, Rochester, MN

Abstract Oral Session
Atrial Fibrillation: Determinants, Treatments and Outcomes

S504
2:00 - 3:15 PM
Moderator: John Wilkins, Chicago, IL

Association of Inflammation and Hemostasis Biomarkers with Atrial Fibrillation and Coronary Heart Disease: the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study
Wesley T O’Neal, Wake Forest Sch of Med, Winston Salem, NC
Neil Zakai, Univ of Vermont, Colchester, VT

Differences in Predictive Ability of HAS-BLED and HEMORR2HAGES in Patients With Atrial Fibrillation According to Age
Laurent Fauchier, CHRU de Tours - Hop Trousseau, Chambry-les-Tours, France
François-Emery Cotté, Bristol-Myers Squibb, Rueil-Malmaison, France

Event Rate in Patients with Atrial Fibrillation who Discontinue Oral Anticoagulant Therapy Early: Results from the GARFIELD Registry
Shinya Goto, Tokai Univ, Kanagawa, Japan
for the GARFIELD Investigators

Higher Burden of Atrial Fibrillation is Independently Associated With Lower Cognitive Function: The Atherosclerosis Risk in Communities (ARIC) Study
Lin Y Chen, Univ of Minnesota, Minneapolis, MN
Alvaro Alonso, Univ of Minnesota, Minneapolis, MN

Peripheral Arterial Disease and Risk of Atrial Fibrillation and Stroke: The Multi-Ethnic Study of Atherosclerosis
Wesley T O’Neal, Wake Forest Sch of Med, Winston Salem, NC
Elsayed Z Soliman, Wake Forest Sch of Med, Winston Salem, NC

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Abstract Oral Session

**Catheter Ablation of Ventricular Arrhythmias**

**Moderators:**
- David J Wilber, Maywood, IL
- Nitish Badhwar, San Francisco, CA

**2:00**
*Anatomic Isolation of Core Elements of Circuit Substrate with Ablation Eliminates Multiple Scar Based Ventricular Tachycardias*

_Wendy S Tzou, Univ of Colorado, Aurora, CO_  
_Francis E Marchlinski, Univ of Pennsylvania, Philadelphia, PA_

**2:10**  
**Q&A Discussion**

**2:15**
*Renal Sympathetic Denervation Modulates Ventricular Electrophysiology and Arrhythmogenesis*

_Bing Huang, Renmin Hosp of Wuhan Univ, Wuhan, China_  
_Hong Jiang, Renmin Hosp of Wuhan Univ, Wuhan, China_

**2:25**  
**Q&A Discussion**

**2:30**
*Percutaneous Epicardial Access for Mapping and Ablation is Feasible in Patients With Prior Cardiac Surgery, Including Coronary Bypass Surgery*

_Ammar M Killu, Mayo Clinic, Rochester, MN_  
_Siva K Mulpuru, Mayo Clinic, Rochester, MN_

**2:40**  
**Q&A Discussion**

**2:45**
*Successful Catheter Ablation of Ventricular Tachycardia is Associated With Reduction of Mortality in Patients With Ventricular Tachycardia and Nonischemic Dilated Cardiomyopathy*

_Borislav Dinov, Univ of Leipzig, Heart Ctr, Leipzig, Germany_  
_Gerhard Hindricks, Univ of Leipzig, Heart Ctr, Leipzig, Germany_

**2:55**  
**Q&A Discussion**

**3:00**
*Trends in the Utilization and Outcomes of Medicare Beneficiaries Undergoing Catheter Ablation for Ventricular Tachycardia*

_Omar Yousef, Johns Hopkins Hosp, Baltimore, MD_  
_David Strauss, US Food and Drug Admin, Silver Spring, MD_

**3:10**  
**Q&A Discussion**

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Abstract Oral Session

**Computed Tomography: Coronary Artery**

**Moderator:**  
_Jacobo Kirsch, Weston, FL_

**2:00**
*HDL Cholesterol, Leptin and Interleukin-6 Are Independent Predictors of Coronary Atherosclerotic Burden and Plaque Composition Assessed by Coronary Ct Angiography in Patient With Stable Angina*

_Chiara Caselli, Italian Res Natl Council, CNR, Pisa, Italy_  
_Arthur Scholte, Leiden Univ Medical Ctr, Leiden, Netherlands_

**2:15**  
**Q&A Discussion**

**2:25**
*Diagnostic Value of a Novel Coronary Computed Tomography Angiography-based Approach for Assessing Fractional Flow Reserve: Comparison with Invasive Measurement*

_Stefan Baumann, Medical Univ of South Carolina, Charleston, SC_  
_U Joseph Schoepf, Medical Univ of South Carolina, Charleston, SC_

**2:40**  
**Q&A Discussion**

**2:45**
*Absence of Coronary Artery Disease by Coronary Computed Tomographic Angiography and the Warranty Period Associated With All-Cause Mortality: Findings From the CONFIRM Long-Term Follow-Up Registry*

_Iksung Cho, NewYork-Presbyterian Hosp and the Weill Cornell Medical Coll, New York, NY_  
_James K Min, NewYork-Presbyterian Hosp and the Weill Cornell Medical Coll, New York, NY_

**2:55**  
**Q&A Discussion**

**3:00**
*Posttraumatic Stress Disorder is Associated With Impaired Coronary Distensibility and Predicts Major Adverse Cardiovascular Events*

_Naser Ahmadi, UCLA - GLAVA - Rosalind Franklin Univ, Culver City, CA_  
_Matthew Budoff, LABioMED at Harbor UCLA, Torrance, CA_

**3:10**  
**Q&A Discussion**

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**Abstract Oral Session**

**AOS.305.02**

**Imaging and Exercise Performance in the Congenital Heart Disease Population**

S102bc
2:00 - 3:15 PM

**Moderators:**
Jami C Levine, Boston, MA
John Kovalchin, Columbus, OH

2:00
**Serum vs. Imaging Biomarkers of Myocardial Injury in Duchenne Muscular Dystrophy: Findings from the E-SCAR DMD Trial**
*Subha V Raman*, Ohio State Univ, Columbus, OH
*Linda H Cripe*, Nationwide Children’s Hosp, Columbus, OH

2:10
**Q&A Discussion**

2:15
**Abnormal Dynamic Myocardial Response to Exercise Despite Normal Resting Ejection Fraction in Childhood Cancer Survivors Treated With Anthracyclines**
*Ching Kit - Chen*, The Hosp for Sick Children, Toronto, ON, Canada
*Luc Mertens*, The Hosp for Sick Children, Toronto, ON, Canada

2:25
**Q&A Discussion**

2:30
**Magnetic Resonance Imaging Reveals Decreased Oxygen Delivery and Consumption in Human Fetuses with Congenital Heart Disease**
*Prashob Porayette*, The Hosp for Sick Children, Toronto, ON, Canada
*Mike Seed*, The Hosp for Sick Children, Toronto, ON, Canada

2:40
**Q&A Discussion**

2:45
**Exercise Oscillatory Ventilation in Patients with Fontan Physiology**
*Ashwin Nathan*, Brigham and Women’s Hosp, Boston, MA
*Alexander Opotowsky*, Boston Children’s Hosp, Boston, MA

2:55
**Q&A Discussion**

3:00
**Decreased Respiratory Variation of Hepatic Vein Doppler Predicts Major Clinical Outcomes in Fontan Patients**
*Makoto Mori*, Emory Univ Sch of Med, Atlanta, GA
*Wendy M Book*, Emory Univ Sch of Med, Atlanta, GA

3:10
**Q&A Discussion**

**Abstract Oral Session**

**LBS.01**

**Late-Breaking Basic Science I**

S406a
2:00 - 3:15 PM

**Moderators:**
Kerry-Anne Rye, New South Wales, Australia
Karlheinz Peter, Melbourne, Australia

2:00
**MAVS Mediates Protection against Myocardial Ischemic Injury with Hydrogen Sulfide**
*David Durrant*, Virginia Commonwealth Univ, Richmond, VA
*Fadi N Salloum*, Virginia Commonwealth Univ, Richmond, VA

2:10
**Q&A Discussion**

2:15
**Thioredoxin-2 Inhibits Mitochondrial Ros Generation and Ask1 Activity to Maintain Cardiac Function**
*Wang Min*, Yale Univ, New Haven, CT
*Rong Tian*, Univ of Washington, Seattle, WA

2:30
**Defective Branched-chain Amino Acids Catabolism Impairs Glucose Metabolism and Exacerbates Cardiac Ischemia/reperfusion Injury**
*Tao Li*, Univ of Washington, Seattle, WA

2:45
**SCN8A Mutation From a Patient With Sudden Unexplained Death in Epilepsy Displays Alterations in Cardiac Excitability in a Mouse Model**
*Chad R Frasier*, Univ of Michigan, Ann Arbor, MI
*Lori L Isom*, Univ of Michigan, Ann Arbor, MI

3:00
**Session Q&A Discussion**

**Abstract Oral Session**

**AOS.518.01**

**Myocardial Stress: Physiological, Ischemic and Toxic**

S405
2:00 - 3:15 PM

**Moderators:**
Joel D Schilling, St. Louis, MO
Hani Sabbah, Detroit, MI

2:00
**CaMKII Links ER Stress Signaling in Pressure Overload-Induced Left Ventricular Hypertrophy and Failure**
*Guangming Cheng*, Univ of Kansas Medical Ctr, Kansas City, KS
*Buddha Deb Dawn*, Univ of Kansas Medical Ctr, Kansas City, KS

2:10
**Q&A Discussion**
2:15 A Mitochondrial-targeting Peptide (Bendavia) Regulates Glucose and Fatty Acid Oxidation Related Gene Expression and Prevents Myocardial Hypertrophy in the Noninfarcted Border Zone of Infarcted Hearts
Jianru Shi, Good Samaritan Hosp, Los Angeles, CA
Robert A Kloner, Good Samaritan Hosp, Los Angeles, CA

2:25 Q&A Discussion

2:30 Taxanes-Induced Cardiotoxicity in Patients With Breast Cancer: Diagnosis and Prediction. An Echo and Genetic Study
Dragos Vinereanu, Univ of Med and Pharmacy Carol Davila, Bucharest, Romania

2:40 Q&A Discussion

2:45 Cardioprotective Effects of Ecklonia Cava Polyphenol on Doxorubicin-induced Cardiomyopathy in Rats
Hyo-Suk Ahn, Uijeongbu St Mary’s Hosp, Uijeongbu, Republic of Korea
Ho-Joong Yoon, Seoul St Mary’s Hosp, Seoul, Republic of Korea

2:55 Q&A Discussion

3:00 Interleukin-18 in Radiation-induced Cardiomyopathy
Eleonora Mezzaroma, Virginia Commonwealth Univ, Richmond, VA
Antonio Abbate, Virginia Commonwealth Univ, Richmond, VA

3:10 Q&A Discussion

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Abstract Oral Session

AOS.603.01

New Technology in Coronary Interventions: Drug-Eluting Balloons and Bioresorbable Scaffolds

N227a
2:00 - 3:15 PM

Moderator: Alok Finn, Atlanta, GA

2:00 Feasibility and Angiographic Six-Month Follow-up of Fractional Flow Reserve - Guided Coronary Angioplasty Using Paclitaxel-Coated Balloons Without Stent Implantation (OCTOPUS II Study, NCT 02120859)
Tudor C Poerner, Univ Hosp of Jena, Jena, Germany
Hans R Figulla, Univ Hosp of Jena, Jena, Germany

2:10 A Novel Drug-Coated Scoring Balloon for the Treatment of Coronary In-Stent Restenosis: One Year Results of the PATENT-C First-in-Human Trial
Bruno Schellinger, Innere Med III, Homburg Saar, Germany
PATENT C Study Group

2:25 Q&A Discussion

2:30 Ultra-Early Endothelialization of Biolimus A9 With Bioresorbable Polymer Stent (Nobori®) in Porcine Coronary Model: Possible Mechanism for Low Frequency of In-stent Thrombosis and Restenosis
Masayuki Morii, Kanazawa Univ Graduate Sch of Med, Kanazawa, Japan
Masakazu Yamagishi, Kanazawa Univ Graduate Sch of Med, Kanazawa, Japan

2:40 Q&A Discussion

2:45 Stent Design Affects the Side Branch Orifice Area Following Coronary Bifurcation Stenting: Comparison Between Resolute Integrity versus Xience V Stent Using a Newly Developed OCT algorithm
Yoshiyasu Minami, Massachusetts General Hosp, Boston, MA
Ik-Kyung Jang, Massachusetts General Hosp, Boston, MA

2:55 Q&A Discussion

3:00 Six-Month Clinical and Imaging Outcomes of Bioresorbable Everolimus-Eluting Vascular Scaffold for the Treatment of Chronic Total Occlusions: CTO-ABSORB Pilot Study
Beatriz Vaquerizo, Hosp de la Santa Creu y Sant Pau, Barcelona, Spain
Antonio Serra, Hosp de la Santa Creu y Sant Pau, Barcelona, Spain

3:10 Q&A Discussion

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Abstract Oral Session

AOS.211.02

Prevention Over the Life Span: Diet, Blood Pressure and Exercise

S505
2:00 - 3:15 PM

Moderators:
David C Goff Jr., Aurora, CO
Elizabeth Barrett-Connor, La Jolla, CA

2:00 Modifiable Factors Affect the Trajectory of Blood Pressure from Childhood to Adulthood: Opportunities for Early Intervention
Rebecca Kelly, Menzies Res Inst Tasmania, Hobart, Australia
Costan Magnussen, Menzies Res Inst Tasmania, Hobart, Australia

2:10 Q&A Discussion
2:15  Blood Pressure and Excess Cardiovascular Events in Middle-aged Adults
Kunal N Karmali, Northwestern Univ, Chicago, IL
Donald M Lloyd-Jones, Northwestern Univ, Chicago, IL

2:25  Q&A Discussion

2:30  Forty-Year Change in Coronary Heart Disease Mortality Among Working Aged Men and Women in Eastern Finland: The Role of Primary Prevention and Risk Factor Reduction
Pekka Joussilahti, Natl Inst for Health and Welfare, Helsinki, Finland
Erkki Varttainen, Natl Inst for Health and Welfare, Helsinki, Finland

2:40  Q&A Discussion

2:45  The Association of Coronary Artery Calcium With Age-related Non-Cardiovascular Disease: The Importance of “Biologic Aging” From the Multi-Ethnic Study of Atherosclerosis (mesa)
Catherine E Handy, Johns Hopkins Hosp, Baltimore, MD
Michael J Blaha, Johns Hopkins Hosp, Baltimore, MD

2:55  Q&A Discussion

3:00  Cardiovascular Events in a Physical Activity Intervention as Compared to a Successful Aging Intervention: The LIFE Study Randomized Trial
Anne B Newman, Univ of Pittsburgh, Pittsburgh, PA
Mary M McDermott, Northwestern Univ, Chicago, IL

3:10  Q&A Discussion

Abstract Oral Session

Surgical Issues in VAD and Heart Failure Therapy

N226  2:00 - 3:15 PM

Moderators:
Vivek Rao, Toronto, ON, Canada
Nir Uriel, Chicago, IL

2:00  Preliminary Results From the C-Pulse OPTIONS HF European Multicenter Post-Market Study
Holger Hotz, CardioCentrum Berlin, Berlin, Germany
Thomas Krabatsch, Deutsches Herzcentrum Berlin, Berlin, Germany

2:10  Q&A Discussion

2:15  Outcomes following High Risk Surgery provided as an Alternative to Transplant in patients with End-stage Heart Disease
Hiroyuki Kawajiri, Toronto General Hosp, Univ Health Network, Univ of Toronto, Toronto, ON, Canada
Vivek Rao, Toronto General Hosp, Univ Health Network, Univ of Toronto, Toronto, ON, Canada

2:25  Q&A Discussion

2:30  A Quantitative Analysis of Pump Parameters in the HeartWare Left Ventricular Assist Device System for the Identification and Management of Pump Thrombus
Ulrich P Jorde, Columbia Univ Medical Ctr, New York, NY
Nir Uriel, The Univ of Chicago Med, Chicago, IL

2:40  Q&A Discussion

2:45  A Significant Decrease in Early Confirmed Left Ventricular Assist Device Pump Thrombosis: Recent Observations from a Large Multi-Institutional Experience
John M Stulak, Mayo Clinic Coll of Med, Rochester, MN
Simon Maltais, Vanderbilt Heart and Vascular Inst, Nashville, TN

2:55  Q&A Discussion

Abstract Oral Session

Sol Sherry Distinguished Lecture in Thrombosis: Recent Advances in Basic and Clinical Thrombosis

S103bc  2:00 - 3:15 PM

Moderators:
Giovanni Davi, Chieti, Italy
Steven R Lentz, Iowa City, IA

2:00  Sol Sherry Distinguished Lecture in Thrombosis: Thrombin Formation – A Paradigm for Zymogen Activation in Coagulation
Sriram Krishnaswamy, Philadelphia, PA

2:30  Molecular Imaging of Arterial and Deep Vein Thrombosis: Toward a Single-modality Approach for Thrombus Detection and Fibrin Content Estimation
Francesco Blasi, Massachusetts General Hosp, Charlestown, MA
Peter Caravan, Massachusetts General Hosp, Charlestown, MA

2:45  A Significant Decrease in Early Confirmed Left Ventricular Assist Device Pump Thrombosis: Recent Observations from a Large Multi-Institutional Experience
John M Stulak, Mayo Clinic Coll of Med, Rochester, MN
Simon Maltais, Vanderbilt Heart and Vascular Inst, Nashville, TN

2:55  Q&A Discussion
3:00 Surgical Approach to Continuous Flow Left Ventricular Assist Device Explantation: a Comparison of Outcomes
Andrew C.W Baldwin, Yale Sch of Med, New Haven, CT
O H Frazier, Texas Heart Inst, Houston, TX
3:10 Q&A Discussion

Abstract Oral Session
AOS.608.02 Surgical Revascularization for Ischemic Heart Disease II
N228 2:00 - 3:15 PM
Moderators:
Pierre Voisine, Sainte-foy, QC, Canada
Paul Kurlansky, New York, NY
2:00 Long-term Prognosis in Patients with Type 1 and Type 2 Diabetes Mellitus after Coronary Artery Bypass Grafting
Martin Holzmann, Karolinska Instt, Stockholm, Sweden
Ulrik Sartipy, Karolinska Instt, Stockholm, Sweden
2:10 Q&A Discussion
2:15 Real-world Comparing Outcomes of Revascularization Strategies for Multivessel Disease in Patients with Diabetes
Zhe Zheng, Fuwai Hosp, Beijing, China
Shengshou Hu, Fuwai Hosp, Beijing, China
2:25 Q&A Discussion
2:30 Preoperative D-dimer and Haptoglobin Phenotype Predict Both Venous and Arterial Grafts Occlusion at Mid-term Follow-up. Results From the CoronAry Bypass Grafting: Factors Related to Late Events and Graft patEncy (CAGE) Study
Alessandro Parolari, Ctr cardiologico Monzino IRCCS, Milan, Italy
CAGE Study Investigators
2:40 Q&A Discussion
2:45 Off-Pump Coronary Artery Bypass Grafting is Associated With Higher Rate of Percutaneous Coronary Intervention at 8-Year Follow-Up
Fabio Barili, S.Croce Hosp, Cuneo, Cuneo, Italy
Fulvia Seccareccia, Istituto Superiore di Sanità, Rome, Italy
2:55 Q&A Discussion
3:00 Calpain Inhibition Improves Myocardial Perfusion in a Swine Model of Chronic Myocardial Ischemia
Ashraf A Sabe, Warren Alpert Sch Of Med, Brown Univ, Providence, RI
Frank W Sellke, Warren Alpert Sch Of Med, Brown Univ, Providence, RI
3:10 Q&A Discussion

Cardiovascular Seminar
CVS.608
Selecting the Optimal Treatment Strategy for STEMI
N227b 2:00 - 3:15 PM
Moderators:
Duane Pinto, Boston, MA
J Francois Tanguay, Montreal, QC, Canada
2:00 Radial Should Be First Line for STEMI PCI
Gilles Montalescot, Paris, France
2:12 State-of-the-Art Thrombus Management in STEMI
Gregg W Stone, New York, NY
2:24 Management of STEMI in Patients with Multivessel Disease
Roxana Mehran, New York, NY
2:36 Is Faster Really Better? Benefits and Risks of Continued Efforts to Lower Door-to-Balloon Time
Eric R Bates, Ann Arbor, MI
2:48 STEMI and Shock: IABP, Impella or Simple PCI Only
Vladimir Dzavik, Toronto, ON, Canada
3:00 Q&A Discussion
Panel Participants
Alice K Jacobs, Boston Univ Medical Ctr, Boston, MA
Aldaie Chieffo, San Raffaele Scientific Inst, Milan, Italy
Harold Dauerman, Fletcher Allen Health Care, Burlington, VT
Basil S Lewis, lady Davis Carmel Medical Ctr, Haifa, Israel

Cardiovascular Seminar
CVS.406
Targeted Temperature Management: Beyond Cardiac Arrest
S401a 2:00 - 3:15 PM
Moderator:
Michael Holzer, Vienna, Austria
2:00 After the TTM Trial: Tailoring Temperature Management Following Cardiac Arrest
Hans Friberg, Lund, Sweden
2:15 TTM Following Traumatic Arrest
Samuel A Fisherman, MD
2:30 TTM for Acute Myocardial Infarction
Marko Noc, Ljubljana, Slovenia
2:45 TTM for Acute Cerebrovascular Accident
Patrick Lyden, Los Angeles, CA
3:00 TTM in Cardiovascular Surgery
Patricia Thistlethwaite, La Jolla, CA

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**Plenary**

**PS.03**

**Atrial Fibrillation: New Science, New Guidelines and New Uncertainties?**

North Hall B
2:00 - 3:15 PM

**Moderators:**
Anne B Curtis, Buffalo, NY
John Camm, London, United Kingdom

2:00 **Hot Off the Press: Three Lessons from the Bench**
Stanley Nattel, Montreal, QC, Canada

2:15 **NOACs and Periprocedural Anticoagulation Management: Fear of the Unknown?**
Elaine Hylek, Boston, MA

2:30 **Atrial Fibrillation in Heart Failure: What Are We Missing and Where Do We Go?**
Clyde W Yancy Jr., Chicago, IL

2:45 **How Much AF Is Too Much?**
Jeff S Healey, Hamilton, ON, Canada

3:00 **2014 AF Guidelines: What’s New? What’s Not?**
Craig T January, Madison, WI

**Special**

**SS.05**

**Do You See the Big Picture? Read Challenging Cardiovascular Imaging Case Studies with Experts**

S100ab
2:00 - 3:15 PM

**Moderators:**
Valentin Fuster, New York, NY
William Zoghbi, Houston, TX

2:00 **Is This Severe Aortic Stenosis, and What Will You Do?**
Philippe Pibarot, Quebec, QC, Canada

2:25 **Is This HCM, Why, and What Is the Risk of SCD?**
Carolyn Ho, Boston, MA

2:50 **Is This PAH, Why, and Is It Reversible?**
Richard Channick, Boston, MA

**Special**

**SS.15.gc**

**Harnessing Big Data for Precision and Personalized Medicine**

S100c
2:00 - 3:15 PM

**Moderators:**
Christopher Newton-Cheh, Boston, MA
Donna K Arnett, Birmingham, AL

2:00 **Genomics for Precision and Personalized Cardiovascular Medicine**
Geoffrey S Ginsburg, Durham, NC

2:15 **Prospects for Pharmacogenomics for Patients and Populations**
Julie A Johnson, Gainesville, FL

2:30 **Personalized Preventive Approaches to Cardiovascular Disease**
Sekar Kathiresan, Boston, MA

2:45 **Genome Sequencing for Personalized Medicine**
Christine Seidman, Boston, MA

3:00 **Future Directions for Precision and Personalized Cardiovascular Medicine**
Deepak Srivastava, San Francisco, CA

**Special**

**SS.04**

**Best of Other Cardiovascular Meetings (Domestic)**

S106
2:00 - 3:15 PM

**Moderators:**
Frank W Sellke, Providence, RI
Timothy J Gardner, Newark, DE

2:00 **Science Highlights from Cardiac Electrophysiology Society**
Glenn Fishman, New York, NY

2:15 **Science Highlights from Heart Rhythm Society**
John Day, Salt Lake City, UT

2:30 **Science Highlights from Transcatheter Cardiovascular Therapeutics**
Martin Leon, New York, NY

2:45 **Science Highlights from American College of Cardiology**
Prediman K Shah, Los Angeles, CA

3:00 **Science Highlights from American Association for Thoracic Surgery**
Ralph Damiano, St Louis, MO
Maintenance of Certification

Maintenance of Certification: ABIM Learning Session—Interventional Cardiology, 2014 Update (Late-June Release)

S105d
2:00 - 4:00 PM

Moderators:
Donald E Cutlip, Boston, MA
David Moliterno, Lexington, KY

Case Theater

VAD+ Transplant - VAD Clot/Dysfunction

South Hall A1 - Booth 1676
3:00 - 3:45 PM

Panelists:
Isaac George, New York, NY
Jennifer Cowger, Ann Arbor, MI
Duc Thinh Pham, Boston, MA
Ulrich P Jorde, New York, NY

e-Abstract Session

Acute and Chronic Coronary Artery Disease—Quality Care and Outcomes

South Hall A2 - Core 7 Theater
4:10 - 5:00 PM

Moderator:
Paul Heidenreich, Palo Alto, CA

4:10 Statin and Aspirin Use in a High Risk CHD HMO Population Modeled to Prevent 4,930 Ascvd Events and Save the Health Care System up to $123 Million in 3 Years
Robert James Dudd, Kaiser, La Jolla, CA
Ronald D Scott, Kaiser, Los Angeles, CA

4:15 Effect of Female Gender on Acute Coronary Syndrome Outcomes in Young Patients
Amar M Salam, Hamad Medical Corp & Weill Cornell Medical Coll–Qatar, Doha, Qatar
(Gulf RACE-2) Investigators The Second Gulf Registry of Acute Coronary Events

Dhaval Kotle, New York Medical Coll, Valhalla, NY
Julio A Panza, New York Medical Coll, Valhalla, NY

4:25 Persistent Thrombocytopenia after Myocardial Infarction is Associated with Increased Short- and Long-Term Mortality
Anirudh Kumar, Duke Univ, Durham, NC
Hani Jneid, Baylor Coll of Med, Houston, TX

4:30 Gender-age Interaction after AMI in China
Xin Zheng, Fuiwai Hosp, Beijing, China
Lixin Jiang, Fuiwai Hosp, Beijing, China

4:35 The Value of QS-Pattern in Leads V1 to V3 for Predicting Improvement of Left Ventricular Function After ST-elevation Myocardial Infarction
Tetsuo Horimatsu, Hyogo Coll of Med, Nishinomiya, Japan
Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan

4:40 Long-Term Mortality, MACE, and Angina Among Patients With Diabetes and Myocardial Infarction
Suzanne V Arnold, Saint Luke’s Mid America Heart Inst, Kansas City, MO
Mikhail Kosiborod, Saint Luke’s Mid America Heart Inst, Kansas City, MO

4:45 The Prognostic Impact of Spontaneous Coronary Artery Dissection in Younger Female Patients with Acute Myocardial Infarction; Report from Angina Pectoris-Myocardial Infarction Multicenter Investigations in Japan
Takahiro Nakashima, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan
Shunichi Miyazaki, Kinki Univ, Osaka, Japan

4:50 Combined Assessment of Serum Neutrophil Gelatinase-Associated Lipocalin and N-Terminal Pro-B-Type Natriuretic Peptide Levels on Admission Improves the Prediction of Mortality in Patients Hospitalized to Coronary Care Units
Ryunosuke Okuyama, Fujita Health Univ Hosp, Toyioake, Japan
Yukio Ozaki, Fujita Health Univ Hosp, Toyioake, Japan

4:55 Chronic Total Occlusion in a Non-Infarct Coronary Artery Exacerbates Prognosis of the Patients With Acute Myocardial Infarction
Yukio Mizuguchi, Sakurakai Takahashi Hosp, Kobe, Japan
Tetsuya Hata, Sakurakai Takahashi Hosp, Kobe, Japan
e-Abstract Session

**EAS.404.12**

**Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk**

South Hall A2 - Core 4 Theater  
2:00 - 2:50 PM

**Moderator:**  
Andrew Epstein, New Haven, CT

2:00  
**Prognostic Biomarker for Prediction of Sinus Rhythm Maintenance, Stroke and Long-Term Survival Following Successful Electrical Cardioversion of Non-Valvular Atrial Fibrillation: The Role of Left Atrial Appendage Flow**

Rowens M Melduni, Mayo Clinic, Rochester, MN  
Naser M Ammash, Mayo Clinic, Rochester, MN

2:05  
**Utility of the Wearable Cardioverter-Defibrillator for Patients With Newly Diagnosed Non-Ischemic Cardiomyopathy?**

Madhumreet Singh, Univ of Pittsburgh Medical Ctr, Pittsburgh, PA  
Evan Adelstein, Univ of Pittsburgh Medical Ctr, Pittsburgh, PA

2:10  
**The Effect of Therapeutic Hypothermia on QT and Corrected QT Intervals in Patients With Cardiac Arrest and Their Association With Malignant Arrhythmias**

David F Miranda, Hennepin County Medical Ctr, Minneapolis, MN  
Steven R Goldsmith, Hennepin County Medical Ctr, Minneapolis, MN

2:15  
**Sudden Cardiac Death in Patients with Ischemic Heart Failure Undergoing CABG: Results from the STICH trial**

Meena P Rao, Duke Univ, Durham, NC  

2:20  
**Early Initiation of Remote Monitoring in CIED Patients is Associated with Reduced Mortality**

Suneet Mittal, Valley Health System of NY and NJ, New York, NY  
Niraj Varma, Cleveland Clinic, Cleveland, OH

2:25  
**Prediction of Clinical Atrial Fibrillation induced during Typical Atrial Flutter Ablation**

Rodolfo Estrada, Montefiore Medical Ctr, Bronx, NY  
Luigi Di Biase, Montefiore Medical Ctr, Bronx, NY

2:30  
**Left Atrial Appendage Occlusion for Prevention of Stroke in Non-Valvular Atrial Fibrillation: A Meta-Analysis**

Weeranun D Bode, Univ of North Carolina at Chapel Hill, Chapel Hill, NC  
Anil K Gehi, Univ of North Carolina at Chapel Hill, Chapel Hill, NC

2:35  
**Female Gender is not a Risk of Various Adverse Events in Japanese Patients with Atrial Fibrillation: From the Fushimi AF Registry**

Hisashi Ogawa, Kyoto Medical Ctr, Kyoto, Japan  
The Fushimi AF Registry Investigators

2:40  
**Incident Atrial Fibrillation is Similar in Blacks and Whites With Congestive Heart Failure**

Parin J Patel, Univ of Pennsylvania, Philadelphia, PA  
Rajat Deo, Univ of Pennsylvania, Philadelphia, PA

2:45  
**Incidence of Stroke or Systemic Embolism in Paroxysmal versus Sustained Atrial Fibrillation: From the Fushimi AF Registry**

Kensuke Takabayashi, Natl Hosp Organization Kyoto Medical Ctr, Kyoto, Japan  
Masaharu Akao, Natl Hosp Organization Kyoto Medical Ctr, Kyoto, Japan

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**e-Abstract Session**

**EAS.310.02**

**Progress in Clinical Pediatric Heart Failure/Transplantation**

South Hall A2 - Core 3 Theater  
2:00 - 2:50 PM

**Moderator:**  
Janet Scheel, Washington, DC

2:00  
**Increased Risk of Post-Heart Transplant Mortality in Small Infants**

Heang M Lim, C.S Mott Children’s Hosp, Univ of Michigan, Ann Arbor, MI  
Kurt R Schumacher, C.S Mott Children’s Hosp, Univ of Michigan, Ann Arbor, MI

2:05  
**Myocarditis is Not an Independent Risk Factor for Outcomes in Children Listed for Heart Transplantation**

Jessica C Garbern, Boston Children’s Hosp, Boston, MA  
Tajinder P Singh, Boston Children’s Hosp, Boston, MA

2:10  
**Medical Therapy Leads to Positive Remodeling in Left Ventricular Non-Compaction Cardiomyopathy**

John J Parent, Cincinnati Children’s Hosp Medical Ctr, Cincinnati, OH  
John L Jefferies, Cincinnati Children’s Hosp Medical Ctr, Cincinnati, OH

2:15  
**Modern Outcomes of Mechanical Circulatory Support as a Bridge to Pediatric Heart Transplantation**

Brody Wehman, Univ of Maryland Medical Ctr, Baltimore, MD  
Bartley P Griffith, Univ of Maryland Medical Ctr, Baltimore, MD

2:20  
**Hyponatremia in Children Hospitalized with Decompensated Heart Failure: Prevalence, Severity and Association with Clinical Outcome**

Jack Price, Texas Children’s Hosp, Houston, TX  
Ayse Arikan, Texas Children’s Hosp, Houston, TX
Monday, November 17  •  Chicago, Illinois

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2:25 Myocardial Fibrosis Quantified by Cardiovascular Magnetic Resonance is Associated with Histology and Graft Function After Pediatric Heart Transplantation
Brian Feingold, Children’s Hosp of Pittsburgh of UPMC, Pittsburgh, PA
Timothy C Wong, Univ of Pittsburgh Sch of Med, Pittsburgh, PA

2:30 Outcomes With Early Biventricular Assist Device in Pediatric Heart Failure: a Single Center Experience of 31 Patients
Jacob R Miller, Washington Univ in St Louis, St Louis, MO
Umar S Boston, St Louis Children’s Hosp, St Louis, MO

2:35 Pediatric Quality of Life While Supported With a Ventricular Assist Device
Jacob R Miller, Washington Univ in St Louis, St Louis, MO
Pirooz Eghtesady, St Louis Children’s Hosp, St Louis, MO

2:40 Outcomes of Patients with Congenital Heart Disease following Heart Transplantation: the Impact of Disease Type, Prior Thoracic Surgeries and End-Organ Dysfunction
Matthew J Lewis, Columbia Univ/New York Presbyterian Hosp, New York, NY
Mary Jane Farr, Columbia Univ/New York Presbyterian Hosp, New York, NY

2:45 Extracorporeal Membrane Oxygenation (ECMO) Support in Single Ventricle Patients After the Glenn Procedure: Review of the Extracorporeal Life Support Organization (ELSO) Registry
Scott I Aydin, The Children’s Hosp at Montefiore, Bronx, NY
Samuel Weinstein, Montefiore Medical Ctr, Bronx, NY

2:10 Derivation and Validation of a Clinical Prediction Rule for Sleep Disordered Breathing in Patients With Cardiovascular Disease
Takashi Miyazaki, Kumamoto Univ Hosp, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

2:15 A Novel Biomarker of Oxidative Stress is Predictive of Incident Death and Myocardial Infarction in Patients with Coronary Artery Disease
Riyaz S Patel, Emory Univ Sch of Med, Atlanta, GA
Arshed A Quyyumi, Emory Univ Sch of Med, Atlanta, GA

2:20 Prediction of Atherosclerotic Cardiovascular Disease Mortality in a Nationally Representative Cohort Using Set of Risk Factors From Pooled Cohort Risk Equations
Zefeng Zhang, Ctrs for Disease Control and Prevention, Atlanta, GA
Barbara Bowman, Ctrs for Disease Control and Prevention, Atlanta, GA

2:25 Validating and Updating the Toronto In-Hospital Mortality Risk Score After Percutaneous Coronary Interventions in Brazil
Lucas Lodí-Junqueira, Hosp das Clinicas - UFMG, Belo Horizonte, Brazil
Antonio Luiz Pinho Ribeiro, Sch of Med - UFMG, Belo Horizonte, Brazil

2:30 Urine Albumin-to-Creatinine Ratio Outperforms Other Biomarkers in Predicting Death
Rony Lahoud, CCF, Cleveland, OH
Danielle Brennan, CCF, Cleveland, OH

2:35 Pooled Cohort Risk Equations: A Comparison of Their Predictions With Five Other Cardiovascular Risk Scores in Five Peruvian Sites
Frank Peralta-Alvarez, Univ Peruana Cayetano Heredia, Lima, Peru
Jaime Miranda, Univ Peruana Cayetano Heredia, Lima, Peru

2:40 The Biomarker Tissue Inhibitor of Metalloproteinase-1 (TIMP-1) is a Stronger Independent Predictor of All-Cause Mortality Than Other Established Biomarkers in the AGES-Reykjavik Study
Gina LaRocca, Natl Insts of Health, Bethesda, MD
Andrew E Arai, Natl Insts of Health, Bethesda, MD

2:45 Alanine Aminotransferase Levels and Incident Cardiovascular Events
Paulo Harada, Brigham and Women’s Hosp, Boston, MA
Paul M Ridker, Brigham and Women’s Hosp, Boston, MA

EAS.212.03 Risk Factors, Biomarkers, Risk Prediction I

South Hall A2 - Core 2 Theater
2:00 - 2:50 PM

Moderator:
Wolfgang Koenig, Ulm, Germany

2:00 Ethnic Differences in the 10-Year Risk of Coronary Heart Disease Among High Risk Individuals in a Large Contemporary Population
Jamal S Rana, Kaiser Permanente Norther California, Oakland, CA
Andrew J Karter, Kaiser Permanente Dept of Res, Oakland, CA

2:05 Prevalence and Clustering of Cardiovascular Risk Factors Across the National Income Spectrum in the Africa Middle East Region
Alawi A Alsheikh-Al, Inst of Cardiac Sciences, Abu Dhabi, United Arab Emirates
Wald M Mashhoud, Pfizer, Jeddah, Saudi Arabia

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Wald M Mashhoud, Pfizer, Jeddah, Saudi Arabia
**e-Abstract Session**

**EAS.721.01**

**Stroke, Heart and Vascular Poster Session I**

South Hall A2 - Core 7 Theater  
2:00 - 2:55 PM

**Moderator:**  
Jose Biller, Maywood, IL

2:00  
**Sitagliptin Attenuated Brain Damage and Cognitive Impairment in Mice With Chronic Cerebral Hypo-Perfusion Through Suppressing Oxidative Stress and Inflammatory Reaction**  
Tzu-Hsien Tsai, Kaohsiung Chang Gung Memorial Hosp, Chang Gung Univ Coll of Med, Kaohsiung Hsien, Taiwan  
Hon Kan Yip, Kaohsiung Chang Gung Memorial Hosp, Chang Gung Univ Coll of Med, Kaohsiung Hsien, Taiwan

2:05  
**Prevalence and Risk Factors of Catheterization-Related Cerebral Infarction: Evaluation at Diffusion-Weighted Magnetic Resonance Imaging**  
Yusuke Morita, The Tazuke Kofukai Medical Research Inst, Kitano Hosp, Osaka, Japan  
Moriaki Inoko, The Tazuke Kofukai Medical Research Inst, Kitano Hosp, Osaka, Japan

2:10  
**Predictive Role of Microwave Radiometry in Identifying Culprit Carotid Arteries Provoking Ischemic Stroke**  
Georgios Benetos, Athens Medical Sch, Athens, Greece  
Christodoulos Stefanadis, Athens Medical Sch, Athens, Greece

2:15  
**Ischemic Stroke After Antithrombotics Withdrawal and Its Impact on Neurological Deterioration**  
Jeong Min Kim, Chung-Ang Univ Hosp, Seoul, Republic of Korea  
Kon Chu, Seoul Natl Univ Hosp, Seoul, Republic of Korea

2:20  
**Rate of Carotid Disease Progression in Asymptomatic Low to Moderate Risk Individuals: The Right Study**  
Veit Sandfort, NIH, Bethesda, MD  
David A Bluemke, NIH, Bethesda, MD

2:25  
**Ipsilateral Carotid Arteries Exhibit Higher Inflammation in Patients With Ischemic Stroke and Bilateral Carotid Artery Disease**  
Georgios Benetos, Athens Medical Sch, Athens, Greece  
Christodoulos Stefanadis, Athens Medical Sch, Athens, Greece

2:30  
**Angiographic and Hemodynamic Features of Symptomatic Vertebrobasilar Disease: Baseline Data from the VERITAS Study**  
Sepideh Armin-Hanjani, Univ of Illinois at Chicago, Chicago, IL  
VERITAS Study Group

**Abstract Oral Session**

**AOS.802.01**

**Emerging Technologies**

S405  
3:45 - 5:00 PM

**Moderators:**  
Kevin Thomas, Durham, NC  
Brian Annex, Charlottesville, VA

3:45  
**High-Intensity Focused Ultrasound (HIFU) Promotes Angiogenesis in a Rat Model of Peripheral Arterial Disease**  
Babak Nazar, Univ of California San Francisco, San Francisco, CA  
Akiko Hata, Univ of California San Francisco, San Francisco, CA

3:55  
**Q&A Discussion**

4:00  
**First Report of the New Point-of-Care TEG: a Multicenter Validation Study of the CORA® System**  
Paul A Gurbel, Sinai Hosp Baltimore, Baltimore, MD  
Mark H Ereth, Mayo Clinic, Rochester, MN

4:10  
**Q&A Discussion**

4:15  
**A Real-World Study Evaluating the Utility of an Innovative Digital Feedback System in Patients With Uncontrolled Hypertension**  
Lorenzo DiCarlo, Proteus Digital Health, Redwood City, CA  
Yashar Behzadi, Proteus Digital Health, Redwood City, CA

4:25  
**Q&A Discussion**
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>4:30</td>
<td>Pulmonary Vein Isolation With a Single Encircling Lesion in Less Than 15 seconds: a New Catheter-Based Intra-Pericardial Ablation System</td>
<td>Steven R Mickelsen, Univ of Iowa Hosp, Iowa City, IA; James Martins, Univ of Iowa Hosp, Iowa City, IA</td>
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<td>4:40</td>
<td>Q&amp;A Discussion</td>
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<td>4:45</td>
<td>Higher Parity is Associated with Left Ventricular Diastolic Dysfunction: Echo Study of Latinos (Echo SOL)</td>
<td>Shivani R Aggarwal, Wake Forest Sch of Med, Winston Salem, NC; Carlos J Rodriguez, Wake Forest Sch of Med, Winston Salem, NC</td>
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<td>4:55</td>
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**Abstract Oral Session**

**Heart Failure: Improving Early Outcomes and Safety**

S404a  
3:45 - 5:00 PM

**Moderators:**
Robb D Kociol, Boston, MA  
Susan Joseph, St Louis, MO

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>3:45</td>
<td>Impact of Dietary Salt Intake on Heart Failure Related Hospitalizations in Patients with Preexisting Heart Failure: a Sub study of the HART Trial (NCT00018005)</td>
<td>Ashvarya Mangla, OSF Saint Francis Medical Ctr, Peoria, IL; Lynda H Powell, Rush Univ Medical Ctr, Chicago, IL</td>
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<td>3:55</td>
<td>Q&amp;A Discussion</td>
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<td>4:00</td>
<td>Bedside Ultrasound Evaluation of Right Atrial Pressure to Predict Acute Decompensated Heart Failure 30-Day Readmission</td>
<td>Frederick G Schnatz, Univ of Pittsburgh, Pittsburgh, PA; John J Pacella, Univ of Pittsburgh, Pittsburgh, PA</td>
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<td>4:10</td>
<td>Q&amp;A Discussion</td>
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<td>4:15</td>
<td>ADHERE Risk Levels Predict 60-day Death and Re-hospitalization in Clinical Trial Patients with Acute Decompensated Heart Failure</td>
<td>Virginia B Hebl, Mayo Clinic, Rochester, MN; Margaret M Redfield, Mayo Clinic, Rochester, MN</td>
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<td>4:25</td>
<td>Q&amp;A Discussion</td>
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<td>4:30</td>
<td>Comparison of Clinical Characteristics and Adverse Outcomes in Pregnant Women with Cardiomyopathy Subtypes at the Time of Delivery in the US: 2006-2010</td>
<td>Fabio V Lima, Stony Brook Univ, Stony Brook, NY; Kathleen Stergiopoulos, Stony Brook Univ, Stony Brook, NY</td>
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<td>4:40</td>
<td>Q&amp;A Discussion</td>
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<td>4:45</td>
<td>Incidence Rate of Hyperkalemia-related Hospitalization After Initiation of a Mineralocorticoid Receptor Antagonist in Patients with Heart Failure</td>
<td>Vishal R Chauhan, Stanford Univ Sch of Med, Stanford, CA; Paul Heidenreich, VA Palo Alto Health Care System, Palo Alto, CA</td>
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<tr>
<td>4:55</td>
<td>Q&amp;A Discussion</td>
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Abstract Oral Session

**Heart Failure: Novel Concepts and Therapies**

**S404bcd**
3:45 - 5:00 PM

**Moderators:**
Eileen Hsich, Cleveland, OH
Lynne Warner Stevenson, Boston, MA

3:45 **Assessing Right Ventricular-Pulmonary Circulation Reserve During Exercise Challenge in Patients with Heart Failure and Severely Depressed Right Heart Function at Rest**
Greta Generati, Heart Failure Unit, IRCCS Policlinico San Donato, San Donato Milanese, Italy
Marco Guazzi, Heart Failure Unit, IRCCS Policlinico San Donato, San Donato Milanese, Italy

3:55 **Q&A Discussion**

4:00 **Upregulation of Cardiac β3-Adrenergic Signaling Promotes Heart Failure Progression: Evidence from Chronic β3-Adrenoceptor (AR) deficiency or β3-AR Blockade Mice**
Tiankai Li, Wake Forest Sch of Med, Winston-Salem, NC
Satoshi Masutani, Saitama Medical Univ Intl Medical Ctr, Saitama, Japan

4:10 **Q&A Discussion**

4:15 **Phenotypes of Heart Failure Identified via Cluster Analysis Do Not Recapitulate Hemodynamic Profiles: Insights From the ESCAPE Trial**
Tariq Ahmad, Duke Medical Ctr, Durham, NC
Chetan Patel, Duke Medical Ctr, Durham, NC

4:25 **Q&A Discussion**

4:30 **Discordant Impact of Baroreflex Activation on Cardiac Output Between the Normal Heart and Failing Heart**
Takafumi Sakamoto, Kyushu Univ, Fukuoka, Japan
Kenji Sunagawa, Kyushu Univ, Fukuoka, Japan

4:40 **Q&A Discussion**

4:45 **Resveratrol Prevents Iron-overload Cardiomyopathy by up Regulating Serca2a and by Exerting Anti-oxidant Effects**
Subhash K Das, Div of Cardiology, Dept of Med, Mazankowski Alberta Heart Inst, Univ of Alberta, Edmonton, AB, Canada
Gavin Y Oudit, Div of Cardiology, Dept of Med, Mazankowski Alberta Heart Inst, Dept of Physiology, Univ of Alberta, Edmonton, AB, Canada

4:55 **Q&A Discussion**

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**Late-Breaking Basic Science II**

**S406a**
3:45 - 5:00 PM

**Moderators:**
Jeffery D Molkentin, Cincinnati, OH
David Weber, Mobile, AL

3:45 **TRPV4 Channel Deletion Improves Cardiac Function and Remodeling Following Myocardial Infarction and Transverse Aortic Constriction via Modulation of Rho/MRTF-A Pathway**
Charles K Thodeti, Northeast Ohio Medical Univ, Rootstown, OH

3:55 **Q&A Discussion**

4:00 **Identification of a Novel Pathway of Parkin-Mediated Mitochondrial Clearance in Cardiac Myocytes**
Babette C Hammerling, UCSD, La Jolla, CA
Asa B Gustafsson, UCSD, La Jolla, CA

4:10 **Myocardial Edema After Ischemia/reperfusion is Not Stable and Follows a Bimodal Pattern: Advanced Imaging and Histological Tissue Characterization Study to Challenge a Classical Dogma**
Rodrigo Fernandez-Jimenez, Spanish Natl Ctr for Cardiovascular Res (CNIC), Madrid, Spain
Borja Ibanez, Spanish Natl Ctr for Cardiovascular Res (CNIC), Madrid, Spain

4:25 **Q&A Discussion**

4:30 **Treatment and Diagnosis of Vascular Thromboembolism Using Thrombus-specific Drug Delivery System Using Nano-polymers**
Joo Heung Yoon, Beth Israel Deaconess Hosp, Boston, MA
Peter M Kang, Beth Israel Deaconess Hosp, Boston, MA

4:40 **Q&A Discussion**

4:45 **Session Q&A Discussion**
Abstract Oral Session

Abstract Oral Session

**Magnetic Resonance Imaging: Heart**

AOS.108.01

N230b
3:45 - 5:00 PM

**Moderators:**
Karen Ordovas, San Francisco, CA
Paaladinesh Thavendiranathan, Toronto, ON, Canada

**3:45 Fast, Free-Breathing, Whole-Heart Cardiac Magnetic Resonance T2 Mapping for Myocardial Edema Imaging**
Hsin-Jung Yang, Cedars Sinai Medical Ctr, Los Angeles, CA
Rohan Dharmakumar, Cedars Sinai Medical Ctr, Los Angeles, CA

**3:55 Q&A Discussion**

**4:00 In Vivo High Resolution Isotropic 3D MRI of Coronary Atherosclerosis in Hypertensive Hypercholesterolemic Minipigs**
Rozh H Al-Mashhadi, Aarhus Univ, Aarhus, Denmark
Jacob F Bentzon, Aarhus Univ, Aarhus, Denmark

**4:10 Q&A Discussion**

**4:15 Grad 3-Ischemia (QRS Complex Distortion) as a Predictor of Myocardial Damage as Assessed by Cardiac Magnetic Resonance Imaging and Clinical Prognosis in Patients With ST-Elevation Myocardial Infarction**
Karl-Philipp Rommel, Heart Ctr Univ Leipzig, Leipzig, Germany
Ingo Eitel, Univ of Lübeck, Medical Clinic II, Lübeck, Germany

**4:25 Q&A Discussion**

**4:30 Impact of Late Gadolinium Enhancement With Cardiac Magnetic Resonance on Mortality in Moderate to Severe Aortic Stenosis**
Rosayn Adigum, Houston Methodist Hosp, Houston, TX
Dipan J Shah, Houston Methodist Hosp, Houston, TX

**4:40 Q&A Discussion**

**4:45 Clinical and Prognostic Utility of Cardiac Magnetic Resonance Imaging in Multiple Myeloma Patients With Suspected Amyloidosis**
Sabha Bhatti, UAMS, Little Rock, AR
Abdul Hakeem, UAMS, Little Rock, AR

**4:55 Q&A Discussion**

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**New Insights from Stem Cell Models of Arrhythmia Disease**

AOS.403.01

S401bcd
3:45 - 5:00 PM

**Moderators:**
Bjorn Knollmann, Nashville, TN
Lior Gepstein, Hafza, Israel

**3:45 Role of Cardiac Stromal Cells in the pathogenesis of Arrhythmogenic Right Ventricular Cardiomyopathy**
Elena Sommariva, Ctr Cardiologico Monzino, Milan, Italy
Claudio Tondo, Ctr Cardiologico Monzino, Milan, Italy

**3:55 Q&A Discussion**

**4:00 Syncytial Model of Type 2 Long QT Syndrome Derived From Human iPS Cells Can Be Paced and Responds to Ikr Block and Activation**
Renjun Zhu, Johns Hopkins Univ, Baltimore, MD
Leslie Tung, Johns Hopkins Univ, Baltimore, MD

**4:10 Q&A Discussion**

**4:15 Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Recapitulate Clinical Phenotypes in a Multigenerational Family With Early Onset Atrial Fibrillation and Long Qt Syndrome**
Chuanchau J Jou, Univ of Utah, Salt Lake City, UT
Martin Tristani-Firouzi, Univ of Utah, Salt Lake City, UT

**4:25 Q&A Discussion**

**4:30 Fluorescence Voltage Recordings From Stem Cell-Derived Cardiomyocytes Enable High-Throughput Screening for Cardiotoxicity**
Jordan S Leyton-Mange, Massachusetts General Hosp, Boston, MA
David J Milan, Massachusetts General Hosp, Boston, MA

**4:40 Q&A Discussion**

**4:45 Mitochondrial Calcium Flux Modulates Pacemaker Activity in Mouse Stem Cell Derived Cardiomyocytes**
An Xie, Rhode Island Hosp, Providence, RI
Samuel C Dudley, Rhode Island Hosp, Providence, RI

**4:55 Q&A Discussion**
Abstract Oral Session

AOS.602.01

Percutaneous Coronary Interventions: Quality, Readmissions and Controversy

N227b
3:45 - 5:00 PM

Moderator:
Timothy Henry, Los Angeles, CA

3:45 Performance on Hospitals on PCI Process Measures and Correlation With 30-Day Readmissions
Philip W Chui, Univ of California Irvine Medical Ctr, Orange, CA
Jeptha P Curtis, Yale Sch of Med, New Haven, CT

3:55 Q&A Discussion

4:00 Angina Frequency and Unplanned Readmissions after Multivessel vs. Culprit Vessel Only Percutaneous Coronary Intervention Strategy Among Patients Presenting With Acute Myocardial Infarction-6 Week Outcomes From the TRANSLATE-ACS Observational Study
Praneet K Sharma, Saint Luke’s Mid America Heart Inst, Kansas City, MO
Tracy Y Wang, Duke Clinical Res Inst, Durham, NC

4:10 Q&A Discussion

4:15 Characteristics of Best Practice Primary PCI Timing for STEMI Transfer Patients: Findings From the AHA Mission: Lifeline Program®
Harold L Dauerman, Fletcher Allen Health Care, Burlington, VT
Matthew Roe, Duke Clinical Res Inst, Durham, NC

4:25 Q&A Discussion

Abstract Oral Session

AOS.714.01

Peripheral Arterial and Venous Disease

S103bc
3:45 - 5:00 PM

Moderators:
Subhash Banerjee, Dallas, TX
Eric Boersma Sr., Rotterdam, Netherlands

3:45 Albuminuria Determines Event-Free Survival in Atherosclerotic Renal-Artery Stenosis
Wencan He, Univ of Toledo, Toledo, OH
Michael R Jaff, Massachusetts General Hosp, Boston, MA

3:55 Q&A Discussion

4:00 Home-Based Exercise Improves Walking Speed and Prevents Mobility Loss in Peripheral Artery Disease: A Randomized Controlled Trial
Mary McDermott, Northwestern Univ, Chicago, IL
W Jack Rejeski, Wake Forest Univ, Winston-Salem, NC

4:10 Q&A Discussion

Abstract Oral Session

AOS.723.01

Pulmonary Hypertension: New Directions

S103d
3:45 - 5:00 PM

Moderators:
Marlene Rabinovitch, Stanford, CA
Vinicio De Jesus Perez, Stanford, CA

3:45 Role for Mir-126 in Right Ventricle Failure in Pulmonary Arterial Hypertension
Francois Potus, Université Laval, Québec, QC, Canada
Sébastien Bonnet, Université Laval, Québec, QC, Canada

3:55 Q&A Discussion

4:00 The miR-130/301 Family Exerts Systems-level Regulation of Proliferation, Vasooconstriction, and Extracellular Matrix Deposition to Control Pulmonary Hypertension
Stephen Y Chan, Brigham and Women’s Hosp, and Harvard Medical Sch, Boston, MA

4:10 Q&A Discussion
4:15  PPARγ Plays a Novel, Pivotal Role in DNA Damage Sensing and Repair, That is Perturbed in Pulmonary Arterial Hypertension
Caiyun G Li, Stanford Univ, Stanford, CA
Marlene Rabinovitch, Stanford Univ, Stanford, CA

4:25  Q&A Discussion

4:30  Right Ventricle Lymphatic Vessel Insufficiency Contributes to Interstitial Fluid Stasis, Inflammation, Fibrosis, and Failure in Pulmonary Hypertension
Michael E Yeager, Univ of Colorado Denver, Aurora, CO

4:40  Q&A Discussion

4:45  Nanoparticle-Mediated Delivery of Pitavastatin into Small Pulmonary Arteries by Intravenous Administration Attenuated the Progression of Already Established Monocrotaline-induced Pulmonary Arterial Hypertension in Rats
Kenzo Ichimura, Kyushu Univ, Fukuoka, Japan
Kensuke Egashira, Kyushu Univ, Fukuoka, Japan

4:55  Q&A Discussion

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**Abstract Oral Session**

AOS.610.02

**Surgical Therapy for Valvular Heart Disease: Aortic Valve**

N226  3:45 - 5:00 PM

**Moderators:**
Yoshikatsu Saiki, Sendai, Japan
Subodh Verma, Toronto, ON, Canada

3:45  Current Results of Surgical Aortic Valve Replacement - Insights from the German Aortic Valve Registry
David M Holzhey, Heart Ctr Leipzig, Leipzig, Germany
Christian W Hamm, Kerckhoff Klinik, Bad Nauheim, Germany

3:55  Q&A Discussion

4:00  When is Left Ventricular Function Too Poor for Successful Aortic Valve Replacement? Analysis of 3,075 Cases
Dai Une, Univ of Ottawa Heart Inst, Ottawa, ON, Canada
Marc Ruel, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

4:10  Q&A Discussion

4:15  Characteristics and Long-Term Outcomes of Patients With Bicuspid Aortic Valve: Impact of Cardiovascular Surgery
Ahmad Masri, Cleveland Clinic, Cleveland, OH
Milind Y Desai, Cleveland Clinic, Cleveland, OH

4:25  Q&A Discussion

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**Cardiovascular Seminar**

CVS.319

**Genome-Phenome Study: What the AHA Is Doing with Big Science**

S101  3:45 - 5:00 PM

**Moderators:**
Steven R Houser, Philadelphia, PA
Joseph Loscalzo, Boston, MA

3:45  An Introduction to CV-GPS: the Cardiovascular Genome-Phenome Study
Joseph Loscalzo, Boston, MA

4:00  The Framingham Heart Study: Boston University's Role
Vasan Ramachandran, Framingham, MA

4:15  The Jackson Heart Study: the University of Mississippi's Role
Adolfo Correa, Jackson, MS

4:30  NHLBI and Its Role
Michael Lauer, Bethesda, MD

4:45  Announcement of Grant Recipients (Pathway Grant)
Steven R Houser, Philadelphia, PA

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**Cardiovascular Seminar**

CVS.211.gc

**How to Leverage Technology in Patient Self-Management**

S502  3:45 - 5:00 PM

**Moderator:**
Nancy T Artinian, Detroit, MI

3:45  Using Mobile Phone Technology to Increase Compliance in Diabetics
Charlene Quinn, Baltimore, MD
Monday, November 17 • Chicago, Illinois

4:00 Using Social Media: Benefits and Dangers
Tiny Jaarsma, Linkoping, Sweden

4:15 Web-based Interventions for CV Risk Reduction
Hayden Bosworth, Durham, NC

4:30 TBD

4:45 Using Second Life Web-Based Applications in Diabetic Patients
Allison Vorderstrasse, Durham, NC

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**Cardiovascular Seminar**

CVS.233.gc

**What Have We Learned from Large-Scale Genomics in Cardiovascular Disease and Stroke?**

S100c
3:45 - 5:00 PM

**Moderators:**
Nilesh Samani, Leicester, United Kingdom
Christopher J O'Donnell, Framingham, MA

3:45 Large-Scale Genomic Studies of Coronary Artery Disease/Myocardial Infarction
Heribert Schunkert, München, Germany

4:00 The Genomics of Stroke
Sudha Seshadri, Boston, MA

4:15 Large-Scale Genome Studies of Dyslipidemia and Its Risk for CVD
Sekar Kathiresan, Boston, MA

4:30 Large-Scale Genomic Studies of Hypertension and Its Risk for CVD
Christopher Newton-Cheh, Boston, MA

4:45 Genomics of Atrial Fibrillation and Related Risk for Stroke
Patrick T Ellinor, Boston, MA

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**Plenary**

PS.04

**Next Innovations for Heart Failure**

North Hall B
3:45 - 5:00 PM

**Moderators:**
Justin Ezekowitz, Edmonton, AB, Canada
Monica Shah, Bethesda, MD

3:45 Cutting Edge Diagnostics Using MicroRNA
Thomas Thum, Hannover, Germany

4:00 Using Electricity or a Catheter
Jagmeet P Singh, Boston, MA

4:15 Using Smaller, Smaller and Smaller...Devices
O Howard Frazier, Houston, TX

4:30 Monitoring the Patient: Listening to the Patient or a Novel Device
Lynne Warner Stevenson, Boston, MA

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**Special**

SS.17

**AHA Strategically Focused Network: Directions for Prevention and What Does It Take to Be Successful?**

S106
3:45 - 5:00 PM

**Moderators:**
Jennifer L Hall, Minneapolis, MN
Mark A Creager, Boston, MA

3:45 HFpEF Prevention Center: University of Texas Southwestern
Joseph A Hill, Dallas, TX

3:57 Vanderbilt University Strategically Focused Prevention Research Center
David G Harrison, Nashville, TN

4:09 Preventing Heart Disease in New York City Children and Their Caregivers: Icahn School of Medicine a Mount Sinai
Valentin Fuster, New York, NY

4:21 Northwestern University Prevention Research Center: Preserving and Promoting Cardiovascular Health from Birth to Age 50
Philip Greenland, Chicago, IL

4:33 Lessons from the Outcomes Network: What It Takes To Be Successful
Mark Hlatky, Stanford, CA

4:45 Panel Discussion

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**Clinical Science: Special Reports**

CS.02

**Off the Beaten Pathologies**

S100ab
3:45 - 5:13 PM

**Moderators:**
Hiroaki Shimokawa, Sendai, Japan
JoAnn Lindenfeld, Aurora, CO

3:45 The Prospective Comparison of Angiotensin Receptor Neprilysin Inhibitor (ARNI) With ACEI to Determine Impact on Global Mortality and Morbidity in Heart Failure (PARADIGM-HF) Trial
John JV McMurray, Glasgow, United Kingdom

3:55 Discussant of The Prospective comparison of Angiotensin Receptor Neprilysin inhibitor (ARNI) with ACEI to Determine Impact on Global Mortality and morbidity in Heart Failure (PARADIGM-HF) trial
Gregg C Fonarow, Los Angeles, CA

3:58 Panel Discussion
4:07  PreSERVE-AMI: A Randomized, Double-Blind, Placebo-Controlled Clinical Trial of Intracoronary Infusion of Autologous CD34+ Cells in Patients With Left Ventricular Dysfunction Post STEMI  
Arshed A Quyyumi, Atlanta, GA

4:17  Discussant PreSERVE-AMI: A Randomized, Double-Blind, Placebo-Controlled Clinical Trial of Intracoronary Infusion of Autologous CD34+ Cells in Patients with Left Ventricular Dysfunction Post STEMI  
Clyde W Yancy Jr., Chicago, IL

4:20  Panel Discussion

4:29  Ventricular Functional Response to Spinal Cord Stimulation for Advanced Heart Failure: Primary Results of the Randomized Defeat-HF Trial  
Douglas P Zipes, Indianapolis, IN

4:39  Discussant of Ventricular Functional Response to Spinal Cord Stimulation for Advanced Heart Failure: Primary Results of the Randomized Defeat-HF Trial  
James E Udelson, Boston, MA

4:42  Panel Discussion

4:51  Efficacy of Left Ventricular Augmentation With Algisyl-LVR in the Treatment of Advanced Heart Failure Patients With Ischemic and Non-Ischemic Cardiomyopathy: Results of the AUGMENT-HF Multicenter Randomized Controlled Trial  
Douglas L Mann, St Louis, MO

5:01  Discussant of Efficacy of Left Ventricular Augmentation With Algisyl-LVR in the Treatment of Advanced Heart Failure Patients With Ischemic and Non-ischemic Cardiomyopathy: Results of the AUGMENT-HF Multicenter Randomized Controlled Trial  
Mariell Jessup, Philadelphia, PA

5:04  Panel Discussion

Abstract Poster Session

Best of Basic Science Abstracts and Reception

South Hall A2, Best of Basic Science and Late-Breaking Basic Science  
Posters Displayed: 4:00 - 6:00 PM  
Presenter Available: 4:00 - 6:00 PM  
Poster Professor: TBD

BOARD # 9001  
ALLogeneic Heart STem Cells to Achieve Myocardial Regeneration (ALLSTAR): the One Year Phase I Results  
Raj Makkar, Cedars-Sinai Heart Inst, Los Angeles, CA  
Timothy D Henry, Cedars-Sinai Heart Inst, Los Angeles, CA

9002  Novel Modulators of Low Density Lipoprotein Receptor Metabolism  
Nabil Elshourbagy, Shifa Biomedical Corp, Malvern, PA  
Sherin Abdel-Meguid, Shifa Biomedical Corp, Malvern, PA

9003  N-terminal Region of Cardiac Myosin Binding Protein-C Regulates Sarcomeric and Cardiac Function  
Diederik W.D Kuster, Loyola Univ Chicago, Maywood, IL  
Sakthivel Sadayappan, Loyola Univ Chicago, Maywood, IL

9004  Non-Syndromic Mitral Valve Prolapse From Gene Mutations to Modifiable Mechanisms  
Russell Norris, Medical Univ of South Carolina, Charleston, SC  
Susan Slaugenhaupt, Massachusetts General Hosp, Boston, MA

9005  NOX Isoforms and Development of Abdominal Aortic Aneurysm  
Kin L Siu, Univ of California, Los Angeles, Los Angeles, CA  
Hua Cai, Univ of California, Los Angeles, Los Angeles, CA

9006  Chromatin Modifying Enzymes SUV39H1 and SRC-1 Mediate p66shc-Induced Vascular Oxidative Stress in Obese Subjects  
Francesco Paneni, Karolinska Inst, Stockholm, Sweden  
Francesco Cosentino, Karolinska Inst, Stockholm, Sweden

9007  Development of Monthly to Quarterly Subcutaneous Administration of RNAi Therapeutics Targeting the Metabolic Diseases Genes PCSK9, ApoC3 and ANGPTL3  
Kevin Fitzgerald, Alnylam Pharmaceuticals, Cambridge, MA

9008  Increased Open Probability of L-type Calcium Channels Localized in T-tubules in Patients With Chronic Atrial Fibrillation: Role of Channel Subunits  
Marina Balycheva, Univ of Verona, Verona, Italy  
Julia Gorelik, Imperial Coll, London, United Kingdom

9009  A Molecular Switch Regulating Heart and Pancreatic Development  
Li Chen, Univ of Houston, Houston, TX

9010  The Acetyltransferase General Control Non-Derepressible 5 (Gcn5) Causes Endothelial Oxidative Stress by Regulating Nox2 Expression in Diabetes  
Sarah Costantino, Karolinska Inst, Stockholm, Sweden  
Francesco Cosentino, Karolinska Inst, Stockholm, Sweden
9011 Calmodulin Mutation (CALM-F90L) Associated With Familial Idiopathic Ventricular Fibrillation Disrupts L-type Ca Channel Inactivation and Activates Sarco(endo)plasmic Reticulum Ca Release in Ventricular Myocytes
Dmytro Kryshtał, Vanderbilt Univ, Nashville, TN
Bjorn Knollmann, Vanderbilt Univ, Nashville, TN

9012 Inflammation and Ischemic Heart Failure: Monocyte-Mediated Cardiac Fibroblast Activation and Matrix Remodeling Through a Direct Cell-Cell Contact Mechanism
Holly E Mewhort, Univ of Calgary, Calgary, AB, Canada
Paul WM Fedak, Univ of Calgary, Calgary, AB, Canada

9013 Myocardial Infarction Alters Neural Processing of Afferent Inputs in the Intrinsic Cardiac Nervous System
Pradeep S Rajendra, Univ of California, Los Angeles, Los Angeles, CA
Kalyanam Shivkumar, Univ of California, Los Angeles, Los Angeles, CA

9014 Oxido-Reductive Regulation of Human Vascular Remodeling by the Orphan Receptor Tyrosine Kinase Ros1
Ziad A Ali, Columbia Univ, New York, NY
Euan A Ashley, Stanford Univ Sch of Med, Stanford, CA

9015 Enhanced Adventitial Vasa Vascularis Formation in Patients With Vasospastic Angina - Assessment With Optical Frequency Domain Imaging -
Kensuke Nishimiya, Tohoku Univ Hosp, Sendai, Japan
Hiroaki Shimokawa, Tohoku Univ Hosp, Sendai, Japan

9016 Epigenetic Up-regulation of α-smooth Muscle Actin Expression and Cell Aggregation in Human Aortic Valve Intersitial Cells Promotes Calcific Nodule Formation
Rui Song, Univ of Colorado Denver, Aurora, CO
Xianzhong Meng, Univ of Colorado Denver, Aurora, CO

9017 Noninvasive Optical Imaging of Response to On-Demand Antioxidant Therapy in a Model of Peripheral Arterial Disease
Kristin M Poole, Vanderbilt Univ, Nashville, TN
Craig L Duvall, Vanderbilt Univ, Nashville, TN

9018 Modeling Drug-Induced Long QT Syndrome with Patient-Specific Induced Pluripotent Stem Cell-Derived Cardiomyocytes
Jean-Sebastien Hulot, Icahn Sch of Med at Mount Sinai, New York, NY

9019 Functional and Molecular Arrhythmogenic Substrates of Atrial Fibrillation Drivers (Reentrant Rotors) in Explanted Human Hearts
Ning Li, The Ohio State Univ, Columbus, OH
Vadim V Fedorov, The Ohio State Univ, Columbus, OH

9020 Transgenic Short QT Syndrome Type 1 Rabbits (HERG-N588K) Mimic the Human Phenotype with Shortened Cardiac Repolarization, Ventricular Fibrillation, and Sudden Death
Katja E Odening, Heart Ctr Univ of Freiburg, Freiburg, Germany
Michael Brunner, Heart Ctr Univ of Freiburg, Freiburg, Germany

9021 Functional and Molecular Characteristics of the Latent Atrial Pacemaker Clusters in Explanted Human Hearts
Ning Li, The Ohio State Univ, Columbus, OH
Vadim V Fedorov, The Ohio State Univ, Columbus, OH

9022 Effect of Apolipoprotein E Mimetic (AEM-28) on Lipoprotein Metabolism in Cynomolgus Monkeys
Dennis Goldberg, Lipimetix Development, LLC., Natick, MA
Thomas Register, Wake Forest Univ., Winston-Salem, NC

9023 The Histone Demethylase Jumonji D3 Regulates Angiogenesis
Tina Lucas, Goethe Univ Frankfurt, Frankfurt am Main, Germany
Stefanie Dimmeler, Goethe Univ Frankfurt, Frankfurt am Main, Germany

9024 Maternal Age is a Modifiable Risk Factor for Congenital Heart Disease
Patrick Y Jay, Washington Univ Sch of Med, Saint Louis, MO

9025 Direct Nkx2-5 Transcriptional Repression of Isl1 Controls Cardiomyocyte Subtype Identity
Alexander Goedel, Technische Univ München, Munich, Germany
Karl-Ludwig Laugwitz, Technische Univ München, Munich, Germany

9026 Cytooglobin Regulates Cardiovascular Function and Vessel Tone by Controlling the Rate of Vascular Nitric Oxide Metabolism
Xiaoping Liu, Ohio State Univ, Columbus, OH
Jay L Zweier, Ohio State Univ, Columbus, OH

9027 Glucose-6-Phosphate Dehydrogenase Regulates Myocardin and Phenotype of Arterial Smooth Muscle Cells in Metabolic Syndrome Swine and Humans
Vidhi Dhagia, New York Medical Coll, Valhalla, NY
Sachin A Gupte, New York Medical Coll, Valhalla, NY

9028 Oxidation Products From the Human Heart Trigger PPAR-γ Signalling in Epicardial Fat and Stimulate the Release of Adiponectin: a Novel Role of Epicardial Fat in the Regulation of Myocardial Redox State
Alexios S Antonopoulos, Univ of Oxford, Oxford, United Kingdom
Charalambos Antoniades, Univ of Oxford, Oxford, United Kingdom
Abstract Poster Session

Late-Breaking Basic Science Posters and Reception

South Hall A2, Best of Basic Science and Late-Breaking Basic Science

Posters Displayed: 4:00 - 6:00 PM

Presenter Available:

BOARD #

Poster Professor:
Burns Blaxall, Cincinnati, OH

LBS01 p53 Regulates the Myocardial Recovery with Diabetes
Ramaswamy Kannappan, Brigham and Women's Hosp, Harvard Medical Sch, Boston, MA
Annarosa Leri, Brigham and Women's Hosp, Harvard Medical Sch, Boston, MA

LBS02 Pharmacologic Blockade and Genetic Deletion of Androgen Receptors Attenuates Abdominal Aortic Aneurysm Formation
John P Davis, Univ of Virginia Health System, Charlottesville, VA
Gilbert R Upchurch, Univ of Virginia Health System, Charlottesville, VA

LBS03 Transplantation of Adipose Tissue Mesenchymal Cells Overexpressing Telomerase and Myocardin promotes Revascularization and Tissue Repair in a Murine Model of Myocardial Infarction
Rosalinda Madonna, Texas Heart Inst - Houston and Univ of Chieti - Italy, Houston, TX
Raffaele De Caterina, Univ of Chieti - Italy, Chieti Scalo, Italy

LBS04 The Novel PPARα Selective Agonist K-877 Suppresses Pro-inflammatory Pathways and Experimental Arterial Lesion Formation
Hiroshi Iwata, Brigham and Women's Hosp, Boston, MA
Masanori Aikawa, Brigham and Women's Hosp, Boston, MA

LBS05 Heart-derived Cell Therapy for Duchenne Cardiomyopathy: Cardiosphere-derived Cells and their Exosomes Improve Function, Restore Mitochondrial Integrity and Reverse Degenerative Changes in the Hearts of Mdx Mice
Mark A Aminzadeh, Cedars-Sinai Heart Inst, Los Angeles, CA
Eduardo Marbán, Cedars-Sinai Heart Inst, Los Angeles, CA

LBS06 Rnd3/RhoE Plays an Essential Role in the Transition of Heart to Failure
Xiaojing Yue, Texas A&M University Health Science Ctr, Houston, TX
Jiang Chang, Texas A&M University Health Science Ctr, Houston, TX

LBS07 Pim1 Kinase Functional Effect Depends Upon Intracellular Localization
Kaitlen Samse, San Diego State Univ, San Diego, CA
Mark A Sussman, San Diego State Univ, San Diego, CA

LBS08 Oxidative Stress Modulation of IKACH via PKC Epsilon: Implications for Atrial Fibrillation in the Aging Heart
Guillaume Bassil, Tufts Medical Ctr, Boston, MA
Sami Noujaim, Tufts Medical Ctr, Boston, MA

LBS09 Mechanisms of Direct PCSK9 Effect on Atherosclerosis
Ilaria Giunzioni, Oregon Health and Science Univ, Portland, OR
Sergio Fazio, Oregon Health and Science Univ, Portland, OR

LBS10 Role of LDL in PCSK9-mediated Degradation of LDL Receptors
Ilaria Giunzioni, Oregon Health & Science Univ, Portland, OR
Sergio Fazio, Oregon Health & Science Univ, Portland, OR

LBS11 A Novel Long Non-coding RNA Contributes to Cardiac Hypertrophy via Epigenetic Remodeling
Zhizhu Wang, Div of Molecular Med, Dept of Anesthesiology, Physiology and Med, David Geffen Sch of Med, Univ of California at Los Angeles, Los Angeles, CA
Yibin Wang, Div of Molecular Med, Dept of Anesthesiology, Physiology and Med, David Geffen Sch of Med, Univ of California at Los Angeles, Los Angeles, CA

LBS12 Cortical Bone Stem Cells Preserve Cardiac Structure and Function in the Swine Heart after Myocardial Infarction
Thomas E Sharp, Temple Univ Sch of Med, Philadelphia, PA
Steven R Houser, Temple Univ Sch of Med, Philadelphia, PA

LBS13 Harnessing Autophagy to Treat Diabetes Related Cardiac Fibrosis
Yangxin Li, Inst for Cardiovascular Science & Dept of Cardiovascular Surgery of the First Affiliated Hosp of Soochow Univ, Suzhou, China
Xi-yong Yu, Medical Res Ctr, Guangdong General Hosp, Guangzhou, China

LBS14 Fate Mapping of Bone Marrow Cell Transdifferentiation In Vivo
Anna Czarna, Brigham and Women's Hosp, Boston, MA
Annarosa Leri, Brigham and Women's Hosp, Boston, MA
### Prevention Case Theaters: Application of 2013 ACC/AHA Cholesterol Guidelines

**Case Theater**

CT.08

**4:00 - 6:00 PM**

**Moderator:** Jennifer G Robinson, Iowa City, IA

**Panelists:**
- Donald M Lloyd-Jones, Chicago, IL
- Neil J Stone, Chicago, IL
- Vera Bittner, Birmingham, AL
- Clyde W Yancy Jr., Chicago, IL

### Echocardiography in the Context of Multimodality Imaging

**e-Abstract Session**

EAS.102.03

**South Hall A2 - Core 1 Theater**

**4:10 - 5:00 PM**

**Moderator:** Paaladinesh Thavendiranathan, Toronto, ON, Canada

- **4:10**
  - Estimation of Stroke Volume and Aortic Valve Area in Patients With Aortic Stenosis: A Comparison of Doppler-Echocardiography and Cardiac Magnetic Resonance
    - **Romain Capoulade**, Quebec Heart & Lung Inst, Quebec, QC, Canada
    - **Philippe Pibarot**, Quebec Heart & Lung Inst, Quebec, QC, Canada

- **4:15**
  - Relationship of Myocardial Strain by 2D Speckle Tracking Echocardiography and Coronary Flow Reserve by Magnetic Resonance Imaging in Patients with Heart Failure with Preserved Ejection Fraction
    - **Naka Saito**, Kanagawa Cardiovascular and Respiratory Ctr, Yokohama, Japan
    - **Satoshi Umemura**, Yokohama City Univ Hosp, Yokohama, Japan

- **4:20**
  - Incremental Prognostic Value of Left Ventricular Global Longitudinal Strain and Late Gadolinium Enhancement in Patients with Dilated Cardiomyopathy
    - **Misato Chimura**, Himeji Cardiovascular Ctr, Himeji, Japan
    - **Yoshinori Yasaka**, Himeji Cardiovascular Ctr, Himeji, Japan

### Ask the Experts

**ATE.103**

**Cardiovascular Imaging in Clinical Trials**

**N230b**

**5:30 - 6:45 PM**

**Moderator:** Chun Yuan, Seattle, WA

- **5:30**
  - CV Imaging–Based Biomarkers and Their Application in Prospective Clinical Trials
    - **Thomas HatsuKami**, Seattle, WA
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
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<tr>
<td>5:45</td>
<td>Role of CV Imaging in Epidemiology Trial</td>
<td>New York, NY</td>
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<tr>
<td>6:00</td>
<td>Statistical Considerations for Running Imaging-Based Clinical Trials</td>
<td>Seattle, WA</td>
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<tr>
<td>6:15</td>
<td>Technical Considerations for Clinical Trials: Imaging Protocol and Training</td>
<td>Seattle, WA</td>
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<td>Q&amp;A Discussion</td>
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**Ask the Experts**

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<tr>
<th>ATE.501</th>
<th>Complications of Mechanical Circulatory Support</th>
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<td><strong>Complications of Mechanical Circulatory Support</strong></td>
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<td>5:30 - 6:45 PM</td>
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<td><strong>Moderator:</strong> Robb D Kociol, Boston, MA</td>
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<tr>
<td>5:30</td>
<td>Gastrointestinal Bleed Post VAD</td>
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<td>Approaches to End-of-Life Care in the Failing LVAD Patient</td>
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<td>Management of LVAD-Associated Infections</td>
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<td>Identification and Management of VAD Thrombosis</td>
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<td>Q&amp;A Discussion</td>
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**Ask the Experts**

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<th>ATE.502</th>
<th>Genetics and Heart Failure: What Does the Clinician Need to Know?</th>
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<td><strong>Genetics and Heart Failure: What Does the Clinician Need to Know?</strong></td>
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<td>5:30 - 6:45 PM</td>
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<td></td>
<td><strong>Moderator:</strong> Jean-Sebastien Hulot, New York, NY</td>
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<tr>
<td>5:30</td>
<td>Genetics of Heart Failure: How Do We Make Sense of All the Mutations?</td>
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<td>Genetic Counseling for Heart Failure: What Panels Are Available and What Mistakes to Avoid?</td>
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<td>6:00</td>
<td>Genetics and Response to Therapy in Heart Failure</td>
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<td>Can IPSC Modeling Lead to Personalized Medicine?</td>
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<td>Q&amp;A Discussion</td>
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**Ask the Experts**

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<tr>
<th>ATE.604</th>
<th>Intracoronary Imaging and Physiology: How and When to Use It</th>
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<td><strong>Intracoronary Imaging and Physiology: How and When to Use It</strong></td>
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<td><strong>N227b</strong></td>
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<tr>
<td>5:30</td>
<td><strong>Optical Coherence Tomography: Practical Clinical Applications</strong></td>
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<td>5:42</td>
<td><strong>IVUS-Guided Stenting Provides Superior Outcomes</strong></td>
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<td>5:54</td>
<td><strong>Fractional Flow Reserve: For the Majority of PCI Patients</strong></td>
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<td><strong>IMR and Microvascular Disease: Providing Clinical Insights into the Syndrome X Patient</strong></td>
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<td><strong>A Case Study in Advanced Coronary Imaging and Physiology</strong></td>
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<td><strong>Q&amp;A Discussion</strong></td>
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<td><strong>Panel Participants</strong></td>
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<tr>
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<td>Farouc Jaffer, Boston, MA</td>
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<td>Daniel I Simon, Cleveland, OH</td>
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<td>Peter Barlis, Epping, Australia</td>
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**Ask the Experts**

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<th>ATE.603</th>
<th>Planning, Building and Using the Cardiac Surgical Hybrid OR</th>
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<td><strong>Planning, Building and Using the Cardiac Surgical Hybrid OR</strong></td>
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<td><strong>N227a</strong></td>
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<td>5:45</td>
<td><strong>CT-Like and Novel Features: What Do They Add?</strong></td>
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<td><strong>Validation of Revascularization: Lessons Learned</strong></td>
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<td><strong>Expanding Hybrid OR Utilization: The Cedars-Sinai Experience</strong></td>
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<td><strong>Getting Cross-Trained: When, Where and How?</strong></td>
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<tr>
<td></td>
<td>Louis Perrault, Montreal, QC, Canada</td>
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<td>L Wiley Nifong, Greenville, NC</td>
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<td>Steven J Hoff, Orlando, FL</td>
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<td>Ali Khoynezhad, Los Angeles, CA</td>
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<td>Mathew R Williams, New York, NY</td>
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### Ask the Experts

**ATE.404**

**Ventricular Tachycardia Ablation: State of the Art 2014**

S401bcd
5:30 - 6:45 PM

**Moderator:**
Usha Tedrow, Boston, MA

- **5:30** VT Ablation: Why I Homogenize the Substrate
Andrea Natale, Austin, TX

- **5:45** VT Ablation: Why I Map, Entrain and Ablate
William G Stevenson, Boston, MA

- **6:00** VT Ablation: When to Go Epicardial
Fermin Garcia, Philadelphia, PA

- **6:15** Chasing the Triggers: Ablation of Polymorphic VT and Idiopathic VF
Mélèze Hocini, Bordeaux-Pessac, France

- **6:30** Q&A Discussion

### Cardiovascular Seminar

**CVS.609**

**Anticoagulation Therapy in TAVR: Harmonizing Bleeding and Stroke Risks**

N228
5:30 - 6:45 PM

**Moderators:**
George D Dangas, New York, NY
Harold Dauerman, Burlington, VT

- **5:30** Timing and Incidence of Bleeding and Stroke Complications in TAVR
Philippe Genereux, New York, NY

- **5:42** TAVR and Anticoagulation
Kentaro Hayashida, Tokyo, Japan

- **5:54** Dual Antiplatelet Therapy Post TAVR: Is It Really Needed?
Gian Paolo Ussia, Rome, Italy

- **6:06** Role of Anticoagulant Therapy in TAVR
George D Dangas, New York, NY

- **6:18** Antithrombotic Treatment in TAVR: Where Do We Stand Today?
Josep Rodes-Cabau, Quebec, QC, Canada

- **6:30** Q&A Discussion

**Panel Participants**
Helene Eltchaninoff, Rouen, France
Haim Danenberg, Jerusalem, Israel
Duane Pinto, Boston, MA

### Cardiovascular Seminar

**CVS.610**

**Advanced and Surgical Treatment of CHF**

N226
5:30 - 6:45 PM

**Moderators:**
John V Conte, Baltimore, MD
Nader Moazami, Cleveland, OH

- **5:30** The Present and Future of Medical Therapy for CHF
Francois Haddad, Stanford, CA

- **5:45** What Have We Learned from STICH?
Robert E Michler, New York, NY

- **6:00** Non-LVAD, Nontransplant Options: In Whom?
Vivek Rao, Toronto, ON, Canada

- **6:15** Addressing the Mitral Valve: Medical, Interventional or Surgical?
Thierry Mesana, Ottawa, ON, Canada

- **6:30** Destination LVAD Therapy: A Double-Edged Sword?
Randall Starling, Cleveland, OH

### Cardiovascular Seminar

**CVS.214**

**Autophagy, Cellular Metabolism and Atherogenesis**

S503
5:30 - 6:45 PM

**Moderator:**
Yanqiao Zhang, Rootstown, OH

- **5:30** Autophagy and Hepatic Lipid Metabolism
Paul Yen, Singapore, Singapore

- **5:45** The Autophagy-Lysosome System In Macrophages: A Nexus for Lipid Metabolism and Inflammatory Signaling in Atherosclerosis
Babak Razani, St Louis, MO

- **6:00** Autophagy and Oxidized Lipids, Role in Atherosclerotic Plaque Stabilization
Cécile Vindis, Toulouse, France

- **6:15** Autophagy Regulates Cholesterol Efflux from Macrophage Foam Cells via Lysosomal Acid Lipase
Mireille Ouimet, New York, NY

- **6:30** Q&A Discussion
### Cardiovascular Seminar

**CVS.308**

**Bicuspid Aortic Valve Disease: Old Disease, New Ideas and Therapies**

<table>
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<tr>
<td>S101</td>
<td>5:30 - 6:45 PM</td>
<td>Genetics and Embryology of Bicuspid Aortic Disease</td>
<td>Yohan Bossé, Quebec, QC, Canada</td>
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<td>5:45</td>
<td>Pathobiology and Natural History of Bicuspid Aortic Disease</td>
<td>Samuel C Siu, London, ON, Canada</td>
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<td>6:00</td>
<td>CT Imaging of Bicuspid Aortic Disease</td>
<td>Federico M Asch, Washington, DC</td>
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<td>6:15</td>
<td>MRI of Bicuspid Aortic Disease</td>
<td>Malenka Bissell, Oxford, United Kingdom</td>
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<td>6:30</td>
<td>The Moderately Dilated Aorta: Repair or Not?</td>
<td>Alessandro Della Corte, Naples, Italy</td>
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**Moderators:**
- Simon Body, Boston, MA
- Arturo Evangelista, Barcelona, Spain

**CVS.409**

**Controversies in CRT Optimization: Current Data and Future Directions**

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<tr>
<td>S402</td>
<td>5:30 - 6:45 PM</td>
<td>The Importance of Patient Selection for CRT: Overview of New Guidelines</td>
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<td>Implantation Strategies and Techniques</td>
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<td>CRT Optimization: Is There Still a Role?</td>
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<td>New Directions for CRT: Where Do We Go from Here?</td>
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<td>Q&amp;A Discussion</td>
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**Moderator:**
- Martin St John Sutton, Philadelphia, PA

### Cardiovascular Seminar

**CVS.310**

**Controversies in Congenital Heart Disease: Catheter Intervention Versus Surgery**

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<tr>
<td>S102bc</td>
<td>5:30 - 6:45 PM</td>
<td>Surgery Is the Better Approach to Congenital Aortic Valve Stenosis</td>
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<td>5:45</td>
<td>Balloon Valvuloplasty Is the Primary Treatment for Congenital Aortic Valve Stenosis</td>
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<td>6:00</td>
<td>Ductal Stenting Is the Way to Preserve Pulmonary Blood Flow</td>
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<td>6:15</td>
<td>The Surgical Shunt Is the Gold Standard</td>
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<td>Q&amp;A Discussion</td>
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**Moderators:**
- Wolfgang K Radtke, Wilmington, DE
- Carl Backer, Chicago, IL

**CVS.212**

**Clinical Trials Using Community-Based Participatory Research Methods**

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<tr>
<td>S502</td>
<td>5:30 - 6:45 PM</td>
<td>A Multilevel, Social, Ecologically Based Smoking Cessation Intervention for Women in Public Housing</td>
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<td>Unique Recruitment Methods for Participatory Community Research</td>
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<td>6:00</td>
<td>A CBPR Intervention to Reduce Appalachian Health Disparities</td>
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<td>Q&amp;A Discussion</td>
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**Cardiovascular Seminar**

**CVS.309**

**Dealing with False Positives, True Positives, False Negatives and True Negatives in Pediatric Cardiology**

**S102d**  
5:30 - 6:45 PM  
**Moderator:** Carissa Baker-Smith, Baltimore, MD

5:30 **Big Data in Little Patients: Accurately Interpreting Large Databases in Pediatrics**  
Matthew Oster, Atlanta, GA

5:45 **False Positives and Negatives in Neonatal Pulse Oximetry Screening**  
Gerard R Martin, Washington, DC

6:00 **False Positives in ECG Screening for ADHD or Neonatal ECG Screening**  
Jonathan Kaltman, Bethesda, MD

6:15 **Genetic Results: What to Do with Variants of Unknown Significance**  
Matteo Vatta, Indianapolis, IN

6:30 **Implications of Incidental Findings During Preparticipation Athletic Screening**  
Arie Steinvil, Tel Aviv, Israel

**CVS.710**

**HDL-C or HDL Function: What Should We Be Measuring?**

**S105abc**  
5:30 - 6:45 PM  
**Moderator:** Kerry-Anne Rye, Sydney, Australia

5:30 **What Is the Better Predictor of Cardiovascular Events—HDL Function or HDL-C?**  
Robert S Rosenson, New York, NY

5:45 **HDL-C and Cholesterol Efflux as a Diagnostic Tool**  
Daniel J Rader, Philadelphia, PA

6:00 **HDL and Endothelial Dysfunction**  
Ulf Landmesser, Zurich, Switzerland

6:15 **HDL and Macrophage Inflammation**  
Alan Tall, New York, NY

6:30 **ApoA-I Function in Atheroma**  
Bernd Hewing, Berlin, Germany

**CVS.407**

**Inflammatory Signaling in Cardiac Arrest**

**S401a**  
5:30 - 6:45 PM  
**Moderators:** Fumito Ichinose, Charlestown, MA  
Mary Ann Peberdy, Richmond, VA

5:30 **Improving Cellular Oxygen Utilization Post-Arrest: Should We, Can We?**  
Michael Donnino, Boston, MA

5:45 **Role of 12/15 Lipoxygenase in Ischemic Brain Injury**  
Klaus Van Leyen, Charlestown, MA

6:00 **Impact of TLR2 on Outcomes After Cardiac Arrest**  
Stefan Bergt, Rostock, Germany

6:15 **Macrophage Migration Inhibitory Factor After Successful Resuscitation from Cardiac Arrest**  
Christian Stoppe, Aachen, Germany

6:30 **Cytokine Signaling in the Ischemic Heart**  
Antonio Abbate, Richmond, VA
### Cardiovascular Seminar

**Macrophage Polarization in Atherosclerosis**

**CVS.713**

**S104**

5:30 - 6:45 PM

**Moderator:**
Edward Fisher, New York, NY

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<tr>
<td>5:30</td>
<td><strong>MiR 33 and M2 Polarization</strong></td>
<td>Kathryn J Moore, New York, NY</td>
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<td><strong>IL13 Therapy and Atherosclerosis Progression</strong></td>
<td>Christoph J Binder, Vienna, Austria</td>
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<td>6:00</td>
<td><strong>Metabolic Properties of M1/M2 Macrophages in Plaques</strong></td>
<td>Bart Staels, Lille, France</td>
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<td>6:15</td>
<td><strong>Polarization Plasticity During Atherosclerosis Regression</strong></td>
<td>Edward Fisher, New York, NY</td>
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<td><strong>Q&amp;A Discussion</strong></td>
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### Cardiovascular Seminar

**Management of Patients with Diabetes and Acute Coronary Syndrome**

**CVS.215**

**S501**

5:30 - 6:45 PM

**Moderator:**
Darren K McGuire, Dallas, TX

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<tr>
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<td><strong>Outcomes of Patients with Diabetes and ACS: Are We Making Progress?</strong></td>
<td>Anselm K Gitt, Ludwigshafen, Germany</td>
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<td>5:45</td>
<td><strong>Acute Management of Patients with Diabetes and ACS: Do They Benefit from More Aggressive Management?</strong></td>
<td>A Michael Lincoff, Cleveland, OH</td>
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<td>6:00</td>
<td><strong>Revascularization in Patients with Diabetes and Non-STEMI ACS: What is the Optimal Approach?</strong></td>
<td>Michael E Farkouh, Toronto, ON, Canada</td>
<td>Toronto, ON, Canada</td>
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<td>6:15</td>
<td><strong>Discharge Management of Patients with Diabetes and ACS: Optimizing Long-Term Outcomes</strong></td>
<td>Suzanne V Arnold, Kansas City, MO</td>
<td>Kansas City, MO</td>
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<td>6:30</td>
<td><strong>Q&amp;A Discussion</strong></td>
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### Cardiovascular Seminar

**Metabolism and Stem Cells**

**CVS.511**

**S404a**

5:30 - 6:45 PM

**Moderators:**
Bradford G Hill, Louisville, KY
Andre Terzic, Rochester, MN

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<tr>
<td>5:30</td>
<td><strong>ES Exosomes and Cardiac Repair</strong></td>
<td>Susmita Sahoo, Chicago, IL</td>
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<td><strong>Regulation of Postnatal Cardiomyocyte Cell Cycle</strong></td>
<td>Hesham Sadek, Dallas, TX</td>
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<td>6:00</td>
<td><strong>Role of Anabolism Regulation in Cardiac Development and Homeostasis</strong></td>
<td>Miguel Torres, Madrid, Spain</td>
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<td>6:15</td>
<td><strong>Role of Glycolysis in Somatic Cell Dedifferentiation and Reprogramming</strong></td>
<td>Andre Terzic, Rochester, MN</td>
<td>Rochester, MN</td>
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<td>6:30</td>
<td><strong>Metabolism in Cardiac Stem Cells</strong></td>
<td>Bradford G Hill, Louisville, KY</td>
<td>Louisville, KY</td>
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### Cardiovascular Seminar

**Pathways Leading to Heart Failure**

**CVS.105**

**N230a**

5:30 - 6:45 PM

**Moderator:**
Maria Kontaridis, Boston, MA

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<th>Location</th>
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<tr>
<td>5:30</td>
<td><strong>Cardiomyocyte-Specific Expression of RhoA Protects Against Pressure Overload–Induced Heart Failure but Facilitates Cardiac Fibrosis</strong></td>
<td>Maria Kontaridis, Boston, MA</td>
<td>Boston, MA</td>
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<td>5:40</td>
<td><strong>Eicosapentaenoic Acid Prevents Interstitial Fibrosis in a Pressure Overload Model of Heart Failure</strong></td>
<td>Tim O’Connell, Minneapolis, MN</td>
<td>Minneapolis, MN</td>
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<tr>
<td>5:50</td>
<td><strong>Fibroblasts and the Extracellular Matrix in the Diabetic Myocardium</strong></td>
<td>Nikolaos Frangogiannis, Bronx, NY</td>
<td>Bronx, NY</td>
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<tr>
<td>6:00</td>
<td><strong>An Endogenously Produced Fragment of Cardiac Myosin-Binding Protein C Is Pathogenic and Can Lead to Heart Failure</strong></td>
<td>Jeffrey Robbins, Cincinnati, OH</td>
<td>Cincinnati, OH</td>
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<tr>
<td>6:10</td>
<td><strong>Inflammatory Cells and Chronic Heart Failure</strong></td>
<td>Sumanth Prabhu, Birmingham, AL</td>
<td>Birmingham, AL</td>
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<td>6:20</td>
<td><strong>Myocardial ATP Turnover Rate in Failing Hearts</strong></td>
<td>Robert Weiss, Baltimore, MD</td>
<td>Baltimore, MD</td>
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<tr>
<td>6:30</td>
<td><strong>Q&amp;A Discussion</strong></td>
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Cardiovascular Seminar

Prevention of Frailty in Patients with Cardiovascular Disease

CVS.213

S505
5:30 - 6:45 PM

Moderator:
Nanette Wenger, Atlanta, GA

What Is Frailty?
Jane Mohler, Tucson, AZ

Mechanistic and Epidemiologic Link Between Cardiovascular Disease and Frailty
Jonathan Afif, Montreal, QC, Canada

Screening for Frailty in Patients with Cardiovascular Disease
Saman Parvaneh, Tucson, AZ

Physical Activity and Cognitive Approaches to Prevent Frailty
Victoria Grando, Phoenix, AZ

Bioengineering Approaches to Prevention of Frailty in Patients with Cardiovascular Disease
Bijan Najafi, Tucson, AZ

Cardiovascular Seminar

Pulmonary Hypertension with Left-Sided Heart Disease: New Criteria and New Perspective

CVS.513

S406a
5:30 - 6:45 PM

Moderators:
Paul R Forfia, Philadelphia, PA
Mardi Gomberg-Maitland, Chicago, IL

The Epidemiology of Pulmonary Hypertension in Heart Failure and Valvular Heart Disease
Kelly Chin, Dallas, TX

Diastolic Pressure Gradient in Pulmonary Hypertension with Left-Sided Heart Disease: How Useful Will It Be Clinically?
Jean-Luc Vachiery, Brussels, Belgium

Exercise Pulmonary Hypertension: How to Define It and Its Role in the Early Diagnosis and Risk Stratification of Pulmonary Hypertension
Ryan Tedford, Baltimore, MD

What Is the Role of Phosphodiesterase Inhibitor in Pulmonary Hypertension with Left-Sided Heart Disease? A Critical Review of the Data and Ongoing Trials: The RELAX Trial and Guazzi Trial in Perspective
Gregory Lewis, Boston, MA

Reemerging Autonomic Modulatory Therapy for Hypertension

CVS.709

S103a
5:30 - 6:45 PM

Moderators:
Yoshitaka Hirooka, Fukuoka, Japan
Gregory D Fink, East Lansing, MI

RDN Recent Clinical Trial
Murray Esler, Melbourne, Australia

Carotid Baroreflex Activation Therapy: Basic Insights
Thomas Lohmeier, Jackson, MS

Recent Development of BAT in Clinical Practice
George Bakris, Chicago, IL

Central Nervous System Mechanisms Involved in RDN and BAT
Yoshitaka Hirooka, Fukuoka, Japan

Basic Mechanism for RDN and Limitations
Gregory D Fink, East Lansing, MI

The Patient with Advanced Heart Failure and Pulmonary Hypertension: What Is the Best Way to Risk Stratify and Best Manage This Patient?
Dipanjan Banerjee, Stanford, CA
**Cardiovascular Seminar**

**CVS.711**

**Targeting Soluble Guanylate Cyclase in Cardiovascular Disease**

S103d  
5:30 - 6:45 PM

**Moderator:**  
Emmanuel S Buys, Boston, MA

**5:30**  
**Soluble Guanylate Cyclase Stimulators and Activators in Animal Models of Cardiovascular Disease**
Johannes-Peter Stasch, Wuppertal, Germany

**5:45**  
**Mechanisms and Clinical Relevance of Insufficient Soluble Guanylate Cyclase/cGMP Signaling**
John C Burnett, Rochester, MN

**6:00**  
**Targeting Soluble Guanylate Cyclase in Heart Failure**
Marc Semigran, Boston, MA

**6:15**  
**Targeting Soluble Guanylate Cyclase in Pulmonary Hypertension**
Diana Bonderman, Vienna, Austria

**6:30**  
**Targeting Soluble Guanylate Cyclase in Myocardial Infarction**
Heribert Schunkert, Munich, Germany

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**Cardiovascular Seminar**

**CVS.307**

**Telomeres in Cardiovascular Disease: Innocent Victims or Culprits?**

S102a  
5:30 - 6:45 PM

**Moderator:**  
Fadi J Charachar, Ballarat, Australia

**5:30**  
**What Is the Telomere Syndrome?**
Mary Armanios, Baltimore, MD

**5:45**  
**Telomere Length: Genetics and Association with Disease**
Nilesh Samani, Leicester, United Kingdom

**6:00**  
**The Roles of Senescence and Telomere Shortening in Cardiovascular Disease**
Fadi J Charachar, Ballarat, Australia

**6:15**  
**Telomeres and Mitochondria in the Aging Heart**
Ergun Sahin, Houston, TX

**6:30**  
**New Challenges in Measuring Telomere Length**
Ioakim Spyridopoulos, Newcastle Upon Tyne, United Kingdom

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**Cardiovascular Seminar**

**CVS.230.gc**

**The Health eHeart Study: Using Big Data to Perform a Large, Internet-Based, Cardiovascular Cohort Study**

S100c  
5:30 - 6:45 PM

**Moderators:**  
Gregory M Marcus, San Francisco, CA  
Michael S Blum, San Francisco, CA

**5:30**  
**Overview of the Health eHeart Study: Rationale, Possibilities, and Where We Are Thus Far**
Jeffrey Olgin, San Francisco, CA

**5:45**  
**PCORnet and the Health eHeart Alliance**
Mark J Pletcher, San Francisco, CA

**6:00**  
**Harnessing Social Media to Enhance Internet-Based Cardiovascular Research**
Tuhin Sinha, San Francisco, CA

**6:15**  
**How the Health eHeart Study May Be Used to Complement Conventional Cohort Studies**
Caroline S Fox, Framingham, MA

**6:30**  
**Panel Discussion**
Discuss Unknowns and Limitations of the Study
Robert M Califf, Durham, NC  
David M Herrington, Winston-Salem, NC

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**Cardiovascular Seminar**

**CVS.512**

**The Minipig as a Translationally Relevant Model of Human Cardiovascular Disease**

S406b  
5:30 - 6:45 PM

**Moderator:**  
Aarif Khakoo, South San Francisco, CA

**5:30**  
**Generation of Transgenic Pigs as Models of Human Cardiovascular Disease**
Randy Prather, Columbia, MO

**5:45**  
**The Pathophysiologic Relevance of the Pig Model of Coronary Ischemia/Reperfusion**
Frank Sellke, Providence, RI

**6:00**  
**Modeling Ventricular Remodeling in Myocardial Ischemia and Heart Failure and Modulation with MicroRNA in the Pig**
Francis G Spinale, Columbia, SC

**6:15**  
**Spontaneous Familial, Diet-Induced and Transgenic Minipig Models of Atherosclerosis**
James R Turk, Thousand Oaks, CA
6:30  Modeling the Impact of Exercise on Myocardial Ischemia and Coronary Collateralization
Cristine Heaps, College Station, TX

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Cardiovascular Seminar
CVS.408

Update on the Genetics of Inherited Arrhythmias

S403  5:30 - 6:45 PM

Moderator:
Augustus O Grant, Durham, NC

5:30  Current Management Strategies in Long QT
Arthur J Moss, Rochester, NY

5:45  Risk Stratification and Management of Short QT
Michael Gollob, Toronto, ON, Canada

6:00  Risk Stratification in Early Repolarization Syndrome
Sami Viskin, Tel Aviv, Israel

6:15  Brugada Syndrome
Silvia G Priori, Pavia, Italy

6:30  Q&A Discussion
David M Herrington, Winston-Salem, NC

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Cardiovascular Seminar
CVS.106

Vascular Calcification: Looking Beyond the Coronaries

N231  5:30 - 6:45 PM

Moderators:
Aruna Pradhan, Boston, MA
Brendan M Everett, Boston, MA

5:30  Pathology, Molecular and Cellular Drivers of Vascular Calcification
Renu Virmani, Gaithersburg, MD

5:45  Carotid Artery Calcium; the Other CAC for Risk Assessment
Eline Kooi, Maastricht, Netherlands

6:00  Peripheral Artery Calcification: Found It—Now What?
Mary McDermott, Chicago, IL

6:15  Aortic Valve Calcification: So What?
Jordan D Miller, Rochester, MN

6:30  Role of Intracranial Artery Imaging
Mahmud Mossa-Basha, Seattle, W
AHA's strategies for supporting cardiovascular research have evolved to keep pace with today's revolution in how science goes about searching for groundbreaking discoveries.

**ACCELERATING SCIENCE FOR EXTRAORDINARY IMPACT**

**INVESTIGATOR INITIATED RESEARCH**

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<th>Amount (in 2014)</th>
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<td>Collaborative Grants</td>
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<td>Merit Award</td>
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**CARDIOVASCULAR GENOME PHENOME STUDY (CVGPS)**

- **$30 M** per issue in 2014
- $30 M over the first 5 years

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**KEY ISSUES**

- Hypertension
- Disparities
- Prevention
- Basic
- Clinical
- Population

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All participants will receive a special Research Awardee pin.

AHA Research Awardees from Scientific Sessions 2013 in Dallas, TX.
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Attend the accredited Scientific Sessions conferences of the American Heart Association and American Stroke Association, and expand your knowledge of your specialty. Learn from cardiovascular and cerebrovascular science experts, who will share emerging scientific research and clinical applications. And meet colleagues from around the world in your field of interest.

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February 11–13, 2015

State-of-the-Science Stroke Nursing Symposium
February 10, 2015

ISC Pre-Conference Symposium
February 10, 2015
Music City Center, Nashville, TN

EPI/Lifestyle 2015 Scientific Sessions
March 3–6, 2015
Baltimore Marriott Waterfront, Baltimore, MD

Quality of Care and Outcomes Research 2015 Scientific Sessions
April 29–May 1, 2015
Hilton Baltimore, Baltimore, MD

Arteriosclerosis, Thrombosis and Vascular Biology 2015 Scientific Sessions
May 7–9, 2015
Hilton San Francisco Union Square, San Francisco, CA

Basic Cardiovascular Sciences 2015 Scientific Sessions
July 13–16, 2015
Hilton New Orleans Riverside, New Orleans, LA

Hypertension 2015 Scientific Sessions
September 16–19, 2015
Omni Shoreham, Washington, DC

Scientific Sessions 2015
November 7–11, 2015

Resuscitation Science Symposium
November 7–8, 2015

Cardiovascular Clinical Nursing Symposium
November 10–11, 2015
Orange County Convention Center, Orlando, FL

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<td>Trials and Cardiovascular Registries</td>
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<td>3D Modeling and Printing: Advances and Potential Clinical Applications</td>
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<td>Stem/Progenitor Cells: Optimizing Function of Stem Cells in Repair and Regeneration</td>
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<td>Parenting Children with Congenital Heart Disease from Infancy Through Adolescence—It Isn’t Easy!</td>
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<td>The Heart—Brain Axis in Congenital Heart Disease Across the Life Span</td>
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<td>Meet the Trialists</td>
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Tuesday, November 18 • Chicago, Illinois

**Clinical Science: Special Reports**

**Trials and Cardiovascular Registries**

**S100ab**
7:15 - 8:43 AM

*Moderators:*
George Mensah, Bethesda, MD
Federico Gentile, Naples, Italy

*7:15* High-Density Lipoprotein Cholesterol Efflux Capacity is Associated With Incident First Atherosclerotic Cardiovascular Events in the Multi-Ethnic, Population-Based Dallas Heart Study
Anand Rohatgi, Dallas, TX

*7:25* Discussant of High-Density Lipoprotein Cholesterol Efflux Capacity is Associated with Incident First Atherosclerotic Cardiovascular Events in the Multi-Ethnic, Population-Based Dallas Heart Study
Daniel J Rader, Philadelphia, PA

*7:28* Panel Discussion

*7:37* A Cluster Randomized Controlled Trial to Evaluate The Effect of a Simplified Multifaceted Management Program in High Cardiovascular Disease Risk Patients in Rural China and India: Simcard Study
Maoyi Tian, Beijing, China

*7:47* Discussant of A Cluster Randomized Controlled Trial To Evaluate The Effect Of A Simplified Multifaceted Management Program in High Cardiovascular Disease Risk Patients In Rural China And India: Simcard Study
Valentin Fuster, New York, NY

*7:50* Panel Discussion

*7:59* Intention-to-Tweet: A Randomized Trial of Social Media from Circulation
Caroline Fox, Boston, MA

*8:09* Discussant of Intention-to-Tweet: A Randomized Trial of Social Media from Circulation
Mintu Turakhia, Palo Alto, CA

*8:12* Panel Discussion

*8:21* Determining the Risks of Magnetic Resonance Imaging at 1.5 Tesla for Patients with Non-MRI Conditional Pacemakers and Implantable Cardioverter Defibrillators: Final Results of The MagnaSafe Registry
Robert J Russo, La Jolla, CA

*8:31* Discussant of Determining the Risks of Magnetic Resonance Imaging at 1.5 Tesla for Patients with Non-MRI Conditional Pacemakers and Implantable Cardioverter Defibrillators: Final Results of The MagnaSafe Registry
Mark Link, Boston, MA

*8:34* Panel Discussion

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**Ask the Experts**

**Beyond the Heart: Medical Comorbidities in Adult Congenital Heart Disease**

**S102bc**
7:30 - 8:45 AM

*Moderators:*
Arwa Saidi, Gainesville, FL
Anitha John, Washington, DC

*7:30* Why Am I Short of Breath? The Pulmonary System in ACHD
Michael Earing, Milwaukee, WI

*7:45* Liver Complications: It’s Not Just the Fontan Anymore
Fred Wu, Boston, MA

*8:00* Chronic Kidney Disease: Evaluating and Managing
Gerhard-Paul Diller, Münster, Germany

*8:15* All About the Blood: Hematologic Issues in Patients with ACHD
Craig Broberg, Portland, OR

*8:30* Sexual Function and Dysfunction in ACHD
Stephen Cook, Pittsburgh, PA

---

**Ask the Experts**

**Don’t Go Rejecting My Heart: Management Considerations in Heart Transplantation**

**S406a**
7:30 - 8:45 AM

*Moderator:*
Mandeep R Mehra, Boston, MA

*7:30* Don’t Be So Sensitive: AMR/Preformed Antibodies
Monica Colvin, Minneapolis, MN

*8:00* Getting That Right Match: Revisiting ABO and HLA
Maria G Crespo-Leiro, La Coruna, Spain

*8:15* Immune Monitoring: Thinking Outside the Box
Jon Kobashigawa, Los Angeles, CA

*8:30* Q&A Discussion

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Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
TUESDAY AM

Ask the Experts

ATE.203.gc

How to Collaborate with Large-Scale Cohorts and Genome Programs

S100c
7:30 - 8:45 AM

Moderators:
Bruce Psaty, Seattle, WA
Myriam Fornage, Houston, TX

7:30 TBD

7:45 How to Collaborate with the UK Biobank
Rory Collins, Oxford, United Kingdom

8:00 How to Collaborate with the Health eHeart Study
Gregory M Marcus, San Francisco, CA

8:15 How to Get Started in Collaborative Science: The Investigator Perspective
Jennifer Wessel, Indianapolis, IN

8:30 How to Collaborate with Large-Scale Genome Consortia
Joshua C Bis, Seattle, WA

Ask the Experts

ATE.405

How to Improve CPR Quality and Resuscitation Performance

S401a
7:30 - 8:45 AM

Moderator:
Mary E Mancini, Arlington, TX

7:30 Defibrillator-Based CPR Feedback to Improve Resuscitation Quality
Tyler Vadeboncoeur, Jacksonville, FL

7:45 Using Simulation to Improve Resuscitation Teamwork
Judith Finn, Perth, Australia

8:00 The Role of Debriefing to Improve Resuscitation Quality
Gavin D Perkins, Warwick, United Kingdom

8:15 CPR Quality: So What Components Matter and How Much?
Sheldon Cheskes, Toronto, ON, Canada

8:30 Q&A Discussion

Ask the Experts

ATE.606

My Best Tips and Tricks for Complex PCI

N228
7:30 - 8:45 AM

Moderators:
John J Lopez, Hinsdale, IL
Anthony Gershlick Esq., Leicester, United Kingdom

7:30 My Best Tricks for Extreme Tortuosity and Calcification
Emmanouil Brilakis, Dallas, TX

7:42 My Best Tricks for Complex Radial Intervention
Stephane Rinfret, Quebec City, QC, Canada

7:54 My Best Tricks for Left Main and Bifurcation Interventions
Thierry Lefevre, Massy, France

8:06 My Best Tricks for Massive Thrombus
Duane Pinto, Boston, MA

8:18 My Best Tricks for CTO Intervention
J Aaron Grantham, Kansas City, MO

8:30 Q&A Discussion

Panel Participants
Robert Yeh, Boston, MA
Sahil Parikh, Cleveland, OH
J Dawn Abbott, Providence, RI

Ask the Experts

ATE.605

New Technologies and Future Horizons in Cardiac Surgery

N227b
7:30 - 8:45 AM

Moderator:
Bradley G Leshnower, Atlanta, GA

7:30 Endovascular Management of Type A Aortic Dissection: An Update
Nimesh D Desai, Philadelphia, PA

7:45 Anastomotic Connectors: Past, Present and Future
Marc P Buijsrogge, Utrecht, Netherlands

8:00 Autologous Tissue-Engineered Heart Valve Replacement: How Close Are We?
John E Mayer, Boston, MA

8:15 Miniaturized LVADs: Ready for Prime Time?
TBD

8:30 Arrhythmia Surgery: The Future
Niv Ad, Falls Church, VA
Cardiovascular Seminar

CVS.109

3D Modeling and Printing: Advances and Potential Clinical Applications

N230a
7:30 - 8:45 AM

Moderator:
Vincent B Ho, Bethesda, MD

7:30
The Why, What and How?
Paul J Wang, Stanford, CA

7:45
Congenital Heart Disease
Shi-Joon Yoo, Toronto, ON, Canada

8:00
Adult Structural Heart Disease
Zhen Qian, Atlanta, GA

8:15
Flow and Hemodynamics
Albert C Lardo, Baltimore, MD

8:30
Future Directions
Frank J Rybicki, Boston, MA

7:45
Implantable Loop Recorder Role in Identifying Stroke Etiology
Alfredo Bardaji-Ruiz, Tarragona, Spain

8:00
Duration of Atrial Fibrillation and Ischemic Stroke Risk
Karen L Furie, Providence, RI

8:15
Is PFO Still Relevant in Workup of Cryptogenic Stroke?
Bijoy K Khandheria, Milwaukee, WI

8:30
Risk Stratification for Cryptogenic Stroke to Guide Anticoagulation Therapy and Long-Term Monitoring
Maarten G Lansberg, Palo Alto, CA

Cardiovascular Seminar

CVS.108

Advanced Techniques and Applications in CT and MRI

N231
7:30 - 8:45 AM

Moderator:
Gregory Kicska, Seattle, WA

7:30
Role of Epigenetics During Cardiac Morphogenesis and Growth
Ching-pin Chang, Indianapolis, IN

7:45
Vascular Remodeling, Atherosclerosis and Epigenetics
J W Jukema, Leiden, Netherlands

8:00
Epigenetic Features in Cardiac Hypertrophy
Roger Foo, Singapore, Singapore

8:15
Epigenomic Signature and Gene Expression in Heart Failure Induced Pressure Overload
Cinzia Perrino, Naples, Italy

8:30
Q&A Discussion

Cardiovascular Seminar

CVS.412

Beyond the Genomic Paradigm: Epigenetic Modifications in Cardiovascular Disease

S101
7:30 - 8:45 AM

Moderator:
Roger Foo, Singapore, Singapore

7:30
Pharmacogenetics Versus Other Biomarkers to Guide Clopidogrel Therapy
Jessica L Mega, Boston, MA

7:45
Pharmacogenetics Versus Traditional Strategies for Warfarin Dosing
Larisa Cavallari, Gainesville, FL

8:00
Pharmacogenetics for Transplant Medications: Better than Serum Drug Concentrations?
David Lanfear, Detroit, MI

Cardiovascular Seminar

CVS.717

Challenges and Opportunities in Personalized Medicine

S104
7:30 - 8:45 AM

Moderator:
Julie A Johnson, Gainesville, FL

7:30
Pharmacogenetics Versus Other Biomarkers to Guide Clopidogrel Therapy
Jessica L Mega, Boston, MA

7:45
Pharmacogenetics Versus Traditional Strategies for Warfarin Dosing
Larisa Cavallari, Gainesville, FL

8:00
Pharmacogenetics for Transplant Medications: Better than Serum Drug Concentrations?
David Lanfear, Detroit, MI
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<td>Traditional Monitoring Versus Pharmacogenetics for Predicting Adverse Effects with Statins</td>
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<td>Q&amp;A Discussion</td>
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<td>Panel Participant</td>
<td>Sanjay Misra, Mayo Clinic, Rochester, MN</td>
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<td>8:30</td>
<td>Panel Participant</td>
<td>Michael S Conte, UCSF Medical Ctr, San Francisco, CA</td>
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### Cardiovascular Seminar

**CVS.313**

**Challenges in Detection of Congenital Heart Disease by Fetal Echocardiography**

- S102d
  - 7:30 - 8:45 AM
  - Moderators: Michele Frommelt, Milwaukee, WI; Mary T Donofrio, Washington, DC
  - 7:30 Preclinical Nutrition, Vitamins, Toxins: Preventing CHD Before It Starts
    Shabnam Peyvandi, San Francisco, CA
  - 7:45 Pitfalls and Errors in the Fetal Diagnosis of Congenital Heart Disease
    Wayne Tworetzky, Boston, MA
  - 8:00 Cost-Effectiveness of Prenatal Diagnosis of Congenital Heart Disease
    Nelangi Pinto, Salt Lake City, UT
  - 8:15 Innovative Therapies for Fetal Arrhythmia Therapies: Medical and Interventional
    John Simpson, London, United Kingdom
  - 8:30 Perinatal Management and Outcomes of Fetuses with Congenital Heart Disease
    Anita Moon-Grady, San Francisco, CA

### Cardiovascular Seminar

**CVS.714**

**Coronary Artery Spasm: Revisited in Cardiovascular Medicine**

- S105abc
  - 7:30 - 8:45 AM
  - Moderator: Noel Bairey-Merz, Los Angeles, CA
  - 7:30 Importance of Coronary Artery Spasm in Cardiovascular Medicine
    Hiroaki Shimokawa, Sendai, Japan
  - 7:45 Coronary Artery Spasm in the Era of Coronary Intervention
    Udo Sechtem, Stuttgart, Germany
  - 8:00 Coronary Slow Flow Phenomenon and Coronary Artery Spasm
    John Beltrame, Adelaide, Australia

### Cardiovascular Seminar

**CVS.613**

**Clinical Trials in PAD**

- N226
  - 7:30 - 8:45 AM
  - Moderators: Joshua A Beckman, Boston, MA; Sanjay Misra, Rochester, MN
  - 7:30 ERASE and CLEVER: What Have We Learned About Supervised Exercise?
    Mary McDermott, Chicago, IL
  - 7:42 Drug Elution in the Periphery: Zilver PTX, DEBATE-BTK and more
    Christopher D Owens, San Francisco, CA
  - 7:54 CLI:BEST and BASIL-2: Will They Help Define Optimal Treatment?
    Matthew Menard, Boston, MA
  - 8:06 Update on Stem Cell Trials in PAD
    Mark R Nehler, Aurora, CO
  - 8:18 Antithrombotic Therapy: Is There a Role?
    Jeffrey Berger, New York, NY
  - 8:30 Q&A Discussion
### Cardiovascular Seminar

**CVS.715**

**Extracellular Vesicles, Exosomes and Microparticles in Cardiovascular Disease**

**S103d**
7:30 - 8:45 AM

**Moderator:**
Elena Aikawa, Boston, MA

- **7:30** Role of Microvesicles in Cardiovascular Calcification
  Elena Aikawa, Boston, MA

- **7:45** Cell-Derived Microvesicles in Atherosclerosis
  Chantal Boulanger, Paris, France

- **8:00** Cellular Phenotype Switching and Microvesicles
  Peter J Quesenberry, Providence, RI

- **8:15** Microparticles Are Novel Effectors of Immunity
  Jesmoud P Dalli, Boston, MA

- **8:30** Role of Leukocyte-Derived Microvesicles in Activation of Coagulation in Patients with Hyperlipidemia
  Nigel Mackman, Chapel Hill, NC

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### Cardiovascular Seminar

**CVS.516**

**Gene-Based Therapies for Heart Failure**

**S404bcd**
7:30 - 8:45 AM

**Moderator:**
Patrick Most, Heidelberg, Germany

- **7:30** Neutralizing Antibodies as Barriers for Effective Gene Therapy in the Heart
  Thomas Weber, New York, NY

- **7:45** Design of Novel AAV Vectors
  Joseph Rabinowitz, Philadelphia, PA

- **8:00** Modified RNA
  Lior Zangi, Boston, MA

- **8:15** Transcriptional Control in Gene Transfer
  Christian Kupatt, Munich, Germany

- **8:30** Clinical Trials in Gene Therapy
  Roger Hajjar, New York, NY

---

### Cardiovascular Seminar

**CVS.219**

**Global Health Impact of PAD**

**S504**
7:30 - 8:45 AM

**Moderator:**
Alan T Hirsch, Minneapolis, MN

- **7:30** The Growing Burden of PAD in the Developing World
  Francis G R Fowkes, Edinburgh, United Kingdom

- **7:45** Creating a Global Multidisciplinary Approach to Cardiovascular Risk Reduction with PAD
  Michael H Criqui, La Jolla, CA

- **8:00** Opportunities for Providers to Have an Impact on the Global Burden of PAD
  Alan T Hirsch, Minneapolis, MN

- **8:15** WHO Priorities for Cardiovascular Disease: Where Does PAD Fit?
  Victor Aboyans, Limoges, France

- **8:30** Q&A Discussion
**Cardiovascular Seminar**

**CVS.716**

**Glycobiology of Cardiovascular Disease**

**S103bc**

7:30 - 8:45 AM

**Moderator:**

Muredach Reilly, Philadelphia, PA

7:30

**Glycomics in Development and Disease**

Katrine Ter-Borch Gram Schjoldager, Copenhagen, Denmark

7:45

**Human O-glycosylation in Regulation of Lipids and Vasculature**

Daniel J Rader, Philadelphia, PA

8:00

**Platelet Glycomics**

Karin Hoffmeister, Boston, MA

8:15

**The Glycogenome in Cardiovascular Disease**

Muredach Reilly, Philadelphia, PA

8:30

**O-Linked Protein Glycosylation in the Pathogenesis of Vascular Disease**

Yabing Chen, Birmingham, AL

---

**Cardiovascular Seminar**

**CVS.107**

**Go with the Flow: Cardiac Perfusion Imaging**

**N230b**

7:30 - 8:45 AM

**Moderator:**

Richard George, Baltimore, MD

7:30

**FFRCT: How Good Will It Be?**

Jonathon Leipsic, Vancouver, BC, Canada

7:45

**Adenosine Stress/Rest CT**

Ricardo C Cury, Miami, FL

8:00

**MR Imaging of Perfusion**

Pamela Woodard, St Louis, MO

8:30

Q&A Discussion

---

**Cardiovascular Seminar**

**CVS.514**

**Heart Failure in an Accountable Era**

**S404a**

7:30 - 8:45 AM

**Moderator:**

David Aguilar, Houston, TX

7:30

**Following the Yellow Brick Road: Heart Failure Guidelines**

Gregg C Fonarow, Los Angeles, CA

7:45

**Cost-Effectiveness with Shared Care**

Larry A Allen, Aurora, CO

---

**Cardiovascular Seminar**

**CVS.220**

**Impact of the Intestine on Metabolic and Cardiovascular Disease**

**S503**

7:30 - 8:45 AM

**Moderators:**

Ryan E Temel, Lexington, KY

Harry R Davis, Gaithersburg, MD

7:30

**The Gut Microbiome as Novel Cardiometabolic Target**

J Mark Brown, Cleveland, OH

7:45

**Live Imaging of Subcellular Lipid Transport and Storage Using Larval Zebrafish: A Study with Guts**

Steven Farber, Baltimore, MD

8:00

**Diet1 Functions in the FGF15/19 Enterohepatic Signaling Axis to Modulate Bile Acid and Lipid Levels**

Karen Reue, Los Angeles, CA

8:15

**Gastric Bypass and Metabolic Reprogramming**

Nicholas Stylopoulos, Boston, MA

8:30

Q&A Discussion

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**Cardiovascular Seminar**

**CVS.515**

**MicroRNAs as Therapies, Biomarkers and Theragnostics**

**S406b**

7:30 - 8:45 AM

**Moderator:**

Leon J De Windt, Maastricht, Netherlands

7:30

**MicroRNAs as Therapeutic Targets for Heart Disease**

Eva van Rooij, Utrecht, Netherlands

7:45

**The Emerging Role of MicroRNAs as Heart Failure Biomarkers**

Douglas Mann, St Louis, MO

8:00

**The Emerging Role of MicroRNAs in Cardiovascular Diseases**

Mark Mercola, La Jolla, CA

8:15

**Theragnostics-miR Profiling for Predicting Heart Failure Therapeutic Response**

Thomas Thum, Hannover, Germany
**Tuesday, November 18 • Chicago, Illinois**

### Cardiovascular Seminar

#### CVS.218

**Routine Testing in Peripheral Arterial Disease**

**S505**

7:30 - 8:45 AM

**Moderator:**

Dharam J Kumbhani, Dallas, TX

7:30 **Screening for Asymptomatic Coronary Artery Disease and CVD in Patients with PAD**

Dharam J Kumbhani, Dallas, TX

7:45 **Role of ABI Testing in the General Population**

Aruna Pradhan, Boston, MA

8:00 **Routine Follow-up Following Lower-Extremity Endovascular Procedures**

Piotr Sobieszczyk, Boston, MA

8:15 **Carotid US in a Patient with a Carotid Bruit**

TBD

8:30 **Q&A Discussion**

#### CVS.311

**Mitochondrial Dysfunction and Metabolic Alterations in Cardiovascular Disease**

**S102a**

7:30 - 8:45 AM

**Moderators:**

Miguel A Aon, Baltimore, MD

Charles Hoppel, Cleveland, OH

7:30 **Mitochondrial Dysfunction and mtDNA Damage in Atherosclerosis and Metabolic Syndrome**

Martin Bennett, Cambridge, United Kingdom

7:49 **Metabolic Impairment in Diabetic Cardiomyopathy**

Mark Cole, Nottingham, United Kingdom

8:08 **Mitochondrial Defects in Peripheral Arterial Disease**

Iraklis Pipinos, Omaha, NE

8:27 **Role of Sirtuin Proteins on Mitochondrial Function During Heart Failure**

Masaya Tanno, Sapporo, Japan

#### CVS.410

**Nonsustained Ventricular Tachycardia: New Insights for Risk Stratification and Management**

**S401bcd**

7:30 - 8:45 AM

**Moderator:**

Rajat Deo, Philadelphia, PA

7:30 **Nonsustained VT in the Apparently Normal Heart**

Demosthen Katritsis, Athens, Greece

7:45 **Nonsustained VT on Pacemaker and ICD Interrogation**

Jeanne Poole, Seattle, WA

8:00 **Nonsustained VT in Hypertension and Hypertrophy**

Wojciech Zareba, Rochester, NY

8:15 **Nonsustained VT Early After Myocardial Infarction**

Kristen Patton, Seattle, WA

8:30 **Q&A Discussion**

#### CVS.612

**Transitional Care: Does Patient Cognition Affect Outcome?**

**S502**

7:30 - 8:45 AM

**Moderator:**

Ruth Lindquist, Minneapolis, MN

7:30 **What Are Transitions of Care?**

Adrienne Kovacs, Toronto, ON, Canada
TUESDAY AM

7:45  Patients with Heart Failure  
Lisa C Bauer, Madison, WI

8:00  Patients Undergoing Open Heart Surgery  
Barbara Leeper, Dallas, TX

8:15  Patients Undergoing Cardiac Arrest with Therapeutic Hypothermia  
Mary Radomski, Minneapolis, MN

8:30  Patients with Ventricular Assist Devices  
Kristin Sandau, St Paul, MN

8:30  Bone Marrow and Clinical Use  
Takayuki Asahara, Kanagawa, Japan

Cardiovascular Seminar
CVS.217

Updates of Cardiovascular Outcomes Trials of Drugs for Diabetes

S501  
7:30 - 8:45 AM

Moderator:  
Mikhail Kosiborod, Kansas City, MO

7:30  Regulation of Drugs for Diabetes: Evolution of the Landscape  
Darren K McGuire, Dallas, TX

7:45  Secondary Observations from SAVOR-TIMI 53 Trial of Saxagliptin  
Benjamin Scirica, Boston, MA

8:00  Secondary Observations from the EXAMINE Trial of Alogliptin  
Christopher P Cannon, Boston, MA

8:15  Secondary Observations from the CANVAS Trial of Canagliflozin  
Bruce Neal, Sydney, Australia

8:30  Lessons Learned from the ALECARDIO Trial of Aleglitazar  
A Michael Lincoff, Cleveland, OH

Cardiovascular Seminar
CVS.517

Use of Progenitor Cells to Improve Cardiac Remodeling

S405  
7:30 - 8:45 AM

Moderator:  
Piero Anversa, Boston, MA

7:30  Cortical Bone-Derived Stem Cells  
Steven R Houser, Philadelphia, PA

7:45  The Role of C-kit in Bone Marrow Cells Transdifferentiation  
Annarosa Leri, Boston, MA

8:00  Bone Marrow Cells and Patient Care  
Douglas Losordo, New York, NY

8:15  Bone Marrow Cells and Hematopoietic Fate  
Charles E Murry, Seattle, WA

Abstract Oral Session
AOS.725.01

Acute and Chronic Coronary Artery Disease: Quality Care and Outcomes

S104  
9:00 - 10:15 AM

Moderators:  
Kumar Dharmarajan, New Haven, CT  
Susannah M Bernheim, New Haven, CT

9:00  Role of Hospital Performance on PCI Measures in Explaining Hospital Variation in 30-Day Risk-Standardized Mortality Rates  
Philip W Chui, Univ of California, Irvine, Medical Ctr, Orange, CA  
Jeptha P Curtis, Yale Sch of Med, New Haven, CT

9:10  Enhancing the Prediction of 30 Day Readmission after PCI Using Unstructured Data Extracted by Semi-Automated Querying of the Electronic Medical Record  
Jason H Wasfy, Massachusetts General Hosp, Boston, MA  
Robert W Yeh, Massachusetts General Hosp, Boston, MA

9:25  Clinical Characteristics and Temporal Trends Among Patients Presenting Late (>12 Hours After Symptom Onset) With ST-Elevation Myocardial Infarction - A Report From the NCDR®  
Praneet K Sharma, Saint Luke’s Mid America Heart Inst, Kansas City, MO  
David J Cohen, Saint Luke’s Mid America Heart Inst, Kansas City, MO

9:40  Evolution of a Regional STEMI Reperfusion Model: More and Earlier Reperfusion but No Improvement in Clinical Outcomes  
Christopher B Fordyce, Univ of British Columbia, Vancouver, BC, Canada  
Graham C Wong, Univ of British Columbia, Vancouver, BC, Canada

9:55  Outcomes After Starting Beta-Blockade Within a Clinically Sensible Period Before Major Elective Noncardiac Surgery  
Duminda N Wijeysundera, Univ of Toronto, Toronto, ON, Canada  
W Scott Beattie, Toronto General Hosp, Toronto, ON, Canada

10:00  Q&A Discussion
Abstract Oral Session

Cardiac Failure and Remodeling

Moderators:
Jean C Bopassa, San Antonio, TX
Arjun Deb, Los Angeles, CA

9:00 β2-Adrenergic Receptor Expression on Hematopoietic Cells is Critical for Survival Following Myocardial Infarction
Laurel A Grisanti, Temple Univ, Philadelphia, PA
Douglas G Tilley, Temple Univ, Philadelphia, PA

9:10 Q&A Discussion

9:15 IL-13Ra1 is Expressed in Myocardial and Vascular Tissue and Mediates the Development of Metabolic Syndrome and Dilated Cardiomyopathy
Uri Amit, Neufeld Cardiac Res Inst and Sheba Ctr for Regenerative Med, Stem Cell, and Tissue Engineering, Sheba Medical Ctr, Tel-Aviv Univ, Tel-Hashomer, Israel
Jonathan Leor, Neufeld Cardiac Res Inst and Sheba Ctr for Regenerative Med, Stem Cell, and Tissue Engineering, Sheba Medical Ctr, Tel-Aviv Univ, Tel-Hashomer, Israel

9:25 Q&A Discussion

9:30 Murc/Cavin-4 Regulates Cardiac Function Through Modulation of Caveolin-3 Function in β-adrenergic Receptor Signaling
Tetsuro Hamaoka, Graduate Sch of Medical Science, Kyoto Prefectural Univ of Med, Kyoto, Japan
Tomomi Ueyama, Graduate Sch of Medical Science, Kyoto Prefectural Univ of Med, Kyoto, Japan

9:40 Q&A Discussion

9:45 Acute Cardiac Dysfunction by Adult-onset Cardiac Myosin Light Chain Kinase Ablation
Michael Massengill, Univ of Florida Coll of Med, Gainesville, FL
Hideko Kasahara, Univ of Florida Coll of Med, Gainesville, FL

9:55 Q&A Discussion

10:00 Uremic Toxins Contribute to Cardiac Fibrosis after Myocardial Infarction: Role of MicroRNAs
Indrajeet Rana, Federation Univ Australia, Ballarat, Australia
Fadi J Charchar, Federation Univ Australia, Ballarat, Australia

10:10 Q&A Discussion

Clinical Advances in Echocardiography of Right Ventricular Function

Moderator:
Rebecca Cogswell, Minneapolis, MN

9:00 Progress in Echocardiography of the Right Ventricle
David Prior, Fitzroy, Australia

9:30 Right Ventricular Global Longitudinal Strain is Correlated With Cardiovascular Magnetic Resonance Ejection Fraction and Provides Prognostic Value in Patients With Arrhythmogenic Right Ventricular Cardiomyopathy
Tetsuari Onishi, Himeji Cardiovascular Ctr, Himeji, Japan
Hiroya Kawai, Himeji Cardiovascular Ctr, Himeji, Japan

9:45 Quantitative Assessment of Mid-Systolic Deceleration and Notching in the Right Ventricular Ejection Doppler Envelope is Useful in Predicting Hemodynamics and Patient Outcomes in Pulmonary Arterial Hypertension
Hiroko Takahama, Mayo Clinic, Rochester, MN
Garvan C Kane, Mayo Clinic, Rochester, MN

10:00 Integrated Assessment of Bi-Ventricular Contractile Reserve Under Dobutamine Stress Offers an Incremental Prognostic Value for Patients With Dilated Cardiomyopathy
Kensuke Matsumoto, Kobe Univ, Kobe, Japan
Ken-ihi Hirata, Kobe Univ, Kobe, Japan

10:10 Q&A Discussion

Congenital Heart Surgery

Moderator:
Emile Bacha, New York, NY

9:00 Center Variability in Timing of Stage 2 Palliation and Association With Intergastrectomy Mortality: A Report From the National Pediatric Cardiology Quality Improvement Collaborative
Garick Hill, Children’s Hosp of Wisconsin, Milwaukee, WI
Peter Bartz, Children’s Hosp of Wisconsin, Milwaukee, WI
9:10 Q&A Discussion
9:15 The Right Ventricular Infundibular Sparing Approach for the Repair of Tetralogy of Fallot Results in Better Intermediate-Term Right Ventricular and Left Ventricular Systolic Function as Assessed by Cardiac MRI
Mary K Olive, Baylor Coll of Med, Houston, TX
Shiraz A Maskatia, Baylor Coll of Med, Houston, TX
9:25 Q&A Discussion
9:30 Tetralogy of Fallot With Hypoplastic Branch Pulmonary Arteries: Aggressive Patch Augmentation Improves Short-Term Geometry but Increases Risk of Late Reinterventions
Travis J Wilder, The Hosp For Sick Children, Toronto, ON, Canada
Edward J Hickey, The Hosp For Sick Children, Toronto, ON, Canada
9:40 Q&A Discussion
9:45 Is the Rastelli Procedure Falsely Maligned?
Mohammed Al-Jughiman, Univ of Toronto, Toronto, ON, Canada
Glen Van Arsdell, Hosp for Sick Children, Toronto, ON, Canada
10:00 Prediction of Imminent Deterioration of Children after Stage I Palliation Using Real-Time Processing of Physiological Data
Craig G Rusin, Baylor Coll of Med, Houston, TX
Daniel J Penny, Baylor Coll of Med, Houston, TX
10:10 Q&A Discussion

Abstract Oral Session

AOS.723.02N
Dickinson W. Richards Lecture: Frontiers in Pulmonary Hypertension Research

S103d 9:00 - 10:15 AM
Moderators:
Evangelos D Michelakis, Edmonton, AB, Canada
Jason Yuan, Chicago, IL

9:00 Dickinson Richards Memorial Lecture
Werner Seeger, Bad Nauheim, Germany

9:30 Adverse Right Ventricular Remodeling by Three Dimensional Echocardiographic Wall Motion Tracking in Pulmonary Hypertension is Associated with Patient Outcomes
Keiko Ryo, Univ of Pittsburgh, Pittsburgh, PA
John Gorcsan, Univ of Pittsburgh, Pittsburgh, PA

9:40 Q&A Discussion

AOS.504.01
Evaluation of Older and Novel Pharmacotherapies

S404bcd 9:00 - 10:15 AM
Moderators:
Sheryl L Chow, Pomona, CA
Amrut Ambardekar, Aurora, CO

9:00 Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial of Once-Daily ZS-9 for Treatment of Hyperkalemia: Achievement and Maintenance of K+ in Subgroup Analysis of Patients with Significant Renal Impairment and Heart Failure
Bhupinder Singh, Apex Res of Riverside, Riverside, CA
Mohamed A El-Shahawy, Academic Medical Res Inst, Los Angeles, CA

9:15 Angiotensin Converting Enzyme Inhibitors and Mortality Benefit in Systolic Heart Failure Patients With Glomerular Filtration Rate <30 ml/min/1.73 m2
Chakradhari Inampudi, Univ of Iowa Hosp and Clinics, Iowa City, IA
Vladimir Cotarlan, Univ of Iowa Hosp and Clinics, Iowa City, IA

9:25 Q&A Discussion
9:30 Systemic Cardiovascular Effects of Intravenous Urocortin 2 and Urocortin 3 in Patients with Heart Failure and Healthy Volunteers
Colin G Stirrat, Univ of Edinburgh, Edinburgh, United Kingdom
David E Newby, Univ of Edinburgh, Edinburgh, United Kingdom

9:40 Q&A Discussion
9:45 Use of Digoxin and Risk of Death or Readmission for Heart Failure: A Nationwide Propensity-score Matched Study
Christian Madelaire, Gentofte Univ Hosp, Hellerup, Denmark
Gunnar H Gislason, Gentofte Univ Hosp, Hellerup, 2900, Denmark
9:55 Q&A Discussion

10:00 Comparative Effectiveness of Torsemide versus Furosemide in Acute Heart Failure Patients: Insights from ASCEND-HF
Robert J Mentz, Duke Univ Medical Ctr, Durham, NC
Christopher M O’Connor, Duke Univ Medical Ctr, Durham, NC
10:10 Q&A Discussion

Abstract Oral Session
AOS.305.04
Genetics and Genomics of Congenital Heart Disease
S102bc
9:00 - 10:15 AM
Moderators:
Seema Mital, Toronto, ON, Canada
Mark Russell, Ann Arbor, MI
9:00 A Mouse Model of Human Congenital Heart Disease: High Incidence of Diverse Cardiac Anomalies, Ventricular Noncompaction and Progressive Atrioventricular Block by Heterozygous Nkx2-5 Homeodomain Missense Mutation
Michelle Melanson, Univ of Florida Coll of Med, Gainesville, FL
Hideko Kasahara, Univ of Florida Coll of Med, Gainesville, FL
9:10 Q&A Discussion

9:15 Linkage of Bicuspid Aortic Valve to a Chromosome 18q Locus is Associated With Aortic Dilation
Lisa J Martin, Cincinnati Children’s Hosp Medical Ctr, Cincinnati, OH
D Woodrow Benson, Medical Coll of Wisconsin, Milwaukee, WI
9:25 Q&A Discussion

9:30 Common Autosomal Variants are Associated With Bicuspid Aortic Valve in Turner Syndrome
Siddharth Prakash, The Univ of Texas Health Science Ctr at Houston, Houston, TX
Dianna M Milewicz, The Univ of Texas Health Science Ctr at Houston, Houston, TX
9:40 Q&A Discussion

9:45 Reduced Expression of scaRNAs Disrupts Spliceosome Function and Heart Development in Zebrafish and Infants with Tetralogy of Fallot
Douglas C Bittel, Children’s Mercy Hosp and Clinics, Kansas City, MO
Naoya Kenmochi, Univ of Miyazaki, Miyazaki, Japan
9:55 Q&A Discussion

10:00 Renin Angiotensin Aldosterone System Genotype in Adults Late After Fontan Palliation
Luke J Burchill, Oregon Health Science Univ, Portland, OR
Rachel M Wald, Toronto Congenital Cardiac Ctr for Adults, Toronto, ON, Canada
10:10 Q&A Discussion

Abstract Oral Session
AOS.204.02S
Kathleen A. Dracup Distinguished Lecture
S502
9:00 - 10:15 AM
9:00 Self-Management Interventions
Shirley M Moore, Cleveland, OH
9:15 An Education Intervention Focused on Self-monitoring for Symptom and Sodium Intake Improves Adherence to the Low Sodium Diet and Health Outcome in Patients with Heart Failure
Eun Kyeung Song, Univ of Ulsan, Ulsan, Republic of Korea
Terry A Lennie, Univ of Kentucky, Lexington, KY
9:25 Q&A Discussion

9:40 A Novel Mobile Phone Delivered Diabetes Prevention Program in Overweight Adults at Risk for Type 2 Diabetes - A Randomized Controlled Trial
Yoshimi Fukuoka, Univ of California, San Francisco, San Francisco, CA
Eric Vittinghoff, Univ of California, San Francisco, San Francisco, CA
9:45 Q&A Discussion

9:55 Effects of an Integrated Self-Care Intervention on Frailty Risk in Persons With Heart Failure and Type 2 Diabetes Mellitus
Brittany Butts, Emory Univ, Atlanta, GA
Sandra Dunbar, Emory Univ, Atlanta, GA
10:00 Q&A Discussion

10:00 A Single Cognitive Behavior Therapy Session Improves Short-Term Depressive Symptoms in Hospitalized Patients with Heart Failure
Rebecca L Dekker, Univ of Kentucky, Lexington, KY
Debra K Moser, Univ of Kentucky, Lexington, KY
10:10 Q&A Discussion
Abstract Oral Session

**AOS.408.01**

**Postarrest Care: Advancing Treatment and Assessment**

S401bcd
9:00 - 10:15 AM

Moderators:
TBD

Hiroshi Nonogi, Shizuoka, Japan

9:00 **Is Early Pci Associated With a Clinical Benefit in Post-cardiac Arrest Patients Without Stemi Pattern? Insights From the Parisian Registry (procot li)**
Florence Dumas, INSERM U970-PARCC- Paris Descartes Univ, Paris, France
Alain Cariou, Cochin Hosp, Paris, France

9:10 Q&A Discussion

9:15 **Underutilization of Invasive Coronary Angiography Post Out of Hospital Cardiac Arrest: is a Paradigm Shift Needed?**
Krishnan Ramanathan, Univ of British Columbia, Vancouver, BC, Canada
Michael E Farkouh, Univ of Toronto, Toronto, ON, Canada

9:25 Q&A Discussion

9:30 **Impact of Time to Return of Spontaneous Circulation on Neuro-protective Effect of Target Temperature Management at 33 and 36 Degrees in Comatose Survivors of Out of Hospital Cardiac Arrest**
Jesper Kjaergaard, Copenhagen Univ Hosp Rigshospitalet, Copenhagen, Denmark
Christian Hassager, Copenhagen Univ Hosp Rigshospitalet, Copenhagen, Denmark

9:40 Q&A Discussion

9:45 **Effect of Different Oxygen Concentrations on Post Resuscitation Myocardial Oxidative Stress and Myocardial Function in a Rat Model of CPR**
Shen Zhao, Weil Inst of Critical Care Med, Rancho Mirage, CA
Wanchun Tang, Weil Inst of Critical Care Med, Rancho Mirage, CA

9:55 Q&A Discussion

10:00 **Validation of the Pittsburgh Cardiac Arrest Category Illness Severity Score**
Patrick J Coppler, Univ of Pittsburgh, Pittsburgh, PA

10:10 Q&A Discussion

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**AOS.605.01**

**Abstract Oral Session**

**Transcatheter Aortic Valve Replacement: Identifying Risk, Optimizing Technique**

N227a
9:00 - 10:15 AM

Moderators:
Joseph Schmoker, Burlington, VT
Helene Eltchaninoff, Rouen, France

**Feasibility and Safety of Balloon Expandable Transcatheter Aortic Valve Implantation With Moderate or No Predilatation**
Yigal Abramowitz, Cedars-Sinai Medical Ctr, Los Angeles, CA
Raj R Makkar, Cedars-Sinai Medical Ctr, Los Angeles, CA

**Q&A Discussion**

**Trends in Complications and Outcomes of Patients Undergoing Transfemoral Transcutaneous Aortic Valve Replacement: Experience from the PARTNER Continued Access Registry**
Nirat Beohar, Mount Sinai Medical Ctr, Miami Beach, FL
Susheel Kodali, Columbia Univ Medical Ctr/ New York Presbyterian Hosp, New York, NY

**Q&A Discussion**

**Impact of Atrial Fibrillation on Clinical Outcomes After Transcatheter Aortic Valve Implantation. Study From the FRANCE 2 Registry**
Romain Chopard, Univ Hosp Jean Minjoz, Besancon, France
Francois Schiele, Univ Hosp Jean Minjoz, Besancon, France

**Q&A Discussion**

**Atherosclerosis Burden of the Aortic Valve and Aorta and Risk of Acute Kidney Injury After Transcatheter Aortic Valve Implantation**
Philipe van Rosendael, Leiden Univ Medical Ctr, Leiden, Netherlands
Victoria Delgado, Leiden Univ Medical Ctr, Leiden, Netherlands

**Q&A Discussion**

**Aorta Atheroma Burden Predicts Acute Cerebrovascular Events after Transcatheter Aortic Valve Implantation: Insights from Volumetric Multislice Computed Tomography Analysis**
Yu Kataoka, South Australian Health & Medical Res Inst, Adelaide, Australia
Stephen G Worthley, South Australian Health & Medical Res Inst, Adelaide, Australia

10:10 Q&A Discussion
Tuesday, November 18  •  Chicago, Illinois

**Cardiovascular Seminar**

**Using Big Data for Postmarket Surveillance of Drugs and Devices**

S100c  
9:00 - 10:15 AM

**Moderators:**  
Nihar Desai, New Haven, CT  
Joe Ross, New Haven, CT

9:00  
**Surveillance Tools to Detect Bleeding Events with NOACs**  
Alan S Go, Oakland, CA

9:20  
**Monitoring Device Safety in Cardiovascular Medicine/Interventional Cardiology**  
Frederic Resnic, Burlington, MA

9:40  
**Using Big Data for Post-Market Surveillance of Medical Devices**  
Richard E Kuntz, Minneapolis, MN

10:00  
**Q&A Discussion**

**Joint Sessions**

**Joint AHA/InterAmerican Society of Cardiology: New Guidelines—New Wine in Old Wineskins or Old Wine in New Wineskins?**

SS04  
9:00 - 10:15 AM

**Moderators:**  
Marcia M Barbosa, Belo Horizonte, Brazil  
Mariell Jessup, Philadelphia, PA

9:00  
**North American Perspective on New Guidelines for the Assessment of Cardiovascular Risk**  
Donald M Lloyd-Jones, Chicago, IL

9:15  
**The Latin American Perspective on New Guidelines for the Assessment of Cardiovascular Risk**  
Fernando T Lanas, Temuco, Chile

9:30  
**A North American View on the Current State of Hypertension Guidelines**  
Robert Carey, Charlottesville, VA

9:45  
**A Latin American View on the Current State of Hypertension Guidelines**  
Álvaro Avezum, São Paulo, Brazil

10:00  
**New Guidelines: New Wine in Old Wineskins or Old Wine in New Wineskins?**  
Sidney C Smith, Chapel Hill, NC

**Joint Sessions**

**Joint AHA/American Association of Physicians of Indian Origin Session: Cardiovascular Disease Among Asian Indians**

S503  
9:00 - 10:15 AM

**Moderators:**  
Jayesh Shah, Oak Brook, IL  
Vemuri S Murthy, Park Ridge, IL

9:00  
**Coronary Artery Disease in Asian Indians: An Overview**  
Navin C Nanda, Birmingham, AL

9:15  
**Cardiovascular Disease Prevention**  
Enas A Enas, Lisle, IL

9:30  
**Innovations in Delivering High-Quality and Affordable Hospital-Based Cardiovascular Care in India**  
Radha J Sarma, Pomona, CA

9:45  
**Cardiovascular Quality Improvement in Kerala State (India): Challenges and Opportunities**  
Mark Huffman, Chicago, IL

10:00  
**Rheumatic Heart Disease and Its Sequelae in Indians**  
H K Chopra, India

**Joint Sessions**

**Joint AHA/American Society of Hypertension Session: Can We Identify Response Markers to Antihypertensive Drugs?**

S103a  
9:00 - 10:15 AM

**Moderators:**  
Domenic Sica, Richmond, VA  
Joseph Izzo, Buffalo, NY

9:15  
**Effect of Age and Gender on the Blood Pressure – Lowering Effect of Antihypertensive Drugs**  
John B Kostis, New Brunswick, NJ

9:30  
**Effect of Biomarkers on the Drug-Class Blood Pressure Response**  
Daniel Duprez, Minneapolis, MN

9:45  
**Environmental and Behavioral Factors Affect the Individual Blood Pressure Response of Antihypertensive Drugs**  
Keith C Ferdinand, New Orleans, LA

10:00  
**Genetics and Antihypertensive Treatment Effect**  
Donna Arnett, Birmingham, AL
TUESDAY AM

Joint Sessions

JS.22

Joint AHA/Association for European Cardiovascular Pathology/Society of Cardiovascular Pathology Session: Sudden Cardiac Death in Young Women

S405
9:00 - 10:15 AM

Moderators:
Allard C van der Wal, Amsterdam, Netherlands
Gaetano Thieme, Padova, Italy

9:00 Sudden Cardiac Death in the Young: Are There Gender-Related Differences?
Cristina Basso, Padova, Italy

9:15 Spontaneous Coronary Artery Dissection
Rajiv Gulati, Rochester, MN

9:30 Arrhythmic Mitral Valve Prolapse
Michael J Ackerman, Rochester, MN

9:45 Sex Differences in Utilization and Response to Implantable Device Therapy
Anne B Curtis, Buffalo, NY

10:00 Channelopathies and Other Inherited Arrhythmogenic Disorders in Young Women
Charles I Berul, Washington, DC

Joint Sessions

JS.20

Joint AHA/Association of Black Cardiologists Session: Intervention in Women, the Elderly and Minorities

S501
9:00 - 10:15 AM

Moderators:
Conrad Smith, Pittsburgh, PA
Olakunle Akinboboye, Rosedale, NY

9:00 AHA/ACC Cardiovascular Risk Factor Prevention Guidelines: Special Considerations for African Americans and Other Special Populations
Kim A Williams, Chicago, IL

9:15 Disparities in Care of Minorities and Patients with Depressed Socioeconomic Status: Implications of the Affordable Care Act
Conrad Smith, Pittsburgh, PA

9:30 A Lifecourse Approach to Disparities
Michelle A Albert, Washington, DC

9:45 Disparities in Biomedical Research
George Mensah, Bethesda, MD

Joint Sessions

JS.12

Joint AHA/Brazilian Society of Cardiology Session: Hypertension Treatment

S103bc
9:00 - 10:15 AM

Moderators:
Angelo A D Paola, São Paulo, Brazil
Raymond Townsend, Philadelphia, PA

9:00 Management of High Blood Pressure
Suzanne Oparil, Birmingham, AL

9:15 Facing the Dilemma of Prehypertension
Flávio D Fuchs, Porto Alegre, Brazil

9:30 What Is Required to Develop a Novel Antihypertensive Compound
Robson A Santos, Belo Horizonte, Brazil

9:45 An Update on Resistant Hypertension: From Epidemiology to Clinical Approach
Raymond Townsend, Philadelphia, PA

10:00 State of the Art in Renal Sympathetic Denervation and Future Directions
Sanjay Misra, Rochester, MN

Joint Sessions

JS.18

Joint AHA/Heart Failure Society of America Session: Heart Failure in Cancer Patients and Survivors

S406a
9:00 - 10:15 AM

Moderators:
JoAnn Lindenfeld, Denver, CO
Richard Steingart, New York, NY

9:00 Long-Term Cancer Care and Cardiomyopathies
Edward TH Yeh, Houston, TX

9:15 Cardiotoxicities Associated with Long-Term Angiogenesis Inhibitors
Javid J Moslehi, Nashville, TN

9:30 Imaging in the Evaluation and Early Detection of Cardiomyopathy
Jose Banchs, Houston, TX

9:45 The Cardio-Oncology Clinic
Jean-bernard Durand, Houston, TX

10:00 Q&A Discussion
**Joint Sessions**

**JS.25**

**Joint AHA/Heart Rhythm Society Session: Prevention of Atrial Fibrillation**

*S402*

9:00 - 10:15 AM

**Moderators:**
- David R Van Wagoner, Cleveland, OH
- David A Lathrop, Bethesda, MD

9:00 **Prefibrillatory Conditions as a Target for Preventive Interventions**
- Nipavan Chiamvimonvat, Davis, CA

9:15 **Can Lifestyle/Diet Modifications Reduce the Risk and/or Burden of AF?**
- Lee Eckhardt, Madison, WI

9:30 **Advancing AF Prevention via Patient-Centered, Web-Based Research**
- Jeffrey Olgin, San Francisco, CA

9:45 **Using Registries to Enhance Secondary Prevention of AF**
- Jonathan P Piccini, Durham, NC

10:00 **Innovative Approaches to Advance Stroke Prevention in AF**
- Stefan H Hohnloser, Frankfurt, Germany

**JS.15**

**Joint AHA/Israel Heart Society Session: Advances in Acute Coronary Syndromes**

*N226*

9:00 - 10:15 AM

**Moderators:**
- Robert Harrington, Stanford, CA
- Yoseph Rozenman, Holon, Israel

9:00 **Lessons Learned from the ACC-AHA Guidelines on Acute Coronary Syndromes**
- Jeffrey Anderson, Murray, UT

9:15 **New Insights in the Interventional Approaches to the Patient with ACS**
- Harold Dauerman, Burlington, VT

9:30 **Ten-Year Trend and Guideline Implementation in Treating Patients with ST-Elevation Acute Coronary Syndrome**
- Amit Segev, Tel Hashomer, Israel

9:45 **Barriers to the Use of Recommended Novel Antiplatelets in Patients with Non-ST-Elevation Acute Coronary Syndrome**
- Shlomi Matetzky, Israel

10:00 **Q&A Discussion**

**JS.26**

**Joint AHA/Japanese Circulation Society Session: Use of ES/iPS Cells for Cardiovascular Medicine**

*S101*

9:00 - 10:15 AM

**Moderators:**
- Keiichi Fukuda, Tokyo, Japan
- Charles E Murry, Seattle, WA

9:00 **Clinical Application of Induced Pluripotent Stem Cells for Heart Failure Treatment: Potentials, Progress, and Obstacles**
- Jun Fuji, Tokyo, Japan

9:15 **Multiple Approaches for Cardiac Regeneration Using Pluripotent Stem Cells**
- Jun Yamashita, Kyoto, Japan

9:30 **Human iPS Cells to Model Barth Syndrome**
- William Pe, Boston, MA

9:45 **Human iPS Cells as Models of Heart Disease: What Have They Taught Us?**
- Joseph C Wu, Stanford, CA

10:00 **Q&A Discussion**

**JS.16**

**Joint AHA/Korean Society of Cardiology Session: What Should We Learn from Basic and Clinical Studies to Control Cardiovascular Disease**

*S505*

9:00 - 10:15 AM

**Moderators:**
- Robert H Eckel, Aurora, CO
- Dong Joo Oh, Seoul, Republic of Korea

9:00 **What Is the Global Burden of Cardiovascular Disease?**
- Salim Yusuf, Hamilton, ON, Canada

9:15 **Statin-Based Combination Therapy for Prevention for Cardiovascular Events**
- Kwang Koh, Incheon, Republic of Korea

9:30 **Novel Developments in Understanding Left Ventricular Remodeling: Imaging and Interventions**
- Scott D Solomon, Boston, MA

9:45 **KorAHF Registry: Current Management of Acute Heart Failure in Korea**
- Dong-Ju Choi, Seongnam, Republic of Korea

10:00 **Q&A Discussion**

10:00 **Panel Participants**
- Marc Pfeffer, Brigham & Women’s Hosp, Harvard, Boston, MA
Plenary

PS.05

Current Controversies in Coronary Revascularization

North Hall B
9:00 - 10:15 AM

Moderators:
Patrice Delafontaine, New Orleans, LA
Thomas Gleason, Pittsburgh, PA

9:00 Identification of Vulnerable Plaque: Is This Still a Goal?
Patrick W Serruys, Rotterdam, Netherlands

9:15 Diabetes and Coronary Artery Disease: Is PCI Still an Option?
Marie Morice, Massy, France

9:30 Measuring Ischemia to Determine Revascularization: Anatomy, Physiology and Current Tools
William Fearon, Stanford, CA

9:45 PCI for STEMI: Radials, Thrombectomy and Multivessel CAD—Has the State of the Art Changed?
Stefan K James, Uppsala, Sweden

10:00 Medical Therapy, PCI and CABG for Coronary Artery Disease: Perspectives of the Patient, Provider and Payers
David Cohen, Kansas City, MO

Special

SS.07

Weighty Matters: The Obesity Paradox and the Heart

S100ab
9:00 - 10:15 AM

Moderators:
JoAnn E Manson, Boston, MA
Paul Poirier, Quebec City, QC, Canada

9:00 Association of Weight Status with All-Cause Mortality
Mercedes Carnethon, Chicago, IL

9:15 Importance of Age and Cohort Factors on the Impact of Obesity and Mortality
Francisco Lopez-Jimenez, Rochester, MN

9:30 The Impact of Obesity from a Global Perspective
JoAnn E Manson, Boston, MA

9:45 Fitness, Fatness and the Obesity Paradox
Carl Lavie, New Orleans, LA

10:00 Interventions in Obesity: Nonpharmacologic, Drugs and Surgery
Quinn R Pack, Springfield, MA

Maintenance of Certification

MOC.04


S105d
9:00 - 11:00 AM

Moderators:
William Mahle, Atlanta, GA
Sarah Tabbutt, San Francisco, CA
Bradley Marino, Chicago, IL
Abstract Poster Session

APS.602.06
A Spectrum of Interventional Insights: Coronary Interventions, Intracoronary Imaging and Aortic Valve Replacement

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Alaide Chieffo, Milan, Italy

6086
Placement of Proximal Edge on TCFA and Calcification Correlates With Inadequate Neointimal Coverage of Struts After Drug Eluting Stent Implantation
Tomoya Ueda, Nara Medical Univ, Nara, Japan
Yoshikuni Saito, Nara Medical Univ, Nara, Japan

6087
Cumulative Effect of Lesion Morphology and Location on the Functional Significance in Patients With Intermediate Stenotic Coronary Lesions
Hiroaki Takashima, Aichi Medical Univ, Nagakute, Japan
Tetsuya Amano, Aichi Medical Univ, Nagakute, Japan

6088
Comparison of Three-Dimensional and Two-Dimensional Quantitative Coronary Angiography and Intravascular Ultrasound for the Functional Assessment of Coronary Lesions
Takeshi Nishi, Chiba Univ, Chiba, Japan
Yoshio Kobayashi, Chiba Univ, Chiba, Japan

6089
Measuring the Sinuses of Valsalva and Left Ventricular Outflow Tract by Cardiac Computed Tomographic Angiography: Incremental Value for Sizing the Valve for Transcatheter Aortic Valve Replacement?
Nina Rashedi, Univ of Washington, Seattle, WA
Creighton Don, Univ of Washington, Seattle, WA

6090
Gender Differences in Patients Undergoing Transcatheter Aortic Valve Replacement: a Single Center Experience
Josephine L Warren, The Icahn Sch of Med at Mount Sinai, New York, NY
Annapoorna S Kini, Mount Sinai Hosp, New York, NY

6091
New Onset Atrial Fibrillation After Transcatheter Aortic Valve Implantation: A Pooled Meta-Analysis
Arun Kanthanredddy, The Univ of Kansas Medical Ctr, Kansas City, KS
Dhanunjaya Lakireddy, The Univ of Kansas Medical Ctr, Kansas City, KS

Abstract Poster Session

APS.725.01
Acute and Chronic Coronary Artery Disease: Quality Care and Outcomes II

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
TBD

7631
Low Contrast Technique Significantly Reduces Rate of Contrast-induced Nephropathy (CIN)
Alexandre Benjo, Ochsner Medical Ctr, New Orleans, LA
Stephen Ramee, Ochsner Medical Ctr, New Orleans, LA

7632
The Heart Team: Myth Vs. Reality
Charles M Geller, Mount Sinai Beth Israel, New York, NY
Robert F Tranbaugh, Mount Sinai Beth Israel, New York, NY

7633
Going Beyond Patient Satisfaction: Unmet Psychosocial Needs Following Coronary Revascularization
Matthew Manierre, Univ of Delaware, Newark, DE
Steven S Martin, Univ of Delaware, Newark, DE

6092
Transcutaneous Aortic Valve Replacement - Is Anticoagulation Protective?
Anitha Rajamanickam, Mount Sinai Health System, New York, NY
Samin Sharma, Mount Sinai Health System, New York, NY

6093
Portico Stent Durability Driven from Anatomical Assessments of TAVR Patients
Saravana Kumar, St Jude Medical, Plymouth, MN
Kristopher Vietmeier, St Jude Medical, Plymouth, MN

6094
Long Term Outcome of Patients With Complete Revascularization
Jeehoon Kang, Seoul Natl Univ, Seoul, Republic of Korea
Hyo-soo Kim, Seoul Natl Univ, Seoul, Republic of Korea

6095
Improved Angiographic Outcomes With Delayed Stenting Compared With Immediate Stenting for Acute Myocardial Infarction. Evidence From a Meta-analysis
Ramez Nairooz, Univ of Arkansas for Medical Sciences, Little Rock, AR
Srihari S Naidu, Winthrop Univ, Mineola, NY
Tuesday, November 18 • Chicago, Illinois

7634 Improved Outcomes with IT-enabled Care Management Following Coronary Revascularization
Daniel J Elliott, Christiana Care Health System, Newark, DE
Roger Kerzner, Christiana Care Health System, Newark, DE

7635 Establishing a Prehospital Protocol for Local Emergency Services Improves Symptom Onset-to-Balloon Time in Patients With ST-Segment Elevation Myocardial Infarction
Dawn A Brester, Aurora BayCare Medical Ctr, Green Bay, WI
Katie Sahajpal, American Heart Association, Milwaukee, WI

7636 Cardiac Catheterization Lab Activations for ST-Segment Elevation Myocardial Infarction (STEMI) are Frequently Cancelled at a Major Los Angeles County STEMI-Receiving Center
David Lange, Cedars-Sinai Medical Ctr, Los Angeles, CA
Timothy Henry, Cedars-Sinai Medical Ctr, Los Angeles, CA

7637 Responses to a Pre-PCI Screening Questionnaire Influence Stent Type Used During PCI
Matthew J Chung, Durham Veterans Affairs Medical Ctr, Durham, NC
Ryan D Schulteis, Durham Veterans Affairs Medical Ctr, Durham, NC

7638 Prehospital Electrocardiogram Transmission is Associated With Decreased First Medical Contact to Device Time in a Large Urban Emergency Medical Services System
Christopher Richards, Northwestern Memorial Hosp, Chicago, IL
Gary Schaer, Rush Univ Medical Ctr, Chicago, IL

7639 Rural-Urban Disparities in Emergency Medical Services Utilization for ST-Elevation Myocardial Infarction (STEMI)
Ross F Garberich, Minneapolis Heart Inst, Minneapolis, MN
Timothy D Henry, Cedars-Sinai Heart Inst, Los Angeles, CA

7640 Early Cardiology Assessment and Intervention Reduces Mortality Following Myocardial Injury After Non-Cardiac Surgery (MINS)
Alina Xiu Min Hua, Royal Brompton Hosp, London, United Kingdom
Eric Lim, Royal Brompton Hosp, London, United Kingdom
3222 Long-term Psychosocial Outcomes of Congenital Heart Disease: Neurocognitive Performance, Quality of Life, Psychosocial Adjustment and Psychiatric Morbidity of Adolescents and Young Adults Surviving Their Disease
Maria Emilia G Areias, Insto Superior de Ciências da Saúde - Norte (CESPU), Gandra-Paredes, Portugal
José Carlos Areias, Hosp S João, Porto, Porto, Portugal

Description of Aortic Root Growth and Outcomes in a Cohort of Pediatric Patients with Loeps-Dietz Syndrome
Nitya Viswanathan, Texas Childrens Hosp, Houston, TX
Shaine A Morris, Texas Childrens Hosp, Houston, TX

Abstract Poster Session
APS.603.02
Advanced Cardiac Interventions: Focus on Imaging and Experimental Technology
South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Ik-Kyung Jang, Boston, MA

6111 The Association Between Tissue Morphology Assessed With Optical Coherence Tomography and Mid-term Results After Paclitaxel-coated Balloon Dilatation
Takeshi Tada, Kurashiki Central Hosp, Kurashiki, Japan
Kazuaki Mitsudo, Kurashiki Central Hosp, Kurashiki, Japan

6112 Variation of Utilization of Intravascular Ultrasound and Fractional Flow Reserve in the United States: Influence of Hospital Volume
Neil Patel, Icahn Sch of Med at Mount Sinai, New York, NY
Theodore Schreiber, Detroit Medical Ctr, Detroit, MI

6113 Effect of Endothelial Shear Stress on the Serial Changes of Vein Grafts Assessed by Optical Coherence Tomography during the First Year After Coronary Artery Bypass Graft Surgery: Analysis from the CABG-PRO Study
Anna Kotsia, VA North Texas Healthcare System, Dallas, Texas, USA and Univ of Texas Southwestern Medical, Dallas, TX
Emmanouil Briakis, VA North Texas Healthcare System, Dallas, Texas, USA and Univ of Texas Southwestern Medical, Dallas, TX

6114 Optical Coherence Tomography Identifies Artifactual Thin-cap Fibroatheromas: A Histologic Study
Jennifer E Phipps, Univ of Texas Health Science Ctr San Antonio, San Antonio, TX
Marc D Feldman, Univ of Texas Health Science Ctr San Antonio, San Antonio, TX

6115 Validation Study of the Quantified Frequency Domain Optical Coherence Tomography Analysis for the Detection of Erythrocyte-Rich Thrombus
Yoshitaka Shiratori, Teikyo Univ Hosp, Tokyo, Japan
Takaaki Isshiki, Teikyo Univ Hosp, Tokyo, Japan

6116 Intracoronary Dual-modal OCT/NIRF Structural-Molecular Imaging with a Clinical Dose of Indocyanine Green (ICG) for Detection of High-risk Coronary Plaques in Diabetic Swine Model
Sunwon Kim, Cardiovascular Ctr, Korea Univ Guro Hosp, Seoul, Republic of Korea
Jin Won Kim, Cardiovascular Ctr, Korea Univ Guro Hosp, Seoul, Republic of Korea

6117 Circulating Microrna-145, Microrna-3619 and Microrna-486 Are Associated With In-stent Restenosis
Seok Cheol Lee, Ewha Womans Univ, Seoul, Republic of Korea
Kiwhan Kwon, Ewha Womans Univ Sch of Med, Seoul, Republic of Korea

6118 Drug Eluting Balloon Angioplasty is a Safe Treatment Option for In-stent Restenosis: Meta-analysis of Current Evidence
Sainath Gaddam, Staten Island Univ Hosp, Staten Island, NY
Ruben Kandov, Staten Island Univ Hosp, Staten Island, NY

6119 Three Year Clinical and Imaging Data of the Paclitaxel-Eluting Absorbable Magnesium Scaffold (DREAMS) From the Biosolve-I Study
Michael Haude, Städtische Kliniken-Neuss, Lukaskrankenhaus GmbH, Neuss, Germany
Jacques Koolen, Catharina Ziekenhuis, Eindhoven, Netherlands

6120 Total Left Ventricular Unloading with Impella® during Ischemia Reperfusion Minimizes Infarct Size, Preserves Left Ventricular Function and Prevents Chronic Heart Failure
Takamoro Kakaino, Kyusyu university, Fukuoka, Japan
Kenji Sunagawa, Kyusyu university, Fukuoka, Japan
**Abstract Poster Session**

**Angiogenesis and Arteriogenesis**

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Kumuda Das, Lubbock, TX

7178  **Phenotype-Based High-Content Chemical Library Screening Identifies Small Molecules That Enhance Endothelial Cell Branching and Tubulogenesis**
Ayman Al Haj Zen, Univ of Oxford, Oxford, United Kingdom
Shoumo Bhattacharya, Univ of Oxford, Oxford, United Kingdom

7179  **Micro RNA 221 and 222: An miRNA Cassette With Opposing Effects on Angiogenesis**
Alexis Cunningham, Univ of Virginia, Charlottesville, VA
Brian Annex, Univ of Virginia, Charlottesville, VA

7180  **Angiopoietin-1 Derived From Vascular Smooth Muscle Cells is Essential for Arteriogenesis After Hindlimb Ischemia**
Kuniyasu Ikeoka, Osaka Univ Graduate Sch of Med, Suita, Japan
Yasushi Sakata, Osaka Univ Graduate Sch of Med, Suita, Japan

7181  **Deficiency of Senescence Marker Protein-30 Impairs Collateral Growth by Supressing Nitric Oxide Bioactivity Under Ischemia**
Hiroyuki Yamauchi, Fukushima Medical Univ, Fukushima, Japan
Naoyuki Hasebe, Fukushima Medical Univ, Fukushima, Japan

7182  **Direct Renin Inhibition With Aliskiren Improves Ischemia-Induced Neovascularization**
Michel Desjardins, Univ’ De Montreal, Montreal, QC, Canada
Alain Rivard, Univ’ De Montreal, Montreal, QC, Canada

7183  **MUROC/cavin-4 Aggravates Abdominal Aortic Aneurysm With JNK Overactivation in Vascular Smooth Muscle Cells**
Kotaro Miyagawa, Kyoto Prefectural Univ of Med, Graduate Sch of Medical Science, Kyoto, Japan
Tomomi Ueyama, Kyoto Prefectural Univ of Med, Graduate Sch of Medical Science, Kyoto, Japan

7184  **Ninjurin1, a Novel Regulatory Factor of Pericytes to Interact With Endothelial Cells, Mediates the Circulation Recovery in the Hind Limb Ischemia**
Motoki Matsuki, Asahikawa Medical Univ, Asahikawa, Japan
Naoyuki Hasebe, Asahikawa Medical Univ, Asahikawa, Japan

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**Abstract Poster Session**

**Apoptosis and Necrosis**

**PS.15.01**

**Role of Inositol 1,4,5-Triphosphate Receptor 2 in Post-Ischemic Heart Failure**
Gaetano Santulli, Columbia Univ Medical Ctr - Coll of Physicians & Surgeons, New York, NY
Andrew R Marks, Columbia Univ, New York, NY

**Senescence Marker Protein 30 Protect the Cardiac Injury From After Ischemia Reperfusion**
Shinpei Kadowaki, Yamagata Univ Sch of Med, Yamagata, Japan
Isao Kubota, Yamagata Univ Sch of Med, Yamagata, Japan

**C-Terminal Modifications of Akt Kinase Boost Cellular Responses to Insulin by Inhibiting Activation Loop Dephosphorylation**
Brian Blumhof, Thomas Jefferson Univ, Philadelphia, PA
Raymond Penn, Thomas Jefferson Univ, Philadelphia, PA

---

**Board #**

**Poster Professor:**
Peter M Kang, Boston, MA

5571  **Role of Inositol 1,4,5-Triphosphate Receptor 2 in Post-Ischemic Heart Failure**
Gaetano Santulli, Columbia Univ Medical Ctr - Coll of Physicians & Surgeons, New York, NY
Andrew R Marks, Columbia Univ, New York, NY

5572  **Senescence Marker Protein 30 Protect the Cardiac Injury From After Ischemia Reperfusion**
Shinpei Kadowaki, Yamagata Univ Sch of Med, Yamagata, Japan
Isao Kubota, Yamagata Univ Sch of Med, Yamagata, Japan

5573  **C-Terminal Modifications of Akt Kinase Boost Cellular Responses to Insulin by Inhibiting Activation Loop Dephosphorylation**
Brian Blumhof, Thomas Jefferson Univ, Philadelphia, PA
Raymond Penn, Thomas Jefferson Univ, Philadelphia, PA

5574  **Sex-Specific Cardiomyocyte Death in Heart Failure due to Sex-Specific Calcium Remodeling**
Georgios Karagiannis, Charite Univ Hosp, Berlin, Germany
Vera Regitz-Zagrosek, Charite Univ Hosp, Berlin, Germany
### Accumulation of P62 by Dysregulation of Autophagy Induces Rip1-dependent Necroptosis in Cardiomyocytes: a Novel Interplay Between Autophagy and Necroptosis

Makoto Ogasawara, Sapporo Medical Univ, Sapporo Hokkaido, Japan  
Tetsuji Miura, Sapporo Medical Univ, Sapporo Hokkaido, Japan

### Loss of Mitochondrial UCP3-Cytochrome c Oxidase Complexes Underlies Maladaptive Autophagy and Cardiac Failure in Anthracycline Cardiotoxicity

Lorrie A Kirshenbaum, St Boniface Hosp Res Ctr, Winnipeg, MB, Canada

### Cardiac Myosin Binding Protein C Contributes to the Protection of the Heart During Immune Response to Infection

Giuseppina Dusio, Scott & White Healthcare, Temple, TX  
Carl W Tong, Texas A&M Health Science Ctr, Temple, TX

### Inhibition of Mitochondrial Fission and Cardioprotection: Does Activation of Necroptosis Play a Confounding Role?

Yi Dong, Wayne State Univ Sch of Med, Detroit, MI  
Karin Przyklenk, Wayne State Univ Sch of Med, Detroit, MI

### Activation of TRAF2-NF-κB Signaling suppresses Mitochondrial Perturbations in Doxorubicin Cardiotoxicity

Lorrie A Kirshenbaum, St Boniface Hosp Res Ctr, Winnipeg, MB, Canada

### Early Matrix Metalloproteinase-9 Inhibition Stimulates Neutrophil Infiltration and Delays Neutrophil Apoptosis Post-Myocardial Infarction in Mice

Rugmani Piyer, Univ of Mississippi Medical Ctr and San Antonio Cardiovascular Proteomics Ctr, Jackson, MS  
Merry L Lindsey, Univ of Mississippi Medical Ctr, San Antonio Cardiovascular Proteomics Ctr and G.V (Sonny) Montgomery Veterans Affairs Medical Ctr, Jackson, MS

### Rhythm Control with Catheter Ablation Improves Ejection Fraction Compared to Rate Control: A Meta-Analysis of Randomized Controlled Studies

Ajay Vallakati, MetroHealth Medical Ctr, Cleveland, OH  
William Lewis, MetroHealth Medical Ctr, Cleveland, OH

### Advantages of the Cardiac Isochrone Positioning System for Localization of PVCs to the Endocardium, Epicardium, and Mid-myocardium from a 12 lead ECG

Jeffrey P Gordon, UCLA, Los Angeles, CA  
Peter M van Dam, RadboudMC, Nijmegen, Netherlands

---

### Arrhythmias in Heart Failure and Structural Heart Disease

**South Hall A2 - Core 4**  
**Posters Displayed:** 9:00 AM - 5:00 PM  
**Presenter Available:** 3:00 - 4:30 PM

**Poster Professor:**  
Lee R Goldberg, Philadelphia, PA

**5-year Outcomes After Catheter Ablation in Patients With Atrial Fibrillation and Left Ventricular Systolic Dysfunction**

Thomas Jared Bunch, Intermountain Medical Ctr, Murray, UT  
John D Day, Intermountain Heart Inst, Murray, UT

**Successful Ablation of Ventricular Fibrillation in Malignant Bileaflet Mitral Valve Prolapse Syndrome**

Faisal F Syed, Mayo Clinic Rochester, Rochester, MN  
Michael Ackerman, Mayo Clinic Rochester, Rochester, MN

**Long-term Outcome After Septal Myectomy in Patients With Hypertrophic Cardiomyopathy Presenting With Cardiac Arrest**

Martin Borggrefe, Univ Medical Ctr Mannheim, Mannheim, Germany

**Functional Molecular Imaging Characteristics of Ischemic and Non-Ischemic Scar Substrate and successful VT Ablation Sites using 18F-Fluorodeoxyglucose (FDG) Positron Emission Tomography**

Timm Dickfeld, Univ of Maryland, Baltimore, MD

**Importance of Programmed Stimulation Under Conscious Sedation for Patients Referred for Epicardial Ventricular Tachycardia Ablation**

Babak Nazer, Univ of California San Francisco, San Francisco, CA  
Edward P Gerstenfeld, Univ of California San Francisco, San Francisco, CA

**Rhythm Control with Catheter Ablation Improves Ejection Fraction Compared to Rate Control: A Meta-Analysis of Randomized Controlled Studies**

Ajay Vallakati, MetroHealth Medical Ctr, Cleveland, OH  
William Lewis, MetroHealth Medical Ctr, Cleveland, OH

**Advantages of the Cardiac Isochrone Positioning System for Localization of PVCs to the Endocardium, Epicardium, and Mid-myocardium from a 12 lead ECG**

Jeffrey P Gordon, UCLA, Los Angeles, CA  
Peter M van Dam, RadboudMC, Nijmegen, Netherlands
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<td>4279</td>
<td>Rhythm Control with Catheter Ablation Improves Cardiomyopathy and Heart Failure Compared with Rate Control</td>
<td>Umashankar Lakshmanadas, William Beaumont Hosp, Roayl Oak, MI, Pramod Deshmukh, Guthrie Clinic, Sayre, PA</td>
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<tr>
<td>4280</td>
<td>The Clinical Factors Affecting the Left Ventricular Systolic and Diastolic Functions After Catheter Ablation of Atrial Fibrillation: 1 Year Echocardiography Follow-Up Study</td>
<td>In-Soo Kim, Yonsei Univ Coll of Med, Seoul, Republic of Korea, Hui-Nam Pak, Yonseu Coll of Med, Seoul, Republic of Korea</td>
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<td>4281</td>
<td>Incidence and Correlates of Symptomatic Heart Failure After Pulmonary Vein Isolation</td>
<td>Henry D Huang, Beth Israel Deaconess Medical Ctr, Boston, MA, Mark E Josephson, Beth Israel Deaconess Medical Ctr, Boston, MA</td>
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**Abstract Poster Session**

**APS.404.06**

**ARVD and Brugada Syndrome: Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk Stratification**

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:** Charles Antzelevitch, Utica, NY

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<td>4127</td>
<td>Correlation between Electrocardiographic Features and Local Activation Pattern in Arrhythmogenic Right Ventricular Dysplasia</td>
<td>Tanyanan Tanawuttivat, Johns Hopkins Univ, Sch of Med, Baltimore, MD, Hankrisha Tandri, Johns Hopkins Univ, Sch of Med, Baltimore, MD</td>
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<tr>
<td>4129</td>
<td>Clinical Presentation, Long-Term Follow-Up, and Disease Penetration of Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy in 1001 Patients and Family Members</td>
<td>Judith A Groeneweg, Univ Medical Ctr Utrecht and ICIN-Netherlands Heart Inst, Utrecht, Netherlands, Hugh Calkins, Johns Hopkins Univ Sch of Med, Baltimore, MD</td>
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<tr>
<td>4130</td>
<td>Systematic Approach to Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy Family Screening in a Large Transatlantic Cohort</td>
<td>Anneline S te Riele, Johns Hopkins Univ, Baltimore, MD, Hankrisha Tandri, Johns Hopkins Univ, Baltimore, MD</td>
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<td>4131</td>
<td>Exercise Influences Penetration and Outcomes in Family Members of Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy Patients Carrying a Pathogenic Desmosomal Mutation</td>
<td>Abhishek C Sawant, Johns Hopkins Medical Inst, Baltimore, MD, Cynthia A James, Johns Hopkins Medical Inst, Baltimore, MD</td>
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<td>4132</td>
<td>Risk Stratification of Ventricular Fibrillation in Brugada Syndrome Using Non-invasive Scoring Methods</td>
<td>Hiroshi Kawazoe, Hiroshima Univ, Graduate Sch of Biomedical and Heal, Hiroshima, Japan, Yasuki Kihara, Hiroshima Univ, Graduate Sch of Biomedical and Heal, Hiroshima, Japan</td>
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<td>4133</td>
<td>Antiepileptic Medicines is Associated With Brugada-Type ST Elevation in Patients With Epilepsy</td>
<td>Naruya Ishizue, Kitasato University, Sagamihara, Kanagawa, Japan, Junya Ako, Kitasato university, Sagamihara, Kanagawa, Japan</td>
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<td>4134</td>
<td>Negative Association of H558r Polymorphism and Ventricular Fibrillation in Patients With Brugada Syndrome</td>
<td>Hiroya Matsumura, Hiroshima Univ, Graduate Sch of Biomedical Sciences, Hiroshima, Japan, Yasuki Kihara, Hiroshima Univ, Graduate Sch of Biomedical Sciences, Hiroshima, Japan</td>
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<td>4135</td>
<td>Can Family History of Sudden Death Predict a Risk for Ventricular Fibrillation in Patients With Brugada Syndrome?</td>
<td>Hiroshi Morita, Okayama Univ Graduate Sch of Med, Okayama, Japan, Hiroshi Ito, Okayama Univ Graduate Sch of Med, Okayama, Japan</td>
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<td>4136</td>
<td>Common Variant Near Hey2 as a Protective Modifier of Ventricular Fibrillation in Brugada Syndrome by Modurating QTc Interval</td>
<td>Yukiko Nakano, Hiroshima Univ, Hiroshima, Japan, Yasuki Kihara, Hiroshima Univ, Hiroshima, Japan</td>
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### Abstract Poster Session

**APS.404.11**  
**Atrial Fibrillation: Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk Stratification IV**

- **South Hall A2 - Core 4**
- **Posters Displayed:** 9:00 AM - 5:00 PM
- **Presenter Available:** 9:30 - 11:00 AM

### Abstract Poster Session

**APS.211.04**  
**Behavioral Risk Factors and CVD Risk II**

- **South Hall A2 - Core 2**
- **Posters Displayed:** 9:00 AM - 5:00 PM
- **Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

TBD

**2404**  
**Workplace Digital Health Intervention Improves Cardiovascular Risk Factors Over One Year Dependent Upon Participation**

Robert J Widmer, Mayo Clinic, Rochester, MN  
Amir Lerman, Mayo Clinic, Rochester, MN

**2405**  
**Trans Fat Consumption is Adversely Linked to Memory in Working-Age Adults**

Alexis K Bui, Univ of California San Diego, La Jolla, CA

**2406**  
**Effects of School-Based Interventions on Body Mass Index in Children and Adolescents: a Systematic Overview and Meta-analysis**

Jiyoon J Park, Population Health Res Inst, Hamilton Health Sciences and McMaster Univ, Hamilton, ON, Canada  
Eva Lonn, Population Health Res Inst, Hamilton Health Sciences and McMaster Univ, Hamilton, ON, Canada

**2407**  
**The Association Between Diet Quality After Diabetes Diagnosis and Major Cardiovascular Events in Women With Type 2 Diabetes Mellitus**

Hyun J Shin, Baylor Univ Medical Ctr, Dallas, TX  
Frank B Hu, Harvard Sch of Public Health, Boston, MA

**2408**  
**Relationship of Healthy Diet with Components of Blood Pressure: a Study from the Hispanic Community Health Study/Study of Latinos**

Natalie A Bello, Brigham and Women’s Hosp, Boston, MA  
Susan Cheng, Brigham and Women’s Hosp, Boston, MA

**2409**  
**Electronic Cigarettes Are Effective for Smoking Cessation: Evidence From a Systematic Review and Meta-analysis**

Nicholas R.H Hann, Univ of Melbourne, Melbourne, Australia  
Linda Worrall-Carter, Australian Catholic Univ, Melbourne, Australia

**2410**  
**Assessment of American Heart Association’s Ideal Cardiovascular Health Metrics Among Employees of Large Health Care Organization: the Baptist Health South Florida Employee Study**

Khurrum Nasir, Baptist Health South Florida, Coral Gables, FL  
Arthur Agatston, Baptist Health South Florida, Coral Gables, FL

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**2404**  
**MicroRNAs 196b-5p and 411-5p Are Associated With Post-Operative Atrial Fibrillation**

Menhel Kinno, Univ of Massachusetts, Worcester, MA  
David D McManus, Univ of Massachusetts, Worcester, MA

**2407**  
**Late Stroke Rates After Maze Procedure**

Hiroshi Tsuneyoshi, Kurashiki Central Hosp, Kurashiki, Japan  
Takehi Shimamoto, Kurashiki Central Hosp, Kurashiki, Japan

**2408**  
**Prevalence, Risk Factors and Impact on Mortality of Postoperative Atrial Arrhythmia in Lung Transplant Recipients**

Kongkiet Chaikriangkrai, Houston Methodist Hosp, Houston, TX  
Miguel Valderrabano, Houston Methodist Hosp, Houston, TX

**2409**  
**Atrial Fibrillation: Possible Risk Factor of Senile Pulmonary Fibrosis?**

Caie Wu, Chinese PLA General Hosp, Beijing, China  
Yifang Guo, Chinese PLA General Hosp, Beijing, China

**2410**  
**Prevalence of Atrial Fibrillation in Patient With Celiac Disease**

Deepak J Pattanshetty, Cleveland clinic, Cleveland, OH  
Rama Dilip Gajulapalli, Cleveland clinic, Cleveland, OH
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<td>Prevalence of Traditional Risk Factors and Clinical Outcome of ST Segment Elevation Myocardial Infarction Associated with Cocaine Use</td>
<td>Camilo Gomez, Jackson Memorial Hosp, Miami, FL Alex andre Ferreira, Jackson Memorial Hosp/Univ of Miami, Miami, FL</td>
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<td>2412</td>
<td>Safety and Effectiveness of Dabigatran Relative to Warfarin in Routine Care</td>
<td>John D Seeger, Brigham and Women's Hosp, Boston, MA Sebastian Schneeweiss, Brigham and Women's Hosp, Boston, MA</td>
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<td>2413</td>
<td>In-hospital Management and Outcomes in Patients with Myocardial Infarction and Non-obstructive Coronaries</td>
<td>Rosanna Tavella, The Univ of Adelaide, The Queen Elizabeth Hosp, Adelaide, Australia John Beltrame, The Univ of Adelaide, The Queen Elizabeth Hosp, Adelaide, Australia</td>
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<td>2749</td>
<td>Association Between Sleep Disordered Breathing, Obstructive Sleep Apnea and Incident Cancer: A Systematic Review and Meta-Analysis</td>
<td>Ghanshyam Palamaner Subash Shantha, The Wright Ctr For Graduate Medical Education, Scranton, PA Samir B Pancholy, The Wright Ctr For Graduate Medical Education, Scranton, PA</td>
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<td>APS.217.02h</td>
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<td>Cancer and Cardiovascular Disease</td>
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<td>2745</td>
<td>Outcomes after Coronary Artery Bypass Graft Surgery in Patients Treated with Thoracic Radiotherapy for Cancer</td>
<td>Jackson J Liang, Mayo Clinic, Rochester, MN Gurpreet S Sandhu, Mayo Clinic, Rochester, MN</td>
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<td>2746</td>
<td>Risk Factors for Anthracycline And/or Herceptin-induced Left Ventricular Systolic Dysfunction</td>
<td>Yasmine S Hamirani, Univ of Virginia, Charlottesville, VA Michael Salerno, Univ of Virginia, Charlottesville, VA</td>
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<td>2747</td>
<td>Prevalence of Left Atrial Appendage Thrombus in Oncologic Patients with Atrial Fibrillation</td>
<td>Nada Memon, DCH Regional Medical Ctr, Tuscaloosa, AL Jose Banchs, MD Anderson Cancer Ctr, Houston, TX</td>
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<td>2748</td>
<td>Combined Treatment of the PI3k/mTOR Inhibitor BEZ235 With Doxorubicin Does Not Increase Cardiotoxicity While Improving Efficacy in Breast Cancer Cells</td>
<td>David E Durrant, Virginia Commonwealth Univ, Richmond, VA Rakesh C Kukreja, Virginia Commonwealth Univ, Richmond, VA</td>
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<td>5336</td>
<td>Effects of Conversion to Everolimus With Low-Dose Calcineurin Inhibitors From Mycophenolate Mofetil on Cardiac Allograft Vasculopathy in Maintenance Heart Transplant Recipient: Serial Three-Dimensional Intravascular Ultrasound Analysis at 2 Years</td>
<td>Takuya Watanabe, Nati Cerebral and Cardiovascular Center, Osaka, Japan Takeshi Nakatani, Nati Cerebral and Cardiovascular Center, Osaka, Japan</td>
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<td>5337</td>
<td>Everolimus versus Mycophenolate for Cardiac Transplantation</td>
<td>Saurabh Aggarwal, Chicago Medical Sch, North Chicago, IL Rohit R Arora, Chicago Medical Sch, North Chicago, IL</td>
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<td>5338</td>
<td>Questioning the efficacy of Proliferation Signal Inhibitors for established Coronary Artery Disease after Heart Transplant</td>
<td>Adva Komblit, Cedars-Sina Heart Inst, Los Angeles, CA Jon Kobashigawa, Cedars-Sina Heart Inst, Los Angeles, CA</td>
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<td>5339</td>
<td>Elevated Peak Immune Monitoring Early After Transplantation is Associated with Angiographic Cardiac Allograft Vasculopathy</td>
<td>Richard Cheng, Cedars-Sina Heart Inst, Los Angeles, CA Jon A Kobashigawa, Cedars-Sina Heart Inst, Los Angeles, CA</td>
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<td>5340</td>
<td>Differential Expression of Genes Associated With Cardiovascular Disease in Cardiac Allograft Vasculopathy</td>
<td>Monica Colvin-Adams, Univ of Minnesota, Minneapolis, MN Kenneth Beckman, Univ of Minnesota, Minneapolis, MN</td>
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Tuesday November 18  •  Chicago, Illinois

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TUESDAY AM

5341 Is Brachial Flow-Mediated Dilation the Predictor of Development of Cardiac Allograft Vasculopathy in Recipients With Heart Transplantation?
Takuya Watanabe, Nati cerebral and caridovascular center, Osaka, Japan
Yoshihiro Kokubo, Nati cerebral and caridovascular center, Osaka, Japan

5342 Influence of Donor-Transmitted Lesions on Vessel Remodeling and Plaque Progression in Coronary Artery After Heart Transplant Recipients: Serial Three-Dimensional Intravascular Ultrasound Analysis
Takuya Watanabe, Nati cerebral and caridovascular center, Osaka, Japan
Takeshi Nakatani, Nati cerebral and caridovascular center, Osaka, Japan

5343 Exercise Echocardiography with Speckle-Tracking Derived Strain and Strain-Rate Analysis Allows Detection of Heart Transplant Recipients with Focal Coronary Stenoses
Shwan Hussein, Deutsches Herzzentrum Berlin, Berlin, Germany
Roland Hetzer, Deutsches Herzzentrum Berlin, Berlin, Germany

5344 Is There Cytomegalovirus Disease After Prophylaxis?
Helen C Huang, Cedars-Sinai Heart Inst, Los Angeles, CA
Jon Kobashigawa, Cedars-Sinai Heart Inst, Los Angeles, CA

5345 The Effect of Mechanical Circulatory Support on Cardiac Antibody-Mediated Rejection With Regard to C3d and C4d Depositions
Katharina Wassilew, Deutsches Herzzentrum Berlin, Berlin, Germany
Roland Hetzer, Deutsches Herzzentrum Berlin, Berlin, Germany

5346 Importance of Both Hypothermia and Early Reperfusion on Limiting Myocardial Infarct Size After Ventricular Fibrillation Cardiac Arrest and Acute Coronary Occlusion
Karl B Kern, Univ of Arizona, Tucson, AZ
Mathias Zuercher, Univ of Basel, Basel, Switzerland

5347 Hemodynamic Profile of Prolonged Normothermic, Mild Hypothermic, and Deep Hypothermic Emergency Cardiopulmonary Bypass Reperfusion in Rats
Ingrid AM Magnet, Medical Univ of Vienna, Vienna, Austria
Andreas Janata, Hanusch Hosp, Vienna, Austria

5348 Ultrasound Guided Chest Compressions Over the Left Ventricle During Cardiopulmonary Resuscitation Increases Coronary Perfusion Pressure and Return of Spontaneous Circulation in a Swine Model of Traumatic Cardiac Arrest
Kenton L Anderson, San Antonio Military Medical Ctr, San Antonio, TX
Vikhyat S Bebarta, San Antonio Military Medical Ctr, San Antonio, TX

5349 Electrical Features Associated With the Occurrence of Ventricular Fibrillation in STEMI Patients
Stephen Tang, Cedars-Sinai Medical Ctr, Los Angeles, CA
Sumeet Chugh, Cedars-Sinai Medical Ctr, Los Angeles, CA

5350 Calcium Dose During Resuscitation from Asphyxial Cardiac Arrest in Developing Rats Affects Heart Rate and Blood Pressure but Not Survival
Michael Ricafort, Washington Univ in Saint Louis Sch of Med, Saint Louis, MO
Michael Shoykhet, Washington Univ in Saint Louis Sch of Med, Saint Louis, MO

5351 Hemodynamic Goal Directed Therapy in Comatose Survivors of Cardiac Arrest
Sajid Kadir, UPMC, Pittsburgh, PA
Cameron Dezfulian, UPMC, Pittsburgh, PA

5352 The Relationship Between Estimated Total Ischemic Time and Hospital Survival in Patients Suffering From Out of Hospital Cardiac Arrest
Ryan Gunter, Univ of Texas Health Science Ctr a Houston, Houston, TX
Pratik B Doshi, Univ of Texas Health Science Ctr a Houston, Houston, TX

5353 “Out-Of Hospital Cardiac Arrest Clinical Trials, Relationship Between Clinical Trial Sample Size and the Odds Ratio of Treatment Effect 1978 to the Present”
Katelin M Engerer, Dartmouth Hitchcock Medical Ctr, Lebanon, NH
Norman A Paradis, Dartmouth Hitchcock Medical Ctr, Lebanon, NH

Abstract Poster Session

APS.408.04 Cardiac Arrest Resuscitation from Defibrillation to Temperature Management

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #

Poster Professor:
Dana Edelson, Chicago, IL

4363 Predictors of Survival and Favourable Functional Outcomes Following an Out of Hospital Cardiac Arrest in Patients Systematically Brought to a Dedicated Heart Attack Centre
Charles Ilsley, Royal Brompton and Harefield NHS Fndn Trust, Middlesex, United Kingdom
### Abstract Poster Session

#### Cardiac Failure and Remodeling VI

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<td>5011</td>
<td>Complete Left-Sided Reverse Remodeling in Cardiac Resynchronization Therapy and Clinical Implications: a MADIT-CRT Long-term Follow-up Sub-study</td>
<td>Andrew M Mathias, Univ of Rochester, Rochester, NY Valentina Kutya, Univ of Rochester, Rochester, NY</td>
<td>South Hall A2 - Core 5</td>
<td>Michael Kapiloff, Miami, FL</td>
<td>9:30 - 11:00 AM</td>
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<td>5012</td>
<td>Aging Impairs Cardiac Akt Activity Leading to Myocardial Sarcopenia</td>
<td>Yasuko K Bando, Nagoya Univ., Nagoya Aichi, Japan Toyoaki Murohara, Nagoya Univ., Nagoya Aichi, Japan</td>
<td>South Hall A2 - Core 5</td>
<td>Michael Kapiloff, Miami, FL</td>
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<td>5013</td>
<td>Long-term Intermittent Fasting Treatment Improves Cardiac Function and Inotropic Reserve by Restoration of Cardiac Beta-adrenergic Signaling in an Experimental Model of Chronic Heart Failure</td>
<td>Claudio de Lucia, Univ of Naples “Federico II”, Naples, Italy Giuseppe Rengo, “Salvatore Maugeri” Fndn-IRCCS-inst of Telese Terme, Telese Terme - Benevento, Italy</td>
<td>South Hall A2 - Core 5</td>
<td>Michael Kapiloff, Miami, FL</td>
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#### Abstract Poster Session

#### Cardiac Failure and Remodeling VII

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<td>5031</td>
<td>Soluble Flt-1 Deficiency Plays a Significant Role in the Exacerbation of Cardiac Hypertrophy and Heart Failure</td>
<td>Yukiji Takeda, Nara Medical Univ, Nara, Japan Yoshishiko Saito, Nara Medical Univ, Nara, Japan</td>
<td>South Hall A2 - Core 5</td>
<td>Michael Kapiloff, Miami, FL</td>
<td>9:30 - 11:00 AM</td>
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<td>5032</td>
<td>Therapeutic Administration of IL-2/ Anti-IL-2 Monoclonal Antibody Complexes Enhances Healing After Experimental Myocardial Infarction in Mice</td>
<td>Johannes Weirather, Univ Hosp Wuerzburg, Comprehensive Heart Failure Ctr, Wuerzburg, Germany Stefan Frantz, Univ Hosp Wuerzburg, Comprehensive Heart Failure Ctr, Wuerzburg, Germany</td>
<td>South Hall A2 - Core 5</td>
<td>Michael Kapiloff, Miami, FL</td>
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**APS.501.02** Can We Personalize CPR? Challenges With Hemodynamics, Monitoring, and Pharmacology
Joshua W Lampe, Univ of Pennsylvania, Philadelphia, PA
Lance B Becker, Univ of Pennsylvania, Philadelphia, PA

**APS.501.04** Independent Role of the Priming and Triggering of the NLRP3 Inflammasome in the Heart
Stefano Toldo, Virginia Commonwealth Univ, Richmond, VA
Antonio Abbate, Virginia Commonwealth Univ, Richmond, VA

**APS.501.05** Interleukin-18 Enhances Mitochondrial Function in Pressure Overload through AMP-activated Protein Kinase Activation
Toshihiro Iwasaku, Hyogo Coll of Med, Nishinomiya, Japan
Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan

**APS.501.06** Angiotensin II Type 2 Receptor Regulates Skeletal Myoblast Differentiation: Implications for treatment of Cachexia and Skeletal Muscle Wasting
Tadashi Yoshida, Tulane Univ, New Orleans, LA Patrice Delafontaine, Tulane Univ, New Orleans, LA

**APS.501.07** The Functional Importance of Collagen Deposition for Myocardial Stiffness Differs Between Reactive and Replacement Fibrosis
Constantijn Franssen, WV Univ Medical Ctr Amsterdam, Amsterdam, Netherlands
Walter J Paulus, VU Univ Medical Ctr Amsterdam, Amsterdam, Netherlands

**APS.501.08** Aneurysm-like Remodeling at Left Ventricular Posterobasal Wall Can Predict Cardiac Events in Advanced Heart Failure Patients with Non-ischemic Dilated Cardiomyopathy
Yasuhiro Ichihori, Osaka Univ Graduate Sch of Med, Suita, Japan
Yasushi Sakata, Osaka Univ Graduate Sch of Med, Suita, Japan

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**APS.502.01** Complete Left-Sided Reverse Remodeling in Cardiac Resynchronization Therapy and Clinical Implications: a MADIT-CRT Long-term Follow-up Sub-study
Andrew M Mathias, Univ of Rochester, Rochester, NY
Valentina Kutya, Univ of Rochester, Rochester, NY

**APS.502.02** Aging Impairs Cardiac Akt Activity Leading to Myocardial Sarcopenia
Yasuko K Bando, Nagoya Univ., Nagoya Aichi, Japan
Toyoaki Murohara, Nagoya Univ., Nagoya Aichi, Japan

**APS.502.03** Long-term Intermittent Fasting Treatment Improves Cardiac Function and Inotropic Reserve by Restoration of Cardiac Beta-adrenergic Signaling in an Experimental Model of Chronic Heart Failure
Claudio de Lucia, Univ of Naples “Federico II”, Naples, Italy
Giuseppe Rengo, “Salvatore Maugeri” Fndn-IRCCS-inst of Telese Terme, Telese Terme - Benevento, Italy

**APS.502.04** Pharmacologic Inhibition of the NLRP3 Inflammasome Improves Left Ventricular Dysfunction after Severe Ischemic and Non-Ischemic Injury
Carlo Marchetti, Virginia Commonwealth Univ, Richmond, VA
Antonio Abbate, Virginia Commonwealth Univ, Richmond, VA

**APS.502.05** Hyperamylinemia Exacerbates Sarcolemmal Lipid Peroxidation in Diabetic Hearts
Miao Liu, Univ of Kentucky, Lexington, KY Florin Despa, Univ of Kentucky, Lexington, KY
Tuesday, November 18  •  Chicago, Illinois

5033  TGR5 - a Novel Membrane Receptor for Bile Acids Regulates Myocardial Response to Exercise, Catecholamine and Pressure Overload Induced Stress
Moreshwar S Desai, Baylor Coll of Med, Houston, TX
Daniel J Penny, Baylor Coll of Med, Houston, TX

5034  Hydrogen Sulfide Attenuates Ischemic Heart Failure by Suppressing Pro-Apoptotic Cofilin-2
Khoa Nguyen, Virginia Commonwealth Univ, Richmond, VA
Fadi N Salloum, Virginia Commonwealth Univ, Richmond, VA

5035  Connexin43 Expression Modulation Affects Myofibroblast-Cardiomyocyte Coupling: Implications for Infarct Borderzone Expansion
Francisca Schultz, Imperial Coll London, London, United Kingdom
Julia Gorelik, Imperial Coll London, London, United Kingdom

5036  Myozap-deficiency Inhibits SRF Signaling and Causes Severe Cardiomyopathy in Response to Pathological Biomechanical Stress in vivo
Ashraf Y Rangrez, Univ Medical Ctr Campus Kiel, Kiel, Germany
Norbert Frey, Univ Medical Ctr Campus Kiel, Kiel, Germany

5037  Oxidative Protein Modifications Mediate Mitochondrial Dysfunction in Metabolic Heart Disease: Correction ex vivo and in vivo
Aaron L Sverdlov, Boston Univ Medical Campus, Boston, MA
Wilson S Colucci, Boston Univ Medical Campus, Boston, MA

5038  DMPK E Disrupts Sarcomere Structure by Inhibition of SRF Transcriptional Activity
Ralph J van Oort, Academic Medical Ctr, Amsterdam, Netherlands

5039  Inhibition of Myofibroblast Differentiation by FOXO3a - Implications for Acute Myocardial Infarction and Cardiac Remodeling
Luise Holzhauser, Albert Einstein Coll of Med, Bronx, NY
Carsten Skurk, Charité Univ Med Berlin, Berlin, Germany

5040  Beneficial Effect of miR-25 Decoy Overexpression in a Murine Model of Heart Failure
Dongtak Jeong, Mount Sinai Sch of Med, New York, NY
Roger Joseph Hajjar, Mount Sinai Sch of Med, New York, NY

Abstract Poster Session
Cardiac Failure and Remodeling VIII
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Emily J Tsai, Philadelphia, PA

Transendocardial Stem Cell Injection Site Tissue Viability Predicts Scar Size Reduction in Myocardial Segmental Analysis in a Swine Model of Ischemic Cardiomyopathy
Molly Roy, Univ of Miami, Miami, FL
Alan Heldman, Univ of Miami, Miami, FL

Thyroid Hormone-Regulated Cardiac MicroRNAs May Suppress Pathological Hypertrophic Signaling
Rob Janssen, VU Univ Medical Ctr, Amsterdam, Netherlands
Warner S Simonides, VU Univ Medical Ctr, Amsterdam, Netherlands

Influence of Central Apneas and Chemoreflex Activation on Heart Failure Related Pulmonary Arterial Hypertension
Alberto Giannoni, Fondazione G Monasterio, Pisa, Italy
Claudio Passino, Fondazione G Monasterio, Pisa, Italy

Plasma Amino Acid Profiling Identifies Specific Amino Acid Correlations With Cardiovascular Function in Patients With Systolic Heart Failure: Highlighting the Cardio-Hepatic-Skeletal Muscle Axis
Daihiko Hakuno, Kyoto Univ Hosp, Kyoto, Japan
Takeshi Adachi, Natl Defense Medical Coll, Saitama, Japan

A Paradoxical Rise in Serum Copeptin After Non-Pulsatile LVAD: a New SIADH?
Cara M Statz, Hartford Hosp, Hartford, CT
Detlef Wenczer, Univ of Kansas Medical Ctr, Kansas City, KS

Non-Invasive Wave Intensity Analysis to Assess Ventricular Function in Children With Normal Ejection Fraction
Giovanni Biglino, Univ Coll London, London, United Kingdom
Andrew M Taylor, Univ Coll London, London, United Kingdom

Circulating Soluble ST2 Levels are Independent of Cardiac Production after Acute Myocardial Injury
Vincent Y See, Univ of Maryland Sch of Med, Baltimore, MD
Christopher R deFilippi, Univ of Maryland Sch of Med, Baltimore, MD
Tuesday, November 18  •  Chicago, Illinois

5068  Markedly Elevated Pericardial Fluid Levels of N-terminal Probrain Natriuretic Peptide are Involved in Left Ventricular Systolic Dysfunction with Aortic Stenosis and Ischemic Heart Disease
Shoichi Miyamoto, Kitano Hosp theTazuke Kofukai, Osaka, Japan
Moriaki Inoko, Kitano Hosp theTazuke Kofukai, Osaka, Japan

5069  Circulating Multimarker Profile of Patients with Symptomatic Heart Failure Demonstrates Enhanced Fibrotic Degradation and Reduced Extracellular Matrix Remodeling
Kevin J Morine, Tufts Medical Ctr, Boston, MA
Navin K Kapur, Tufts Medical Ctr, Boston, MA

5070  Is Bilirubin Protective Against Anthracycline-induced Cardiomyopathy?
Trinity Vera, Wake Forest Baptist Medical Canter, Winston Salem, NC
W Gregory Hundley, Wake Forest Baptist Medical Canter, Winston Salem, NC

Abstract Poster Session

APS.510.02  Cardiac Regeneration/Cellular Therapy: Experimental III
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Susmita Sahoo, Chicago, IL

5416  Scalable, Reproducible, and Economical Method for Producing Cardiomyocytes From Human Induced Pluripotent Stem Cells
Masamichi Ito, The Univ of Tokyo, Tokyo, Japan
Atsuhioko Naito, The Univ of Tokyo, Tokyo, Japan

5417  Zebularine Enhances Cardiomyogenic Differentiation Potential of both Mesenchymal Stem Cells and Mature Fibroblasts
Asmat Salim, Intl Ctr for Chemical and Biological Sciences (ICCBS), Karachi, Pakistan

5418  Bone Marrow Characteristics are Associated With Changes in Infarct Size Following STEMI: A Biorepository Evaluation From the CCTRN TIME Trial
Robert C Schutt, Houston Methodist DeBakey Heart & Vascular Ctr, Houston, TX
Doris A Taylor, Texas Heart Inst, St Luke’s Episcopal Hosp, Houston, TX

5419  Lineage Reprogramming of Mouse Fibroblasts to Proliferative and Multipotent Induced Cardiac Progenitor Cells by Defined Factors
Pratik A Lalit, UW-Madison, Madison, WI
Timothy J Kamp, UW-Madison, Madison, WI

5420  SDF-1 Over-Expression Can Correct Adverse Myocardial Repair Associated With Diabetes
Feng Dong, Northeast Ohio Medical Univ, Rootstown, OH

5421  Glutamine Regulates Cardiac Stem Cell Metabolism and Competency
Joshua K Salabej, Univ of Louisville, Louisville, KY
Bradford G Hill, Univ of Louisville, Louisville, KY

5422  A Novel Purification Method for Cardiomyocytes and Endothelial Cells Derived From Human Pluripotent Stem Cells Using Microrna-responsive Messenger Rna
Kenji Miki, Ctr for IPS Res and Application, Kyoto Univ, Kyoto, Japan
Yoshinori Yoshida, Ctr for IPS Res and Application, Kyoto Univ, Kyoto, Japan

5423  Bone Marrow Derived Ixmyelocel-T From Patients With Severe Ischemic Dilated Cardiomyopathy Display Robust Anti-Inflammatory and Pro-Angiogenic Properties
Kelly J Ledford, Aastrom Biosciences, Ann Arbor, MI
Ross Tubo, Aastrom Biosciences, Ann Arbor, MI

5424  Non-viral Direct Reprogramming of Fibroblasts Into a Three Dimensional Vascularized Cardiomiometric Tissue
Jaeyeon Cho, Emory Univ, Atlanta, GA
Young-sup Yoon, Emory Univ, Atlanta, GA

5425  Regenerative Effects of Exosomes Secreted by Cardiospheres in a Rat Model of Chronic Myocardial Infarction Are Mimicked by Exosome-primed Fibroblasts
Eleni Tseliou, Cedars - Sinai Medical Ctr, Los Angeles, CA
Eduardo Marbán, Cedars - Sinai Medical Ctr, Los Angeles, CA

Abstract Poster Session

APS.510.04  Cardiac Regeneration/Cellular Therapy: Experimental IV
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Michael Laflamme, Seattle, WA

5436  Transfer of MicroRNAs From Cardiomyocytes Prevents the Growth of Cancer Cells
Laura Graciotti, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA
Annarosa Leri, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA

5437  Mirta-17-3p Controls Exercise-induced Cardiac Growth
Jing Shi, The First Affiliated Hosp of Nanjing Medical Univ, Nanjing, China
Xiangqing Kong, The First Affiliated Hosp of Nanjing Medical Univ, Nanjing, China
Abstract Poster Session

Cardiac Sodium Channels and Disease

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Hugues Abriel, Bern, Switzerland

Localization of Nav1.5 at the Intercellular Junctions Resolved by Diffraction-Unlimited Microscopy in Three Dimensions and by Correlative Light-Electron Microscopy
Alejandra Leo-Macias, New York Univ, New York, NY
Mario Delmar, New York Univ, New York, NY

Meis1 Transcriptionally Regulates the Expression of NaV1.5 Protein
Ning Wang, David Geffen Sch of Med, UCLA, Los Angeles, CA
Haodong Xu, David Geffen Sch of Med, UCLA, Los Angeles, CA

SIRT1 as a Novel Regulator of Cardiac Na+ Channels: A Potential Therapeutic Target for Arrhythmia
Jin-Young Yoon, Univ of Iowa Coll of Med, Iowa City, IA
Barry London, Univ of Iowa Coll of Med, Iowa City, IA

β-Catenin Interacts with both FoxO1 and TCF-4 to Suppress NaV1.5 Expression after Myocardial Infarction
Ning Wang, David Geffen Sch of Med, UCLA, Los Angeles, CA
Haodong Xu, David Geffen Sch of Med, UCLA, Los Angeles, CA

Modulation of Cardiac Sodium Channel by Palmitoylation and Its Association With Cardiac Disease Mutations
Zifan Pei, Indiana Univ, Indianapolis, IN
Theodore R Cummins, Indiana Univ, Indianapolis, IN

Cardiac-specific Ablation of Synapse-Associated Protein SAP97 in Mice Decreases Potassium Currents but Not Sodium Current
Ludovic Illet, Univ of Bern, Bern, Switzerland
Hugues Abriel, Univ of Bern, Bern, Switzerland

Clinical Significance of Whole Exome Analysis Using Next Generation Sequencing in the Genotype-negative Long-QT Syndrome
Takeshi Aiba, Natl Cerebral and CardioVascular Ctr, Osaka Japan, Suita, Osaka, Japan
Wataru Shimizu, Nippon Medical Sch, Tokyo, Japan
Tuesday, November 18 • Chicago, Illinois

4008 GS-458967, a Selective Late Sodium Current Inhibitor, Prohibits Torsades de Pointes Arrhythmias in the Chronic Atrioventricular Block Dog Model
Alexandre Bossu, Univ Medical Ctr, Heart & Lungs Div, Utrecht, Netherlands
Marc A Vos, Univ Medical Ctr, Heart & Lungs Div, Utrecht, Netherlands

4009 mRNA Stability Hu Proteins Regulate Human Cardiac Sodium Channel Expression
Anyu Zhou, Rhode Island Hosp, Providence, RI
Samuel Dudley, Rhode Island Hosp, Providence, RI

4010 CASK Regulates Sodium Channels Distribution and Function in Costameric Microdomain
Catherine A Eichel, Inserm U1166 - UPMC, Paris, France
Elise Balse, Inserm U1166 - UPMC, Paris, France

Abstract Poster Session
APS.718.02h
Cardiorenal Physiology/Pathophysiology II

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #

Poster Professor:
Sanjiv Shah, Chicago, IL

7465 Correction of Hyperphosphosphatemia by Dietary Phosphorus Restriction or Phosphorus Binder Similarly Ameliorates Vascular Complications and Mineral Disorders in CKD Rats
Yutaka Taketani, Univ of Tokushima, Tokushima, Japan
Hironori Yamamoto, Jin-ai Univ, Echizen, Japan

7466 Stenosis Severity and Kidney Function in Atherosclerotic Renal Artery Stenosis
Mark Shipeng Yu, Univ of Toledo, Toledo, OH
Christopher J Cooper, Univ of Toledo, Toledo, OH

7467 Novel Simple and Accurate Quantitative Endothelial Function Measurements Using Brachial Artery Vascular Volume Elastic Modulus With Automated Oscillometric Approach
Keiichiro Yoshinaga, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan
Nagara Tamaki, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

Abstract Poster Session
APS.502.03
Cell, Tissue Engineering and Gene-Based Therapies III

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Peter Gruber, Iowa City, IA

5101 Extracellular Matrix Preserving Decellularized Heart Valve Maintain Valvular Function in vivo by Enhancing Functional Cell Recellularization
Hideto Ozawa, Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan
Yoshiki Sawa, Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan

5102 Inhibition of Prolyl Hydroxylase Stimulates Hif-mediated Sdf-1 Expression and CXCR4+ Cell Recruitment for Myocardial Repair
Marc-Michael Zaruba, Medical Univ Innsbruck, Innsbruck, Austria

5103 Comparison of Clinical Effects Following Multi-site versus Single-site CD34+ Cell Injections in Patients With Ischemic Cardiomyopathy
Gregor Poglajen, UMC Ljubljana, Ljubljana, Slovenia
Bojan Vrtovec, UMC Ljubljana, Ljubljana, Slovenia
Tuesday, November 18 • Chicago, Illinois

Identification of a Novel Cardiac Progenitor Population Expressing Pw1/peg3 in the Murine Heart
Elisa Yaniz-Galende, Sorbonne Univs, UPMC Univ Paris 06, Paris, France
Jean-Sebastien Hulot, Sorbonne Univs, UPMC Univ Paris 06, Paris, France

Molecular Imaging of Regulation of mTORC1-S6K Signal Pathway of Mesenchymal Stem Cells in AlliVing Mice Cardiac Dysfunction Induced from Sepsis
Wei Huang, Xijing Hosp, Xi an, China

Transplantation of Cardiac Cell Sheet Including Human Ips Cell-derived Cardiomyocytes and Vascular Cells to Infarcted Porcine Heart Restores Impaired Left Ventricular Global Function and Dyssynchrony
Masanosuke Ishigami, Kyoto Univ Graduate Sch of Med, kyoto, Japan
Jun K Yamashita, Ctr for iPS Cell Res and Application, Kyoto Univ, kyoto, Japan

Identification of Clinical Factors in Cell Therapy Trials That Determine Recovery versus Deterioration of LV Function Following STEMI
Jay H Traverse, Minneapolis Heart Inst Fndn Abbott Northwestern Hosp, Minneapolis, MN
Timothy D Henry, Cedars-Sinai Heart Inst, Los Angeles, CA

Electrical Stimulation Enhances Efficiency of Cardiac Differentiation of Human Induced Pluripotent Stem Cells by Regulating P36 Map Kinase
Ruilian Ma, Univ of Cincinnati, Cincinnati, OH
Yi-Gang Wang, Univ of Cincinnati, Cincinnati, OH

Hypoxia and Akt Induced Stem Cell Factor Exerts Cardioprotective Effects via Specific Binding to the Insulin-Like Growth Factor-1 Receptor
Akshay Barreja, Duke Univ, Durham, NC
Victor Dzau, Duke Univ, Durham, NC

Generation and LDLR Functional Correction of Familial Hypercholesterolemia iPSC With Physiologically Responsive Non-Integrating BAC Vector
Venkat M Ramakrishnan, Univ of Louisville Sch of Med, Louisville, KY
Nolan L Boyd, Univ of Louisville Sch of Med, Louisville, KY

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Abstract Poster Session

Cellular Electrophysiology and Excitation-Contraction Coupling II

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Poster Professor:
Sylvain Richard, France

Modeling of a Rare SCN10A Variant (A1886V) Linked with Early-Onset Atrial Fibrillation
Robert L Abraham, Vanderbilt Univ, Nashville, TN
Dawood Darbar, Vanderbilt Univ, Nashville, TN

Functional Role of SIC26a6 in the Regulation of Cardiac Excitability
Xiao-Dong Zhang, Univ of California, Davis, Davis, CA

Enhanced Sodium-Calcium Exchanger Current, Prolonged Action Potential Duration, and Early/Delayed-Afterdepolarization in Sorcin Knockout Heart
Xi Chen, Univ of Michigan, Ann Arbor, MI
Hector H Valdivia, Univ of Michigan, Ann Arbor, MI

Integrin Linked Kinase is Required for Integrity of Cardiac Ion Current and Electrophysiologic Function
Kathrin Banach, Univ of Illinois at Chicago, Chicago, IL

Integrin Linked Kinase is Required for Integrity of Cardiac Ion Current and Electrophysiologic Function
Xiao- Yan Q, Montreal Heart Inst, Univ de Montréal, Montreal, QC, Canada
Stanley Nattel, Montreal Heart Inst, Univ de Montréal, Montreal, QC, Canada

Novel Stress Signaling JNK Regulates Pro-arrhythmic Molecular CaMKIIδ Activity and Expression in Aged Human Atrium
Xiaomin Wu, Loyola Univ Chicago, Maywood, IL
Xun Ai, Loyola Univ Chicago, Maywood, IL

Excitation-Contraction Coupling and IP3-Dependent Ca Signaling in Atrial Myocytes From Normal and Failing Hearts
Felix Hohendanner, Rush Univ, Chicago, IL
Lothar A Blatter, Rush Univ, Chicago, IL

Canonical Wnt Signaling Promotes Pacemaker Cell Specification of Cardiac Mesodermal Cells
Wenbin Liang, Cedars-Sinai Heart Inst, Los Angeles, CA
Hee Cheol Cho, Cedars-Sinai Heart Inst, Los Angeles, CA
Variations in Local Calcium Signaling in Adjacent Cardiomyocytes of the Intact Mouse Heart Detected With Two-Dimensional Confocal Microscopy
Karin P Hammer, Medical Univ of Graz, Graz, Austria
Frank R Heinzel, Medical Univ of Graz, Graz, Austria

Abstract Poster Session

Clinical and Hospital-Based Observational Studies of Cardiovascular Disease

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Race and Willingness to Participate in Cardiovascular Clinical Research
Xiaotao Zhang, Tulane Univ, New Orleans, LA
Joseph Breault, Ochsner Clinic Fndn, New Orleans, LA

Comparison of CABG versus PCI Outcomes in Diabetic, Multivessel Coronary Artery Disease Patients With and Without Acute Coronary Syndromes
Michael E Parkhou, Icahn Sch of Med at Mount Sinai / Univ of Toronto, New York, NY
FREEDOM Trial Investigators

Incidence and Predictors of Left Ventricular Thrombus in ST Elevation Myocardial Infarction
Adam Driesman, Brown Medical Sch, Providence, RI
Jinnette Abbott, Rhode island Hosp, Providence, RI

Impact of Infection-Related Hospital Admissions With Heart Failure on Clinical Outcomes: Insights From the Gulf CARE Study
Amar M Salam, Hamad Medical Corp & Weill Cornell Medical Coll-Qatar, Doha, Qatar
Magdi Yacoub, QCRC, Doha, Qatar

A Comparison of Short- and Medium-Term Outcomes Between Men and Women Undergoing Percutaneous Coronary Intervention in a Chinese Population During the Contemporary Era of Drug-Eluting Stents
Peiyuan He, Fujaii hospital Beijing, Beijing, China
Runlin Gao, Fujaii hospital Beijing, Beijing, China

Testing Strategies and Poor Outcomes of Syncope among Medicare Beneficiaries
Meena P Rao, Duke Univ, Durham, NC
Adrian F Hernandez, Duke Clinical Res Inst, Durham, NC

Occupational Health Hazards of Working in the Interventional Laboratory: A Large Case-Control Study
Nicholas M Orme, Mayo Clinic, Rochester, MN
Singh Mandeep, Mayo Clinic, Rochester, MN

Ethnicity and Primary PCI for ST-Elevation Myocardial Infarction: Data From the First “Nationwide” Primary PCI Program
Abdorrazzak Gehani, Heart Hosp, HMC, Doha, Qatar
Magdi Yacoub, QCRC, Doha, Qatar

Long-Term Follow-Up of Patients with Acute Myocardial Infarction with Chronic Total Occlusion in the Non-Infarct Related Artery
Masashi Fujino, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan
Hisao Ogawa, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan

Different Presentation Mode of Acute Myocardial Infarction is Associated With Antecedent Therapy With Nitrates and β-blockers
Sunao Kojima, Kumamoto Univ, Kumamoto, Japan
Group The Japanese Acute Coronary Syndrome Study (JACSS)

Computational Tomography: Coronary Artery Physiology and Experimental

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Coronary and Myocardial Blood Flow Measurements Derived from Coronary Computed Tomography Angiography and Transluminal Attenuation Flow Encoding in the Multicenter AIDS Cohort Study
Richard T George, Johns Hopkins Univ, Baltimore, MD
Albert C Lardo, Johns Hopkins Univ, Baltimore, MD

Resting Patient- and Vessel-Specific Myocardial Perfusion Attenuation Patterns Improves Diagnostic Performance of Coronary Computed Tomographic Angiography
Guangli Xiong, Dalio Inst of Cardiovascular Imaging, NewYork-Presbyterian and the Weill Cornell Medical Coll, New York, NY
James K Min, Dalio Inst of Cardiovascular Imaging, NewYork-Presbyterian and the Weill Cornell Medical Coll, New York, NY
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<tr>
<th>Session Number</th>
<th>Title</th>
<th>Author(s)</th>
<th>Location</th>
<th>Time</th>
<th>Poster Professor</th>
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</thead>
<tbody>
<tr>
<td>1218</td>
<td>Prediction of Pre-procedural TIMI Flow Grade and Post-procedural Cardiac Troponin Elevations by 320-row Multidetector Computed Tomography Myocardial Perfusion Imaging</td>
<td>Makoto Araki, Tsuchiura Kyodo Hosp, Tsuchiura, Ibaraki, Japan Tsunekazu Kakuta, Tsuchiura Kyodo Hosp, Tsuchiura, Ibaraki, Japan</td>
<td>Board #</td>
<td>9:30 - 11:00</td>
<td>Stefan K James, Uppsala, Sweden</td>
</tr>
<tr>
<td>1219</td>
<td>Impact of Visit-to-Visit Systolic Blood Pressure Variability on Coronary Artery Atherosclerosis in Hypertensive Patients Without Known Coronary Artery Disease</td>
<td>Kenichiro Otsuka, Ishikiri Seiki Hosp, Higashiosaka, Japan Minoru Yoshiyama, Osaka City Univ Graduate Sch of Med, Osaka, Japan</td>
<td>Board #</td>
<td>9:30 - 11:00</td>
<td>Stefan K James, Uppsala, Sweden</td>
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<tr>
<td>1220</td>
<td>Diagnostic Value of Fractional Flow Reserve Derived From Coronary Computed Tomographic Angiography by Hypertension or Smoking</td>
<td>Rine Nakanishi, Harbor UCLA Medical Ctr, Torrance, CA Matthew J Budoff, Harbor UCLA Medical Ctr, Torrance, CA</td>
<td>Board #</td>
<td>9:30 - 11:00</td>
<td>Stefan K James, Uppsala, Sweden</td>
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<tr>
<td>1221</td>
<td>Predictive Value of Lesion-Associated Parameters from Coronary Computed Tomographic Angiography for Hemodynamically Significant Stenoses Confirmed by Invasive Fractional Flow Reserve</td>
<td>Matthias Renker, Medical Univ of South Carolina, Charleston, SC U Joseph Schoepf, Medical Univ of South Carolina, Charleston, SC</td>
<td>Board #</td>
<td>9:30 - 11:00</td>
<td>Stefan K James, Uppsala, Sweden</td>
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<td>1222</td>
<td>Subclinical Atherosclerosis in Diabetic Patients with Low to Intermediate Risk: Coronary Computed Tomographic Angiographic Findings from Matched Asymptomatic Individuals with and without Diabetes</td>
<td>Young-rak Cho, Dong-A Univ Medical Ctr, Busan, Republic of Korea Dong-Bin Kim, St Paul’s Hosp, The Catholic Univ of Korea, Seoul, Seoul, Republic of Korea</td>
<td>Board #</td>
<td>9:30 - 11:00</td>
<td>Stefan K James, Uppsala, Sweden</td>
</tr>
<tr>
<td>1223</td>
<td>Serum Immunoglobulin G4 Level is a Useful Marker for the Assessment of Low-Density Coronary Plaque</td>
<td>Aiko Sakamoto, Univ of Tokyo Graduate Sch of Med, Tokyo, Japan Issei Komuro, Univ of Tokyo Graduate Sch of Med, Tokyo, Japan</td>
<td>Board #</td>
<td>9:30 - 11:00</td>
<td>Stefan K James, Uppsala, Sweden</td>
</tr>
<tr>
<td>1224</td>
<td>Insights Into CT Contrast Uptake by Atheroma-Associated Macrophages in Hyperlipidemic Rabbits</td>
<td>Delia Danila, UTHSC-Houston, Houston, TX Patrick Kee, UTHSC-Houston, Houston, TX</td>
<td>Board #</td>
<td>9:30 - 11:00</td>
<td>Stefan K James, Uppsala, Sweden</td>
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<tr>
<td>1225</td>
<td>Targeted Spectral Computed Tomography Molecular Imaging of Arterial Thrombus in Rabbits</td>
<td>Gregory M Lanza, Washington Univ, St Louis, MO</td>
<td>Board #</td>
<td>9:30 - 11:00</td>
<td>Stefan K James, Uppsala, Sweden</td>
</tr>
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**Abstract Poster Session**

**Coronary Interventions: Stent Healing, Side Branches and the Elderly**

**South Hall A2 - Core 6**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM
<table>
<thead>
<tr>
<th>Session No.</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>6072</td>
<td>Influence of Primary PCI on the Mortality of Very Old Patients With ST-segment Elevation Myocardial Infarction</td>
<td>Robert Zabrocki, Bremer Inst für Herz- und Kreislaußforschung am Klinikum Links der Weser, Bremen, Germany Rainer Hambrecht, Bremer Inst für Herz- und Kreislaußforschung am Klinikum Links der Weser, Bremen, Germany</td>
</tr>
<tr>
<td>6073</td>
<td>Side Branch Angle Influences the Neointimal Coverage of Drug-Eluting Stent in Coronary Bifurcation Lesions: An Optical Coherence Tomography Study</td>
<td>Makoto Watanabe, Nara Medical Univ, Kashihara, Nara, Japan Yoshishiko Saito, Nara Medical Univ, Kashihara, Nara, Japan</td>
</tr>
<tr>
<td>6074</td>
<td>Safety and Efficacy of Everolimus-Eluting Stent versus Zotarolimus-Eluting Stent: A Meta-Analysis of Randomized Controlled Clinical Trials and Observational Studies</td>
<td>Hongqi Gu, Peking Union Medical Coll, Beijing, China Wei Li, Peking Union Medical Coll, Beijing, China</td>
</tr>
<tr>
<td>6075</td>
<td>Percutaneous Coronary Intervention and Dual Antiplatelet Therapy Are Safe Prior to Kidney Transplantation</td>
<td>Jessica Malone, Univ of California Davis, Sacramento, CA Garrett Wong, Univ of California Davis, Sacramento, CA</td>
</tr>
</tbody>
</table>

**Abstract Poster Session**

**APS.407.03**

**Defibrillator Risk Stratification, Utilization and Management**

South Hall A2 - Core 4

Posts Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:** Daniel Kramer, Boston, MA

4317 Left Ventricular Function Improvement After Recent MI in Patients Using a Wearable Cardioverter Defibrillator | Chingping Wan, ZOLL, Pittsburgh, PA Steven J Szymkiewicz, ZOLL, Pittsburgh, PA |

4318 Wearable Cardioverter Defibrillator Treatment Characteristics and Outcomes in Recent Myocardial Infarction Patients With Heart Failure | Ramu Perumal, ZOLL Medical Corp, Pittsburgh, PA Steven J Szymkiewicz, ZOLL Medical Corp, Pittsburgh, PA |

4319 Ramp Biphasic Waveforms Have a Lower External Defibrillation Threshold | Jian Huang, Univ of Alabama at Birmingham, Birmingham, AL Raymond E Ideker, Univ of Alabama at Birmingham, Birmingham, AL |
## Abstract Poster Session

### APS.205.04

**Depressive Symptoms: Assessment, Intervention and Outcomes**

**South Hall A2 - Core 2**  
**Posters Displayed:** 9:00 AM - 5:00 PM  
**Presenter Available:** 3:00 - 4:30 PM

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<td>2158</td>
<td>Elaine Steinke, Wichita, KS</td>
<td>Race Differences in Hemodynamic Responses to Acute Mental Stress and the Role of Depressive Symptoms</td>
<td>Kobina A Wilmot, Emory Univ, Atlanta, GA; Viola Vaccarino, Emory Univ, Atlanta, GA</td>
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<td>2159</td>
<td>Heidi T May, Intermountain Medical Ctr, Murray, UT; Joseph B Muhlestein, Intermountain Medical Ctr, Univ of Utah, Murray, UT</td>
<td>The Association of Depression Severity to Future Death and Incident Cardiovascular Disease Overall and Stratified by Age</td>
<td>Abdullah Alhurani, Univ of Kentucky, Lexington, KY; Debra K Moser, Univ of Kentucky, Lexington, KY</td>
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<td>2160</td>
<td>Misook L Chung, Univ of Kentucky, Lexington, KY; Debra K Moser, Univ of Kentucky, Lexington, KY</td>
<td>The Association of Co-Morbid Symptoms of Depression and Anxiety With All-Cause Mortality in Patients With Heart Failure</td>
<td>Abdullah Alhurani, Univ of Kentucky, Lexington, KY; Debra K Moser, Univ of Kentucky, Lexington, KY</td>
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<td>2161</td>
<td>Misook L Chung, Univ of Kentucky, Lexington, KY; Debra K Moser, Univ of Kentucky, Lexington, KY</td>
<td>Depressive Symptoms Mediate the Relationship between Perceived Control and Quality of Life in Patients with Heart Failure and their Family Caregivers</td>
<td>Shideh Majidi, Barbara Davis Ctr, Aurora, CO; Janet Snell-Bergeon, Barbara Davis Ctr, Aurora, CO</td>
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<td>2162</td>
<td>Miyuki Tsuchihashi-Makaya, Kitasato Univ, Sagamihara, Japan; Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan</td>
<td>Depressive Symptoms are Associated with Arterial Stiffness in Premenopausal Women with Type 1 Diabetes</td>
<td>Shideh Majidi, Barbara Davis Ctr, Aurora, CO; Janet Snell-Bergeon, Barbara Davis Ctr, Aurora, CO</td>
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<td>2163</td>
<td>Teresita Corvera-Tindel, VA GLA HS, Los Angeles, CA; Lynn V Doering, UCLA, Los Angeles, CA</td>
<td>Depression Screening and Case-Finding Tools in Heart Failure: Timing Matters</td>
<td>Shideh Majidi, Barbara Davis Ctr, Aurora, CO; Janet Snell-Bergeon, Barbara Davis Ctr, Aurora, CO</td>
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<td>2164</td>
<td>Miyuki Tsuchihashi-Makaya, Kitasato Univ, Sagamihara, Japan; Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan</td>
<td>Influence of Nutritional Status on Depressive Symptoms and Quality of Life in Patients With Heart Failure</td>
<td>Miyuki Tsuchihashi-Makaya, Kitasato Univ, Sagamihara, Japan; Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan</td>
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<td>2165</td>
<td>Shuichi Ura, Natl Hosp Org Kyoto Medical Ctr, Kyoto, Japan</td>
<td>Self-rating Depression Scale Score as an Inverse and Independent Predictor of Successful Smoking Cessation with a Pharmacological Treatment for Nicotine Addiction</td>
<td>Shuichi Ura, Natl Hosp Org Kyoto Medical Ctr, Kyoto, Japan; Koji Hasegawa, Natl Hosp Org Kyoto Medical Ctr, Kyoto, Japan</td>
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<td>2166</td>
<td>Home Exercise Reduces Hopelessness in Patients with Coronary Heart Disease</td>
<td>Susan L Dunn, Hope Coll, Holland, MI; Nathan Tintle, Dordt Coll, Sioux Center, IA</td>
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<td>2167</td>
<td>Symptoms of Depression and Posttraumatic Stress Disorder are Associated with Differential Autonomic Influences to Standing</td>
<td>Amit J Shah, Emory Univ, Atlanta, GA; Viola Vaccarino, Emory Univ, Atlanta, GA</td>
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## Abstract Poster Session

### APS.210.04

**Diabetes Mellitus and CVD: Prevention and Management IV**

**South Hall A2 - Core 2**  
**Posters Displayed:** 9:00 AM - 5:00 PM  
**Presenter Available:** 9:30 - 11:00 AM

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<td>2344</td>
<td>Stephen Nicholls, Adelaide, Australia</td>
<td>Skin Autofluorescence is an Independent Predictor of the Coronary Artery Disease</td>
<td>Yusuke Fujino, New Tokyo Hosp, Matsudo, Japan; Sunao Nakamura, New Tokyo Hosp, Matsudo, Japan</td>
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<td>2345</td>
<td>Muhammad Abu Tailakh, Soroka Clinical Res Ctr and Ben Gurion Univ, Beer Sheva, Israel; Victor Novack, Soroka Clinical Res Ctr and Ben Gurion Univ, Beer Sheva, Israel</td>
<td>The Impact of Routine HbA1c Screening on the Prevalence of Diabetes Mellitus and Outcomes in Patients Undergoing Percutaneous Coronary Intervention</td>
<td>Muhammad Abu Tailakh, Soroka Clinical Res Ctr and Ben Gurion Univ, Beer Sheva, Israel; Victor Novack, Soroka Clinical Res Ctr and Ben Gurion Univ, Beer Sheva, Israel</td>
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<td>2346</td>
<td>Shozab S Ali, Baptist Health South Florida, Miami Beach, FL; Khurram Nasir, Baptist Health South Florida, Miami Beach, FL</td>
<td>Sleep Duration is Associated with Degree of Insulin Resistance in a High Risk Population: the Baptist Employee Healthy Heart Study</td>
<td>Shozab S Ali, Baptist Health South Florida, Miami Beach, FL; Khurram Nasir, Baptist Health South Florida, Miami Beach, FL</td>
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<td>2347</td>
<td>Masaomi Gohbara, Yokohama City Univ Medical Ctr, Yokohama, Japan; Kazuo Kimura, Yokohama City Univ Medical Ctr, Yokohama, Japan</td>
<td>Glycemic Variability as Determined by a Continuous Glucose Monitoring System Predicts Left Ventricular Dysfunction in Patients With a First ST-Segment Elevation Myocardial Infarction</td>
<td>Masaomi Gohbara, Yokohama City Univ Medical Ctr, Yokohama, Japan; Kazuo Kimura, Yokohama City Univ Medical Ctr, Yokohama, Japan</td>
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<td>2348</td>
<td>Robert L Page, Univ of Colorado Skaggs Sch of Pharmacy and Pharmaceutical Sciences, Aurora, CO; Kavita V Nair, Univ of Colorado Skaggs Sch of Pharmacy and Pharmaceutical Sciences, Aurora, CO</td>
<td>Ranolazine Improves Cardiovascular-and Diabetes-Related Healthcare Utilization in Patients With Chronic Stable Angina and Co-Morbid Diabetes</td>
<td>Robert L Page, Univ of Colorado Skaggs Sch of Pharmacy and Pharmaceutical Sciences, Aurora, CO; Kavita V Nair, Univ of Colorado Skaggs Sch of Pharmacy and Pharmaceutical Sciences, Aurora, CO</td>
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| 2349    | Glucagon-like Peptide-1 Analogue Liraglutide Does Not Improve Microvascular Myocardial Function in Patients With Type 2 Diabetes - a Randomized, Single-blinded Cross Over Trial | Rebekka Faber, Bispebjerg Univ Hosp, Copenhagen, Denmark  
Eva Prescott, Bispebjerg Univ Hosp, Copenhagen, Denmark |
| 2350    | Relations and Predictive Value of Postload and Fasting Glucose for Incident Cardiovascular Disease and Mortality in Older Adults: the Cardiovascular Health Study | Erika Brutsaert, Montefiore Medical Ctr, Bronx, NY  
Jorge Kizer, Albert Einstein Coll of Med, Bronx, NY |
| 2351    | Cardiovascular Biomarkers and Long-term Outcomes in Patients with Type 2 Diabetes Mellitus Treated with Alogliptin vs. Placebo in the EXAMINE Trial | David A Morrow, Brigham and Women’s Hosp, Boston, MA  
William B White, Calhoun Cardiology Ctr, Univ of Connecticut Sch of Med, Farmington, CT |
| 2352    | The Combination of Depression and Diabetes is Associated With Short-term Risk of Death and Myocardial Infarction Among Patients Undergoing Angiography for Acute Coronary Syndrome | Heidi T May, Intermountain Medical Ctr, Murray, UT  
Joseph B Muhlestein, Intermountain Medical Ctr, Univ of Utah, Murray, UT |
| 2353    | Endothelial Dysfunction, Arterial Stiffness and Inflammation Are Associated With Visual Impairment in Diabetic Patients | Dimitrios Tousoulis, 1st Cardiology Dept, Univ of Athens Medical Sch, “Hippokration” Hosp, Athens, Gre, Athens, Greece  
Christodoulos Stefanadis, 1st Cardiology Dept, Univ of Athens Medical Sch, “Hippokration” Hosp, Athens, Gre, Athens, Greece |
| 2354    | Hsp20-Repurposed Exosomes Derived From Cardiomyocytes Provide Protection Against Diabetic Cardiomyopathy in Mice | Guo-Chang Fan, Univ of Cincinnati Coll of Med, Cincinnati, OH |
| 2355    | Inactivation of Cardiac Foxo1 by Insulin Signaling Is Required for Cardiac Function and Suppression of β-Myosin Heavy Chain Gene Expression | Yajuan Qi, Div of Molecular Cardiology, Temple, TX  
ShaoDong Guo, Div of Molecular Cardiology, Temple, TX |
| 2356    | AKAP150-Mobilized PKC Activation Mediates Myocardial Dysfunction in Diabetes | QiuJun Yu, Fourth Military Medical Univ, Xijing Hosp, Xi’an, China |
| 2357    | Inhibition of Glutamine Synthase Causes Glucose Intolerance in Mice | Andre Dejam, Massachusetts General Hosp, Boston, MA  
Robert E Gerszten, Massachusetts General Hosp, Boston, MA |
| 2358    | Depot-Specific Abnormalities in Adipose Tissue Insulin Signaling in a Porcine Model of Metabolic Syndrome | Gregory G Schwartz, VA Medical Ctr and Univ of Colorado Sch of Med, Denver, CO  
Clifford R Greyson, VA Medical Ctr and Univ of Colorado Sch of Med, Denver, CO |
| 2359    | Chronic Treatment With Novel Nanoformulated Micelles of Rapamycin, Rapatar, Protects Diabetic Heart Against Ischemia/reperfusion Injury | Anindita Das, Virginia Commonwealth Univ, Richmond, VA  
Rakeesh C Kukreja, Virginia Commonwealth Univ, Richmond, VA |
| 2360    | Cardiac 12-Lipoxygenase-Induced Oxidative Stress Promotes the Development of Diabetic Cardiomyopathy | Yosuke Kayama, The JIKEI Univ Sch of Med, Tokyo, Japan  
Michihiro Yoshimura, The JIKEI Univ Sch of Med, Tokyo, Japan |
| 2361    | Sensory Neuropathy Jeopardizes Nociceptive-mediated Liberation and Homing of Stem Cells in Mice and Patients With Diabetes | Zexu Dang, Bristol Heart Inst, Bristol, United Kingdom  
Paolo Madeddu, Bristol Heart Inst, Bristol, United Kingdom |
| 2362    | Inhibition of Src Homology 2 Domain-containing Phosphatase 1 (SHP-1) Increases Insulin Sensitivity in High-fat Diet-induced Insulin Resistant C57black6 Mice | Kai Kappert, Ctr for Cardiovascular Res / Charite  
- Univ Med Berlin, Berlin, Germany |

**Abstract Poster Session**

**APS.210.05 Diabetes Mellitus and CVD: Prevention and Management V**

**South Hall A2 - Core 2**

Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

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**Poster Professor:** Dale Abel, Iowa City, IA

**2354** Hsp20-Repurposed Exosomes Derived From Cardiomyocytes Provide Protection Against Diabetic Cardiomyopathy in Mice  
Guo-Chang Fan, Univ of Cincinnati Coll of Med, Cincinnati, OH
Abstract Poster Session

APS.104.01

Echocardiography in Clinical Syndromes: CAD, Stress Echo, Endocarditis, Stroke, Arrhythmias, Systemic Disease II

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Gilbert Habib, Marseille, France

1122 Prognostic Value of Stress Echocardiography in Patients With Low (<10%)-Intermediate (10-20%) Framingham Risk Score (Short-Term) versus Low (<39%) or High (≥39%) Lifetime Predicted Risk of Cardiovascular Disease
Siu-Sun Yao, Valley Health System, Ridgewood, NJ
Farooq A Chaudhry, Mount Sinai Health System, New York, NY

1123 Global Longitudinal Strain is an Independent Predictor of Incident Atrial Fibrillation in the Elderly: a Community-Based Cohort Study
Cesare Russo, Columbia Univ, New York, NY
Marco R Di Tullio, Columbia Univ, New York, NY

1124 Xenon Delivery Into Subarachnoid Hemorrhage via Echogenic Liposomes Provides Long-Term Neuroprotection
Shao-Ling Huang, Univ of Texas at Houston, Houston, TX

1125 Brief Hand-Held Echocardiography Teaching Improves Diagnosis of Valvular Heart Disease by Medical Students: A Controlled Study in the 2nd Year Cardiovascular Curriculum
David A Vorchheimer, Mount Sinai Hosp, New York, NY
Jonathan L Halperin, Mount Sinai Hosp, New York, NY

1126 Prevalence of Abnormal Cardiovascular Findings in Preparticipation Cardiovascular Screening by Focused Echocardiography in Collegiate Athletes
Sheila Hegde, Univ of Wisconsin, Madison, WI
Peter Rahko, Univ of Wisconsin, Madison, WI

1127 Detection of Transient Left Ventricular Apical Hypertrophy During Recovery From Takotsubo Cardiomyopathy by Serial Echocardiography
Go Hashimoto, Toho Univ Ohashi Medical Ctr, Tokyo, Japan
Kaoru Sugi, Toho Univ Ohashi Medical Ctr, Tokyo, Japan

Abstract Poster Session

APS.104.02

Echocardiography in Clinical Syndromes: CAD, Stress Echo, Endocarditis, Stroke, Arrhythmias, Systemic Disease III

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Sanjiv Shah, Chicago, IL

1128 Prevalence, Profile and Impact on Clinical Course of Transient Apical Wall Thickening in Patients with Stress Induced Cardiomyopathy
Dong Geum Shin, Yonsei Univ Coll of Med, Seoul, Republic of Korea
Namaik Chung, Yonsei Univ Coll of Med, Seoul, Republic of Korea

1129 Clinical Implications and Determinants of Left Atrial Longitudinal Strain in Patients with Acute Ischemic Stroke: Mechanistic Insights into Aortic-Ventricular-Atrial Coupling
Darae Kim, Divs of Cardiology, Severance Cardiovascular Hosp, Yonsei Univ Coll of Med, Seoul, Republic of Korea
Chi Young Shim, Divs of Cardiology, Severance Cardiovascular Hosp, Yonsei Univ Coll of Med, Seoul, Republic of Korea

1130 Incremental Prognostic Value of Echocardiographic Markers of Left Ventricular Remodeling and Diastolic Function in the Surgical Treatment for Ischemic Heart Failure Trial
Grace Lin, Mayo Clinic, Rochester, MN
Jae Oh, Mayo Clinic, Rochester, MN

1131 Can Longitudinal Strain Profile Reliably Distinguish Takotsubo Cardiomyopathy from Acute LAD Territory MI?: Analysis Using Speckle Tracking Imaging
Mohamed Ahmed, UMASS Medical Sch, Worcester, MA
Gerard P Aurigemma, UMASS Medical Sch, Worcester, MA
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<td>1133</td>
<td>Correlation Between Optimal Glycemic Control and Coronary Flow Reserve in Patients With Type 2 Diabetes Mellitus</td>
<td>Ercole Tagliamonte, “Umberto I” Hosp, Nocera Inferiore, Italy Raffaele Calabrò, Second Univ of Naples, Naples, Italy</td>
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<td>1134</td>
<td>Negative Predictive Value of Transthoracic Echocardiography for Infective Endocarditis in the Modern Era</td>
<td>Joseph A Sivak, Duke Univ Medical Ctr, Durham, NC Zainab Samad, Duke Univ Medical Ctr, Durham, NC</td>
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<td>1135</td>
<td>The Incremental Value of Three-Dimensional Transesophageal Echocardiography for the Diagnostic Assessment of Infective Endocarditis</td>
<td>Fabio Chirillo, Ospedale Ca’ Foncello, Treviso, Italy Zoran Olivari, Ospedale Ca’ Foncello, Treviso, Italy</td>
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<td>1136</td>
<td>Incremental Value of Left Atrial Conduction Time for Predicting Atrial Fibrillation in Patients Receiving Cardiac Pacing</td>
<td>Makoto Saito, Menzies Res Inst Tasmania, Hobart, Australia Thomas H Marwick, Menzies Res Inst Tasmania, Hobart, Australia</td>
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<td>1137</td>
<td>Inverse Changes in Atrial Size During Obstructive Apnea</td>
<td>Beatriz Cepeda-Valery, Einstein Medical Ctr, Philadelphia, PA Solomon P Samuel, Einstein Medical Ctr, Philadelphia, PA</td>
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<td>1138</td>
<td>The Safety of Transesophageal Echocardiography in Patients With Gastroesophageal Varices</td>
<td>Ziad Alnabki, Univ of Louisville, Louisville, KY Marcus F Stoddard, Univ of Louisville, Louisville, KY</td>
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<td>1139</td>
<td>Does Doppler E/e’ Ratio Reliably Estimate Diastolic Filling Pressures in Stress Cardiomyopathy?: A Validation Study in Apical and non-Apical Phenotypes</td>
<td>Aline Iskandar, Univ of Massachusetts, Worcester, MA Dennis Tighe, Univ of Massachusetts, Worcester, MA</td>
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<td>1140</td>
<td>Carotid Vascular Strain Predicts Cardiovascular Events in Treated Hypertension</td>
<td>Wei-Chuan Tsai, Natl Cheng Kung Univ Hosp, Tainan, Taiwan Yan-Wen Liu, Nati Cheng Kung Univ Hosp, Tainan, Taiwan</td>
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<td>1141</td>
<td>Relationship Between LV Contractility and Coronary Flow Reserve in Non-ischemic Dilated Cardiomyopathy: A Noninvasive Stress-echo Study</td>
<td>Quirino Ciampi, Fatebenefratelli Hosp, Benevento, Italy Rosa Sicari, CNR, Pisa, Italy</td>
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<td>1142</td>
<td>The New Cardiac Bedside Assessment: Integrating Hand-Held Cardiac Ultrasound into the Evaluation of Cardiac Patients</td>
<td>William McIntyre, Queen’s Univ, Kingston, ON, Canada Amer M Johri, Queen’s Univ, Kingston, ON, Canada</td>
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<td>1143</td>
<td>The Impact of Premature Lung Disease on the Maturation of Cardiac Function in the First Year of Life: Discerning Early Predictive Markers of Chronic Lung Disease</td>
<td>Philip T Levy, Washington Univ Sch of Med, Saint Louis, MO</td>
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<td>1144</td>
<td>As Compared With Cardiac Magnetic Resonance Imaging, Transthoracic Echocardiography Has an Excellent Accuracy in Diagnosing a Left Ventricular Thrombus After an Anterior Myocardial Infarction Complicated With Left Ventricular Dysfunction: Results of a Prospective multicentric Study</td>
<td>Philippe Meurin, Les Grands Prés, Villeneuve-Saint Denis, France Jean Yves Tabet, Les Grands Prés, Villeneuve-Saint Denis, France</td>
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<td>1145</td>
<td>The Serial Changes of Left Atrial Structure and Function After Catheter Ablation; 1 Year Follow up Study</td>
<td>Mi Na Kim, Korea Univ Hosp, Seoul, Republic of Korea Wan-Joo Shim, Korea Univ Hosp, Seoul, Republic of Korea</td>
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<td>1146</td>
<td>Left Atrial Cross Sectional Area is a Novel Echocardiographic Measure Which Improves the Predictive Value of Chads2 Score in Risk Stratification of Cardioembolic Strokes</td>
<td>Timothy C Tan, Massachusetts General Hosp, Boston, MA Judy Hung, Massachusetts General Hosp, Boston, MA</td>
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<td>1147</td>
<td>Sunclinical Alteration of Left Ventricular Performance and Aortic Elastic Properties Are Present in Patients After Kawasaki Disease With Coronary Artery Aneurysm Even Without Cardiac Ischemia</td>
<td>Jun Oyamada, Hiraka General Hosp, Yokote, Japan</td>
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**Diastolic Dysfunction by Tissue Doppler Imaging Predicts All-Cause Mortality in Patients with Cerebral Infarction**
Flemming J Olsen, Gentofte Hosp, Hellerup, Denmark
Tor Biering-Sørensen, Gentofte Hosp (Inst of Clinical Med, Faculty of Health and Medical Sciences, Univ of Copenhagen, Copenhagen, Denmark), Hellerup, Denmark

**Comparison of Handheld and Standard Transthoracic Echocardiography in Patients with Acute Myocardial Infarction**
Michael W Cullen, Mayo Clinic, Rochester, MN
Jae K Oh, Mayo Clinic, Rochester, MN

**Not Carotid but Femoral Artery Intima-Media Thickness Predicts Peripheral Artery Disease in Patients With Coronary Artery Disease**
Naoki Okumura, Nagoya Univ Graduate Sch of Med, Nagoya, Japan
Toyoaki Murohara, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

**Libman-sacks Endocarditis: Can It Be Clinically Predicted?**
Leonardo Macias, Univ Of New Mexico, Albuquerque, NM
Carlos A Roldan, Univ Of New Mexico, Albuquerque, NM

**Diagnostic Accuracy of Modern-era Echocardiography for Detection of Surgical Complications of Left-sided Infective Endocarditis**
John F Sedgwick, The Prince Charles Hosp, Brisbane, Australia
Yvonne Gilliland, John Ochsner Heart and Vascular Inst, New Orelens, LA

**Prevalence of Left Ventricular Thrombus (LVT) One Month Post Myocardial Infarction in Patients Discharged With Negative Inpatient Echocardiography - Incremental Utility of Delayed Enhancement Cardiac Magnetic Resonance (DE-CMR) Tissue Characterization**
Jonathan W Weinsaft, Weill Cornell Medical Coll, New York, NY

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**Abstract Poster Session**

**Echocardiography/Imaging in Structural Heart Disease and Interventions**

**APS.103.01**

**Echocardiography in Clinical Syndromes: CAD, Stress Echo, Endocarditis, Stroke, Arrhythmias, Systemic Disease I**

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**Poster Professor:**
Jong-Min Song, Seoul, Republic of Korea

**1102**
**A New Prognostic Marker for Functional Deterioration in Heart Failure: Coronary Vascular Resistance**
Ahmet Temizhan, Turkey Yuksek Ihtisas Educational and Res Hosp, Ankara, Turkey
Sinan Aydogdu, Turkey Yuksek Ihtisas Educational and Res Hosp, Ankara, Turkey

**1103**
**Predictors of Improvement of Left Ventricular Diastolic Function After Transcatheter Aortic Valve Replacement in Severe Aortic Stenosis With Preserved Left Ventricular Systolic Function: A Serial Echocardiographic Study**
Hiroto Utsunomiya, Cedars-Sinai Heart Inst, Los Angeles, CA
Takahiro Shiota, Cedars-Sinai Heart Inst, Los Angeles, CA

**WITHDRAWN**

**1104**
**Impact of Low Flow State on Cumulative Mortality of High-risk Patients Undergoing Transcatheter Aortic Valve Implantation**
Maria Drakopoulou, Athens Medical Sch, Athens, Greece
Christodoulos Stefanadis, Athens Medical Sch, Athens, Greece

**1105**
**Stress Echocardiography Predicts Heart Failure Progression and Alters Management Strategies in Patients with Hypertrophic Cardiomyopathy**
Ethan J Rowin, Tufts Medical Ctr, Boston, MA
Martin S Maron, Tufts Medical Ctr, Boston, MA
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<td>1107</td>
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<td>1108</td>
<td>Estimated Surgical Risk and Anatomical Compatibility for MitraClip Intervention in Patients With Severe Mitral Regurgitation According to Valve Disease Etiology</td>
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<td>1109</td>
<td>Normal Doppler Hemodynamics of Pulmonary Valve Prostheses in Adults</td>
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<td>1110</td>
<td>Impact of Paravalvular Regurgitation after Surgical Aortic Valve Replacement for Severe Aortic Stenosis: An Intraoperative Transesophageal Echocardiography Study</td>
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<td>1111</td>
<td>The Impact of Flow Measurement After Mitral Paravalvular Leak Closure and Survival</td>
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### Abstract Poster Session

**APS.102.06**

**Echocardiography: 2D and 3D Myocardial Mechanics**

**South Hall A2 - Core 1**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:** Masaaki Takeuchi, Kitakyushu, Japan

**1092** Changes in Myocardial Function Following 8 to 12-hour Rebreathing Cold Water Dives

**Romain Chopard**, Univ Hosp Jean Minjoz, Besancon, France

**1093** Myocardial Deformation Imaging and Obstruction in Hypertrophic Cardiomyopathy, Insights from Cross-sectional and Post-myectomy Analysis

**Yukari Kobayashi**, Stanford Univ, Stanford, CA

**1094** Mitigation of Variability of 3D Echo-Derived Regional Strain Acquired by Multiple Ultrasound Systems Using Vendor Independent Analysis

**Cole Streiff**, Oregon Hlth & Science Univ, Portland, OR

**1095** Concept and Clinical Implications of Mechanical Reserve in Hypertrophic Cardiomyopathy

**Itaklis Pazios**, Johns Hopkins Univ, Baltimore, MD

**1096** Echocardiographic parameters of Left Ventricular Size and Function as Predictors of Symptomatic Heart Failure in Patients with Low Normal Ejection Fraction Treated with Anthracyclines

**Negahre Mousavi**, Massachusetts General Hosp, Boston, MA

**1097** Strain Dispersion is an Early Subclinical Manifestation of Diabetic Cardiomyopathy Assessed by 3D Echocardiography

**Ross Upton**, Univ of Oxford, Oxford, United Kingdom

**1098** Myocardial Function Abnormalities in Obesity: Assessment via Standard Doppler Indices, Myocardial Speckle-tracking and Kinematic Modeling of Early Diastolic Filling

**Julio A Chirinos**, Univ of Pennsylvania, Philadelphia, PA

**1099** Normal Values and Age Related Changes of Left and Right Atrial Phasic Functions by Speckle Tracking Echocardiography

**Dragos Vinereanu**, Univ of Med and Pharmacy Carol Davila, Bucharest, Romania

**1100** Left Atrial Wall Deformation Assessed by 3-Dimensional Speckle Tracking Imaging is a Useful Method in Assessing Left Ventricular Filling Pressure

**Kazuzaki Wakami**, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan

**1101** Single Beat Simultaneous Left Atrioventricular Strain-Volume Analysis Using Speckle Tracking Echocardiography

**Alaa M Omar**, Icahn Sch of Med at Mount Sinai, New York, NY

**Partho P Sengupta**, Icahn Sch of Med at Mount Sinai, New York, NY
Abstract Poster Session

**APS.102.05**

**Echocardiography: Applications of New Technologies for Emerging Intervention**

South Hall A2 - Core 1

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Stephen Little, Houston, TX

**1082**

**Novel Method Using Intracardiac Myocardial Elastography Provides Real-time Assessment of Right and Left Atrial Radiofrequency Ablation Lesions in Humans**

*Elaine Wan*, Columbia Univ Medical Ctr, New York, NY

*Hasan Garan*, Columbia Univ Medical Ctr, New York, NY

**1083**

**Predicting Outcomes After Percutaneous Mitral Balloon Valvotomy: The Impact of Left Ventricular Strain Imaging**

*Sergio Barros-Gomes*, Mayo Clinic, Rochester, MN

*Sorin V Pislaru*, Mayo Clinic, Rochester, MN

**1084**

**Quantification of Multiple Mitral Regurgitant Jets: An in vitro Assessment of Doppler Methods Pertaining to MitraClip**

*Dimitrios Maragiannis*, Houston Methodist Hosp, Houston, TX

*Stephen H Little*, Houston Methodist Hosp, Houston, TX

**1085**

**The Impact of MitraClip® Procedure on Left Atrial Strain and Strain Rate**

*Elsa Gucuk Ipek*, UCSF Medical Ctr, San Francisco, CA

*Elyse Foster*, UCSF Medical Ctr, San Francisco, CA

**1086**

**Assessment of Post-Procedural Aortic Regurgitation After Transcatheter Aortic Valve Replacement During the Procedure: An Intraprocedural Transesophageal Echocardiography Study**

*Hirotugu Mihara*, Cedars-Sinai Medical Ctr, Los Angeles, CA

*Takahiro Shiota*, Cedars-Sinai Medical Ctr, Los Angeles, CA

**1087**

**Mitral Valve Analysis Adding a Virtual Semi-Transparent Annulus Plane for Improved Visualization of Prolapsing Segments**

*Karl-Andreas Dumont*, Oslo Univ Hosp, Norway

*Stig Urheim*, Oslo Univ Hosp, Norway

**1088**

**Atrial Fibrillation Dilates Left Atrial Appendage Assessed by 3-dimensional Transesophageal Echocardiography**

*Yusuke Mikid*, Yokkaichi Municipal Hosp, Japan

*Toyoaki Murohara*, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

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**1089**

**Differences in Mitral Valve Marginal Chordae Tendineae Length in Patients with Functional and Degenerative Mitral Regurgitation Using 3D Transesophageal Echocardiography from the Transgastric Approach**

*Kikuko Obase*, Univ of Chicago Medical Ctr, Chicago, IL

*Roberto M Lang*, Univ of Chicago Medical Ctr, Chicago, IL

**1090**

**Standard Deviation of Segmental Left Atrial Strain is Impaired in Patients Treated by Pulmonary Vein Isolation With Late Failure**

*Michael Grafe*, Deutsches Herzzentrum, Berlin, Germany

*Ernst Wellnhofer*, Deutsches Herzzentrum, Berlin, Germany

**1091**

**Short-term Right Ventricular Remodeling after Transcatheter Pulmonary Valve Replacement**

*Angela M Kelle*, Mayo Clinic, Rochester, MN

*Patrick W O'Leary*, Mayo Clinic, Rochester, MN

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**Abstract Poster Session**

**APS.101.03**

**Echocardiography: Evaluation of Systolic and Diastolic Function III**

South Hall A2 - Core 1

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

**1021**

**Ventricular Functional Response During Exercise in Patients After Fontan**

*Barbara Cifra*, Hosp for Sick Children, Toronto, ON, Canada

*Andreea Dragulescu*, Hosp for Sick Children, Toronto, ON, Canada

**1022**

**Left Ventricular Longitudinal Myocardial Workload is More Severely Reduced in Hypertensive Patients with Concentric Hypertrophy Than in Those with Eccentric Hypertrophy**

*Satoshi Yamada*, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

*Hiroyuki Tsutsui*, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

**1023**

**Intraventricular Velocity Gradient of the Blood Flow during Isovolumic Relaxation is Useful to Assess Left Ventricular Suction**

*Shohei Kikuchi*, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan

*Nobuyuki Ohte*, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan

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TUESDAY AM

1024 Global Longitudinal Strain in Different Right Ventricular Walls Using Alternate Right Ventricular Apical Views: Validation and Establishment of Normal Values in Children
   Amanda Hauck, The Hosp for Sick Children, Toronto, ON, Canada
   Luc Mertens, The Hosp for Sick Children, Toronto, ON, Canada

1025 Exercise Intolerance in Heart Failure Patients With Preserved Ejection Fraction (HFrEF) - Not Only a Diastolic Problem
   Gabor Kunzitz, Oslo Univ Hosp, Rikshospitalet, 0327 Oslo, Norway
   Stig Urheim, Oslo Univ Hosp, Rikshospitalet, 0327 Oslo, Norway

1026 Real-time B-mode Cardiac Time-harmonic Elastography for the Detection of Diastolic Dysfunction
   Fabian Knebel, Charité - Univsmedizin Berlin, Berlin, Germany
   Ingolf Sack, Charité - Univsmedizin Berlin, Berlin, Germany

1027 Improvement in Diastolic Function and Reduction in Left Ventricular Thickness in Patients with Sleep Apnea Treated with Continuous Positive Airway Pressure: A Meta-Analysis
   Rebecca Cogswell, Univ of Minnesota, Minneapolis, MN

1028 Can Left Atrial Wall Area Strain Obtained by Three-dimensional Speckle Tracking Imaging Assess Left Ventricular Filling Pressure in Patients with Normal Left Ventricular Ejection Fraction?
   Noriyuki Ikehara, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan
   Nobuyuki Ohte, Nagoya City Univ Graduate Sch of Medical Sciences, Nagoya, Japan

1029 Pulmonary Artery Systolic Pressure Independently Predicts All-Cause Mortality in Patients with Coronary Artery Disease Irrespective of a Diagnosis of Heart Failure
   Nima Ghasemzadeh, Emory Univ, Atlanta, GA
   Arshad A Quyyumi, Emory Univ, Atlanta, GA

1030 “Forgotten” Cluster with Moderately-impaired LV Diastolic Function Determined by Doppler Echocardiography
   Takuya Hasegawa, Natl Cerebral and Cardiovascular Ctr, Suita, Osaka, Japan
   Masafumi Kitakaze, Natl Cerebral and Cardiovascular Ctr, Suita, Osaka, Japan

1031 Two-Dimensional Speckle-Tracking Echocardiographic LV Myocardial Multi-Layer Strain-Determined Compensatory Mechanism in HCM and Severe Aortic Stenosis Patients With Preserved LV Ejection Fraction
   Koya Ozawa, Chiba Univ Graduate Sc Med, Chiba, Japan
   Yoshio Kobayashi, Chiba Univ Graduate Sc Med, Chiba, Japan

1032 The Usefulness of Combined Assessment of E/e’ Ratio and Transmitral Flow Pattern to Interpret Cardiac Condition
   Masayoshi Oikawa, Fukushima Medical Univ, Fukushima, Japan
   Yasuchika Takeishi, Fukushima Medical Univ, Fukushima, Japan

1033 Left Ventricular (LV) Remodeling in Aortic Regurgitation Differs From Athlete’s Heart With Similar LV Volumes and is Closely Related to Different Fiber Stress Distribution
   Kaspar Broch, Oslo Univ Hosp, Rikshospitalet, 0327 Oslo, Norway
   Stig Urheim, Oslo Univ Hosp, Rikshospitalet, Oslo, Norway

1034 Comparison of Exercise-Induced Hemodynamic Changes Between Anterior and Posterior Mitral Prolapse in Patients With Asymptomatic Degenerative Mitral Regurgitation
   Hae-Ok Jung, Catholic Medical Ctr, Seoul, South of Korea, Seoul, Republic of Korea
   Ho-Joong Youn, Catholic Medical Ctr, Seoul, South of Korea, Seoul, Republic of Korea

1035 Comparison of Tissue Doppler-Derived and Speckle Tracking-Derived Parameters for the Estimation of Left Ventricular Filling Pressure: A Multicenter Study in Japan
   Taichi Hayashi, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan
   Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

1036 Diverse Geometric Changes Related to Dynamic Left Ventricular Outflow Tract Obstruction Without Overt Hypertrophic Cardiomyopathy
   Eui-Young Choi, Gangnam Severance Hosp, Seoul, Republic of Korea

1037 Echocardiography: Evaluation of Systolic and Diastolic Function IV

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Thor Edvardsen, Baltimore, MD

Abstract Poster Session
TUESDAY AM

1037  Left Ventricular Systolic Properties in Hypertension Assessed by Novel One-Beat Real-Time 3-Dimensional Speckle Tracking Echocardiography With High Volume Rates
Noritake Sato, Gifu Prefectural General Medical Ctr, Gifu, Japan
Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan

1038  Doppler Derived Estimation of Pulmonary Vascular Resistance in Patients With Adult Congenital Heart Disease With Left to Right Shunting
Madoka Ikeda, Okayama university hospital, Okayama, Japan
Hiroshi Ito, Okayama university, Okayama, Japan

1039  Estimation of Acute Onset Global Longitudinal Strain by 3D Speckle Tracking After ST-Elevation Myocardial Infarction is Useful for Predicting Left Ventricular Remodeling
Noriaki Iwahashi, Yokohama City Univ, Yokohama, Japan
Kazuo Kimura, Yokohama City Univ, Yokohama, Japan

1040  Improvement of Longitudinal Function is Closely Related to Reverse Remodeling in Cardiac Resynchronization Therapy
Nina E Hasselberg, Oslo Univ Hosp Rikshospitalet, Oslo, Norway
Thor Edvardsen, Oslo Univ Hosp Rikshospitalet, Oslo, Norway

Abstract Poster Session

Emerging Technologies I

APS.802.01

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Ravi Karra, Durham, NC

8030  Reentrant Sources in Persistent AF Are Located in Regions with Specific Spatial Patterns of Fibrosis
Sohail Zahid, Johns Hopkins Univ, Baltimore, MD
Natalia A Trayanova, Johns Hopkins Univ, Baltimore, MD

8031  Ultrasound-targeted Destruction of Nucleic-acid Loaded Microbubbles Enhances Payload Delivery at the Treatment Site: A Quantitative Comparison of Delivery Strategies
Andrew R Carson, Univ of Pittsburgh, Pittsburgh, PA
Flordeliza S Villanueva, Univ of Pittsburgh, Pittsburgh, PA

8032  Fully Validated MRI-Based Computational Models of Swine Hearts With Post-Infarction Ventricular Tachycardia
Dongdong Deng, The Johns Hopkins Univ, Baltimore, MD
Natalia Trayanova, The Johns Hopkins Univ, Baltimore, MD

8033  Optogenetic Modulation of Pacemaking, Arrhythmia Generation, and Inhibition with Sustained (Non-pulsed) Light
Emilia Entcheva, Stony Brook Univ, Stony Brook, NY

8034  Staphylococci Endocarditis: Metagenomics and Ultrastructural Analysis in Surgically Treated Patients
Stefan Feder, Univ of Leipzig, Heart-centre, Leipzig, Germany
Yvonne Kullnick, Univ of Leipzig, Heart-centre, Leipzig, Germany

8035  Serum-Free Culture Conditions Support Human Cardiac Stem Cell Outgrowth
Seth Mount, Univ of Ottawa Heart Inst, Ottawa, ON, Canada
Darryl R Davis, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

8036  Trans-Satellite Wireless 12 Lead ECG Transmission From the Ambulance to the Primary PCI Facility as Part of Nationwide Primary PCI Program for ST-Elevation Myocardial Infarction
Abdurrazzak Gehani, Heart Hosp, HMC, Doha, Qatar
Magdi Yacoub, QCRC, Doha, Qatar

8037  Virtual Crossmatch May Render Desensitization Therapy Obsolete in Status 1 Patients Awaiting Heart Transplant
Christopher Tan Vanichsam, Cedars-Sinai Heart Inst, Los Angeles, CA
Jon Kobashigawa, Cedars-Sinai Heart Inst, Los Angeles, CA

8038  Circulating Inflammatory Potential Measured by an Endothelial Biosensor Assay in Coronary Artery Disease Patients
Heidi Cung, Univ of New Mexico, Albuquerque, NM
Matthew Campen, Univ of New Mexico, Albuquerque, NM

8039  Immobilised apoA-I and High-Density Lipoproteins are Anti-Thrombotic and Exert Anti-Inflammatory Effects in Vascular Smooth Muscle Cells
Laura Z Vanags, The Heart Res Inst, Newtown, Australia
Christina Bursill, The Heart Res Inst, Newtown, Australia
Abstract Poster Session

**Emerging Technologies II**

South Hall A2 - Core 5  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**Board #**

**Poster Professor:**  
Sreekanth Vemulapalli, Durham, NC

8040  
Validation of a New Algorithm for Detection of Coronary Artery Disease Using Carotid and Femoral Vascular Ultrasound  
Nabil Alzaeim, Faculty of Med, Cairo Univ, Cairo, Egypt  
Essam Baligh, Faculty of Med, Cairo Univ, Cairo, Egypt

8041  
Using Social Media as a Method of Increasing Organ Donation  
Martin Cadeiras, UCLA Health, Los Angeles, CA  
Mario Deng, UCLA Health, Los Angeles, CA

8042  
Distention of the Immature Left Ventricle Triggers Development of Endocardial Fibroelastosis - An Animal Model Introducing Morpho-Pathological Features of Evolving Hypoplastic Left Heart Syndrome in Human Fetuses  
Shogo Shimada, Boston Children’s Hosp, Boston, MA  
Ingeborg Friehs, Boston Children’s Hosp, Boston, MA

8043  
Novel Microprinted Elisa Platform for High Throughput Screening of Protein Secretion Reveals a Comprehensive Strategy to Prevent Ischemia Reperfusion Induced Apoptosis  
Kshitiz Kz, Yale Univ, West Haven, CT  
Andre C Levchenko, Yale Univ, West Haven, CT

8044  
Novel and Reliable Method to Screen for Drug Cardiac Toxicity Using Human Induced Pluripotent Stem Cell Derived Cardiomyocytes (hiPS-CM)  
Tamer M A Mohamed, Univ of Manchester, Manchester, United Kingdom  
Elizabeth J Cartwright, Univ of Manchester, Manchester, United Kingdom

8045  
Application and Utility of iPads in Pediatric Tele-Echocardiography  
Jamie N Colombo, Univ of Arizona, Tucson, AZ  
Daniela Lax, Univ of Arizona, Tucson, AZ

8046  
ECG-Derived Vectorcardiology Identifies Disease and Genotype Status in Hypertrophic Cardiomyopathy  
Daniel Cortez, Children’s Hosp of Colorado, Aurora, CO  
Michael Ackerman, Mayo Clinic, Rochester, MN

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**Abstract Poster Session**

**Exercise, Physical Activity and Rehabilitation V**

South Hall A2 - Core 2  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

**Board #**

**Poster Professor:**  
Barry Franklin, Royal Oak, MI

2229  
Impact of Participation in Cardiac Rehabilitation on Long-term Survival after Coronary Artery Bypass Graft Surgery  
Eun-Kyung Park, Asan Medical Ctr, Seoul, Republic of Korea  
Seung-Jung Park, Asan Medical Ctr, Seoul, Republic of Korea

2230  
Beneficial Effects of Exercise-based Cardiac Rehabilitation on HDL-mediated Cholesterol Efflux Capacity in Patients with Acute Coronary Syndrome  
Shinji Koba, Showa Univ Sch of Med, Tokyo, Japan  
Youichi Kobayashi, Showa Univ Sch of Med, Tokyo, Japan

2231  
Is Exercise Intensity Associated with Clinical or Echocardiographic Outcomes in Hypertrophic Cardiomyopathy?  
Eugene C DePasquale, Univ of California, Los Angeles, Los Angeles, CA  
Rachel Lampert, Yale Univ Sch of Med, New Haven, CT

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Tuesday, November 18 • Chicago, Illinois
Increase in Physical Fitness after an Intensive 12-Week Healthy Lifestyle Workplace Intervention is Associated with Improvement in Heart Rate Profile Independent of Weight Changes or Traditional Metabolic Risk Factors

Ehimen Aneni, Baptist Health South Florida, Miami, FL
Khurram Nasir, Baptist Health South Florida, Miami, FL

Digital Health Interventions Improves Cardiovascular Risk Factors and Reduces Rehospitalizations After Usual Cardiac Rehabilitation

Robert J Widmer, Mayo Clinic, Rochester, MN
Amir Lerman, Mayo Clinic, Rochester, MN

Increased Physical Activity Prevents the Progress of Left Ventricular Hypertrophy via Reducing Advanced Glycation End-Products in Patients With Hypertension

Aoyama Akihiro, Kitasato Univ Graduate Sch of Medical Sciences, Sagamihara, Japan
Ako Junya, Kitasato Univ Sch of Med, Sagamihara, Japan

Critical Pathway for Elderly Patients With Heart Failure Based on Physical Activity Reduces Length of Hospital Stay

Naoya Kakutani, Obihiro Kyokai Hosp, Obihiro, Japan
Ichiro Yoshida, Obihiro Kyokai Hosp, Obihiro, Japan

Impact of Proportional Assist Ventilation on Skeletal Muscle Reoxygenation and Central Hemodynamic During Constant Work Rate Exercise in Chronic Heart Failure

Audrey Borghi-Silva, Federal Univ of Sao Carlos, Sao Carlos, Brazil
Jose Alberto Neder, Federal Univ of Sao Paulo, Sao Paulo, Brazil

Asymptomatic Peripheral Arterial Disease is an Independent Limiting Factor for a Delay in Recovery From Reduced Exercise Capacity After Hospital Discharge in Patients With Chronic Heart Failure

Shinya Tanaka, Kitasato Univ Graduate Sch, Sagamihara, Japan
Junya Ako, Kitasato Univ Sch of Med, Sagamihara, Japan

Effects of Age and Exercise Training on Ventilatory Efficiency in Chronic Heart Failure

Marcus Sandri, Univ of Leipzig-Heart Ctr, Leipzig, Germany
Gerhard Schuler, Univ of Leipzig-Heart Ctr, Leipzig, Germany
### Abstract Poster Session

#### APS.205.02

**Factors Affecting Survival, Rehospitalizations and Health Outcomes in Heart Failure**

South Hall A2 - Core 2  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**  
Rebecca Gary, Commerce, GA

**2138**  
**Heart Failure Patients Who Have Knowledge About Their Disease but Don't Perform Self-Care Have Worse Clinical Outcomes**  
Naoko Kato, Linköping Univ, Norrköping, Sweden  
Tiny Jaarsma, Linköping Univ, Norrköping, Sweden

**2139**  
**Family Caregivers’ Perceptions of Illness Severity in Heart Failure Patients with Limited Life Expectancy**  
Lisa Kitko, Pennsylvania State Univ, University Park, PA  
Maureen Palese, Pennsylvania State Univ, University Park, PA

**2140**  
**Impact of Health Literacy on Long-Term Outcomes in Patients with Heart Failure**  
Miyuki Tsuchihashi-Makaya, Kitasato Univ, Sagamihara, Japan  
Shintaro Kinugawa, Hokkaido Univ, Sapporo, Japan

**2141**  
**Event-Free Survival in African American Patients with Heart Failure**  
Kelly L Adams, Michigan State Univ, East Lansing, MI  
Debra K Moser, Univ of Kentucky, Lexington, KY

**2142**  
**Factors Precipitating Hospital Admissions for Heart Failure in Women: Insights From the Gulf CARE Registry**  
Amar M Salam, Hamad Medical Corp & Weill Cornell Medical Coll-Qatar, Doha, Qatar  
Magdi Yacoub, Qatar Cardiovascular Res Ctr, Doha, Qatar

**2143**  
**Comparison of Health Literacy by Race and Gender Among Heart Failure Patients**  
Hannah Anderson Hughes, Duke Univ Sch of Nursing, Durham, NC  
Bradi B Granger, Duke Univ Sch of Nursing, Durham, NC

**2144**  
**Vitamin D Deficiency, Tumor Necrosis Factor-Alpha, and Event-Free Survival in Patients With Heart Failure**  
Eun Kyeung Song, Univ of Ulsan, Ulsan, Republic of Korea  
Terry A Lennie, Univ of Kentucky, Lexington, KY

#### APS.205.03

**Familial Hypercholesterolemia and Other Lipid Disorders**

South Hall A2 - Core 2  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**  
A D Marais, Observatory, South Africa

**2050**  
**Predicting the Presence of a Mutation Resulting in Familial Hypercholesterolemia - Development of a Prediction Model in a Cohort of 64,000 Subjects**  
Joost Besseling, Academic Medical Ctr, Amsterdam, Netherlands  
Barbara A Hutten, Academic Medical Ctr, Amsterdam, Netherlands

**2051**  
**Decreased Cardiovascular Events in Familial Hypercholesterolemic Patients Treated With Mipomersen, an Antisense Inhibitor of Apolipoprotein B Translation**  
John J.P Kastelein, Academic Medical Ctr, Univ of Amsterdam, Amsterdam, Netherlands

**2052**  
**Cardiovascular Risk Markers in a Large Cohort of Children With Genetically Verified FH Show No Inheritance-Related but LDL Receptor Mutation-Type and Family History of CVD-related Variance**  
Kirsten B Holven, Univ of Oslo, Oslo, Norway
The Diagnosis of Heterozygous Familial Hypercholesterolemia: Genotype versus Phenotype
Frederick Raal, Univ of the Witwatersrand Medical Sch, Johannesburg, South Africa
G Kees Hovingh, Academisch Medisch Centrum, Amsterdam, Netherlands

Abnormal Lipoprotein Metabolism Other Than LDL Fraction in Familial Hypercholesterolemia: Serial analysis using Ultracentrifugation Method
Hayato Tada, Kanazawa Univ, Kanazawa, Japan
Masakazu Yamagishi, Kanazawa Univ, Kanazawa, Japan

Trial Assessing Long-Term Use of PCSK9 Inhibition in Patients with Genetic LDL Disorders (TAUSSIG): Efficacy and Safety in Patients with Homozygous Familial Hypercholesterolemia Receiving Lipid Apheresis
Evan A Stein, Metabolic and Atherosclerosis Res Ctr, Cincinnati, OH
Patrick Couture, Ctr Hospier Univire de Québec, Québec, QC, Canada

Randomized Evaluation of Anacetrapib Lipid-Modifying Therapy in Patients With Heterozygous Familial Hypercholesterolemia (REALIZE Study)
John JP Kastelein, Academic Medical Ctr, Amsterdam, Netherlands
Yale Mitchel, Merck & Co., Inc., Whitehouse Station, NJ

Coronary Plaque Burden Assessed With Coronary Computed Tomography Angiography Predicts Future Coronary Events in Patients With Familial Hypercholesterolemia
Hayato Tada, Kanazawa Univ, Kanazawa, Japan
Masakazu Yamagishi, Kanazawa Univ, Kanazawa, Japan

Statin-Induced Myopathy in Patients With Familial Hypercholesterolemia
Zahid Ahmad, UT Southwestern Medical Ctr, Dallas, TX
Abhimanyu Garg, UT Southwestern Medical Ctr, Dallas, TX

Molecular Genetics of Familial Hypercholesterolemia in Israel Revisited
Ronen Durst, Hadassah Hebrew Universtiy Medical Ctr, Jerusalem, Israel
Eran Leitersdorf, Hadassah Hebrew University Medical Ctr, Jerusalem, Israel

Genetic Regulation of Cardiomyocytes
APS.301.04h
South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

Mechanism of High Density Lipoprotein Remodeling Induced by CSL112
Svetlana Didichenko, CSL Behring AG, Berne, Switzerland
Samuel D Wright, CSL Behring, King of Prussia, PA
2061 The Role of Glucagon-Like Peptide-1 in the Immediate Improvement of Endothelial-Protective HDL Functions After Roux-en-Y Gastric Bypass in Obese Patients
Elena Osto, Cardiology Univ of Zuerich, Zuerich-Switzerland, Switzerland
Thomas F Luscher, Cardiology Univ of Zuerich, Zuerich-Switzerland, Switzerland

2062 Effects of the Cholesteryl Ester Transfer Protein Inhibitor, Evacetrapib, Administered as Monotherapy or in Combination With Statins on Cholesterol Efflux and HDL Particles in Patients With Dyslipidemia
Daniel J Rader, Univ of Pennsylvania, Philadelphia, PA
Bryan H Brewer, MedStar Heart Inst, Washington, DC

2063 Inhibition of CETP by Dalcetrapib Results in a Modest Increase in Cholesterol Efflux Capacity Associated With an Increase in Large HDL Particles, but Does Not Impact Carotid Intima-Media Thickness in a dalPLAQUE-2 Substudy
David Rhainds, Montreal Heart Inst, Montreal, QC, Canada
Jean-Claude Tardif, Montreal Heart Inst, Montreal, QC, Canada

2064 CSL112 Enhances Cholesterol Efflux Equally in Patients with High and Low High Density Lipoprotein Functionality
Andreas Gille, CSL Limited, Parkville, VIC, Australia
Samuel D Wright, CSL Behring, King of Prussia, PA

2065 Predictive and Protective Value of High Density Lipoprotein-Cholesterol for Cardiovascular Events in Patients With Acute Myocardial Infarction Who had Percutaneous Coronary Intervention and Statin Treatment
Jin Sup Park, Pusan Natl Univ Hosp, Busan, Republic of Korea
Taek Jong Hong, Pusan Natl Univ Hosp, Busan, Republic of Korea

2066 Does Elevated Myeloperoxidase Retard the Protective Association of HDL-C With Coronary Calcium and Cardiovascular Disease Risk?
Kirti Malhotra, UC Irvine Sch of Med, Irvine, CA
Nathan D Wong, Univ of California, Irvine, CA

2067 High-Density Lipoprotein Particle Concentration and Size Are Markers of Residual Cardiovascular Risk in a Coronary Catheterization Cohort
Robert W McGarrah, Duke Univ Hosp, Durham, NC
William E Kraus, Duke Univ Hosp, Durham, NC

2068 Oral Administration of Eicosapentaenoic Acid Ameliorates Anti-inflammatory Functions of High-Density Lipoprotein in Dyslipidemic Patients
Nobuaki Tanaka, Kobe Univ Graduate Sch of Med, Kobe, Japan
Ken-ichi Hirata, Kobe Univ Graduate Sch of Med, Kobe, Japan

2069 HDL Efflux Capacity Correlates with Mean HDL Size and HDL Particle Number: The Chicago Healthy Aging Study
Raja Kannan Mutharasan, Northwestern Univ, Chicago, IL
Colby Shad Thaxton, Northwestern Univ, Chicago, IL

Abstract Poster Session
APS.503.06h
Heart Failure: Cardiac Mechanics and Hemodynamic Changes
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

5171 Left-Atrial Contractile Contribution to Left Ventricle Filling is Preserved in Moderate Chronic Heart Failure
Brendan N Putko, Univ of Alberta, Edmonton, AB, Canada
Alberta HEART Investigators

5172 Impact of Arterial Compliance and Resistance on Left Ventricular Aging in Humans
Peter Wohlfahrt, Mayo Clinic, Rochester, MN
Barry A Borlaug, Mayo Clinic, Rochester, MN

5173 Determinants of Abnormal Cardiac Mechanics in Liver Transplant Candidates With Hepatic Steatosis
Crystal Medina, Northwestern Univ, Chicago, IL
Mary Rinella, Northwestern Univ, Chicago, IL

5174 Importance of Acute Hemodynamic Effects of Inhaled Nitric Oxide in Optimization of Heart Failure Treatment in Patients with Pulmonary Hypertension due to Left Heart Disease
Shunsuka Tatebe, Tohoku Univ Graduate Sch of Med, Sendai, Japan
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan

5175 Acute Venous Congestion Causes Angiotensin II formation via Angiotensin-Converting Enzyme Activation in Compensated Ambulatory Patients with Systolic Heart Failure
Paolo C Colombo, Columbia Univ, New York, NY
**Abstract Poster Session**

**APS.503.05**

**Heart Failure: Cardiopulmonary Stress Testing, Electrocardiograms and Holters**

South Hall A2 - Core 5  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Gregory Lewis, Boston, MA

5161 **Effect of Locomotor Muscle Afferent Feedback Inhibition on Cardiac Power During Submaximal Exercise in Heart Failure**  
Erik H VanIterson, Univ of Minnesota, Minneapolis, MN  
Thomas P Olson, Mayo Clinic-Rochester, Rochester, MN

5162 **Pulmonary Vascular Response to Metaboreflex Stimulation During Submaximal Exercise in Heart Failure**  
Erik H VanIterson, Univ of Minnesota, Minneapolis, MN  
Thomas P Olson, Mayo Clinic-Rochester, Rochester, MN

5163 **Misclassification of the Cause of Dyspnea by Resting Right Heart Catheterization: the Impact of Invasive Cardiopulmonary Exercise Testing**  
Mário Santos, Brigham and Women's Hosp, Boston, MA  
David M Systrom, Brigham and Women's Hosp, Boston, MA

5164 **Severity of Functional Mitral Regurgitation During Maximal Exercise Testing in Heart Failure: Additional Value of Combining Echocardiography with Cardiopulmonary Exercise Testing**  
Greta Generati, Heart Failure Unit, IRCCS Policlinico San Donato, San Donato Milanese, Italy  
Marco Guazzi, Heart Failure Unit, IRCCS Policlinico San Donato, San Donato Milanese, Italy

5165 **Pulmonary Arterial Aldosterone Levels Associate with Impaired Cardiac Reserve Capacity During Exercise in Left Ventricular Systolic Heart Failure Patients**  
Bradley A Maron, Brigham and Women's Hosp, and Harvard Medical Sch, Boston, MA  
Gregory D Lewis, Massachusetts General Hosp, Boston, MA

5166 **P-Wave Morphologic Characteristics of 12-Lead Surface Electrocardiography Were Associated With Left Ventricular Diastolic Dysfunction**  
Tomoyuki Kabutoya, Jichi Medical Univ Sch of Med, Shimotsuke, Tochigi, Japan  
Kazuomi Kario, Jichi Medical Univ Sch of Med, Shimotsuke, Tochigi, Japan

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**Abstract Poster Session**

**APS.506.04**

**Heart Failure: Exercise and More …**

South Hall A2 - Core 5  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Eldrin Lewis, Boston, MA

5266 **Evaluation of N-Terminal Pro-B-type Natriuretic Peptide as a Therapeutic Response Biomarker in Group I Pulmonary Arterial Hypertension**  
Aaron M Wolfson, Univ of Chicago, Chicago, IL  
Mardi Gomberg-Maitland, Univ of Chicago, Chicago, IL

5267 **Cardiac MIBG Imaging Predicts Cardiac Death in Patients With Chronic Heart Failure, Irrespective of Hyperuricemia**  
Satoshi Takahashi, Osaka General Medical Ctr, osaka, Japan  
Masatake Fukunami, Osaka General Medical Ctr, osaka, Japan
Clinical Characteristics and Outcomes of Patients With and Without Diabetes in the Surgical Treatment for Ischemic Heart Failure (STICH) trial
Michael R MacDonald, Golden Jubilee Natl Hosp, Glasgow, United Kingdom
Mark C Petrie, Golden Jubilee Natl Hosp, Glasgow, United Kingdom

Differences in Cardiopulmonary Exercise Test Data and Prognosis in Black and White Men with Heart Failure: the Henry Ford Hospital CardioPulmonary Exercise Testing (FIT-CPX) Project
Matthew A Saval, Henry Ford Hosp, Detroit, MI
Steven J Keteyian, Henry Ford Hosp, Detroit, MI

Diaphragmatic Breathing Retraining Intervention to Improve Dyspnea, Physical Activity, and Functional Status in Heart Failure Patients
Yae-won Seo, Univ of Nebraska Medical Ctr, Omaha, NE
Melody Hertzog, Univ of Nebraska Medical Ctr, Omaha, NE

Uber Analysis of Cardiopulmonary Exercise Test Variables and Mortality in Patients with Heart Failure: the Henry Ford Hospital CardioPulmonary Exercise Testing (FIT-CPX) Project
Ali Shafiq, Henry Ford Hosp, Detroit, MI
Steven J Keteyian, Henry Ford Hosp, Detroit, MI

Comparison Between Alcohol Septal Ablation and Myomectomy for Hypertrophic Obstructive Cardiomyopathy: A Meta-Analysis
Daniel Garcia, Univ of Miami, Miami, FL
Alan Heldman, Univ of Miami, Miami, FL

Clinical Predictors of Renal Failure in Heart Transplant Patients Following Initiation of Calcineurin Inhibitor Free Regimen
Omeed Elboudwarej, Cedars-Sinai Heart Inst, Los Angeles, CA
Jon Kobashigawa, Cedars-Sinai Heart Inst, Los Angeles, CA

Sex Differences in Clinical Characteristics and Outcomes of Patients with Heart Failure with Preserved Ejection Fraction - A Report from the CHART-2 Study
Karako Tsuii, Tohoku Univ Graduate Sch of Med, Sendai, Japan
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan

Right Ventricular Function is Associated with Long Term Survival in Patients Undergoing Cardiac Resynchronization Therapy
Antonia Delgado-Montero, Univ of Pittsburgh, Pittsburgh, PA
John Gorcsan, Univ of Pittsburgh, Pittsburgh, PA

Hypertension: Conduit Vessels and Endothelial Dysfunction

Small Aortic Root Dimension: A Contributor to Increased Arterial Stiffness in Hypertension (The Campania Salute Network Registry)
Mai Tone Lønnebakken, Univ of Bergen, Bergen, Norway
Giovanni de Simone, Federico II Univ Hosp, Naples, Italy

Increasing Age, Arterial Stiffness, and Ambulatory Blood Pressure
Marwah Abdalla, Columbia Univ Medical Ctr, New York, NY
Joseph E Schwartz, Columbia Univ Medical Ctr, New York, NY

Tracking of Central and Upper Limb Systolic Pressure Over the Normal Human Lifespan
Michael F O’Rourke, St Vincents Clinic, Sydney, Australia
Alberto Avolio, Macquarie Univ, Sydney, Australia

Calibration With Mean Blood Pressure is Essential for Utilization of Brachial Pulse Wave Analysis-Based Ambulatory Central Blood Pressure Monitor for Cardiovascular Patients
Toshihiro Shoji, Chiba Univ, Chiba, Japan
Yoshio Kobayashi, Chiba Univ, Chiba, Japan

Pressure and Pulsatility Jointly Impact the Prognosis of Stroke
Shao-Yuan Chuang, Natl Health Res Insts, Zhunan Town, Miaoli Country, Taiwan
Wen-Hann Pan, Inst of BioMedical Science, Taipei City, Taiwan

Vasodilator Use and Wave Intensity Patterns in Hypertension
Shivapriya Peddireddy, Univ of Pennsylvania, Philadelphia, PA
Patrick Segers, Ghent Univ, Ghent, Belgium
Tuesday, November 18 • Chicago, Illinois

Abstract Poster Session

7525 Relationships Between Renal Haemodynamics With Cardiac and Aortic Haemodynamics in the Early Stages of Essential Hypertension
Costas Tsioufis, First Cardiology Clinic, Univ of Athens, Hippokration Hosp, Athens, Greece
Christodoulos Stefanidis, First Cardiology Clinic, Univ of Athens, Hippokration Hosp, Athens, Greece

7526 Hemodynamic Correlates of Aortic Root Dimensions in an Adult Population: The Strong Heart Study
Giovanni de Simone, Federico II Univ Hosp, Naples, Italy
Richard B Devereux, Weill-Cornell Medical Coll, New York, NY

7527 Impact of Aldosterone Producing Adenoma on Endothelial Function and Rho-Associated Kinase Activity in Patients With Primary Aldosteronism
Takeshi Matsumoto, Hiroshima Univ Graduate Sch of Biomedical and Health Sciences, Hiroshima, Japan
Yasuki Kihara, Hiroshima Univ Graduate Sch of Biomedical and Health Sciences, Hiroshima, Japan

7528 Satellite Based Urban Land Cover and Proximity to Urban Center are Independent Predictors of Hypertension in a Southeast Asian Population
Mohan Thanikachalam, Tufts Univ Sch of Med, Boston, MA
Sadagopan Thanikachalam, Sri Ramachandra Univ, Porur, India

7529 Accessory Renal Arteries Perfuse a Substantial Fraction of Renal Mass: Studies in Renal Denervation Patients
Thomas Houghland, Minneapolis Heart Inst Fndn at Abbott Northwestern Hosp, Minneapolis, MN
Robert S Schwartz, Minneapolis Heart Inst Fndn at Abbott Northwestern Hosp, Minneapolis, MN

Central Hemodynamic Response to Oral Glucose Loading Are Blunted in Patients with Impaired Glucose Tolerance or Diabetes
Tadanao Higaki, Hiroshima Univ Graduate Sch of Biomedical and Health Sciences, Hiroshima, Japan
Yasuki Kihara, Hiroshima Univ Graduate Sch of Biomedical and Health Sciences, Hiroshima, Japan

7531 Masked Hypertension in Ischemic Stroke Patients
Sahrai Saed, Haukeland Univ Hosp, Bergen, Norway
Eva Gerds, Univ of Bergen, Bergen, Norway

7532 HMG-CoA Reductase Inhibition Enhances Renoprotective Effects of Angiotensin Receptor1 Antagonism in Salt-Sensitive Hypertensive Rats
Lina Hu, Nagoya Univ Sch Med, Nagoya, Japan
Kenji Okumura, Nagoya Univ Sch Med, Nagoya, Japan

7533 Association of Inter-Arm Blood Pressure Differences (iad) With Future Cardiovascular Events (cv) in the Patients With Coronary Artery Disease (cad)
Takanori Tokitsu, kumamoto university, Kumamoto, Japan
Hisao Ogawa, kumamoto university, Kumamoto, Japan

7534 Racial/Ethnic and Gender Disparities in Use of Drug-Eluting vs. Bare Metal Stents in ST-Elevation Myocardial Infarction Patients, 2006-2012
Jason L Salemi, Univ of South Florida, Tampa, FL
Elizabeth B Pathak, Univ of South Florida, Tampa, FL

6036 Does Age Modify Gender-based Differences in Clinical Outcomes Following Percutaneous Coronary Intervention (PCI)
Kleanthis Theodoropoulos, Mount Sinai Medical Ctr, New York, NY
Annapoorna Kini, Mount Sinai Medical Ctr, New York, NY

7530 The Gut Hormone Obestatin Induces Nitric Oxide-Dependent Vasodilation and Inhibits Endothelin-1 Activity in Obese Patients
Carmina Cardillo, Catholic Univ Medical Sch, Roma, Italy

Abstract Poster Session

APS.602.01 Identifying Risk and Best Outcomes for Coronary Stenting
South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Frederick Feit, New York, NY

Racial/Ethnic and Gender Disparities in Use of Drug-Eluting vs. Bare Metal Stents in ST-Elevation Myocardial Infarction Patients, 2006-2012
Jason L Salemi, Univ of South Florida, Tampa, FL
Elizabeth B Pathak, Univ of South Florida, Tampa, FL

Does Age Modify Gender-based Differences in Clinical Outcomes Following Percutaneous Coronary Intervention (PCI)
Kleanthis Theodoropoulos, Mount Sinai Medical Ctr, New York, NY
Annapoorna Kini, Mount Sinai Medical Ctr, New York, NY
TUESDAY AM

6038  The Incidence, Clinical Outcomes, and Risk Factors of Peri-contrast Staining after Second Generation DES Deployment
Takahiro Tokuda, Saiseikai Yokohama City Eastern Hospital, Yokohama, Japan
Yosuke Honda, Saiseikai Yokohama City Eastern Hospital, Yokohama, Japan

6039  The Clinical SYNTAX Score Has an Additive Predictive Value in High Risk Patients
Jeehoon Kang, Seoul Nati Univ, Seoul, Republic of Korea
Hyo-soo Kim, Seoul Nati Univ, Seoul, Republic of Korea

6040  Variation in Treatment and Outcomes in ACS: Insights from the Alberta Contemporary Acute Coronary Syndrome Patients Invasive Treatment Strategy (COAPT) Study
Kevin R. Bainey, Mazankowski Alberta Heart Inst and Univ of Alberta, Edmonton, AB, Canada
Robert C Welsh, Mazankowski Alberta Heart Inst and Univ of Alberta, Edmonton, AB, Canada

6041  Outcomes in Radiation Associated Cardiac Disease Patients that present with Coronary Artery Disease: Comparison between PCI and CABG
Ahmad Masri, Cleveland Clinic, Cleveland, OH
Milind Y Desai, Cleveland Clinic, Cleveland, OH

6042  The Incremental Impact of Residual SYNTAX Score on Long-Term Clinical Outcomes in Patients With Multivessel Coronary Artery Disease Treated by Percutaneous Coronary Interventions
Guy Witberg, Rabin Medical Ctr, Petach Tikva, Israel
Ran Komowski, Rabin Medical Ctr, Petach Tikva, Israel

6043  Incidence of Stent Complications detected by Optical Coherence Tomography and their Clinical Significance: One Year Follow up Study
Tsunenari Soeda, Massachusetts General Hosp, Boston, MA
Ik-Kyung Jang, Massachusetts General Hosp, Boston, MA

6044  Intraprocedural Thrombotic Events During PCI for ACS Are Associated With Increased Adverse Ischemic Events at 30 Days: A Meta-Analysis of Randomized Trials
Ramez Nairooz, Univ of Arkansas for Medical Sciences, Little Rock, AR
Dmitry N Feldman, Weill Cornell Medical Coll, New York Presbyterian Hosp, New York, NY

6045  Improved Clinical Outcomes of Patients Aged ≥75 Years Treated with Drug-Eluting Stents Compared to Bare Metal Stents in Large Coronary Arteries: Results from the Basket-Prove Randomized Trail
David J Kurz, Triemli Hosp, Zurich, Switzerland

Abstract Poster Session

Imaging of Congenital and Pediatric Heart Disease
South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenters Available: 9:30 - 11:00 AM

Poster Professor:
Andrew Powell, Boston, MA

Impact of Variability in Echocardiographic Interpretation on Assessment of Repair Following Congenital Heart Surgery
Anitha Parthiban, Children’s Mercy Hosp and Clinics, Kansas City, MO
Geetha Raghuvire, Children’s Mercy Hosp and Clinics, Kansas City, MO

Holodiastolic Flow Reversal at the Descending Aorta is Neither Sensitive Nor Specific for Significant Aortic Regurgitation: a Phase Contrast Magnetic Resonance Study
Matthew A. Harris, Childrens Hosp Philadelphia, Philadelphia, PA
Kevin K Whitehead, Childrens Hosp Philadelphia, Philadelphia, PA

Myocardial Mechanics of the Systemic Right Ventricle in Hypoplastic Left Heart Syndrome Through the Perinatal Transition
Santokh S Dhillon, Univ of Alberta, Edmonton, AB, Canada
Lisa Hornberger, Univ of Alberta, Edmonton, AB, Canada

Echocardiography Derived Velocity Time Integral is Associated with Double Switch Outcomes in Congenitally Corrected Transposition of the Great Arteries
Sowmya Balasubramanian, Lucile Packard Children’s Hosp, Stanford, Palo Alto, CA
Rajesh Punn, Lucile Packard Children’s Hosp, Stanford, Palo Alto, CA

Longitudinal Evaluation of the Diastolic to Systolic Time-velocity Integral Ratio as a Doppler Derived Measure of Pulmonary Regurgitant Fraction in Patients With Surgically Repaired Tetralogy of Fallot

Statistical Shape Modeling of the Right Ventricle Differentiates Stages of RV Remodeling in Children With Pulmonary Hypertension: An Initial Analysis on 26 Patients
Frank Agyei-Ntim, Univ of Colorado Anschutz Medical Campus, Aurora, CO
Robin Shandas, Univ of Colorado Anschutz Medical Campus, Aurora, CO
Correlation of 2D Strain for Intraoperative Assessment of Right Ventricular Mechanics with Admittance Catheters in Juvenile Pigs
Sandhya R Ramlogan, Children’s Mercy Hosp, Kansas City, MO
Girsh S Shirali, Children’s Mercy Hosp, Kansas City, MO

Fluid Dynamics and Flow Profiles in the Great Arteries in Patients with Transposition of the Great Arteries (TGA) after Arterial Switch Operation with or without Lecompte Maneuver on Long-term Follow-up
Carsten Rickers, Univ Hosp Kiel, Kiel, Germany
Hans Hinerk Sievers, Univ Hosp Lübeck, Lübeck, Germany

The Natural History of Doppler-Derived Left Ventricular Outflow Tract Gradients in Patients With Congenital Valvar Aortic Stenosis Before and After Balloon Valvuloplasty
Joseph D Kuebler, Boston Children’s Hosp, Boston, MA
David W Brown, Boston Children’s Hosp, Boston, MA

Abstract Poster Session
APS.707.01
Inflammation and Adhesion Molecules I
South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

MyD88 Expressed by Myeloid Cells is Essential for Angiotensin II-Induced Vascular Dysfunction, Inflammation and Arterial Hypertension
Sabine Kossmann, Univ Medical Ctr Mainz, Mainz, Germany
Philip Wenzel, Univ Medical Ctr Mainz, Mainz, Germany

Endogenous Del-1 is a Negative Regulator of Ischemia-induced Angiogenesis by Interacting With the Leukocytic LFA-1 Integrin
Sebastian Cremer, Goethe Univ Frankfurt, Frankfurt a.M., Germany
Emmanouil Chavakis, Goethe Univ Frankfurt, Frankfurt a.M., Germany

Diet-Induced Obesity Dysregulates Neutrophil-Maintained Bone Marrow Hematopoietic Niche and Induces Inflammatory Myelopoiesis
Norifumi Urao, Univ of Illinois at Chicago, Chicago, IL

Hematopoietic PI3-Kinase δ-Deficiency Exacerbates Lesional Macrophage Infiltration and Atherosclerosis in LDLR/- Mice
Mario Zierden, Univ Hosp of Cologne, Cologne, Germany
Stephan Rosenkranz, Univ Hosp of Cologne, Cologne, Germany

Insulin-like Growth Factor I (IGF-1) Reduces Chemokines and Recruitment of Monocytes Into Atherosclerotic Plaque: Potential Mechanism Mediating IGF-1-induced Atheroprotection
Sergiy Sukhanov, Tulane Univ Sch Med, New Orleans, LA
Patrick Delafontaine, Tulane Univ Sch Med, New Orleans, LA

Monocyte and Macrophage-Directed Peptide Amphiphile Micelles Modulate Cytoskeletal Organization and Target Atherosclerosis
Francis J Alenghat, Univ of Chicago, Chicago, IL

Macrophage-driven Expression of IL-37 Protects Against Atherosclerosis
Sara McCurdy, Univ of Hawaii, John A Burns Sch of Med, Honolulu, HI
William Boisvert, Univ of Hawaii, John A Burns Sch of Med, Honolulu, HI

Therapeutic Silencing of Leukocyte Adhesion Molecules in Atherosclerosis and Acute Myocardial Infarction
Hendrik B Sager, Massachusetts General Hosp, Boston, MA
Matthias Nahrendorf, Massachusetts General Hosp, Boston, MA

PARP9 and PARP14 are Novel Regulators of Macrophage Activation
Hiroshi Iwata, Brigham and Women’s Hosp, Boston, MA
Masanori Aikawa, Brigham and Women’s Hosp, Boston, MA
Abstract Poster Session

**APS.707.02**

**Inflammation and Adhesion Molecules II**

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Tohru Fukai, Chicago, IL

7198 **Mast Cells Regulate Cardiomyocyte Contractility and Myofilament Ca2+ Sensitization Following Myocardial Infarction**
Anta Ngkelo, INSERM U970, Paris, France
Jean-Sebastien Silvestre, INSERM U970, Paris, France

7199 **Imatinib Attenuates LPS-induced Inflammation and Vascular Leakage in Clinically Relevant Murine Models of Acute Lung Injury**
Alicia N Rizzo, Univ of Illinois Coll of Med at Chicago, Chicago, IL
Steven M Dudek, Univ of Illinois Coll of Med at Chicago, Chicago, IL

7200 **Simvastatin Upregulates Endothelial Cell Integrin β4 Expression by Promoter Activation and Epigenetic Modification**
Weiguo Chen, Univ of Illinois at Chicago, Chicago, IL
Jeffrey R Jacobson, Univ of Illinois at Chicago, Chicago, IL

7201 **Malat1 Regulates the Inflammatory Response of Endothelial Cells**
Katharina Michalik, Inst of Cardiovascular Regeneration, Frankfurt, Germany
Stefanie Dimmel, Inst of Cardiovascular Regeneration, Frankfurt, Germany

7202 **Methyltransferase Set7 Induces Epigenetic Signatures Leading to Vascular Inflammation and Dysfunction in Obese Individuals**
Sarah Costantino, Karolinska Inst, Stockholm, Sweden
Francesco Cosentino, Karolinska Inst, Stockholm, Sweden

7203 **Critical Role of Aryl Hydrocarbon Receptor in Uremic Toxic-induced Vascular Inflammation in vivo and in vitro**
Shunsuke Ito, Kureha Corp, Tokyo, Japan
Masayuki Yoshida, Tokyo Medical and Dental Univ, Tokyo, Japan

7204 **Role of Lox-1 in Mitochondrial Dna Damage and NLRP3 Inflammasome Activation**
Sadip Pant, Univ of Arkansas for Medical Sciences, Little Rock, AR
Jawahar L Mehta, Univ of Arkansas for Medical Sciences, Little Rock, AR

**APS.707.03**

**Inflammation and Adhesion Molecules III**

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Elena Galkina, Norfolk, VA

7208 **IL17 Contribute to the Atherosclerotic Development and the Initiation of Chronic Kidney Disease**
Yusuke Tanigaito, Tokyo Womens Medical Univ, Tokyo, Japan
Nobuhisa Hagiwara, Tokyo Womens Medical Univ, Tokyo, Japan

7209 **Impact of Rosuvastatin Treatment on Reduction of Thrombus Burden in Rat Acute Inferior Vena Cava Constriction**
Sarah Chua, Kaohsiung Chang Gung Memorial Hosp, Chang Gung Univ Coll of Med, Kaohsiung Hsien, Taiwan
Hon-Kan Yip, Kaohsiung Chang Gung Memorial Hosp, Chang Gung Univ Coll of Med, Kaohsiung Hsien, Taiwan

7210 **Cell Depletion Studies Identify CD8+ T cells as Mediators of Beneficial Effects of p210 Vaccination in Angiotesin-II Induced Aortic Aneurysm Formation and Rupture**
Tomoyuki Honjo, Cedars-Sinai Medical Ctr, Los Angeles, CA
Prediman K Shah, Cedars-Sinai Medical Ctr, Los Angeles, CA
Abstract Poster Session

Innovations in Myocardial Energetics/Intermediary Metabolism

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Shaodong Guo, Temple, TX

Calcium and Insulin Regulate the Novel Glucose Transporter 8 (GLUT8) in the Healthy and Diabetic Myocardium
Veronique Lacombe, Oklahoma State Univ, Stillwater, OK

High-fat Diet Prevents the Development and Progression of Left Ventricular Dysynchrony, Remodeling and Dysfunction in Mice with Metabolic Syndrome and Cardiomyopathy
Uri Amit, Neufeld Cardiac Res Inst and Sheba Ctr for Regenerative Med, Stem Cell, and Tissue Engineering, Tel-Aviv Univ, Tel-Hashomer, Israel

Ventricular Energetics in Fontan Circulation: A Potential Therapeutic Target for Preserving Myocardial Function
Hirofumi Saiki, Saitama Medical Ctr, Saitama Medical Univ, Kawagoe, Saitama, Japan

High-density Lipoprotein Modulates Cardiomyocyte Glucose Metabolism via an Insulin-independent Mechanism Involving Akt
Sarah E Heywood, Baker IDI Heart & Diabetes Inst, Melbourne, Australia

Cardiac-specific Deletion of GSK-3α and GSK-3β Leads to Fatal Dilated Cardiomyopathy With Mitotic Catastrophe
Jibin Zhou, Temple Univ, Philadelphia, PA
Thomas L Force, Vanderbilt Univ Medical Ctr, Nashville, TN

- Inflammasome Activation by Mitochondrial Oxidative Stress in Macrophages Leads to the Development of Angiotensin II-induced Aortic Aneurysm
Masafumi Takahashi, Jichi Medical Univ, Shimotsuke, Japan
Hiroaki Kimura, Jichi Medical Univ, Shimotsuke, Japan

- Mutation of MLX Gene Plays an Important Role in the Pathogenesis of Takayasu Arteritis by Promoting Inflammasome Formation
Yasuhiro Maejima, Tokyo Medical and Dental Univ, Tokyo, Japan
Mitsuaki Isobe, Tokyo Medical and Dental Univ, Tokyo, Japan

- Protein Glycan Side-Chains, Rosuvastatin Therapy, and Incident Vascular Events: An Analysis from the JUPITER Trial
Akintunde O Akinkuolie, Division of Preventive Medicine Brigham and Women’s Hosp and Harvard Medical Sch, Boston, MA, Boston, MA
Samia Mora, Division of Preventive Medicine Brigham and Women’s Hosp and Harvard Medical Sch, Boston, MA, Boston, MA

- C1q / tnf-Related Protein 9 Protects Against Acute Myocardial Injury
Takahiro Kambara, Nagoya Univ Graduate Sch of Med, Nagoya, Japan
Toyoki Murakami, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

- When Auto-Antibodies Potentiate: The Paradoxical Signalling Role of Anti-HSP27 Auto-antibody Immune Complexes Improves Athero-Protection
Edward R O’Brien, Libin Cardiovascular Inst of Alberta / Univ of Calgary, Calgary, AB, Canada

- The Activation of Nlrp3 Inflammasome Mediates Diet- and Chlamydia Pneumonia-Induced Acceleration of Atherosclerosis by Th17 Skewing
Shuang Chen, Cedars-Sinai Medical Ctr, Los Angeles, CA

- Amiodarone Treatments Improve the Inflammation in Heart Failure
Yusuke Tanigaito, Tokyo Womens Medical Univ, Tokyo, Japan
Nobuhisa Hagiwara, Tokyo Womens Medical Univ, Tokyo, Japan

- Calcium and Insulin Regulate the Novel Glucose Transporter 8 (GLUT8) in the Healthy and Diabetic Myocardium
Veronique Lacombe, Oklahoma State Univ, Stillwater, OK

- High-fat Diet Prevents the Development and Progression of Left Ventricular Dysynchrony, Remodeling and Dysfunction in Mice with Metabolic Syndrome and Cardiomyopathy
Uri Amit, Neufeld Cardiac Res Inst and Sheba Ctr for Regenerative Med, Stem Cell, and Tissue Engineering, Tel-Aviv Univ, Tel-Hashomer, Israel

- Ventricular Energetics in Fontan Circulation: A Potential Therapeutic Target for Preserving Myocardial Function
Hirofumi Saiki, Saitama Medical Ctr, Saitama Medical Univ, Kawagoe, Saitama, Japan
Hideaki Sennake, Saitama Medical Ctr, Saitama Medical Univ, Kawagoe, Saitama, Japan

- High-density Lipoprotein Modulates Cardiomyocyte Glucose Metabolism via an Insulin-independent Mechanism Involving Akt
Sarah E Heywood, Baker IDI Heart & Diabetes Inst, Melbourne, Australia
Andrew L Siebel, Baker IDI Heart & Diabetes Inst, Melbourne, Australia

- Cardiac-specific Deletion of GSK-3α and GSK-3β Leads to Fatal Dilated Cardiomyopathy With Mitotic Catastrophe
Jibin Zhou, Temple Univ, Philadelphia, PA
Thomas L Force, Vanderbilt Univ Medical Ctr, Nashville, TN
TUESDAY AM

Abstract Poster Session

APS.205.03

**Intervention Strategies to Reduce CV Risk or Promote Heart Health**

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Lynne Braun, Chicago, IL

**2148** Impact of Text Message Medication Reminders on Medication Adherence and Blood Pressure in a High Risk Urban Emergency Department Population
Aaron Brody, Wayne State Univ, Detroit, MI
Phillip D Levy, Wayne State Univ, Detroit, MI

**2149** My Unlimited Health Potential: 12 Month Effect of Participation in a Worksite Lifestyle Intervention Program on Significant Weight Loss and Eligibility Criteria for Bariatric Surgery Among High Risk Individuals
Lara Roberson, Baptist Health South Florida, Coral Gables, FL
Khurram Nasir, Baptist Health South Florida, Coral Gables, FL

**2150** Heart Healthy Living: A community Based, Culturally Sensitive Cardiovascular Disease Education Program for Chinese Women at Roxbury Tenants of Harvard
Laura Liu, Beth Israel Deaconess Medical Ctr, Boston, MA
Joanne Foody, Brigham and Women’s Hosp, Boston, MA

**2151** The Effect of Disclosing Genetic Risk for Coronary Heart Disease on Perceived Personal Control and Genetic Counseling Satisfaction: The MI-GENES Study
Christopher L Robinson, Saint Louis Univ, St Louis, MO
Iftikhar J Kullo, Mayo Clinic, Rochester, MN

**2152** Overcoming the Tyranny of Distance- an Analysis of Out-Reach Visits to Optimise Secondary Prevention of Cardiovascular Disease in High Risk Individuals Living in Central Australia
Simon Stewart, Baker Heart Res Inst, Melbourne, Victoria, Australia
on behalf of the CAHPS Trial Investigators

**2153** Individualized Risk Communication and Lay Outreach for the Primary Prevention of Cardiovascular Disease in Community Health Centers: a Randomized Controlled Trial
Stephen D Persell, Northwestern Univ Feinberg Sch of Med, Chicago, IL
Stephanie Luther, Heartland Health Outreach, Chicago, IL

**2154** Effects of Single Time Dietary Counselling by Dieticians on Salt Reduction in Cardiology Outpatients Who Consumed Large Amount of Salt
Tsuneaki Sadanaga, Ueki Hosp, Kumamoto, Japan
Shinichi Hirotta, Ueki Hosp, Kumamoto, Japan

**2155** Community Health Workers’ Roles in Facilitating Adoption of Heart Healthy Behaviors
Carina Katigbak, Boston Coll, Chestnut Hill, MA
Deborah Chyun, New York Univ, New York, NY

**2156** Weight Gain after Smoking Cessation Doesn’t Matter
Hisako Tsuji, Hlth Examination Ctr, Moriguchi Osaka, Japan
Ichiro Shiojima, Kansai Medical Univ, Hirakata, Osaka, Japan

**2157** Staying Connected: a CVD Risk Intervention for Young Black Women
Jo-Ann Eastwood, UCLA, Los Angeles, CA
Majid Sarrafzadeh, UCLA, Los Angeles, CA

Abstract Poster Session

APS.606.05h

**Intracoronary Imaging to Characterize Plaque and Stents**

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Bo Yu, Kagoshima City, Japan

**6232** Relation Between Renal Function and Neointimal Tissue Characteristics After Drug-Eluting Stent Implantation: Virtual Histology-Intravascular Ultrasound Analysis
Young Joon Hong, Chonnam Natl Univ Hosp., Gwangju, Republic of Korea
Jong Chun Park, Chonnam Natl Univ Hosp., Gwangju, Republic of Korea

**6233** Relationship Between Mitral Annular Calcifications and Plaque Morphology in Coronary Artery Disease: A Virtual Histology Intravascular Ultrasound(VH-IVUS) Study
Seong Hyoep Hyeon, Chung-Ang Univ Hosp, Seoul, Republic of Korea
Young Kim, Chung-Ang Univ Hosp, Seoul, Republic of Korea

**6234** Prognostic Impact of Tissue Protrusion After Stenting in Patients With Acute Coronary Syndrome: an Optical Coherence Tomography Study
Benjamin Bonnet, Univ Hosp Jean Minjoz, Besancon, France
Nicolas F Meneveau, Univ Hosp Jean Minjoz, Besancon, France
Tuesday, November 18  •  Chicago, Illinois

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Abstract Poster Session

APS.211.08

Lifestyle Factors and Metabolic Risk

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Steven Blair, Columbia, SC

2444

Lifestyle Interventions Reduce Ten-Year Risk of Atherosclerotic Cardiovascular Disease as Predicted by the Pooled Cohort Equations
Alan Hinderliter, Univ of North Carolina at Chapel Hill, Chapel Hill, NC
James Blumenthal, Duke Univ Medical Ctr, Durham, NC

2445

Dietary Choline and Betaine Intakes are Associated with Incident Cardiovascular Disease Events and Left Ventricular Mass: The Jackson Heart Study
Aurelian Bidulescu, Indiana Univ Bloomington, Bloomington, IN

2446

High Sensitivity Troponin T is Associated With Increased Heart Failure Risk in Metabolic Syndrome in the Atherosclerosis Risk in Communities (ARIC) Study
Yashashwi Pokharel, Baylor Coll of Med, Houston, TX
Vijay Nambi, Michael E DeBakey VA Medical Ctr, Houston, TX

2447

Predictors of Heart Failure and Death in a High Risk Diabetic Population: The DAVID-Berg Study
Lucio Mos, Sant’ Antonio Hosp, San Daniele, Italy
Paolo Palatini, Univ of Padova, Padova, Italy

2448

6235

Relationship Between Tissue Prolapse After Percutaneous Coronary Intervention and Its Relation With Neointimal Hyperplasia at Follow-up by Serial Optical Coherence Tomography Examination
Tomoyo Sugiyma, Yokosuka Kyosai Hosp, Yokosuka, Japan
Mitsuki Isobe, Tokyo Medical and Dental Univ, Tokyo, Japan

6236

Differential Changes in Plaque Behind the Stent After Bare-Metal and Drug-Eluting Stent Implantation in Humans: Implications for In-Stent Restenosis?
Ioannis Andreou, Brigham and Women’s Hosp, Boston, MA
Peter H Stone, Brigham and Women’s Hosp, Boston, MA
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<td>Fasting Glucose Positively Predicts Word Memory Performance in Older Men</td>
<td>Golomb, Beatrice Alexandra</td>
<td>Univ of California, San Diego, La Jolla, CA</td>
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<td>Parent-Offspring Association of Metabolic Syndrome in the Framingham Heart Study</td>
<td>Khan, Rumana J</td>
<td>Natl Human Genome Res Inst, Bethesda, MD</td>
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<td>Davis, Sharon K</td>
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<td>Coronary Artery Calcium Scoring Effectively Stratifies Long-Term Mortality Risk in Smokers and Non-Smokers</td>
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<td>Emory Univ Sch of Med, Atlanta, GA</td>
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<td>Shaw, Leslee J</td>
<td>Emory Univ Sch of Med, Atlanta, GA</td>
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<td>2452</td>
<td>Sleep Problems on Simvastatin Differentially Predict Weight Change in Men</td>
<td>Golomb, Beatrice Alexandra</td>
<td>Univ of California, San Diego, La Jolla, CA</td>
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<td>Bui, Alexis</td>
<td>Univ of California San Diego, La Jolla, CA</td>
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<td>2453</td>
<td>Association of Insulin Resistance and Dysglycemia With Components of Blood Pressure: A Study From the Hispanic Community Health Study/Study of Latinos</td>
<td>Bello, Natalie A</td>
<td>Brigham and Women’s Hosp, Boston, MA</td>
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<td>Cheng, Susan</td>
<td>Brigham and Women’s Hosp, Boston, MA</td>
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**Abstract Poster Session**

**APS.202.05 Lipids, Lipoprotein Metabolism and Biomarkers**

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Mahmood Hussain, Brooklyn, NY

**2070 Extreme Hypercholesterolemia Exacerbated by Breast Feeding: Infantile Cases of Sitosterolemia With Novel Mutations in ABCG5 Gene**

Tada, Hayato; Kanazawa Univ, Kanazawa, Japan

Masakazu Yamagishi, Kanazawa Univ, Kanazawa, Japan

**2071 Impact of Subclinical Hypothyroidism on Lipid and Lipoprotein Subclasses**

Harada, Paulo H; Brigham and Women’s Hosp, Boston, MA

Mora, Samia; Brigham and Women’s Hosp, Boston, MA

**2072 Proteomic Analysis of Chylomicron Remnants Isolated by Apolipoprotein B-48 Immunoprecipitation**

Masuda, Daisaku; Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan

Yamashita, Shizuya; Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan

**2073 Serum Apolipoprotein B-48 levels Are Significantly Correlated with Plaque Score of Carotid Arteries**

Masuda, Daisaku; Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan

Yamashita, Shizuya; Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan

**2074 Plasma Lipid Profiling to Predict Cardiovascular Events in Type 2 Diabetes**

Alshehry, Zahir H; Melbourne Univ - Baker IDI, Melbourne, Victoria 3004, Australia

Meikle, Peter J; Baker IDI, Melbourne, Victoria 3004, Australia

**2075 Circulating IGFBP-2 Levels are Incrementally Linked to Correlates of the Metabolic Syndrome and Independently Associated With VLDL Triglycerides**

Carter, Sophie; Québec Heart and lung institute, Québec, QC, Canada

Picard, Frédéric; Québec Heart and lung institute, Québec, QC, Canada

**2076 Determining the Optimal Cutpoint Value for the Diagnosis of Hypertriglyceridemia in the Nonfasting Population**

White, Khendi T; Brigham and Women’s Hosp, Boston, MA

Mora, Samia; Brigham and Women’s Hosp, Boston, MA

**2077 Effect of Intensive versus Moderate Lipid-Lowering Therapy on the Progression of Coronary Lipid-Rich Plaque: A Prospective, Randomized, Serial Combined Optical Coherence Tomography and Intravascular Ultrasound Study**

Hou, Jingbo; Second Affiliated Hosp of Harbin Medical Univ, Harbin, China

Jang, Ik-Kyung; Massachusetts General Hosp, Boston, MA

**2078 Impact of Baseline PCSK9 Levels on the Efficacy of Evolocumab, a Monoclonal Antibody Against PCSK9**

Desai, Nihar; Yale Sch of Med, New Haven, CT

Sabatine, Marc; TIMI Study Group, Boston, MA

**2079 Safety and Tolerability of Very Low LDL-C Levels in Patients Treated with 52 Weeks of Evolocumab (AMG 145)**

Koren, Michael J; Jacksonville Ctr for Clinical Res, Jacksonville, FL

Sabatine, MS; Brigham and Women’s Hosp, Boston, MA
Abstract Poster Session

APS.108.04
Magnetic Resonance Imaging: Heart (Ischemia/Infarction)
South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
David A Bluemke, Bethesda, MD

1281 First-in-Human Dual Manganese- and Gadolinium-Enhanced Cardiac MRI Delineates the Peri-Infarct Region in Patients with Severe Ischemic Cardiomyopathy
Rajesh Dash, Stanford Univ Medical Ctr, Stanford, CA
Phillip C Yang, Stanford Univ Medical Ctr, Stanford, CA

1282 Molecular Magnetic Resonance Imaging Allows Detection of Reduced Ischemia-Reperfusion Injury in P2Y12 Knockout Mice
Constantin von zur Muhlen, Univ, Freiburg, Germany

1283 Cardiovascular Magnetic Resonance Imaging Based Detection of Chronic Iron Deposition within Non-Reperfused Myocardial Infarctions
Avinash Kali, Cedars-Sinai Medical Ctr, Los Angeles, CA
Rohan Dharmakumar, Cedars-Sinai Medical Ctr, Los Angeles, CA

1284 Ultramall Supraparamagnetic Particles of Iron Oxide-enhanced Magnetic Resonance Imaging in the Assessment of Cellular Inflammation after Myocardial Infarction
Colin G Stirrat, Univ of Edinburgh, Edinburgh, United Kingdom
Scott Semple, Univ of Edinburgh, Edinburgh, United Kingdom

1285 Direct in vivo Quantification of Intraplaque Hemorrhage and Fat in Atherosclerosis by Magnetic Resonance Imaging
Sandeep Koppal, Linköping Univ, Linköping, Sweden
Ebo D de Muinck, Linköping Univ, Linköping, Sweden

1286 Regional Coronary Endothelial Function is Related to Coronary Wall Eccentricity on MRI
Allison Hays, Johns Hopkins, Baltimore, Md
Robert G Weiss, Johns Hopkins, Baltimore, Md

1287 Is Cold Pressor Cardiac Magnetic Resonance Imaging Testing Useful for Detection of Coronary Endothelial Dysfunction?
Sherwin Della Cruz, Cedars-Sinai Medical Ctr, Los Angeles, CA
C Noel Baiery Merz, Cedars-Sinai Medical Ctr, Los Angeles, CA

Usefulness of Early Release Peak of Cardiac Biomarkers for Detection of Myocardial Infarction Related to Coronary Revascularization Procedures. A Cardiac Magnetic Resonance Study
Whady Hueb, Heart Inst (InCor) Univ of São Paulo, São Paulo, Brazil
Roberto Kalil Filho, Heart Inst (InCor) Univ of São Paulo, São Paulo, Brazil

Biomarkers Release After Percutaneous Coronary Intervention in Patients Without Definitive Myocardial Infarction Assessed by Cardiac Magnetic Resonance With Late Gadolinium Enhancement. a Prospective Trial Using the Third Universal Definition of Myocardial Infarction
Whady Hueb, Heart Inst (InCor) Univ of São Paulo, São Paulo, Brazil
Roberto Kalil Filho, Heart Inst (InCor) Univ of São Paulo, São Paulo, Brazil

Baseline Myocardium At-Risk Predicts Subsequent Myocardial Injury in Non ST-Segment Elevation Acute Coronary Syndrome
Henry Chang, The Ohio State Univ, Columbus, OH
Subha V Raman, The Ohio State Univ, Columbus, OH

Abstract Poster Session

APS.108.05
Magnetic Resonance Imaging: Heart (Ischemia/Infarction and Flow Reserve)
South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Hajime Sakuma, Tsu, Mie, Japan

1291 Native T1-based Cardiovascular Magnetic Resonance for Characterizing Chronic Myocardial Infarctions: Proof-of-Concept Study in Canines
Avinash Kali, Cedars-Sinai Medical Ctr, Los Angeles, CA
Rohan Dharmakumar, Cedars-Sinai Medical Ctr, Los Angeles, CA

1292 Temporal and Spatial Characteristics of the Area at Risk Investigated using Computed Tomography and T1-weighted Magnetic Resonance Imaging
Jesper van der Pals, Natl Insts of Health, Bethesda, MD
Andrew E Arai, Natl Insts of Health, Bethesda, MD

1288

1289

1290
1293 Native T1-based Cardiovascular Magnetic Resonance Imaging for Characterizing Chronic Myocardial Infarctions in Patients
Avinash Kali, Cedars-Sinai Medical Ctr, Los Angeles, CA
Rohan Dharmakumar, Cedars-Sinai Medical Ctr, Los Angeles, CA

1294 A Less-Invasive and Quantitative Prediction for Periprocedural Myocardial Injuries During Elective Percutaneous Coronary Intervention by Detection of High-intensity Plaques on Non-contrast T1-weighted Magnetic Resonance Imaging
Yasuhide Asaumi, Nati Cerebral and Cardiovascular Ctr, Suita, Japan
Satoshi Yasuda, Nati Cerebral and Cardiovascular Ctr, Suita, Japan

1295 Magnetohydrodynamic Quantification of the Peripheral Perfusion Index in High-field MRI
T Stan Gregory, The Univ of Georgia, Athens, GA
Zion Tsz Ho Tse, The Univ of Georgia, Athens, GA

1296 A Novel Technique for Respiratory Motion Correction in Rapid Left Ventricular Myocardial T1 Mapping and Quantitative Analysis of Myocardial Fibrosis
Keigo Kawaji, Univ of Chicago, Chicago, IL
Amit R Patel, Univ of Chicago, Chicago, IL

1297 Assessment of Diffuse Myocardial Fibrosis With Native T1 Values on Cardiovascular Magnetic Resonance and Its Relationship With Myocardial Function in Asymptomatic Aortic Stenosis Patients
Seung-Pyo Lee, Seoul Nati Univ Hosp, Seoul, Republic of Korea
Dae-Won Sohn, Seoul Nati Univ Hosp, Seoul, Republic of Korea

1298 Prevalence and Correlation of Abnormal Flow Reserve by Stress Cmr and Coronary Artery Plaque by Cardiac CTA in Symptomatic Patients With Diabetes
Yasmin S Hamirani, Univ of Virginia, Charlottesville, VA
Jamieson Bourque, Univ of Virginia, Charlottesville, VA

1299 Cardiac Magnetic Resonance Assessment of Absolute Myocardial Blood Flow and Myocardial Perfusion Reserve Compared With FFR in Patients With Coronary Artery Disease
Yoshihisa Kanaji, Tsuchiura Kyoudou Hosp, Tsuchiura, Japan
Tsunekazu Kakuta, Tsuchiura Kyoudou Hosp, Tsuchiura, Japan

1300 Higher CHADS2 Score is Associated With Impairment of Coronary Flow Reserve Evaluated by Phase-Contrast Cine Cardiovascular Magnetic Resonance Imaging
Hidekuni Kirigaya, Kanagawa Cardiovascular and Respiratory Ctr, Kanazawa-ku, Yokohama, Japan
Satoshi Umemura, Yokohama City Univ, Kanazawa-ku, Yokohama, Kanagawa, Japan

Abstract Poster Session

Markers of Outcome and Care in Cardiac Arrest

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM
Poster Professor:
Jon Rittenberger, Pittsburgh, PA

The Association between HMG-CoA Reductase Inhibitor Use and Neurological Outcome Following Cardiac Arrest in Patients Treated with Therapeutic Hypothermia
Benjamin Holmes, Vanderbilt Univ Medical Ctr, Nashville, TN
John McPherson, Vanderbilt Univ Medical Ctr, Nashville, TN

Polarizing State Induced by Adenosine, Lidocaine and Magnesium Administration After Prolonged Circulatory Arrest Improves Cardioprotection and Neuroprotection in a Rat Model of Cardiac Arrest With Extracorporeal Life Support
Alessio Rungatscher, Univ of Verona, Verona, Italy
Giuseppe Faggian, Univ of Verona, Verona, Italy

A Bundled Approach to Improving Code Team Response for In-hospital Cardiac Arrest to Decrease Overcrowding and Improve Role Clarity and Leadership
Marion Leary, Univ of Pennsylvania, Philadelphia, PA
William Schweickert, Univ of Pennsylvania, Philadelphia, PA

Spectral Analysis-Based Risk Score to Early Predict Mortality and Cerebral Performance in Patients Undergoing Therapeutic Hypothermia for Ventricular Fibrillation and Comatose Status
David Filgueiras-Rama, Fundacion Ctr Nacional de Investigaciones Cardiovasculares, Madrid, Spain
José Millet, Bio-ITACA Grupo de Bioingenieria Univ Politècnica de Valencia, Valencia, Spain

Protein Profiling for Survival Outcome Prediction in Out-of-Hospital Cardiac Arrest Patients
Chien-Hua Huang, Natl Taiwan Univ Hosp, Taipei, Taiwan
Wen-Jone Chen, Lotung Poh-Ai Hosp, Taipei, Taiwan

Implementation of Modified Early Warning Score (MEWS) Reduces in Hospital Mortality and Hospital Length of Stay
Kevin Stiver, Ohio State University Wexner Medical Ctr, Columbus, OH
Ruchika Husa, Ohio State University Wexner Medical Ctr, Columbus, OH

Tuesday, November 18 • Chicago, Illinois
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<td>4359</td>
<td>Time Series Feature Extraction and Machine Learning for Prediction of In-Hospital Cardiac Arrest</td>
<td>Sharad Shandilya, SciCore Technology, Chesterfield, VA Kayvan Najarian, Univ of Michigan, Ann Arbor, MI</td>
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<td>4360</td>
<td>Akt1 Deficiency Blocks Hypothermia Protection and Increases Plasma PBEF after Murine Sudden Cardiac Arrest</td>
<td>Jing Li, Univ of Illinois at Chicago, Chicago, IL Terry L Vanden Hoek, Univ of Illinois at Chicago, Chicago, IL</td>
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<td>4361</td>
<td>Plasma Heme oxygenase-1 Predicts Mortality and Neurological Outcome after Out-of-Hospital Ventricular Fibrillation</td>
<td>Juuso Siren, Minerva Fndn Inst for Medical Res, Helsinki, Finland Päivi Lakkisto, Minerva Fndn Inst for Medical Res, Helsinki, Finland</td>
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<td>4362</td>
<td>Different Expression in Targeted Metabolomic Study Between Normothermia and Hypothermia Treatment After Cardiac Arrest</td>
<td>Chien-Hua Huang, Natl Taiwan Univ Hosp, Taipei, Taiwan Wen-Jone Chen, Lotung Poh-Ai Hosp, Yi-Lang, Taiwan</td>
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<td>7221</td>
<td>Microvascular Dysfunction in Patients with ST-Elevation Myocardial Infarction after Primary Percutaneous Coronary Intervention: No Sex Disparity</td>
<td>Annie Y Chou, UBC, Vancouver, BC, Canada Krishnan Ramanathan, St Paul's Hosp, Vancouver, BC, Canada</td>
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<td>7222</td>
<td>Assessment of Microvascular Dysfunction by Transthoracic Echocardiography Compared to Positron Emission Tomography</td>
<td>Marie M Michelsen, Bispebjerg Univ Hosp, Copenhagen, Denmark Eva Prescott, Bispebjerg Univ Hosp, Copenhagen, Denmark</td>
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<td>7223</td>
<td>Aging Inhibits Angiogenic Response in a Rat Model of Hindlimb Ischemia: A HUR-VEGF Dependent Mechanism</td>
<td>Chang-Ning Hao, Xin Hua Hosp, Shanghai Jiao Tong Univ, Shanghai, China Jun-Li Duan, Xin Hua Hosp, Shanghai Jiao Tong Univ, Shanghai, China</td>
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<td>7224</td>
<td>Therapeutic Angiogenesis Induced by Human Trx-1 Gene in Mice Hind Limb Ischemia Model: Preclinical Study for Treatment of Peripheral Artery Disease</td>
<td>Mahesh Thirunavukkarasu, Univ of Connecticut Medical Ctr, Farmington, CT Nilanjana Maulik, Univ of Connecticut Health Ctr, Farmington, CT</td>
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<td>7226</td>
<td>Renal Microvascular Dysfunction is Related to Endothelial-Dependent Coronary Microvascular Dysfunction: a Report From the Women's Ischemia Syndrome Evaluation</td>
<td>Sofy Landes, Cedars-Sinai Medical Ctr, Los Angeles, CA Noel Bairey Merz, Cedars-Sinai Medical Ctr, Los Angeles, CA</td>
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**Abstract Poster Session**

APS.708.01  
**Microcirculation and Cerebral/Coronary/Peripheral Circulation I**

**South Hall A2 - Core 7**  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**BOARD #**  
**Poster Professor:**  
Vahagn Ohanyan, Rootstown, OH

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<td>7218</td>
<td>Visualization of Flow and Movement of Lymphatic Valves in Biological Pumps Made From Engineered Heart Tissue</td>
<td>Narine Sarvazyan, The George Washington Univ, Washington, DC</td>
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<td>7219</td>
<td>Synchrotron Radiation Coronary Microangiography for Evaluating Changes in the Caliber of the in vivo Rat Coronary Artery After Endothelin Administration</td>
<td>Hiroaki Sakamoto, Univ of Tsukuba, Tsukuba, Japan Yuji Hiramatsu, Univ of Tsukuba, Tsukuba, Japan</td>
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<td>7220</td>
<td>Diabetes Mellitus and Ischemic Heart Disease Susceptibility: Which is the Influence of Genetic Polymorphisms for KATP Channels?</td>
<td>Paolo Severino, Sapienza Univ of Rome, Rome, Italy Francesco Fedele, Sapienza Univ of Rome, Rome, Italy</td>
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Tuesday, November 18  •  Chicago, Illinois

Abstract Poster Session

APS.708.02

**Microcirculation and Cerebral/Coronary/Peripheral Circulation II**

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Shane Phillips, Chicago, IL

7228 **Increased Blood Pressure in Preterm-Born Individuals Correlates With a Distinct Antiangiogenic State and Microvascular Abnormalities in Adult Life**
Adam J Lewandowski, Univ of Oxford, Oxford, United Kingdom
Paul Leeson, Univ of Oxford, Oxford, United Kingdom

7229 **Involvement of Hydrogen Sulfide (H2S) in Dexamethasone (DEX) Induced Hypertension in Rat**
Emerina Donnarumma, Univ of Naples “Federico II”, Naples, Italy
Raffaella Sorrentino, Univ of Naples “Federico II”, Naples, Italy

7230 **Dietary Endotoxin Mediated Impairments in Mesenteric Lymphatic Vessel Contractility is Regulated by Neighboring Immune Cells in Mesentery**
Mariappan Muthuchamy, Texas A&M Health Science Ctr Coll of Med, Temple, TX

7231 **Traumatic Brain Injury-Induced Increased Pial Venular Permeability is Ameliorated With Endothelial Progenitor Cells and the Stromal Vascular Fraction Cells in Mice**
Nino Muradashvilli, Univ of Louisville, Louisville, KY
David Lominadze, Univ of Louisville, Louisville, KY

7232 **Involvement of Adventitial Vasa Vasorum and Sympathetic Nerves in Coronary Hyperconstricting Responses After Drug-eluting Stent Implantation in Pigs in vivo**
Hironori Uzuka, Tohoku Univ Graduate Sch of Med, Sendai, Japan
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan

7233 **Physiological Basis of Discordance Between Coronary Flow Reserve and Hyperemic Microvascular Resistance to Evaluate Coronary Microvascular Dysfunction in Patients Without Atherosclerotic Obstruction**
Kenshi Yamanaka, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

7234 **The Role of Capillary Disorder in Coronary Ischemic Congestive Heart Failure in Rats**
Jiqiu Chen, Mount Sinai Sch of Med, New York, NY

7235 **Gender Differences in Impact of CYP2C19 Polymorphism and Low Grade Inflammation on Coronary Microvascular Disease**
Tomonori Akasaka, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

7236 **Development of a Novel Model to Mimic Ischemic Microenvironments**
Akshay Menon, Hannover Medical Sch, Hannover, Germany
Jörn Tonnens, Hannover Medical Sch, Hannover, Germany

7237 **De-Sumoylation and Phosphorylation of Magi1 Induce Microcirculation Dysfunction via Endothelial P90rsk Activation in Endotoxemia**
Nhat Tu Le, Univ of Rochester, Rochester, NY
Jun-Ichi Abe, Univ of Rochester, Rochester, NY

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Abstract Poster Session

APS.708.03h

**Microcirculation and Cerebral/Coronary/Peripheral Circulation III**

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
James Sowers, Kansas City, MO

7238 **Early Coronary Atherosclerotic Morphology in Pseudoxanthoma Elasticum: Images From Intravascular Ultrasound and Optical Coherence Tomography**
Hayato Tada, Kanazawa Univ, Kanazawa, Japan
Masakazu Yamagishi, Kanazawa Univ, Kanazawa, Japan

7239 **Layer Specific Quantification of Myocardial Deformation by Strain Echocardiography May Detect Micro Vascular Obstruction and Hemorrhage in Patients With Acute Myocardial Infarction After Reperfusion**
Cheuk-Man Yu, Prince of Wales Hosp, Hong Kong, Hong Kong

7240 **Sonoreperfusion Therapy for Microvascular Obstruction Using Microbubbles and Low Dose tPa**
Sebastiaan T Roos, VUmc, Amsterdam, Netherlands
John J Pacella, Univ of Pittsburgh, Pittsburgh, PA
7241 Distinct Endothelial Function in Patients With Chronic Total Occlusion With Preserved Myocardial Viability
Yuichiro Arima, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

7242 Endothelial Function is Impaired in Peripheral Arterial Disease With Borderline Ankle-Brachial Index
Masato Kajikawa, Hiroshima Univ Graduate Sch of Biomedical Sciences, Hiroshima, Japan
Yasuki Kihara, Hiroshima Univ Graduate Sch of Biomedical Sciences, Hiroshima, Japan

Abstract Poster Session
APS.516.03h Mitochondria and Metabolism

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
Hossein Ardehali, Chicago, IL

5601 Lysine Acetylation of Pyruvate Dehydrogenase Reduces Enzymatic Activity and Contributes to Impaired Substrate Metabolism in the Failing Myocardium
Xiaokan Zhang, Columbia Univ Medical Ctr, New York, NY
P Christian Schulze, Columbia Univ Medical Ctr, New York, NY

5602 WITHDRAWN

5603 Sirt2 Mediated-Deacetylation Regulates Cellular Iron Homeostasis
Xiaoyan Yang, Northwestern Univ, Chicago, IL
Hossein Ardehali, Northwestern Univ, Chicago, IL

5604 Disruption of Outer Mitochondrial Membrane Protein, MitoNEET, Increases Mitochondrial Iron Content in the Heart
Takaaki Furihata, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan
Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

5605 SIRT3 Protects Cardiomyocytes From Doxorubicin-induced Mitochondrial Damage and Cell-death by Activating Opal1
Sadhana Samant, Univ Chicago, Chicago, IL
Mahesh Gupta, Univ Chicago, Chicago, IL

Abstract Poster Session
APS.301.01 Mutations in Cardiac Disease

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
Elizabeth McNally, Chicago, IL

3001 A Complex Cardiac Rhythm and Conduction Abnormalities in Three Families Carrying a SCNSA Missense Mutation May Involve Single Nucleotide Polymorphisms in SCN5A and RYR2 genes
Erika Antunez-Arquelles, Univ of Michigan, Ann Arbor, MI
Carmen R Valdivia, Univ of Michigan, Ann Arbor, MI

3002 LMNA Cardiomyopathy Mimicking Arrhythmogenic Right Ventricular Cardiomyopathy
Koichi Kato, Shiga University of Medical Science, Otsu, Japan
Minoru Horie, Shiga University of Medical Science, Otsu, Japan

3003 The p.Leu167del Mutation in APOE Gene causes Autosomal Dominant Hypercholesterolemia by Down-Regulation of LDL Receptor Expression in Hepatocytes
Ana Cenarro, Hosp Univ Miguel Servet, Zaragoza, Spain
Fernando Civeira, Hosp Univ Miguel Servet, Zaragoza, Spain

3004 Arrhythmogenic Cardiomyopathy Mutations Cause Disassembly of the Cx43 Forward Trafficking Machinery Which Can Be Rescued by GSK-3β Inhibition
Shan-Shan Zhang, Heart Inst, Cedars-Sinai Medical Ctr, Los Angeles, CA
Andre G Kleber, BIDMC, Harvard Medical Sch, Boston, MA

3005 FLNC Gene Splice Mutation Causes Dilated Cardiomyopathy in Two Families
Rene L Begay, Univ of Colorado Denver - Anschutz Medical Campus, Aurora, CO
Matthew R G Taylor, Univ of Colorado Denver - Anschutz Medical Campus, Aurora, CO

3006 Genome Editing Identifies a Functional Role for the Lead Variant at the ZC3HC1 Coronary Artery Disease Risk Locus in Cell Cycle Regulation
Peter D Jones, Univ of Leicester, Leicester, United Kingdom
Nilesh J Samani, Univ of Leicester, Leicester, United Kingdom

3007 The Transcriptional Cofactor Eyes Absent 4 is a Critical Regulator for Maintaining Normal Cardiac Function
Tatjana Williams, Univ Hosp of Wuerzburg, Wuerzburg, Germany
Oliver Ritter, Univ Hosp of Wuerzburg, Wuerzburg, Germany
Tuesday, November 18  •  Chicago, Illinois

3009  A PEDSA Gene Mutation Affecting Risk of Myocardial Infarction
Tan An Dang, Deutsches Herzzentrum Muenchen, Munich, Germany
Heribert Schunkert, Deutsches Herzzentrum Muenchen, Munich, Germany

3010  Notch1 Haploinsufficiency Increases Risk of Congenital Heart Defects in the Setting of Maternal Diabetes by an Epigenetic Mechanism
Madhumita Basu, Nationwide Children’s Hosp, Columbus, OH
Vidu Garg, Nationwide Children’s Hosp, Columbus, OH

APS.511.01  Myocardial Injury and Inflammation

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

5456  Myeloid-specific Deletion of the Glucocorticoid Receptor Increases Mitochondrial Oxidative Stress and Impairs Wound Healing After Myocardial Infarction
Jonas Neuser, Hannover Medical Sch, 30625 Hannover, Germany
Johann Bauersachs, Hannover Medical Sch, 30625 Hannover, Germany

5457  Determinants of VT Occurrence in Patients With Nonischemic and Dilated Cardiomyopathy: Insights From the Study of Explanted Human Hearts
Lucas Valtuille, Univ of Alberta Hosp, Edmonton, AB, Canada
Gavin Y Oudt, Univ of Alberta Hosp, Edmonton, AB, Canada

5458  Impaired Extracellular Matrix Turnover is Ameliorated by Exercise Training in Short-Term Experimental Diabetic Cardiomyopathy
Fernando A Dias, Federal Univ of Paraná, Curitiba, Brazil

5459  Transition From Adipose to Fibrotic Tissue in the Atrial Subepicardium in Humans and in a Sheep Model of Atrial Fibrillation
Peter Haemers, KULeuven, Leuven, Belgium
Stephane Hatem, Inst of Cardiometabolism and Nutrition, Paris, France

5460  Characterization of Cardiac-resident Leukocyte Populations in the Steady-state and During Aging
Anne van den Berg, Univ Clinic Wuerzburg and Comprehensive Heart Failure Ctr, Wuerzburg, Germany
Stefan Frantz, Univ Clinic Wuerzburg and Comprehensive Heart Failure Ctr, Wuerzburg, Germany

5461  Viral Myocarditis: Viral Genome Detection Yield on Endomyocardial Biopsy is Influenced by Methodological Factors
Cristina Basso, Univ of Padova, Padova, Italy

5462  Altered Nito/sRedox Balance in Dystrophic Cardiomyopathy is Associated With NOS1 Uncoupling
Raul A Dulce, Univ of Miami Miller Sch of Med, Miami, FL
Joshua M Hare, Univ of Miami Miller Sch of Med, Miami, FL

5463  Global Myocardial Injury as a New Criterion Independent of Infarct Size and Area-at-risk
Ming Zhao, Northwestern Univ, Chicago, IL

5464  SPARC Deletion Suppresses Age-related Cardiac Inflammation
Hiroe Toba, Univ of Mississippi Medical Ctr, San Antonio Cardiovascular Proteomics Ctr, and Kyoto Pharmaceutical Univ, Jackson, MS
Amy D Bradshaw, Medical Univ of South Carolina and Ralph H Johnson Dept of Veterans Affairs Medical Ctr, Charleston, SC

5465  Tenascin-c Modulates Inflammatory Response and Aggravate Ventricular Remodeling After Myocardial Infarction in Mice Model
Taizo Kimura, Univ of Tsukuba, Tsukuba, Japan
Kazutaka Aonuma, Univ of Tsukuba, Tsukuba, Japan

APS.609.01  Myocardial Protection, Intraoperative Management and Postoperative Critical Care

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

6272  Activation of Sirtuin 3 Protects the Heart From Ischemia-Reperfusion Injury by Increased Cellular Antioxidant Defenses
Zhiqun Zhang, Duke Univ Medical Ctr, Durham, NC
Mihai V Podgoreanu, Duke Univ Medical Ctr, Durham, NC
6273  
Glucagon-Like-Peptide-1 Receptor Preserves Cardiac Performance and Attenuates Remodeling Through Mkk3 in Infarcted Hearts  
Ting C Zhao, Roger William Medical Ctr, Providence, RI  

6274  
Early Myocardial Gene Expression Profiling After Deep Hypothermic Circulatory Arrest Reveals Ontogenetic Adaptive Mechanisms Underlying Ischemia-Reperfusion Tolerance in the Swine  
Miki Yamada, Duke Univ, Durham, NC  
Mihal Pogoreanu, Duke Univ, Durham, NC  

6275  
Post-ischemic Myocardial Insulin Resistance Induced by Tnf-α Overproduction Precipitates the Development of Heart Failure After Myocardial Infarction  
Feng Fu, Fourth Military Medical Univ, Xian, China  
Feng Gao, Fourth Military Medical Univ, Xian, China  

6276  
Changes in Gene Expression Profile of Porcine Myocardium After Repetitive Ischemia/Reperfusion  
Noemi Pavo, Medical Univ of Vienna, Vienna, Austria  
Mariann Gyöngyösi, Medical Univ of Vienna, Vienna, Austria  

6277  
Cardiac Arterial Spin Labeling MRI as a Novel Approach for in vivo Quantification of the Area-At-Risk  
Derek J Haussenloy, Univ Coll London, London, United Kingdom  

6278  
Epicardial Adipose Tissue Volume Selectively Predicts Myocardial Redox State in Patients With Ischemic Heart Disease  
Alexios S Antonopoulos, Univ of Oxford, Oxford, United Kingdom  
Charalampos Antoniades, Univ of Oxford, Oxford, United Kingdom  

6279  
Blockade of Exosome Secretion Attenuates Inflammatory Cytokines, Mitigates Cardiac Dysfunction, and Reduces Mortality in Polymicrobial Sepsis  
Guo-Chang Fan, Univ of Cincinnati Coll of Med, Cincinnati, OH  

6280  
The Hyperglycemic Exacerbation of Myocardial Infarct Size in Mice is Mediated by Splenocytes  
Yikui Tian, Univ of Virginia, Charlottesville, VA  
Zequan Yang, Univ of Virginia, Charlottesville, VA  

6281  
Effect of Remote Ischemic Preconditioning on Post-Operative Atrial Fibrillation in Patients Undergoing Coronary Artery Bypass Graft Surgery: A Single-Center Randomized Controlled Trial  
Auras R Atreya, Baystate Medical Ctr/ Tufts Univ Sch of Med, Springfield, MA  
Paul Visintainer, Baystate Medical Ctr/ Tufts Univ Sch of Med, Springfield, MA  

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**Abstract Poster Session**

**New Developments in Acute Coronary Syndromes**

South Hall A2 - Core 7  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM  

**Poster Professor:**  
Martin Mockel, Berlin, Germany  

**The Role of Undetectable Cardiac High Sensitivity Troponin T and Copeptin for Prediction of 90 Day Outcomes in Low-to Intermediate-Risk Patients With Suspected ACS: A BIC-8 Biomarker Substudy**  
Mehshad Valaie, Univ Hosp Heidelberg, Heidelberg, Germany  
Martin Möckel, Charité Berlin, Berlin, Germany  

**Multidimensional Post-Ectopic Response Pattern Predicts Mortality of Post-Infarction Patients**  
Daniel Sinnecker, Klinikum rechts der Isar-Technische Univ München, München, Germany  
Georg Schmidt, Klinikum rechts der Isar-Technische Univ München, München, Germany  

**Clinical Features, Prognosis and Risk Stratification of Acute Myocardial Infarction Due to Coronary Embolism**  
Tatsuhiro Shibata, Nati Cerebral and Cardiovascular Ctr, Saitama, Japan  
Satoishi Yasuda, Nati Cerebral and Cardiovascular Ctr, Saitama, Japan  

**Predictors of acute kidney injury in Patients admitted with ST-elevation Myocardial Infarction (STEMI)- Results From the Bremen Stemi Registry**  
Johannes Schmucker, Klinikum Links der Weser, Bremen, Germany  
Rainer Hambrecht, Klinikum Links der Weser, Bremen, Germany  

**Multimarker Risk Stratification in Patients with Acute Myocardial Infarction**  
Michelle L O'Donoghue, Brigham and Women's Hosp, Boston, MA  
Marc S Sabatine, Brigham and Women's Hosp, Boston, MA  

**The Prognostic Impact of Lack of Chest Pain in Young Patients With Acute Coronary Syndromes**  
Amar M Salam, Hamad Medical Corp & Weill Cornell Medical Coll-Qatar, Doha, Qatar  
(Gulf RACE-2) Investigators The Second Gulf Registry of Acute Coronary Events  

**Alpha-1 Anti-trypsin Inhibits the Acute Inflammatory Response in Patients With ST-Segment Elevation Myocardial Infarction**  
Antonio Abbate, Virginia Commonwealth Univ, Richmond, VA  
Charles Dinarello, Univ of Colorado, Aurora, CO
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<td>7405</td>
<td>Prognostic Significance of Thermodilution-derived Coronary Blood Flow Patterns Immediately After Coronary Intervention with TIMI-2 Flow in Patients with ST-segment Elevation Myocardial Infarction</td>
<td>Machiko Nishimura, Hyogo Coll of Med, Nishinomiya, Japan Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan</td>
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<td>7406</td>
<td>The Relationship of Platelet Function Measurements with Bleeding Outcomes During Long-term Treatment with Dual Antiplatelet Therapy in Medically Managed NSTE-ACS Patients</td>
<td>Jan H Cornel, Medisch Centrum Alkmaar, Alkmaar, Netherlands Matthew T Roe, Duke Clinical Res Inst, Durham, NC</td>
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<td>7407</td>
<td>Comparison of Myocardial Scar Indices for Patients Treated With Pre-Hospital Reduced Dose Fibrinolytic Followed by Percutaneous Coronary Intervention versus Percutaneous Coronary Intervention Alone for Treatment of ST-Elevation Myocardial Infarction</td>
<td>Amirreza Solhpour, Univ of Texas Health Science Ctr at Houston, Houston, TX Richard W Smalling, Univ of Texas Health Science Ctr at Houston, Houston, TX</td>
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**Abstract Poster Session**

**APS.507.02**

**New Insights into Advanced Heart Failure Patient Selection for Advanced Therapy**

**Poster Professor:** Patricia Chang, Chapel Hill, NC

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

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<td>5346</td>
<td>Trends in Incidence, Management and Outcomes of Heart Failure Patients with Cardiogenic Shock</td>
<td>Navdeep Gupta, Medical Coll of Wisconsin, Milwaukee, WI Michael P Cinquegrani, Medical Coll of Wisconsin, Milwaukee, WI</td>
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<td>5347</td>
<td>Correlation of Antibody Binding Strength to Complement Fixation</td>
<td>Vishal Y Parikh, Cedars-Sinai Heart Inst, Los Angeles, CA Jon Kobashigawa, Cedars-Sinai Heart Inst, Los Angeles, CA</td>
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<td>5348</td>
<td>Heart Transplantation for Genetic Cardiomyopathies is Associated With Favorable Long-Term Survival and Graft Outcomes</td>
<td>Ziad Taimeh, Univ of Minnesota Sch of Med, Minneapolis, MN Monica Colvin, Univ of Minnesota Sch of Med, Minneapolis, MN</td>
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<td>5349</td>
<td>Quantitative Heart Measures Are More Predictive of 1-Year Mortality Than Weight-Based Donor-Recipient Matching in Heart Transplantation</td>
<td>Ziad Taimeh, Univ of Minnesota Sch of Med, Minneapolis, MN Peter Eckman, Univ of Minnesota Sch of Med, Minneapolis, MN</td>
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<td>5350</td>
<td>Time-Course Influence of Brain Death on Cardiac Function and Its Impact on Posttransplant Graft Function</td>
<td>Shiliang Li, Univ of Heidelberg, Heidelberg, Germany Gábor Szabó, Univ of Heidelberg, Heidelberg, Germany</td>
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<td>5351</td>
<td>Heart Transplant Outcomes According to Etiology of Non-ischemic Cardiomyopathies</td>
<td>Sadeer Al-Kindi, Univ Hosp Case Medical Ctr, Cleveland, OH Guilherme H Oliveira, Univ Hosp Case Medical Ctr, Cleveland, OH</td>
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<td>5353</td>
<td>Nonpulsatile Flow Among Patients With Continuous-Flow Left Ventricular Assist Devices Leads to Greater Levels of Sympathetic Neural Activity Through Unloading of Arterial Baroreceptors</td>
<td>William K Cornwell, UTSW, Dallas, TX Benjamin D Levine, IEEM, Dallas, TX</td>
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<td>5354</td>
<td>Mechanical Circulatory Support Promotes Myocardial Nitric Oxide Signaling in Heart Failure Patients</td>
<td>David J Polhemus, LSU Health Sciences Ctr, New Orleans, LA David Lefer, LSU Health Sciences Ctr, New Orleans, LA</td>
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<td>5355</td>
<td>Dimethyloxalylglycine Treatment of Brain-Dead Donor Rats Improves Both Donor and Graft Left-Ventricular Function After Heart Transplantation</td>
<td>Peter Hegedüs, Univ of Heidelberg, Heidelberg, Germany Gábor Szabó, Univ of Heidelberg, Heidelberg, Germany</td>
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**Abstract Poster Session**

**APS.509.01**

**New Insights into Hypertrophy Pathways**

South Hall A2 - Core 5

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Robert S Ross, La Jolla, CA

**5386**

**SUMO2 is a Novel Regulator of Calcineurin/NFAT Signaling and Cardiomyocyte Hypertrophy**

Alexander Bernt, Univ Klinikum Schleswig-Holstein (UKSH), Kiel, Germany

Norbert Frey, Univ Klinikum Schleswig-Holstein (UKSH), Kiel, Germany

**5387**

**Protein Kinase G Oxidation Blunts Its Suppression of Cardiac Hypertrophy by Diminishing Phosphorylation of Tuberin and Consequent Autophagy**

Mark J Ranek, Johns Hopkins Medical Insts, Baltimore, MD

David A Kass, Johns Hopkins Medical Insts, Baltimore, MD

**5388**

**CaMKII Plays a Critical Role in Pressure Overload-Induced Left Ventricular Hypertrophy by Modulating Foxp1 Expression**

Lin Zhao, Univ of Kansas Medical Ctr, Kansas City, KS

Buddhadeb Dawn, Univ of Kansas Medical Ctr, Kansas City, KS

**5389**

**Caveolae-Specific Phosphorylation of L-type Calcium Channel β2a Subunit Exacerbates Cardiac Hypertrophy**

Shohei Kumagai, Osaka Univ, Suita, Osaka, Japan

Hiroyuki Nakayama, Osaka Univ, Suita, Osaka, Japan

**5390**

**STIM1 Inhibits GSK3-Beta to Maintain Cardiac Hypertrophy in a Murine Pressure Overload Induced Heart Failure Model**

Ludovic O Bénard, Icahn Sch of Med at Mount Sinai, New York, NY

Jean-Sébastien Hulot, Icahn Sch of Med at Mount Sinai, New York, NY

**5391**

**RyR2 Stabilization by Inhibiting Aberrant Ca2+ Release Mediated by CaMKII Signaling Within the Increase of Ca2+ Buffering Capacity Suppresses Arrhythmogenesis in Cardiac Troponin T-related Familial Hypertrophic Cardiomyopathy**

Shinichi Okuda, Yamaguchi Univ, Ube, Japan

Masafumi Yano, Yamaguchi Univ, Ube, Japan

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**Abstract Poster Session**

**APS.706.01**

**Normal and Aberrant Collateral Growth**

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

**BOARD #**

**Poster Professor:**

Kumuda Das, Lubbock, TX

**7158**

**Satellite Cells are a Major Source of the Receptor for Advanced Glycation End Products in the Ischemic Leg and Play a Role in Collateral Growth**

Laura M Hansen, Emory Univ, Atlanta, GA

W Robert Taylor, Emory Univ, Atlanta, GA

**7159**

**Shear Stress-and Klf2-regulated Mir-27b Controls Pericyte Recruitment and Vessel Maturation**

Shemsi Demolli, Inst for Cardiovascular Regeneration, Frankfurt am Main, Germany

Stefanie Dimmeler, Inst for Cardiovascular Regeneration, Frankfurt am Main, Germany
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<td>7160</td>
<td>Microparticles Inhibit Angiogenic Activities of Microvascular Endothelial Cells via a CD36 Dependent Signaling Pathway Involving Reactive Oxygen Species</td>
<td>Devi Prasad Ramakrishnan, Case Western Reserve Univ, Cleveland, OH Roy Silverstein, Medical Coll of Wisconsin, Milwaukee, WI</td>
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<td>7161</td>
<td>EphrinB2/EphB4 Signaling controls the Dose-Dependent Switch between Normal and Aberrant Angiogenesis by VEGF</td>
<td>Andrea Banfi, Basel Univ Hosp, Basel, Switzerland</td>
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<td>Activator of G-Protein Signaling 8, an Ischemia-Inducible G-Protein Activator, is Required for Vascular Endothelial Growth Factor-Mediated Collateral Development</td>
<td>Hisaki Hayashi, Aichi Medical Univ, Nagakute, Japan Motohiko Sato, Aichi Medical Univ, Nagakute, Japan</td>
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<td>7163</td>
<td>Discovery of a Novel Approach for Modulating Angiogenesis: The Interaction Between Heat Shock Protein 27 and ATP5A1 Promotes Endothelial Cell Dynamics</td>
<td>Edward R O’Brien, Libin Cardiovascular Inst of Alberta / Univ of Calgary, Calgary, AB, Canada</td>
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<td>7164</td>
<td>LRP1 is a Novel Receptor of Bmper and Required for Pathological Angiogenesis</td>
<td>Xi Li, Univ of North Carolina, Chapel Hill, Chapel Hill, NC Xinshun Pi, Univ of North Carolina, Chapel Hill, Chapel Hill, NC</td>
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<td>7165</td>
<td>Impact of Cardiovascular Risk Factors on rAAV.Thymosin 64 Mediated Vascular Regeneration in Large Animals</td>
<td>Rebea Hinkel, Klinikum Großhadern, Munich, Germany</td>
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<td>Christian Kupatt, Klinikum Großhadern, Munich, Germany</td>
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<td>7166</td>
<td>Genetic Deletion of Toll-like Receptor 9 Accelerates Blood Flow Recovery after Hindlimb Ischemia</td>
<td>Sachiko Nishimoto, The Univ of Tokushima Graduate Sch, Tokushima, Japan Masataka Sata, The Univ of Tokushima Graduate Sch, Tokushima, Japan</td>
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<td>7167</td>
<td>Preserved Efficacy of Secretoneurin Gene Therapy in Hypercholesterolemia</td>
<td>Rudolf Kirchnair, Medical Univ Innsbruck, Innsbruck, Austria Markus Theurl, Medical Univ Innsbruck, Innsbruck, Austria</td>
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<td>7168</td>
<td>Regulated and Function of the Laminar Flow-induced Non-coding Rnas in Endothelial Cells</td>
<td>Carmen T Hartung, Univ Frankfurt, Frankfurt am Main, Germany Stefanie Dimmel, Univ Frankfurt, Frankfurt am Main, Germany</td>
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<td>7170</td>
<td>Overexpression of MicroRNA-126 Promotes Angiogenesis in a Vascular Endothelial Growth Factor Receptor 2 (VEGFR-2) and Tyrosine Kinase with Immunoglobulin-like and EGF-like Domains 2 (Tie2) Dependent Manner in Hindlimb Chronic Ischemia</td>
<td>Pratiek N Matkar, St Michael’s Hosp, Toronto, ON, Canada Howard Leong-Poi, St Michael’s Hosp, Toronto, ON, Canada</td>
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<td>7171</td>
<td>Regulation of Impaired Angiogenesis in Diabetes by Microrna26a</td>
<td>Basak Icli, Brigham &amp; Womens Hosp, Boston, MA Mark Feinberg, Brigham &amp; Womens Hosp, Boston, MA</td>
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<td>7172</td>
<td>A Universal Aptamer Chimera for the Delivery of Functional MicroRNA-126</td>
<td>Jan-Hendrik Rohde, Goethe Univ Frankfurt, Frankfurt, Germany Stefanie Dimmel, Goethe Univ Clinic Frankfurt, Frankfurt, Germany</td>
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<td>7173</td>
<td>Striking Differences of Distinct Endothelial Progenitor Cell Subtypes in Coronary Collateral Formation and Ischemia-mediated Neovascularization - Implications for Therapeutic Angiogenesis</td>
<td>Sui Ching G Yuen, Heart Res Inst, Newtown, Australia Martin Ng, Heart Res Inst, Newtown, Australia</td>
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<td>Wnt11 Delivered in Mesenchymal Stem Cell-Derived Media Promotes Angiogenesis Through Non-canonical Wnt-PKC-JNK Pathway</td>
<td>Jingcai Wang, Univ of Cincinnati, Cincinnati, OH Meifeng Xu, Univ of Cincinnati, Cincinnati, OH</td>
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### Abstract Poster Session

#### APS.406.05

**Novel Strategies for Ablation of SVT and Atrial Fibrillation**

**South Hall A2 - Core 4**  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 AM - 11:00 AM

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<td>David Lin, Philadelphia, PA</td>
<td>A Novel Endocardial Activation Analysis Software to Identify Rapid Activation Patterns During Atrial Fibrillation</td>
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<td>4263</td>
<td>Raul Weiss, Wexner Medical Ctr at Ohio State Univ, Columbus, OH</td>
<td>Left Atrial Appendage Closure Does Not Improve the Success of Pulmonary Vein Isolation: First Randomized Study</td>
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<td>4264</td>
<td>Luigi Di Biase, Albert Einstein Coll of Med at Montefiore Hosp And Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr, New York and Austin, TX</td>
<td>Zero Fluoroscopy Ablation of Atrial Fibrillation: A Safety and Feasibility Study</td>
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### Abstract Poster Session

#### APS.206.02

**Nutrition in CVD Risk and Prevention III**

**South Hall A2 - Core 2**  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 AM - 11:00 AM

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<td>Joanne R Lupton, College Station, TX</td>
<td>Adherence to a Healthy Dietary Pattern and Quality of Life in Two Population-based Cohorts of Older Adults in Spain</td>
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**HeartQuarters Booth 1059**

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
2185 Favorable Association Between a Mediterranean Dietary Pattern and Cardiovascular Risk Factors in Patients with Stable Coronary Heart Disease in the STABILITY Study
Ralph A H Stewart, Auckland City Hosp and Univ of Auckland, Auckland, New Zealand
Havey D White, Auckland City Hosp and Univ of Auckland, Auckland, New Zealand

2186 Alcohol Consumption and Its Relation to Obesity in a Population-Based Study in Finland
Satu Männistö, Natl Inst for Health and Welfare, Helsinki, Finland
Pekka Jousilahti, Natl Inst for Health and Welfare, Helsinki, Finland

2187 24-Hour Water-Only Fasting Acutely Reduces Trimethylamine N-Oxide: the FEELGOOD Trial
Benjamin D Horne, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT
Jeffrey L Anderson, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT

2188 ABO Blood Group and Risk of Myocardial Infarction in Hispanics
Tao Huang, Harvard Sch of Public Health, Boston, MA
Lu Qi, Harvard Sch of Public Health, Boston, MA

2189 Calgranulins S100A8, S100A9 and S100A12 are Novel Genes Modified by n-3 PUFA Supplementation and Evoked Endotoxemia in Humans
Jane F Ferguson, Univ of Pennsylvania, Philadelphia, PA
Muredach P Reilly, Univ of Pennsylvania, Philadelphia, PA

2190 Sexual Dimorphism in Cardiac Response to Intrauterine Growth Restriction (IUGR)
Alina Maloyan, Univ of Texas Health Science Ctr, San Antonio, TX
Peter W Nathanielsz, Univ of Texas Health Science Ctr, San Antonio, TX

2191 Chronic Alcohol Feeding Increases miR-214 and Down regulates Bcl-2 in Heart with Asymptomatic Cardiac Dysfunction
Arun Samidurai, Virginia Commonwealth Univ, Richmond, VA
Rakesh C Kukreja, Virginia Commonwealth Univ, Richmond, VA

2192 Western Diet Impairs Cardiac Systolic and Diastolic Function in the Mouse
Salvatore Carbone, Virginia Commonwealth Univ, Richmond, VA
Antonio Abbate, Virginia Commonwealth Univ, Richmond, VA

2193 Higher Adherence to a Western Type of Diet is Associated With Severe Coronary Artery Disease
Dimitris Tousoulis, Univ of Athens Medical Sch, 1st Cardiology Dept, Hippokration Hosp, Athens, Greece
Christodoulos Stefanadis, Univ of Athens Medical Sch, 1st Cardiology Dept, Hippokration Hosp, Athens, Greece

Abstract Poster Session

Obesity in CVD Risk and Prevention IV
South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor: TBD

New Blood Pressure Control Target for Diabetic Patients of 140/90 mmHg is Confirmed by the JPAD Trial
Hirofumi Soejima, Kumamoto Univ, Kumamoto City, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto City, Japan

Sedentary Behaviour and Physical Activity Among Older Patients Following Percutaneous Coronary Intervention Presented with Stable Angina versus Acute Coronary Syndrome
Sarah J Denton, Newcastle Univ, Newcastle Upon Tyne, United Kingdom
Vijay Kunadian, Newcastle Univ, Newcastle Upon Tyne, United Kingdom

Increased HbA1c Level is Independently Associated With the Severity of Coronary Artery Diseases
Anping Cai, Guangdong General Hosp, Guangzhou, China
Liwen Li, Guangdong General Hosp, Guangzhou, China

Exercise Improves BMI Z-Score in Overweight and Obese Children and Adolescents: A Systematic Review With Meta-Analysis
George A Kelley, West Virginia Univ, Morgantown, WV
Russell R Pate, Univ of South Carolina, Columbia, SC

Yield of Different Approaches for Screening for Cardiovascular Disease in Asymptomatic Diabetics
Timothy W Churchill, Brigham and Women’s Hosp, Boston, MA
Ron Blankstein, Brigham and Women’s Hosp, Boston, MA

Cardiopulmonary Exercise Testing is Predictive of Return to Work in Cardiac Patients After Rehabilitation
Heinz Voller, Univ Potsdam, Potsdam, Germany
Karl Wegscheider, Univsklinikum Hamburg-Eppendorf, Hamburg, Germany

Quadratic Regression Reveals an Accelerated Age-related Decline of Maximal Heart Rate in those with Low and Moderate Cardiorespiratory Fitness
Mary Tuttle, Ball State Univ, Muncie, IN
Leonard Kaminsky, Ball State Univ, Muncie, IN
Adiponectin Protects Against Angiotensin II-Induced Abdominal Aortic Aneurysm Formation in Mice
Sumiko Yoshida, Boston Univ Sch of Med, Boston, MA
Kenneth Walsh, Boston Univ Sch of Med, Boston, MA

JNK Inhibition Mimics the Beneficial Effect of Roux-en-Y Gastric Bypass Surgery on Obesity-Induced Endothelial Dysfunction
Petia Doytcheva, Univ of Zurich, Schlieren, Switzerland
Thomas F Luscher, Univ of Zurich, Schlieren, Switzerland

Iron Restricted Pair Feeding Attenuates Hypertension and Renal Damage in a Rat Model of Chronic Kidney Disease
Yoshiro Naito, Hyogo Coll of Med, Nishinomiya, Japan
Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan

TUESDAY AM
2311
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Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan

Abstract Poster Session
Outcomes in ICD Populations
APS.407.02
South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
James Freeman, New Haven, CT

4307 Implantable Cardioverter-Defibrillator Therapy in Women: Population-based Outcomes
Simone Cowan, St Paul's Hosp, Vancouver, BC, Canada
Jamil Bashir, St Paul's Hosp, Vancouver, BC, Canada

4308 Natural History of the Primary Prevention Implantable Cardioverter-Defibrillator Therapy in France (2002-2012)
Eloi Marijon, European Georges Pompidou Hosp, Paris, France
Serge Boveda, Clinique Pasteur, Toulouse, France

4309 Mortality and Predictors of Appropriate ICD Therapy in Japanese Primary Prevention Patients: A 13-year Experience Based on the MADIT2 Criteria
Yoshimori An, Kokura Memorial Hosp, Kitakyushu, Japan
Masakiyo Nobuyoshi, Kokura Memorial Hosp, Kitakyushu, Japan

4310 Accumulation of Risk Factors Increases the Risk of Fatal Arrhythmic Events in Patients with Ischemic Heart Disease or Those with Dilated Cardiomyopathy - A Report from the CHART-2 Study
Hiroyuki Satake, Tohoku Univ Graduate Sch of Med, Sendai, Japan
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan

4311 Long-Term Device-Related Adverse Events After Implantable Cardioverter-Defibrillator Therapy
Isuru Ranasinghe, The Ctr for Outcomes Res and Evaluation, New Haven, CT
Jeptha P Curtis, The Ctr for Outcomes Res and Evaluation, New Haven, CT

4312 Risk for Non-Arrhythmic Mortality in “Real-Life” Patients with Implantable Cardioverter Defibrillators in Primary Prevention
Eloi Marijon, European Georges Pompidou Hosp, Paris, France
Serge Boveda, Clinique Pasteur, Toulouse, France

4313 Does Volume Overload Predict Failed Antitachycardia Pacing Therapy for Ventricular Tachycardia in Patients With an Implantable Cardioverter-Defibrillator?
Alireza Hosseini-khalili, Univ of Connecticut Health Ctr, Farmington, CT
Jeffrey Kluger, Hartford Hosp, Hartford, CT

4314 Younger Age Increases the Risk for Inappropriate Shocks in Hypertrophic Cardiomyopathy Patients With Implantable Cardioverter Defibrillators
Amanda J McCambridge, Mayo Clinic, Rochester, MN
Bernard J Gersh, Mayo Clinic, Rochester, MN

4315 The Significance of ATP Therapy Failure During Appropriate ICD-Delivered Therapy in Patients With Ventricular Tachycardia
Dalia Giedrimiene, Univ of Saint Joseph/Hartford Hosp, West Hartford, CT
Jeffrey Kluger, Hartford Hosp, Hartford, CT

4316 Paradoxical Association of Ventricular Tachyarrhythmias and All-Cause Mortality in Patients With Renal Impairment: a MADIT-CRT Substudy
Usama Daimne, Univ of Rochester Medical Ctr, Rochester, NY
Valentina Kutyifa, Univ of Rochester Medical Ctr, Rochester, NY

4311 Long-Term Device-Related Adverse Events After Implantable Cardioverter-Defibrillator Therapy
Isuru Ranasinghe, The Ctr for Outcomes Res and Evaluation, New Haven, CT
Jeptha P Curtis, The Ctr for Outcomes Res and Evaluation, New Haven, CT

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Usama Daimne, Univ of Rochester Medical Ctr, Rochester, NY
Valentina Kutyifa, Univ of Rochester Medical Ctr, Rochester, NY

4311 Long-Term Device-Related Adverse Events After Implantable Cardioverter-Defibrillator Therapy
Isuru Ranasinghe, The Ctr for Outcomes Res and Evaluation, New Haven, CT
Jeptha P Curtis, The Ctr for Outcomes Res and Evaluation, New Haven, CT

4312 Risk for Non-Arrhythmic Mortality in “Real-Life” Patients with Implantable Cardioverter Defibrillators in Primary Prevention
Eloi Marijon, European Georges Pompidou Hosp, Paris, France
Serge Boveda, Clinique Pasteur, Toulouse, France

4313 Does Volume Overload Predict Failed Antitachycardia Pacing Therapy for Ventricular Tachycardia in Patients With an Implantable Cardioverter-Defibrillator?
Alireza Hosseini-khalili, Univ of Connecticut Health Ctr, Farmington, CT
Jeffrey Kluger, Hartford Hosp, Hartford, CT

4314 Younger Age Increases the Risk for Inappropriate Shocks in Hypertrophic Cardiomyopathy Patients With Implantable Cardioverter Defibrillators
Amanda J McCambridge, Mayo Clinic, Rochester, MN
Bernard J Gersh, Mayo Clinic, Rochester, MN

4315 The Significance of ATP Therapy Failure During Appropriate ICD-Delivered Therapy in Patients With Ventricular Tachycardia
Dalia Giedrimiene, Univ of Saint Joseph/Hartford Hosp, West Hartford, CT
Jeffrey Kluger, Hartford Hosp, Hartford, CT

4316 Paradoxical Association of Ventricular Tachyarrhythmias and All-Cause Mortality in Patients With Renal Impairment: a MADIT-CRT Substudy
Usama Daimne, Univ of Rochester Medical Ctr, Rochester, NY
Valentina Kutyifa, Univ of Rochester Medical Ctr, Rochester, NY
Tuesday, November 18 • Chicago, Illinois

Abstract Poster Session

APS.308.02

Pediatric Cardiac Surgery II

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

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3184
Echocardiographic Assessment of Surgically Placed Melody Valves in the Mitral Position in Young Children
Lindsay R Freud, Boston Children’s Hosp, Boston, MA
Wayne Tworetzky, Boston Children's Hosp, Boston, MA

3185
Factors Associated With Length of Stay and Cost of the Fontan Surgery: A Multi-Institutional Study
Shaji C Menon, Univ of Utah, Salt Lake City, UT
L LuAnn Minich, Univ of Utah, Salt Lake City, UT

3186
Impact of Tight Glycemic Control on the Neurodevelopmental Outcomes at One Year of Age of Children with Congenital Heart Disease
Anjali Sadhwani, Boston Children's Hosp, Boston, MA
Michael Agus, Boston Children's Hosp, Boston, MA

3187
Association of Post-operative Complications with Clinical Outcomes and Hospital Costs following the Norwood Operation
Kimberly E McHugh, Medical Univ of South Carolina, Charleston, SC
Mark A Scheurer, Medical Univ of South Carolina, Charleston, SC

3188
High Death and Re-Intervention Rate in Neonatal Modified Blalock-Taussig Shunts With Concomitant Patent Ditus Arteriosus: Mechanistic Insights Into Competitive Flow and Pulmonary Overcirculation
Bari Murtuza, Freeman Hosp, Newcastle upon Tyne, United Kingdom
Alison Marsden, UCSD, La Jolla, CA

3189
Resource Demands and the Incidence of Cardiopulmonary Resuscitation Within a Pediatric Cardiac Intensive Care Unit
Andrew H Smith, Vanderbilt Univ Sch of Med, Nashville, TN

3190
Outcomes of Atrial Arrhythmia Surgery for Atrial Tachyarrhythmias in Patients With Repaired Tetralogy of Fallot
Jiwoon Chang, David Geffen Sch of Med at UCLA, Los Angeles, CA
Jamal A Aboulhosn, Ahmanson/UCLA Adult Congenital Heart Disease Ctr, Los Angeles, CA

3191
WITHDRAWN

3192
Comparative Analysis of the Use of Extracorporeal Membrane Oxygenation During Cardiopulmonary Resuscitation Within a Pediatric Cardiac Intensive Care Unit
Stephanie J Conrad, Vanderbilt Univ Sch of Med, Nashville, TN
Andrew H Smith, Vanderbilt Univ Sch of Med, Nashville, TN

3193
External Stenting for Tracheobronchomalacia Associated With Congenital Heart Disease
Yuki Nakamoto, Sakakibara Heart Inst, Tokyo, Japan
Hisaya Hasegawa, Tokyo Women’s Medical Univ Medical Ctr East, Tokyo, Japan

Abstract Poster Session

APS.310.01h

Pediatric Heart Failure/Transplantation: Translational Science

South Hall A2 - Core 3
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Poster Professor:
Christopher Almond, Palo Alto, CA

3224
Hyperuricemia Reflects Heart Failure Severity and Predicts Morbidity and Mortality in Patients After the Fontan Operation
Hideo Ohuchi, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan
Osamu Yamada, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan

3225
Myocardial Extracellular Volume is Elevated in Human Duchenne Muscular Dystrophy
Jonathan H Soslow, Vanderbilt Univ Medical Ctr, Nashville, TN
Larry W Markham, Vanderbilt Univ Medical Ctr, Nashville, TN

3226
Novel Insights and Reference Intervals of Soluble ST2 in a Pediatric Population Free of Heart Failure
Jeffrey W Meeusen, Mayo Clinic, Rochester, MN
Amy K Saenger, Roche Diagnostics, Indianapolis, IN

3227
Longitudinal Changes in High Sensitivity Troponin T and Pro-B-Type Natriuretic Peptide Over Two Post-Transplant Years in Rejection-Free Pediatric Heart Recipients
Fatima I Lunze, Boston Children’s Hosp, Boston, MA
Steven D Colan, Boston Children’s Hosp, Boston, MA
Fibrillin-1 Gene Mutations in Left Ventricular Non-Compaction Cardiomyopathy
John J Parent, Cincinnati Children’s Hosp
Medical Ctr, Cincinnati, OH
John L Jeffries, Cincinnati Children’s Hosp
Medical Ctr, Cincinnati, OH

Clinical and Angiographic Scoring System to Predict the Probability of Successful First Attempt PCI in Patients With Coronary Chronic Total Occlusion
Thierry Leefvre, Inst Cardiovasculaire Paris Sud, Massy, France
Marie-Claude Morice, Inst Cardiovasculaire Paris Sud, Massy, France

Prevalence and Treatment of “Balloon Uncrossable” Coronary Chronic Total Occlusions
Siddharth Patel, Veterans Affairs North Texas Health Care System, Dallas, TX
Emmanouil Brilakis, Veterans Affairs North Texas Health Care System, Dallas, TX

Impact of Stent Platform on Longitudinal Stent Deformation: an in vivo 3-dimensional Optical Coherence Tomography Study
Ryotaro Yamada, Kawasaki Medical Sch, Kurashiki, Japan
Hiroyuki Okura, Kawasaki Medical Sch, Kurashiki, Japan

In-Stent Restenosis: Identification of a New Marker by Thrombelastography
Paul A Gurbel, Sinai Hosp Baltimore, Baltimore, MD

Very Late Vascular Response After Bare Metal Stent Implantation in Human Coronary Arteries
Katsumi Inoue, Kokura Memorial Hosp, Kitakyushu, Japan
Takeshi Kimura, Kyoto Univ, Kyoto, Japan

Very Low Rates of Vascular Complications Can Be Achieved After Transcatheter Aortic Valve Implantation(tavi) Performed With Surgical Femoral Access
Florence Leclercq, Arnaud de Villeneuve, Univ Hospital, Montpellier, France

Predictors of Permanent Pacemaker Implantation After Transcatheter Aortic Valve Implantation
Suzanne Fateh-Moghadam, Univ Tuebingen, Tuebingen, Germany
Wolfgang Bocksch, Univ Tuebingen, Tuebingen, Germany
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<tr>
<td>Susan S Smyth, Lexington, KY</td>
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**7243**

**In Vivo Platelet Activation in Impaired Glucose Tolerance and During Progression of Type 2 Diabetes: a Cross-sectional and Longitudinal Study**

Francesco Zaccardi, Catholic Univ Sch of Med, Rome, Italy

**7244**

**In Vivo Platelet Activation and Aspirin Responsiveness in Type 1 Diabetes Mellitus**

Francesco Zaccardi, Catholic Univ Sch of Med, Rome, Italy

Carlo Patrono, Catholic Univ Sch of Med, Rome, Italy

**7245**

**Enzyme Kinetic Model Reveals Novel Characteristics of Pharmacodynamic Interaction of NSAIDs and Aspirin at COX-1, Which Lead to High on Aspirin Platelet Reactivity (HAPR)**

Saghar Bagheri, Univ Duesseldorf, Duesseldorf, Germany

Thomas Hohlfeld, Univ Duesseldorf, Duesseldorf, Germany

**7246**

**Impact of Potent Oral P2Y12 Inhibiting Therapies on Multiple Platelet Signaling Pathways: Results of a Prospective Ex vivo Pharmacodynamic Investigation**

Francesco Franchi, Univ of Florida Coll of Med-Jacksonville, Jacksonville, FL

Dominick J Angiolillo, Univ of Florida Coll of Med-Jacksonville, Jacksonville, FL

**7247**

**Profiling of a Platelet Proteome Discerns Between Subjects and the Effects of Antiplatelet Agents Alone and in Combination**

Simone Marcone, UCD, Dublin, Ireland

Desmond J Fitzgerald, UCD, Dublin, Ireland

**7248**

**Prognostic Role of Soluble Micrornas in the Early Detection of High Platelet Reactivity and Periprocedural Myocardial Damage in Patients Undergoing Percutaneous Coronary Intervention**

Annunziata Nusca, Campus Bio-Medico Univ of Rome, Rome, Italy

Francesco Cipollone, G’Annunzio University, Chieti, Italy
**The Role of PDGF on F-actin Reorganization and Proplatelet Formation via PDGF Beta-receptors and Erk/akt Pathways**
Mo Yang, Nanfang Hosp, Southern Medical Univ, Guangzhou, China
Qizhou Lian, Li Ka Shing Faculty of Med, The Univ of Hong Kong, Hong Kong

**Switching Elderly Patients With High On-treatment Platelet Reactivity From Clopidogrel to Prasugrel**
Simon Mejean, Cardiovascular and Metabolic Pole, Rangueil Hosp, Toulouse, France
Didier Carrié, Cardiovascular and Metabolic Pole, Rangueil Hosp, Toulouse, France

**Acetylation and Methylation Modifiers Attenuate Thrombin-induced eNOS/RhoA Signaling and Restore Adherens Junction Integrity in Acute Lung Injury**
Johnson Rajasingh, Univ of Kansas Medical Ctr, Kansas City, KS

**Is there a Correlation Between Bleeding Risk Score and Platelet Aggregability?**
Flavia B B Arantes, InCor Heart Inst- Univ of São Paulo, São Paulo, Brazil
Jose Carlos Nicolau, InCor Heart Inst- Univ of São Paulo, São Paulo, Brazil

**Protection of Ischemic Myocardium**
South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**Bone Marrow Stromal Cell Derived Exosomes Carrying Microrna-486 Attenuate H/r-Induced Cardiac Myocyte Damage In Vitro and I/r-Induced Myocardial Injury In Vivo**
Xiaohui Wang, East Tennessee State Univ, Johnson City, TN
Chuanfu Li, East Tennessee State Univ, Johnson City, TN

**A Lin28-let-7 Axis Modulates Adaptation of the Myocardium to Ischemia**
Shaurya Joshi, Univ of Miami Miller Sch of Med, Miami, FL
Nanette Hahr Bishopric, Univ of Miami Miller Sch of Med, Miami, FL

**Targeted Delivery of Therapeutic Agents After Myocardial Infarction**
Siva Sai Krishna Dasa, Univ of Virginia, Charlottesville, VA
Kimberly A Kelly, Univ of Virginia, Charlottesville, VA

**Pharmacological Inhibition of PTEN Increases Myocardial Salvage, Reduces Infarct Size, and Decreases Adverse Post-infarction Left Ventricular Remodeling in a Porcine Model of Reperfused Myocardial Infarction**
Carlos G Santos-Gallego, Icahn Sch of Med at Mount Sinai, New York City, NY
Juan Badimon, Icahn Sch of Med at Mount Sinai, New York City, NY

**Disruption of Extracellular Cytotoxic Chromatin by Acute DNase1 Administration Improves Left Ventricular Remodeling after Myocardial Infarction**
Benjamin Vogel, Univ Clinics of Würzburg, Würzburg, Germany
Stefan Frantz, Univ Clinics of Würzburg, Würzburg, Germany

**DHA but not Etanercept Expedites Resolution of Inflammation leading to Improved Survival Following Myocardial Infarction in Aging Mice**
Vasundhara Kain, Univ of Alabama at Birmingham, Birmingham, AL
Ganesh V Halade, Univ of Alabama at Birmingham, Birmingham, AL

**Cardioprotective Actions of the N-Terminal-Derived Annexin-A1 Peptide, Ac2-26, Against Myocardial Infarction in vivo**
Rebecca H Ritchie, Baker IDI Heart & Diabetes Inst, Melbourne, Australia
Xiaoming Gao, Baker IDI Heart & Diabetes Inst, Melbourne, Australia

**Inhibition of KCNQ Channels Provides Coronary Flow Dependent Protection against Myocardial Ischemia and Reperfusion Injury Additive to Ischemic Preconditioning**
Jacob Johnsen, Aarhus Univ Hosp, Aarhus N, Denmark
Hans E Betker, Aarhus Univ Hosp, Aarhus N, Denmark

**Inhibition of PKCβ2 Attenuates Myocardial Ischemia Reperfusion Injury in Diabetic Rat Through Cavolin-3-depandant Akt Activation**
Zhengyuan Xia, The Univ of Hong Kong, Hong Kong, Hong Kong

**Disruption of mTORC2 Integrity Underlies Increased Myocardial Susceptibility to Ischemia/reperfusion Injury in Chronic Renal Failure**
Toshiyuki Tobisawa, Sapporo Medical Univ Sch Of Med, Sapporo Hokkaido, Japan
Tetsuji Miura, Sapporo Medical Univ Sch Of Med, Sapporo Hokkaido, Japan
**Abstract Poster Session**

**APS.606.02**

**Radiation Safety, Kidney Injury and Microvascular Response with Coronary Intervention**

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Luis Gruberg, Stony Brook, NY

**6202**

**Effect of Cocaine on Coronary Microvasculature**
Varun Kumar, Mount Sinai Hosp Medical Ctr, Chicago, IL
Sandeep Khosla, Mount Sinai Hosp Medical Ctr, Chicago, IL

**6203**

**Impact of Left Ventricular Hypertrophy on Impaired Coronary Microvascular Dysfunction Determined by Direct Single-Wire Pressure and Flow Velocity Measurement**
Kenichi Tsujita, Kumamoto Univ Hosp, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ Hosp, Kumamoto, Japan

**6204**

**Predictors of Elective Support Device Insertion Prior to High Risk Percutaneous Coronary Intervention: Changing Trends between 1993-2013**
Aatish Garg, Cleveland Clinic, Cleveland, OH
Sairi Kapadia, Cleveland Clinic, Cleveland, OH

**6205**

**The Increment of Serum Creatinine Level on the Next Day Predicts the Development of Contrast Induced Nephropathy**
Makoto Watanabe, Nara Medical Univ, Kashihara, Nara, Japan
Kenichi Ishigami, Saiseikai Suita Hosp, Suita, Japan

**6206**

**Which is Better, Biodegradable-polymer Coated Biolimus A9-eluting Stents or Biocompatible Durable-polymer Coated Everolimus-eluting Stents?: Serial Optical Coherence Tomographic Evaluation**
Ryu Shutta, Osaka Rosai Hosp, Sakai, Osaka, Japan
Jun Tanouchi, Osaka Rosai Hosp, Sakai, Osaka, Japan

**6207**

**A Novel Angiography Technique Reduces CIN Development Through the Delivery of Ultra-Low Contrast Volumes**
Shawn Kelly, Univ of South Dakota, Sioux Falls, SD
Adam Stys, Univ of South Dakota, Sioux Falls, SD

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**Abstract Poster Session**

**APS.711.01**

**Redox Signaling and Oxidative Stress**

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Petra Rocic, Valhalla, NY

**7287**

**Overexpressing Superoxide Dismutase 2 Induces Super-normal Cardiac Function by Enhancing Mitochondrial Function and Metabolic Dilation**
Patrick T Kang, Northeast Ohio Medical Univ, Rootstown, OH
Yeong-Renn Chen, Northeast Ohio Medical Univ, Rootstown, OH

**7288**

**Resolution of Mitochondrial Oxidant Stress Improves Aged-Cardiac Performance**
Takashi Owada, Fukushima Medical Univ, Fukushima city, Japan
Yasuchika Takeishi, Fukushima Medical Univ, Fukushima city, Japan
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<td>7289</td>
<td>Association of Diabetes Mellitus and Clinical Atherosclerosis with Mitochondrial DNA Damage</td>
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<td>Jessica L Fetterman, Boston Univ Sch of Med, Boston, MA</td>
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<td>Joseph A Vita, Boston Univ Sch of Med, Boston, MA</td>
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<td>7290</td>
<td>Pulmonary Oxidative Stress Contributes to Ambient Fine Particulate Matter (PM2.5)-Induced VEGF Resistance and Endothelial Progenitor Cell Retention</td>
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<td>Petra Haberzettl, Univ of Louisville, Louisville, KY</td>
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<td>Daniel J Conklin, Univ of Louisville, Louisville, KY</td>
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<td>7291</td>
<td>Tissue-Specific Telomere Length Variability Predicts Vascular Oxidative Stress in Human Arteries and Veins</td>
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<td>Marios Margaritis, Univ of Oxford, Oxford, United Kingdom</td>
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<td>Charalampos Antoniades, Univ of Oxford, Oxford, United Kingdom</td>
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<td>7292</td>
<td>Novel Role of Kelch-like ECH-associated Protein 1/NF-E2-related Factor 2 System in Vascular Smooth Muscle Cell Apoptosis Following Vascular Injury</td>
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<td>Takashi Ashino, Showa Univ Sch of Pharmacy, Tokyo, Japan</td>
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<td>Satoshi Numazawa, Showa Univ Sch of Pharmacy, Tokyo, Japan</td>
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<td>7293</td>
<td>Hydrogen Sulfide Levels and NRF2 Activity are Attenuated in the Setting of Critical Limb Ischemia (CLI)</td>
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<td>Kazi N Islam, LSU Health Sciences Ctr, New Orleans, LA</td>
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<td>David J Lefer, LSU Health Sciences Ctr, New Orleans, LA</td>
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<td>7294</td>
<td>Increased Endothelial Expression of NADPH Oxidase-p47phox in Human Hypertension</td>
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<td>Wanpen Vongpatanasin, UT Southwestern Medical Ctr, Dallas, TX</td>
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<td>7295</td>
<td>Endotoxin Disrupts Circadian Rhythms in Macrophages via Reactive Oxygen Species</td>
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<td>Yusi Wang, Georgia Regents Univ, Augusta, GA</td>
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<td>David Fulton, Georgia Regents Univ, Augusta, GA</td>
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<td>7296</td>
<td>Deficiency of Angiotensin-converting Enzyme in Vascular Smooth Muscle Cells Reduces Hypercholesterolemia-induced Atherosclerosis</td>
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<td>Xiaofeng Chen, Taizhous Hosp, Wenzhou Medical Univ, Taizhou, Zhejiang Province, China</td>
<td>2509</td>
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<td>Hong Lu, Univ of Kentucky, Lexington, KY</td>
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**Abstract Poster Session**

**Risk Factors, Biomarkers, Risk Prediction II**

**South Hall A2 - Core 2**

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**Poster Professor:**

Matthew A Allison, La Jolla, CA

**Risk Prediction of 10-Year Cardiovascular Mortality Using Automated Electrocardiographic Analysis in the National Health and Nutrition Examination Survey**

Amit J Shah, Emory Univ, Atlanta, GA

Elsayed Z Soliman, Wake Forest Univ, Winston-Salem, NC

**Plasma Levels of Fatty Acid-binding Protein 4 and Cardiovascular Mortality Among Diabetes Patients: a Prospective Investigation in the Health Professionals Follow-up Study**

Hongyu Wu, Harvard Sch of Public Health, Boston, MA

Qi Sun, Harvard Sch of Public Health, Boston, MA

**Cardiac Troponin T, Natriuretic Peptide, and Long-term Risk of Acute Kidney Injury in the Community: The Atherosclerosis Risk in Communities Study**

Yuhree Kim, Johns Hopkins Univ, Baltimore, MD

Josef Coresh, Johns Hopkins Univ, Baltimore, MD

**Mitochondrial DNA Copy Number as a Predictor of Cardiovascular Disease**

Foram N Ashar, Johns Hopkins, Baltimore, MD

Dan E Arking, Johns Hopkins, Baltimore, MD

**Gender Differences in the Association of Adverse Childhood Events with Cardiovascular Disease**

Catherine Kreatsoulas, Harvard Univ - Sch of Public Health, Boston, MA

S V Subramanian, Harvard Univ - Sch of Public Health, Boston, MA

**Glyc A, a Novel Marker of Inflammation, Predicts Cardiovascular Events in HIV-Positive Patients: Results of SMART Study**

Daniel Duprez, Univ of Minnesota, Minneapolis, MN

Jens D Lundgren, Univ of Copenhagen, Copenhagen, Denmark

**Higher Levels of Plasminogen-Activator Inhibitor 1 Are Associated with Progression of Coronary Artery Calcification in Middle-Aged Women: The Study of Women’s Health Across the Nation (SWAN) Heart Study**

Norman C Wang, Pittsburgh, PA

Samar R El Khoudary, Univ of Pittsburgh, Pittsburgh, PA
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<td>Addition of Smoking Status Improves Risk Prediction of Ischemic Stroke in Atrial Fibrillation: The Atherosclerosis Risk in Communities (ARIC) Study</td>
<td>Younghoon Kwon, Univ of Minnesota, Minneapolis, MN Lin Y Chen, Univ of Minnesota, Minneapolis, MN</td>
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<td>2512</td>
<td>Coronary Artery Calcium is Associated With Increased Long-Term Mortality in Smokers Eligible for Lung Cancer Screening</td>
<td>Joshua Schulman-Marcus, NewYork-Presbyterian Hosp, New York, NY James K Min, NewYork-Presbyterian Hosp and Weill Cornell Medical Coll, New York, NY</td>
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<td>2513</td>
<td>Risk of Subsequent Cardiovascular Events Following a Respiratory Viral Infection</td>
<td>Stacey Knight, Intermountain Medical Ctr, Salt Lake City, UT John F Carquist, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT</td>
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<td>2514</td>
<td>High Leptin Predicts Short-Term Major Adverse Cardiac Events in Patients With Coronary Artery Disease</td>
<td>Veeti-Pekka Puurunen, Medical Res Ctr, Oulu Univ Hosp and Univ of Oulu, Oulu, Finland Heikki V Huikuri, Medical Res Ctr, Oulu Univ Hosp and Univ of Oulu, Oulu, Finland</td>
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<td>2515</td>
<td>The Impact of Low Grade Urinary Albumin on the Risk of Cardiovascular Disease in the Nonhypertensive and Nondiabetic Population</td>
<td>Fumitaka Tanaka, Iwate Medical Univ, Morioka, Japan Motoyuki Nakamura, Iwate Medical Univ, Morioka, Japan</td>
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<td>2516</td>
<td>Plasma Chemerin is a Strong and Independent Predictor of Cardiovascular Event Risk</td>
<td>Christoph H Saely, Private Univ of the Principality of Liechtenstein, Triesen, Liechtenstein Heinz Drexel, Drexel Univ, Philadelphia, PA</td>
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<td>2517</td>
<td>Galectin-3 and Risk of Stroke: The Reasons for Geographic and Racial Differences in Stroke (REGARDS) Cohort</td>
<td>Zubin Agarwal, Univ of Vermont, Burlington, VT Mary Cushman, Univ of Vermont, Burlington, VT</td>
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<td>2518</td>
<td>Extreme Endogenous Testosterone and Estrogen Concentrations and Risk of Ischemic Stroke in Men and Women: A Prospective Cohort Study and Meta-Analyses</td>
<td>Hayna N Holmegard, Gentofte Hosp, Copenhagen Univ Hosp, Hellerup, Denmark Marianne Benn, Gentofte Hosp, Copenhagen Univ Hosp, Hellerup, Denmark</td>
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<td>2519</td>
<td>Cardiac Troponin Levels Do Not Change in Response to Exercise Stress Testing</td>
<td>Alex Limkakeng, Duke Univ, Durham, NC L Kristin Newby, Duke Univ, Durham, NC</td>
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<td>2520</td>
<td>ECG and proBNP are Markers of Different Subclinical Cardiac Impairment and Combined Improve Risk Assessment</td>
<td>Peter G Jorgensen, Gentofte Hosp, Denmark, Copenhagen, Denmark Rasmus Mogelvang, Rigshospitalet, Copenhagen, Denmark</td>
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<td>2521</td>
<td>Marital Status and Long-Term Mortality of Male Patients Presenting With Acute Myocardial Infarction</td>
<td>Hiroaki Yokoyama, Hirosaki Univ Graduate Sch of Med, Hirosaki, Japan Ken Okumura, Hirosaki Univ Graduate Sch of Med, Hirosaki, Japan</td>
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<td>2522</td>
<td>Air Pollution and Stroke: A Systematic Review and Meta-Analysis</td>
<td>Kuan Ken Lee, Univ of Edinburgh, Edinburgh, United Kingdom Nicholas L Mills, Univ of Edinburgh, Edinburgh, United Kingdom</td>
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<td>2524</td>
<td>Gamma glutamyltransferase and Risk of Incident Heart Failure</td>
<td>Setor K Kunutsor, Univ of Cambridge, Cambridge, United Kingdom Hassan Khan, Emory Univ, Atlanta, GA</td>
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**Abstract Poster Session**

**Risk Factors, Biomarkers, Risk Prediction III**

South Hall A2 - Core 2

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

BOARD #

**Poster Professor:**
Darren K McGuire, Dallas, TX

2514 High Leptin Predicts Short-Term Major Adverse Cardiac Events in Patients With Coronary Artery Disease

Veeti-Pekka Puurunen, Medical Res Ctr, Oulu Univ Hosp and Univ of Oulu, Oulu, Finland
Heikki V Huikuri, Medical Res Ctr, Oulu Univ Hosp and Univ of Oulu, Oulu, Finland

2515 The Impact of Low Grade Urinary Albumin on the Risk of Cardiovascular Disease in the Nonhypertensive and Nondiabetic Population

Fumitaka Tanaka, Iwate Medical Univ, Morioka, Japan
Motoyuki Nakamura, Iwate Medical Univ, Morioka, Japan

2516 Plasma Chemerin is a Strong and Independent Predictor of Cardiovascular Event Risk

Christoph H Saely, Private Univ of the Principality of Liechtenstein, Triesen, Liechtenstein
Heinz Drexel, Drexel Univ, Philadelphia, PA

2517 Galectin-3 and Risk of Stroke: The Reasons for Geographic and Racial Differences in Stroke (REGARDS) Cohort

Zubin Agarwal, Univ of Vermont, Burlington, VT
Mary Cushman, Univ of Vermont, Burlington, VT
Abstract Poster Session

APS.212.11

Risk Factors, Biomarkers, Risk Prediction IV

South Hall A2 - Core 2

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

BOARD #

Poster Professor:
Lewis H Kuller, Pittsburgh, PA

2575 Association of the Red Cell Distribution Width—A Component of the Intermountain Mortality Risk Scores—With In-Hospital Mortality in PCI Patients
Benjamin D Horne, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT
Jeffrey L Anderson, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT

2576 The Red Cell Distribution Width Predicts Mortality among Patients Free from Systemic Inflammation
Benjamin D Horne, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT
Jeffrey L Anderson, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT

2577 Clinical Significance of Myeloperoxidase, Neopterin, and High Sensitivity C-Reactive Protein as Independent Predictors of Cardiovascular Events
Tomotaka Yoshiyama, Osaka City General Hosp, Osaka, Japan
Makiko Ueda, Osaka City Univ Graduate Sch of Med, Osaka, Japan

2578 Association Between Long-Term Alcohol Intake and Arterial Stiffness in Middle Aged Japanese Men
Chisa Matsumoto, Tokyo Medical Univ, Tokyo, Japan
Akira Yamashina, Tokyo Medical Univ, Tokyo, Japan

2579 CHA2DS2-VASC Score Are More Predictive of Clinical Outcomes Compared With SYNTAX Score in Patients With Coronary Artery Disease
Daisuke Abe, Tokyo Metropolitan Bokutoh Hosp, Sumida-city, Japan
Kazutaka Aonuma, Univ of Tsukuba, Tsukuba-City, Japan

2580 Aldosterone Level in the General Community Predicts New Onset Cardiometabolic Disease
Alessia Buglioni, Mayo Clinic, Rochester, MN
John C Burnett, Mayo Clinic, Rochester, MN

Abstract Poster Session

APS.301.02

RNA (Coding and Noncoding) and Epigenetics

South Hall A2 - Core 3

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

BOARD #

Poster Professor:
TBD

3011 Left Ventricular Assist Device Normalizes Multiple Pathogenic Pathways in Both the Left and Right Ventricle in Patients With Dilated Cardiomyopathy
Gavin Y Oudit, Div of Cardiology, Mazankowski Alberta Heart Inst, Univ of Alberta, Edmonton, AB, Canada

3012 Elevated Levels of Circulating MicroRNA-223, MicroRNA-127 and MicroRNA-146a Are Associated with Risk of Near Future Cardiovascular Events in Asymptomatic Individuals
Anna P Pilbrow, Univ of Otago Christchurch, Christchurch, New Zealand
Vicky A Cameron, Univ of Otago Christchurch, Christchurch, New Zealand
RNA Sequencing of Human Hypertrophic Cardiomyopathy Tissue Reveals Diverse Pathways Modulating the Myocardial Tissue Microenvironment
Alejandro de Faria, Vanderbilt Univ Sch of Med, Nashville, TN
Jason R Becker, Vanderbilt Univ Sch of Med, Nashville, TN

DNA Methylation Profiling Identifies Novel Epigenetic Markers of Cardiovascular Events
Svati H Shah, Duke Molecular Physiology Inst, Durham, NC
Simon G Gregory, Duke Molecular Physiology Inst, Durham, NC

Prediction of Right Ventricular Failure After Cardiac Transplantation: A Recipient Transcriptomic Study
Damien Guijarro, CHU de Nantes - Inst du Thorax, Nantes, France
Guillaume Lamirault, CHU de Nantes - Inst du Thorax, Nantes, France

A Molecular Signature with the Potential for Identifying Impending Acute Myocardial Infarction
Evan D Muse, The Scripps Res Inst, La Jolla, CA
Eric J Topol, The Scripps Res Inst, La Jolla, CA

The Gut Flora Promotes Endothelial Dysfunction Through Vascular MicroRNA-204-mediated Down-regulation of Endothelial Sirtuin1
Ajit Vikram, Univ of Iowa, Iowa City, IA
Kaikobad Irani, Univ of Iowa, Iowa City, IA

Gene Expression Profiling Identifies Differentially Expressed Genes in Cardiac Allograft Vasculopathy
Monica Colvin-Adams, Univ of Minnesota, Minneapolis, MN
Kenneth Beckman, Univ of Minnesota, Minneapolis, MN

Postinfarction Cardiac Remodeling Normally Proceeds in Granulocyte Colony-Stimulating Factor Knockout Mice
Kentaro Morishita, Gifu Univ Graduate Sch of Med, Gifu, Japan
Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan

Epigenetic Modifiers Reduce Inflammation and Modulate Macrophage Phenotype to Attenuate Endotoxemia-Induced Acute Lung Injury
Bahar Barani, Univ of Kansas Medical Ctr, Kansas City, KS
Johnson Rajasingh, Univ of Kansas Medical Ctr, Kansas City, KS
**Effect of Cyclosporine a on Infarct Size Reduction in Reperfused Acute Myocardial Infarction Treated with Primary Angioplasty**
Roberto Latin, Istituto Mario Negri, Milan, Italy

on behalf of the CYCLE Investigators

**Cardiosphere Derived Cells From Pediatric End-Stage Heart Failure Patients Have Enhanced Functional Activity Due to the Heat Shock Response Regulating the Secretome**
Sudhish Sharma, Univ of Maryland, Baltimore, MD
Sunjay Kaushal, Univ of Maryland, Baltimore, MD

**Remote Ischemic Conditioning Attenuates the Effect of System Delay in STEMI Patients Treated With Primary Percutaneous Coronary Intervention**
Kasper Pryds, Aarhus Univ Hosp, Aarhus N, Denmark
Hans Erik Bøtker, Aarhus Univ Hosp, Aarhus N, Denmark

**Peptide Inhibition of PTEN Increases Mouse Survival after Sudden Cardiac Arrest**
Xiandong Zhu, Univ of Illinois at Chicago, Chicago, IL
Terry L Vanden Hoek, Univ of Illinois at Chicago, Chicago, IL

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**Abstract Poster Session**

**Signaling Mechanisms of Pulmonary Hypertension**

**South Hall A2 - Core 7**

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**
Paul B Yu, Boston, MA

**7596 The Impact of Plasma Levels of Receptor for Advanced Glycation End-products and High Mobility Group Box 1 in Patients With Pulmonary Hypertension**
Satoshi Suzuki, Fukushima Medical Univ, Fukushima, Japan
Yasuchika Takeishi, Fukushima Medical Univ, Fukushima, Japan

**7597 Down-regulation of BMPR2 in Pulmonary Hypertension Secondary to Lung Fibrosis**
Harry Karmouty Quintana, UTHealth, Houston, TX

**7598 Protein Kinase G mediates Hypoxia-Induced Vascular Changes in Bronchopulmonary Dysplasia-Associated Pulmonary Hypertension**
Keng Jin Lee, Northwestern Univ, Chicago, IL
Kathryn N Farrow, Northwestern Univ, Chicago, IL

**7599 Diminished Levels of Circulating Bone Morphogenetic Protein 9 Identify Pulmonary Arterial Hypertension Associated With Liver Disease**
Ivana Nikolic, Brigham and Women’s Hosp, Boston, MA
Paul B Yu, Brigham and Women’s Hosp, Boston, MA

**7600 Let-7 Family MicroRNAs Expression in Subcutaneous Skin Negatively Correlate With Severity of Pulmonary Hypertension in Patients With Systemic Sclerosis**
Yasuhiro Izumiya, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

**7601 The p110α Selective PI3K Inhibitor PIK75 Reverses SU5416/Hypoxia-Induced PH**
Eva M Berghausen, Univ Hosp of Colonge, 50937 Köln, Germany
Stephan Rosenkranz, Univ Hosp of Colonge, 50937 Köln, Germany

**7602 Increased Pulmonary Vascular and Systemic Response to Chronic Hypoxia in Sirtuin 1 Mutant Mice: a Role for Hypoxia-inducible Factor-3α?**
Mohamad Taha, Ottawa Hosp Res Inst; Univ of Ottawa, Ottawa, ON, Canada
Duncan J Stewar, Ottawa Hosp Res Inst; Univ of Ottawa, Ottawa, ON, Canada

**7603 Altered Expression of Chloride Transporters in Rat Pulmonary Arterial Smooth Muscle Associated with Chronic Hypoxic Pulmonary Hypertension**
Hui Sun, Johns Hopkins Univ, Baltimore, MD
James S.K Sham, Johns Hopkins Univ, Baltimore, MD

**7604 The Bromodomain-containing Protein 4: the Epigenetic Origin of the Cancer Paradigm in Pulmonary Arterial Hypertension**
Mylène Vaillancourt, CRIUCPQ, Québec, QC, Canada
Sébastien Bonnet, CRIUCPQ, Québec, QC, Canada

**7605 Natural Killer Cell Deficient E4BP4 Knockout Mice Develop Spontaneous, Age-related Pulmonary Hypertension**
Mark L Ormiston, Univ of Cambridge, Cambridge, United Kingdom
Tuesday, November 18 • Chicago, Illinois

**Abstract Poster Session**

**APS.705.03**

**Stem/Progenitor Cells: Mechanism of Functions of Stem Cells in Diseases**

*South Hall A2 - Core 7*

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Lyia Yin, Rootstown, OH

7148

**Intra-Coronary Transfusion of Autologous CD34+ Cells Improves Left Ventricular Function in Patients With Diffuse Coronary Artery Disease and Non Candidates for Coronary Artery Intervention—Results of Three Years Follow Up**

Jiunn-Jye Sheu, Kaohsiung Chang Gung Memorial Hosp, Chang Gung Univ Coll of Med, Kaohsiung City, Taiwan

Sarah Chua, Kaohsiung Chang Gung Memorial Hosp, Chang Gung Univ Coll of Med, Kaohsiung City, Taiwan

7149

**Lineage Tracing of Postnatal Cardiomyogenic Progenitor Cells**

Yuan-Hung Liu, Far Eastern Memorial Hosp, Taipei, Taiwan

Hsien-Yu Huang, Far Eastern Memorial Hosp, New Taipei City, Taiwan

7150

**Depletion of Circulating CD34+/KDR+ Cells in Type 2 Diabetes is Associated With Glycemic Control**

Nagma Zafar, Univ of Louisville, Louisville, KY

Aruni Bhatnagar, Univ of Louisville, Louisville, KY

7151

**Segmental Myocardial Perfusion Improves after Repeated Intramyocardial Cell Injection**

Imke Mann, Leids Univ Medical Ctr, Leiden, Netherlands

Douwe E Atsma, Leids Univ Medical Ctr, Leiden, Netherlands

7152

**Higher Cardiac Differentiation Properties are Evident in Long Term Cultured Induced Pluripotent Stem Cells Obtained From Atrial Mesenchymal Cells Compared to Skin Mesenchymal Cells**

Viviana Meraviglia, European Acad of Bozen, Bolzano, Italy

Alessandra Rossini, European Acad of Bozen, Bolzano, Italy

7153

**Dynamics of Adipocyte and Endothelial Progenitor Cell Pools in Expanding Adipose Tissue**

Candice R Holden, Univ of Louisville, Louisville, KY

Bradford Hill, Univ of Louisville, Louisville, KY

7154

**The Role of eNOS Signaling in Wound Healing in a Murine Model of Diet-Induced Obesity**

Petra Haberzettl, Univ of Louisville, Louisville, KY

Daniel J Conklin, Univ of Louisville, Louisville, KY

**Abstract Poster Session**

**APS.705.01**

**Stem/Progenitor Cells: Optimizing Function of Stem Cells in Repair and Regeneration**

*South Hall A2 - Core 7*

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Muhammad Ashraf, Chicago, IL

7128

**Abrogation of Senescence-associated MicroRNA-195 in Aged Skeletal Myoblasts Facilitates Reprogramming to Produce Induced Pluripotent Stem Cells**

Hideyuki Kondo, Univ of Cincinnati, Cincinnati, OH

Yi-Gang Wang, Univ of Cincinnati, Cincinnati, OH

7129

**Hypoxic Reprogramming of Exosomal miRNAs by Ets Transcription Factors in Human CD34+ Stem Cells Promotes Ischemic Tissue Repair**

Susmita Sahoo, Northwestern Univ, Chicago, IL

7130

**Microrna-200b Induces Endothelial Progenitor Cell Apoptosis and Senescence by Targeting Cjun Expression**

Shoukang Zhu, Univ of Miami, Miami, FL

Chuming Dong, Univ of Miami, Miami, FL

7131

**Microrna-195 in Aged Skeletal Myoblasts Facilitates Reprogramming to Produce Induced Pluripotent Stem Cells**

Hidayi Kondo, Univ of Cincinnati, Cincinnati, OH

Yi-Gang Wang, Univ of Cincinnati, Cincinnati, OH

**Abstract Poster Session**

**APS.705.05**

**Stem/Progenitor Cells: Mechanism of Functions of Stem Cells in Diseases**

*South Hall A2 - Core 7*

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Courtney Premer, Univ of Miami, Miami, FL

Joshua M Hare, Univ of Miami, Miami, FL

7155

**Intracardiac Mesenchymal Stem Cells Restore Endothelial Function in Heart Failure by Stimulating the Release of Endothelial Progenitor Cells**

Courtney Premer, Univ of Miami, Miami, FL

Joshua M Hare, Univ of Miami, Miami, FL

7156

**Stem Cell Model for Down Syndrome-Related Heart Defects**


7157

**Drug Screening in Human Neutral Lipid Storage Disease iPSCells Identifies Modulators of Intracellular Lipid Metabolism That Reduce Disease Phenotype in vitro**

Rajarajan Kuppusamy, Stanford Univ Medical Ctr, Stanford, CA

Sean Wu, Stanford Univ Medical Ctr, Stanford, CA

7157.5

**Proangiogenic Hematopoietic Progenitor-Derived Eotaxins Promote Pathological Angiogenesis and Airway Inflammation in Asthma**

Kewal Asosingh, Cleveland Clinic, Cleveland, OH

Serpit Erzurum, Cleveland Clinic, Cleveland, OH
Androgens Ameliorate Age-Related Impairment in Ischemia-Mediated Neovascularization by Enhancement of Androgen-Receptor Dependent, Endothelial Progenitor Cell (EPC)-Mediated Vasculogenesis
Yuen Ting Lam, The Heart Res Inst, Sydney, Australia
Martin K Ng, The Heart Res Inst, Sydney, Australia

Cytoprotective Effect of Growth Hormone Releasing Hormone Agonists in Cardiac Stem Cells
Victoria Florea, Univ of Miami, Miami, FL
Claudia O Rodrigues, Univ of Miami, Miami, FL

Ischemic Stress Reduces Cardiac Progenitor Cell Self-renewal Through Gsk3β Activation and Reduction in Cmyc Stability
Victoria Florea, Univ of Miami, Miami, FL
Claudia O Rodrigues, Univ of Miami, Miami, FL

Priming with Erythropoietin Enhances Survival and Pro-Angiogenic Properties in Mesenchymal Stem Cells
Takuya Mizukani, Showa Univ Fujigaoka Hosp, Yokohama, Japan
Hiroshi Suzuki, Showa Univ Fujigaoka Hosp, Yokohama, Japan

Exosomal Transfer of Mir-130a Excreted From Gata-4-Modified Mesenchymal Progenitor Cells Promotes Angiogenesis
Min Gong, University of Cincinnati, Medical Ctr, Cincinnati, OH
Meifeng Xu, University of Cincinnati, Medical Ctr, Cincinnati, OH

Myogenic Target of Mir-290 Cluster Promotes Reprogramming of Skeletal Myoblast to Produce Induced Pluripotent Stem Cells
Lei Wang, Univ of Cincinnati, Cincinnati, OH
Yi-Gang Wang, Univ of Cincinnati, Cincinnati, OH

Fibrin-Thrombin Patch for Endothelial Cell Differentiation and Cardiac-Tissue Patch Manufacturing Using Human Induced-Pluripotent Stem Cells
Lei Ye, Univ of Minnesota, Minneapolis, MN

GMP-Grade Cardiomyocyte Differentiation Media System for Pluripotent Stem Cells in Basic and Translational Research
Shayne Boucher, Thermo Fisher Scientific, Frederick, MD
Mohan Vemuri, Thermo Fisher Scientific, Frederick, MD

Inhibition of Glycogen Synthase Kinase-3β Amplifies β-catenin Signaling to Promote Dedifferentiation of Endothelial Cells to Improve Neovessel Formation
Kishore K Wary, Univ of Illinois at Chicago, Chicago, IL
Erin E Kohler, Univ of Illinois at Chicago, Chicago, IL

Derivation of Functional Smooth Muscle Cells From Integration-free Induced Pluripotent Stem Cells Through Cardiovascular Progenitor Cell Intermediate for Vascular Regeneration
Yongyu Wang, Univ of Michigan, Ann Arbor, MI
Bo Yang, Univ of Michigan, Ann Arbor, MI
### Abstract Poster Session

**APS.202.02**

**Strategies for CVD Risk Reduction**

South Hall A2 - Core 2  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

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<td>Anne Tybjaerg-Hansen, Copenhagen, Denmark</td>
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<td>2041</td>
<td>Børge Nordestgaard, Herlev Hosp, Copenhagen, Denmark</td>
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<td>Annette Varbo, Herlev Hosp, Copenhagen, Denmark</td>
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<td>Ruth Frikke-Schmidt, Rigshospitalet, Copenhagen, Denmark</td>
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<td>Bethany Doran, New York Univ, New York, NY</td>
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<td>Christian Werner, Univ Klinikum der Saarlandes, Homburg / Saar, Germany</td>
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<td>2046</td>
<td>Haider Alwash, Piedmont Heart Inst, Atlanta, GA</td>
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#### 2040
**Extreme Nonfasting Remnant Cholesterol versus Extreme Low-Density Lipoprotein Cholesterol as Contributors of Cardiovascular Disease and All-Cause Mortality**  
**Presenters:** Anette Varbo, Herlev Hosp, Copenhagen, Denmark  
Børge G Nordestgaard, Herlev Hosp, Copenhagen, Denmark

#### 2041
**Beyond LDL Cholesterol: Carriers of the PCSK9 R46L Variant Are Characterized by an Anti-Atherogenic Lipoprotein Profile Assessed by Nuclear Magnetic Resonance Spectroscopy**  
**Presenters:** Benoit J Arsenault, Ctr de recherche de l’IUCPQ, Quebec, QC, Canada  
Kay-Tee Khaw, Univ of Cambridge, Cambridge, United Kingdom

### Abstract Poster Session

**APS.211.06**

**Stroke and Peripheral Vascular Disease**

South Hall A2 - Core 2  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM

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<td>2424</td>
<td>Mary Cushman, Colchester, VT</td>
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<td>2425</td>
<td>Christina L Wassel, Univ of Pittsburgh, Pittsburgh, PA</td>
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<td>2426</td>
<td>Ariel Cohen, AP-HP, Paris, France</td>
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#### 2424
**Femoral Artery Distensibility and Intima Media Thickness (IMT), but Not the Ankle Brachial Index, Are Associated With Measures of Physical Function: The San Diego Population Study (SDPS)**  
**Presenters:** Christina L Wassel, Univ of Pittsburgh, Pittsburgh, PA  
Michael H Criqui, Univ of California, San Diego, La Jolla, CA

#### 2425
**Soluble P-Selectin Predicts Lower Extremity Peripheral Artery Disease Incidence and Change in the Ankle Brachial Index: The Multi-Ethnic Study of Atherosclerosis (MESA)**  
**Presenters:** Christina L Wassel, Univ of Pittsburgh, Pittsburgh, PA  
Suzette J Bielinski, Mayo Clinic, Rochester, MN

#### 2426
**Is the Risk of Stroke and Death Really Different in Patients With Non Valvular Atrial Fibrillation and Flutter?**  
**Presenters:** Ariel Cohen, AP-HP, Paris, France
Abstract Poster Session

**Sudden Cardiac Death and ICDs**

*South Hall A2 - Core 2*

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 3:00 - 4:30 PM

**Board #**

**Poster Professor:**

Kathryn Wood, Durham, NC

**APS.205.05h**

**Pre-participation Screening of Young Competitive Athletes for the Prevention of Sudden Cardiac Death Using a New Electrocardiographic Device**

Jae Hyung Cho, Cleveland Clinic, Cleveland, OH

Abraham G Kocheril, Univ of Illinois at Urbana-Champaign, Champaign, IL

**APS.404.05**

**Sudden Cardiac Death: Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk Stratification**

*South Hall A2 - Core 4*

**Posters Displayed:** 9:00 AM - 5:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**Board #**

**Poster Professor:**

Sumeet Chugh, Los Angeles, CA

**4117**

**Fragmentation Assessed by Magnetocardiography but not Electrocardiogram Can Predict Future Cardiac Events in Patients with Non-ischemic Dilated Cardiomyopathy and Narrow QRS**

Shoji Kawakami, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan

Masaru Sugimachi, Natl Cerebral and Cardiovascular Ctr Research Inst, Osaka, Japan

**4118**

**Prognostic Implications of 12-Lead Surface ECG Characteristics in Patients With Cardiac Sarcoidosis and Preserved Ejection Fraction**

Luke J Laffin, Univ of Chicago, Chicago, IL

John F Beshai, Mayo Clinic Phoenix AZ, Scottsdale, AZ

**Educational and Support Needs of Women with an Implantable Cardioverter Defibrillator: a Qualitative Study**

Ann Marie P Mauro, New York Unv, New York, NY

Thinlay Doirna, New York Unv, New York, NY

**Sauna Bathing, Sudden Cardiac Death and Cause-Specific Cardiovascular Mortality**

Jari A Laukkanen, Univ of Eastern Finland, Kuopio, Finland

**Sudden Cardiac Death in Current vs. Former Smokers**

Kyndaron Reinier, Cedars-Sinai Medical Ctr, Los Angeles, CA

Sumeet S Chugh, Cedars-Sinai Medical Ctr, Los Angeles, CA

**Concerns About Implantable Cardioverter Defibrillator Shocks Mediate the Relationship Between Shock and Psychological Distress**

Ingela Thylef, Linköping Univ, Linköping, Sweden

Minsok Chung, Univ of Kentucky, Linköping, KY

**A Prospective Study of Anxiety in ICD Patients With Randomized Controlled Pilot Trial of Cognitive Behavioral Therapy for Moderate to Severe Anxiety**

Mohammed Qintar, Cleveland Clinic Fndn, Lakewood, OH

Mina Chung, Cleveland Clinic Fndn, Lakewood, OH
Predicting Sudden Cardiac Death in the General Population: Analysis of the Atherosclerosis Risk in Communities Study and the Cardiovascular Health Study
Rajat Deo, Univ of Pennsylvania, Philadelphia, PA
Alvaro Alonso, Univ of Minnesota, Minneapolis, MN

Focal Fibrosis Predicts Monomorphic VT but Not Polymorphic VT or VF in Nonischemic Dilated Cardiomyopathy
Jeroen Venlet, Leiden Univ Medical Ctr, Leiden, Netherlands
Katja Zeppenfeld, Leiden Univ Medical Ctr, Leiden, Netherlands

Prediction of Sudden Cardiac Death With Automated High-Throughput Analysis of T-Wave Heterogeneity in Standard 12-Lead Electrocardiogram
Tuomas Kenttä, Univ of Oulu, Oulu, Finland
Richard L Verrier, Beth Israel Deaconess Medical Ctr and Harvard Medical Sch, Boston, MA

Identifying Patients at Low Risk for Ventricular Tachycardia After Cardiac Resynchronisation
Martin Grett, Univ of Bochum, Herne, Germany
Hans-Joachim Trappe, Univ of Bochum, Herne, Germany

QRS Scoring System for Early Estimation of Myocardial Infarct Size and Its Ability to Accurately Predict Ejection Fraction at 3 Months and the Need for Early AICD Implantation
Rodolfo A Estrada, Montefiore Medical Ctr, Bronx, NY
Mario J Garcia, Montefiore Medical Ctr, Bronx, NY

Post-Extrasystolic T-Wave Change Predicts Mortality in Survivors of Myocardial Infarction
Georg Schmidt, Klinikum rechts der Isar-Technische Univ München, München, Germany
Petra Barthel, Klinikum rechts der Isar-Technische Univ München, München, Germany

Long Term Prognosis of Intraventricular Conduction Delay in Patients With Structurally Normal Heart
Jae-Sun Uhm, Severance Hosp, Yonsei Univ Health System, Seoul, Republic of Korea
Moon-Hyong Lee, Severance Hosp, Yonsei Univ Health System, Seoul, Republic of Korea

Velocity of the Heart Vector Through the QRS Complex Predicts Sudden Cardiac Death in Cardiovascular Disease-Free Adults
Larisa G Tereshchenko, Oregon Health & Science Univ, Portland, OR
Mark E Josephson, Beth Israel Deaconess Medical Ctr, Boston, MA

Is Coronary Artery Bypass Grafting (CABG) with Cardiopulmonary Bypass Support (On-pump) Superior to CABG Without Bypass Support (Off-pump) in the High-Risk?: A Meta-Analysis of Randomized Controlled Trials (RCTs)
Ali Yousif, Baylor Coll of Med, Houston, TX
Mahboob Alam, Baylor Coll of Med, Houston, TX

The Use of Coronary Artery Bypass Grafts in Non-significant Lesions: Is There Harm to Patients?
Brian R Englum, Duke Univ Medical Ctr, Durham, NC
John H Alexander, Duke Clinical Res Inst, Durham, NC

Impact of Left Ventricular Diastolic Dysfunction on Long-Term Outcomes Following Coronary Artery Bypass Grafting: 5-Year Outcomes of the CREDO-Kyoto CABG Registry Cohort-2
Akira Marui, Kyoto Univ Graduate Sch of Med, Kyoto, Japan
The CREDO-Kyoto CABG Registry Cohort-2 Investigators

Diabetes Induced Actin S-glutathiolation Increases Vein Graft Accelerated Atherosclerosis Through Delayed Endothelial Regeneration
Ziad A Ali, Columbia Univ, New York, NY

Long-Term Survival and Quality of Life of Patients Submitted to Emergency Coronary Artery Bypass Grafting for Post-Infarction Cardiogenic Shock
Mario Gaudino, Div of Cardiac Surgery, Rome, Italy
Massimo Massetti, Div of Cardiac Surgery, Rome, Italy
Tuesday, November 18 • Chicago, Illinois

6268 Does Platelet Inhibition Predict Surgery Related Bleeding in Patients Undergoing Emergent Cardiac Surgery During Dual Antiplatelet Therapy? Elisabeth Mahla, Medical Univ of Graz, Austria, Graz, Austria
Paul A Gurbel, Sinai Hosp of Baltimore, Baltimore, MD

6269 Arterial Coronary Artery Bypass Grafting is Associated With Improved Long-Term Survival in Elderly Patients Dmitry Pavni, sourasky medical center, Tel Aviv, Israel

6270 Measurement of Myocardial Necrosis Biomarkers After Surgical or Percutaneous Intervention Assessed by Cardiac Magnetic Resonance for Diagnosis of Procedure-Related Myocardial Infarction. The MASS-5 Trial Whady Hueb, Heart Inst (InCor) Univ of São Paulo, São Paulo, Brazil
Roberto Kalil Filho, Heart Inst (InCor) Univ of São Paulo, São Paulo, Brazil

6271 Total Arterial Off-pump Coronary Artery Bypass Grafting Can Improve Clinical Outcome for Diabetes Mellitus Patients Tomoaki Suzuki, Shiga Univ of Medical Science, Otsu, Japan
Takehiko Kinoshita, Shiga Univ of Medical Science, Otsu, Japan

Abstract Poster Session

APS.723.03 Therapeutic Approach for Pulmonary Hypertension

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 5:00 PM
Presenter Available: 3:00 - 4:30 PM

BOARD #
Poster Professor:
Marc Semigran, Boston, MA

7588 Statin Therapy Improves Survival in Patients With Severe Pulmonary Hypertension: A Propensity Score Matching Study Parham Eshehardi, Albert Einstein Coll of Med, Bronx, NY
Ronald Zolty, Albert Einstein Coll of Med, Montefiore Med Ctr, Bronx, NY

7589 Effect of Continuous Flow Left Ventricular Assist Device on Diastolic Pulmonary Artery Pressure-to-Pulmonary Capillary Wedge Pressure Gradient in End Stage Heart Failure Patients with Pulmonary Hypertension Thenappan Thenappan, Univ of Minnesota, Minneapolis, MN
Marc R Pritzker, Univ of Minnesota, Minneapolis, MN

7590 Influence of Locomotor Muscle Afferent Feedback Inhibition on Pulmonary Vascular Conductance During Submaximal Exercise in Heart Failure Erik H Valtersson, Univ of Minnesota, Minneapolis, MN
Thomas P Olson, Mayo Clinic-Rochester, Rochester, MN

7591 Percutaneous Transluminal Pulmonary Angioplasty Improves Hemodynamics and Right Ventricular Function in Patients with Chronic Thromboembolic Pulmonary Hypertension - One Year Follow-up Study Masanobu Miura, Tohoku Univ Graduate Sch of Med, Sendai, Japan
Hiroaki Shimokawa, Tohoku Univ Graduate Sch of Med, Sendai, Japan

7592 Renal Denervation Reduces Pulmonary Vascular Remodeling in Experimental Pulmonary Arterial Hypertension Denielli da Silva Goncalves Bos, VU Univ Medical Ctr, Amsterdam, Netherlands
M Louis Handoko, VU Univ Medical Ctr, Amsterdam, Netherlands

7593 Bosentan as Adjunctive Therapy for Persistent Pulmonary Hypertension of the Newborn: Results of the FUTURE-4 Study Robin H Steinhorn, Univ of California Davis, Sacramento, CA
Maurice Beghetti, Children's Univ Hosp, Geneva, Switzerland

7594 Prognostic Significance and Determinants of the 6-Minute Walk Test in Patients With Heart Failure and Preserved Ejection Fraction Diana Bonderman, Medical university of vienna, 1090 Vienna, Austria

7595 Impaired Gas Diffusion and RV to Pulmonary Circulation Uncoupling Limit Exercise Performance in Heart Failure Patients Greta Generati, IRCCS Policlinico San Donato Milanese, San Donato, Italy
Marco Guazzi, IRCCS Policlinico San Donato Milanese, San Donato, Italy
Abstract Poster Session

TUESDAY AM

**APS.709.02**

**Thrombosis and Coagulation: Basic and Translational**

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

Ralph Nachman, New York, NY

7253

**Unraveling the Mechanism for the Stimulatory Role of Platelet GPIb-IX-V in Thrombin-Induced Platelet Activation**

Brian Estevez, Univ of Illinois at Chicago, Chicago, IL
Xiaoping Du, Univ of Illinois at Chicago, Chicago, IL

7254

**A Thrombus-specific Drug Delivery System Using Biological Polymer Micelle Complex for the Treatment of Actively Forming Vascular Thromboembolism**

Joo Heung Yoon, Beth Israel Deaconess Hosp, Boston, MA
Peter M Kang, Beth Israel Deaconess Hosp, Boston, MA

7255

**Iron Plays a Role in the Thrombus Formation of a Rat Model of Deep Venous Thrombosis**

Makiko Oboshi, Hyogo Coll of Med, Nishinomiya, Japan
Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan

7256

**Cr(nMe)eka-Conjugated Micellar Formulation Improves Anticoagulation Efficacy of Bivalirudin**

Zhi-Gang She, Sanford-Burnham Medical Res Inst, San Diego, CA
Erkki Ruoslahti, Sanford-Burnham Medical Res Inst, La Jolla, CA

7257

**Inhibition of vWF Secretion Prevents Microvascular Thrombosis in CLP Rodent Models of Sepsis**

Luiza Rusu, Univ of Illinois at Chicago, Chicago, IL
Richard D Minshall, Univ of Illinois at Chicago, Chicago, IL

7258

**Platelets Play Positive and Negative Roles in Abdominal Aortic Aneurysm Formation and Rupture**

A Phillip Owens III, Univ of North Carolina at Chapel Hill, Chapel Hill, NC
Nigel Mackman, Univ of North Carolina at Chapel Hill, Chapel Hill, NC

7259

**The Effects of Dabigatran on Fibrin Network Structure and Lysis: A Simple Technique to Monitor Efficacy of Treatment?**

Francesco Franchi, Univ of Florida, Jacksonville, FL
Ramzi Ajan, Univ of Leeds, Leeds, United Kingdom

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**APS.709.03**

**Thrombosis and Coagulation: Clinical**

South Hall A2 - Core 7

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:**

John Eikelboom, Hamilton, ON, Canada

7263

**A Novel Flow-chamber System for Quantitative Assessment of Whole Blood Thrombogenicity in Patients Undergoing Elective Percutaneous Coronary Intervention**

Yuichiro Arima, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

7264

**Pharmacokinetics and Pharmacodynamics of Dabigatran Exetilate in Adolescents: An Open-label Phase IIa Study**

Sebastian Haertter, Boehringer Ingelheim Pharma GmbH & Co KG, Biberach an der Riss, Germany
Lesley Mitchell, Stollery Children’s Hosp, Edmonton, AB, Canada

7265

**In Vitro Characterization of Andexanet Alfa (PRT064445), a Specific fXa Inhibitor Antidote versus Aripazine (PER977), a Non-specific Reversal Agent**

Lisa K Jennings, Univ of Tennessee Health Science Ctr, Memphis, TN

7266

**Heparin Induced Thrombocytopenia (HIT) in Cardiac Surgery May Be Associated to Constant Exposure Rather Than Occasional Previous Administration: A Single Center Study**

M. Burhan Janjua, Washington Univ, St Louis, MO
Stefano Schena, Washington Univ, St Louis, MO
7267  **Bloods Loss in Dabigatran Anticoagulated Pigs With Polytrauma is Significantly Reduced by Early Therapy With Activated and Non-activated Prothrombin Complex Concentrates**  
Oliver Grottke, Univ Klinik Aachen, Aachen, Germany  
Rolf Rossaint, Univ Klinik Aachen, Aachen, Germany  

7268  **Effect of Dabigatran on the Ability to Generate Fibrin at a Wound site and its Reversal by Idarucizumab, the Antidote to Dabigatran, in Healthy Volunteers: An Exploratory Marker of Blood Loss**  
Joanne van Ryn, Boehringer Ingelheim, Biberach, Germany  
Joachim Stangier, Boehringer Ingelheim, Biberach, Germany  

7269  **Neutralization of Bleeding Induced by Direct Factor Xa and Thrombin Inhibitors by Prothrombin Complex Concentrates Alone and in Combination with Antifibrinolytic Agents**  
Walter Jeske, Loyola Univ Medical Ctr, Maywood, IL  
Mamdouh Bakhos, Loyola Univ Medical Ctr, Maywood, IL  

7270  **Efficacy of Dabigatran versus Warfarin in Patients With Acute Venous Thromboembolism and Thrombophilia: A Pooled Analysis of RE-COVER™ and RE-COVER™ II**  
Samuel Z Goldhaber, Brigham and Women’s Hosp, Boston, MA  
Sebastian Schellong, Municipal Hosp Friedrichstads, Dresden, Germany  

7271  **Andexanet-alfa and PER977 (Arapazine) Correct Blood Loss in a Rabbit Liver Laceration Model - Only Andexanet Reverses Markers of fXa-mediated Anticoagulation**  
Pamela Conley, Portola Pharmaceuticals, S San Francisco, CA  
John T Curnutte, Portola Pharmaceuticals, S San Francisco, CA  

7272  **Reversal of Anticoagulant-induced Bleeding in External and Internal Bleeding Models by PER977, a Small Molecule Anticoagulant Antidote**  
Sasha Bakhru, Perosphere Inc., Danbury, CT  
Solomon Steiner, Perosphere Inc., Danbury, CT  

7273  **Vascular Risk Levels Affect the Predictive Value of Platelet Reactivity for the Occurrence of Major Adverse Cardiovascular Events in Patients on Clopidogrel: Systematic Review and Collaborative Meta-analysis of Individual Patient Data**  
Jean-Luc Remy, Geneva University Hosp, Thône-Geneva, Switzerland  
Christophe Combescure, Geneva Universitly Hosp, Geneva, Switzerland  

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**Abstract Poster Session**

**Transcatheter Aortic Valve Replacement: Findings from Trials and Registries**  
South Hall A2 - Core 6  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 9:30 - 11:00 AM  

**Poster Professor:**  
Kimberly A Skelding, Danville, PA  

**Clinical and Hemodynamic Factors Influence the Risk of Pulmonary Hypertension in Patients Undergoing Transcatheter Aortic Valve Replacement: Insights from the PARTNER I Trial and Registry**  
Brian R Lindman, Washington Univ Sch of Med, Saint Louis, MO  
Michael J Mack, Baylor Healthcare System, Plano, TX  

**The Impact of Major Vascular Complications on the Long-Term Outcome for Patient Undergoing Trans-Catheter Aortic Valve Replacement**  
Sa’ar Minha, Medstar Washington Hosp Ctr, Washington, DC  
Ron Waksman, Medstar Washington Hosp Ctr, Washington, DC  

**National Cost Comparison of Trans Catheter Aortic Valve Replacement With Surgical Aortic Valve Replacement in Moderate to High Risk Patients With Severe Symptomatic Aortic Stenosis in New Zealand**  
Srija Bhattacharyya, Waitemata District Health Board, Auckland, New Zealand  
Peter Ruygrok, Auckland District Health Board, Auckland, New Zealand  

**Comparison of Post-procedural Echocardiographic Valvular Performance after Transcatheter Aortic Valve Implantation using Edwards SAPIEN valve versus Medtronic CoreValve for Severe Aortic Stenosis: a Meta-analysis**  
Hemang B Panchal, East Tennessee State Univ, Johnson City, TN  
Timir Paul, East Tennessee State Univ, Johnson City, TN  

**Post-procedural Aortic Regurgitation in Patients Undergoing Transcatheter Aortic Valve Implantation with Edwards SAPIEN Valve versus Medtronic CoreValve for Severe Aortic Stenosis: a Meta-analysis**  
Neil Barry, East Tennessee State Univ, Johnson City, TN  
Timir Paul, East Tennessee State Univ, Johnson City, TN
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<tr>
<th>#</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>6167</td>
<td>Incidence, Clinical Outcomes and Factors Influencing Permanent Pacemaker Implantation after Transcatheter Aortic Valve Replacement - A Meta-Analysis of 93 Studies including 37,836 Patients</td>
<td>Tarun Chakravarty, Cedars-Sinai Medical Ctr, Los Angeles, CA Raj R Makkar, Cedars-Sinai Medical Ctr, Los Angeles, CA</td>
</tr>
<tr>
<td>6168</td>
<td>Determinants and Prognostic Value of Pulmonary Hypertension in Patients Undergoing Trans-catheter or Surgical Aortic Valve Replacement</td>
<td>Asim M Ratique, Cedars-Sinai Medical Ctr, Los Angeles, CA Raj Makkar, Cedars-Sinai Medical Ctr, Los Angeles, CA</td>
</tr>
<tr>
<td>6169</td>
<td>Low Systemic Arterial Pressure and Greater Vascular Stiffness after Transcatheter Aortic Valve Replacement are Independently Associated with Mortality in the PARTNER I Trial and Registry</td>
<td>Brian R Lindman, Washington Univ Sch of Med, Saint Louis, MO Philippe Pibarot, Laval Univ, Quebec, QC</td>
</tr>
<tr>
<td>6170</td>
<td>Prognostic Value of Restrictive Left Ventricular Filling in Patients Undergoing Trans-catheter or Surgical Aortic Valve Replacement</td>
<td>Asim M Ratique, Cedars-Sinai Medical Ctr, Los Angeles, CA Raj Makkar, Cedars-Sinai Medical Ctr, Los Angeles, CA</td>
</tr>
<tr>
<td>6171</td>
<td>Transcatheter Aortic Valve Implantation in Patients With Bicuspid Aortic Valve: a Patient Level Multi-center Analysis</td>
<td>Altayyeb Yousef, Univ of Ottawa Heart Inst, Ottawa, ON, Canada Marino Labinaz, Univ of Ottawa Heart Inst, Ottawa, ON, Canada</td>
</tr>
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</table>

**Abstract Poster Session**

**APS.405.02**

**Treatment of Arrhythmias: Pharmacological—Antiarrhythmic Therapy**

**South Hall A2 - Core 4**

Posters Displayed: 9:00 AM - 5:00 PM

Presenter Available: 9:30 - 11:00 AM

**Poster Professor:** Jonathan Weinstock, Boston, MA

**4203**

**Influence of Oral Progesterone Administration on QT Interval Response to Ikr Inhibition**

James E Tisdale, Purdue Univ, Indianapolis, IN Richard J Kovacs, Indiana Univ, Indianapolis, IN

**4204**

Nadolol Decreases Incidence and Severity of Ventricular Arrhythmias at Exercise Compared to Metoprolol SR in Patients with Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT)

Ida S Leren, Oslo Univ Hosp, Rikshospitalet and Ctr for Cardiological Innovation, Oslo, Norway Kristina H Haugaa, Oslo Univ Hosp, Rikshospitalet and Ctr for Cardiological Innovation, Oslo, Norway

**4205**

Frequency and Severity of Hypoglycemia in Children With Beta Blocker-Treated Long QT Syndrome

Joseph T Poterucha, Mayo Clinic Coll of Med, Rochester, MN Michael J Ackerman, Mayo Clinic Coll of Med, Rochester, MN

**4206**

A Green Tea Catechin, (-)-epicatechin-3-gallate, Suppresses Early Afterdepolarization in Long-term Cultured Cardiomyocytes

Adonis Z Wu, Inst of Biomedical Engineering, Nati Chiao-Tung Univ, Hsinchu, Taiwan Shien-Fong Lin, Inst of Biomedical Engineering, Nati Chiao-Tung Univ, Hsinchu, Taiwan

**4207**

Selective Inhibition of Late Sodium Current Suppresses Arrhythmogenic Markers in Models of Long QT Syndrome

Donglin Guo, Gilead Sciences, Fremont, CA Luiz Belardinelli, Gilead Sciences, Fremont, CA

**4208**

Combination Therapy of Cilostazol and Bepridil Suppresses Recurrent Ventricular Fibrillation Related to J-Wave Syndromes

Tetsuji Shinohara, Oita Univ, Yufu, Japan Naohiko Takahashi, Oita Univ, Yufu, Japan

**4209**

Serial Changes of Inflammatory Markers in Patients Treated With Rivaroxaban or Dabigatran: An Interim Report of the RIVAL-AF Study

Shinnosuke Kikuchi, Natl Hosp Organization Sagamihara Nati Hosp, Sagamihara, Kanagawa, Japan Satoshi Umemura, Yokohama City Univ Hosp, Yokohama, Kanagawa, Japan

**4210**

Circulating Cardiac and Inflammatory Biomarkers to Predict Post-Operative Atrial Fibrillation in the OPERA Trial

Roberto Latini, IRCCS - Istituto di Ricerche Farmacologiche Mario Negri, Milano, Italy on behalf of the Investigators of the OPERA Study

**4211**

Effects of Angiotensin-Converting Enzyme Inhibitors, Angiotensin II Receptor Blockers and Beta-Blockers on the Prevention of Atrial Fibrillation in Patients With Heart Failure With Preserved Ejection Fraction: A Prospective Study of Four-Years Follow-Up

Masanori Kawasaki, Gifu Univ Graduate Sch of Med, Gifu, Japan Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan

**4203**

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Effects of Angiotensin-Converting Enzyme Inhibitors, Angiotensin II Receptor Blockers and Beta-Blockers on the Prevention of Atrial Fibrillation in Patients With Heart Failure With Preserved Ejection Fraction: A Prospective Study of Four-Years Follow-Up

Masanori Kawasaki, Gifu Univ Graduate Sch of Med, Gifu, Japan Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan
Abstract Poster Session

**APS.405.01**

**Treatment of Arrhythmias: Pharmacological—Stroke and Bleeding in Atrial Fibrillation**

South Hall A2 - Core 4  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:** Bruce A Koplan, Boston, MA

**4193**  
**Racial Differences in Outcomes With Dabigatran in Elderly Atrial Fibrillation Patients**  
*Rajesh Kabra*, Univ of Tennessee Health Science Ctr, Memphis, TN  
Mary Vaughan-Sarrazin, Univ of Iowa Coll of Med, Iowa City, IA

**4194**  
**Predictors of Hospitalization in Patients With Atrial Fibrillation: An Analysis From ROCKET AF**  
Jonathan P Piccini, Duke Clinical Res Inst, Duke Univ Medical Ctr, Durham, NC

**4195**  
**Anemia Predicts Bleeding and Mortality, but Not Stroke, in Patients With Atrial Fibrillation: Insights From the ARISTOTLE Trial**  
*B Daan Westenbrink*, Univ Medical Ctr Groningen, Univ of Groningen, Groningen, Netherlands  
Wiek van Gilst, Univ Medical Ctr Groningen, Univ of Groningen, Groningen, Netherlands

**4196**  
**Systemic, Non-cerebral, Arterial Embolism in 21,105 Patients With Atrial Fibrillation Randomized to Edoxaban or Warfarin: Results from the ENGAGE AF-TIMI 48 Trial**  
*Bram J Geller*, Brigham and Women's Hosp, Boston, MA  
Elliott M Antman, Brigham and Women's Hosp, Boston, MA

**4197**  
**Initial Prothrombin Time Response After Warfarin Loading as a Major Determinant Influencing Maintenance Dose**  
*Young Dae Kim*, Dong A Univ Hosp, Busan, Republic of Korea  
Eu Gene Jeong, Dong A Univ Hosp, Busan, Republic of Korea

**Abstract Poster Session**

**APS.512.02**

**Ventricular Function/Mechanics II**

South Hall A2 - Core 5  
Posters Displayed: 9:00 AM - 5:00 PM  
Presenter Available: 3:00 - 4:30 PM

**BOARD #**

**Poster Professor:** Jolanda Van Der Velden, Amsterdam, Netherlands

**5486**  
**Functional Role of Fast Myosin Binding Protein-c Expressed in the Failing Myocardium**  
*Brian Lin*, Loyola Univ Chicago, Maywood, IL  
Sakthivel Sadayappan, Loyola Univ Chicago, Maywood, IL
<table>
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<th>#</th>
<th>Title</th>
<th>Authors</th>
<th>Institution(s)</th>
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<tr>
<td>5487</td>
<td>Dysregulation of miR-26a Induced by Electrical Stimulation Promotes Cardiac Differentiation of Human iPS Cells</td>
<td>Linlin Guo, Yi-Gang Wang</td>
<td>University of Cincinnati, Cincinnati, OH</td>
</tr>
<tr>
<td>5488</td>
<td>cMyBP-C’S Interaction With Actin is Critical to Maintain Diastolic Function in vivo</td>
<td>Md Shenuarin Bhuiyan, Jeffrey Robbins</td>
<td>Cincinnati Children’s Hospital Medical Ctr, Cincinnati, OH</td>
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<td>5489</td>
<td>Pregnancy-Induced Cardiac Hypertrophy is Accompanied by Unique Contractile Properties Not Seen in Other Forms of Physiological Hypertrophy</td>
<td>Beth A Bailey, Ursinus Coll</td>
<td>Collegeville, PA</td>
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<tr>
<td>5490</td>
<td>Diastolic Dysfunction is Not Associated With Increased Diastolic Calcium During Experimental Uremic Cardiomyopathy</td>
<td>Pamela D Winterberg</td>
<td>Emory Univ Sch of Med, Atlanta, GA</td>
</tr>
<tr>
<td>5491</td>
<td>Dismantling the Extracellular Matrix by Metalloproteinase Deteriorates Cardiac Diastolic Function Without Affecting the Maximal Elastance: Implications for Cardiac Inflammatory Diseases</td>
<td>Amir Landesberg, Technion - IIT, Israel</td>
<td>Haifa, Israel</td>
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<tr>
<td>5492</td>
<td>Myofilament Proteins of the Naked Mole-rat Heart Reflect Low Basal Species Cardiac Function</td>
<td>Kelly M Grimes, Rochelle Bufflestein</td>
<td>Univ of Texas Health Science Ctr, San Antonio, TX</td>
</tr>
<tr>
<td>5493</td>
<td>Myofilament Length Dependent Activation: Role of Titin</td>
<td>Younass At Mou, Pieter P deTombe</td>
<td>Qatar Cardiovascular Res Ctr, Doha, Qatar</td>
</tr>
<tr>
<td>5494</td>
<td>PTK1alpha Modulates Adrenergic Signaling in Cardiac Physiology and Pathophysiology</td>
<td>Xiaoying Zhang, Xiongwen Chen</td>
<td>Temple Univ, Philadelphia, PA</td>
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<td>5495</td>
<td>Myocardial-specific Overexpression of GTP Cyclohydrolase 1 Prevents Diabetic Cardiomyopathy Independent of Nitric Oxide</td>
<td>Ricardo Carneri Hijazo</td>
<td>Univ of Oxford, Oxford, United Kingdom</td>
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**Abstract Poster Session**

VT and VF: Arrhythmia—Clinical Electrophysiology, Diagnosis and Risk Stratification

South Hall A2 - Core 4

**Presented by:**

- Association of Air Pollution With Increased Incidence of Ventricular Tachyarrhythmias Recorded by Implantable Cardioverter Defibrillators: In-Soo Kim, Boyoung Joung, Republic of Korea
- Incidence and Timing of High-Risk Arrhythmias With Long-Term Continuous Ambulatory Electrocardiographic Monitoring: Matthew D Solomon, Kalyanam Shivkumar, California, Oakland, CA
- Abnormal Local Electrograms in Hibernating Myocardium: a Three-dimensional Electro-anatomic Assessment of Arrhythmogenic Substrate in Patients With Ventricular Tachycardia: Timm Dickfeld, Univesity of Maryland, Baltimore, MD
- Abnormal Local Electrograms in Hibernating Myocardium: a Three-dimensional Electro-anatomic Assessment of Arrhythmogenic Substrate in Patients With Ventricular Tachycardia: Timm Dickfeld, Univesity of Maryland, Baltimore, MD
- The Ser96Ala Variant of the Histidine-Rich Calcium-Binding Protein is Associated With Appropriate ICD Shocks in Cardiomyopathy Patients: Anthony J Klappa, Barry London, Iowa City, IA
- The Risk of Ventricular Tachyarrhythmias or Death in Black and White Cardiac Patients - a MADIT-CRT Sub-Study: Avi Sabbag, Sheba Medical Center, Ramat Gan, Israel

**Presenter Available:** 3:00 - 4:30 PM
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<tr>
<th>Session</th>
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<tr>
<td>4144 A Novel Volumetric Index of Left Ventricular Sphericity Independently Predicts Appropriate ICD Therapy</td>
<td>Jason Matos, Beth Israel Deaconess Medical Ctr, Boston, MA; Alfred E Buxton, Beth Israel Deaconess Medical Ctr, Boston, MA</td>
<td></td>
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<tr>
<td>4145 The Accessory Papillary Muscles and Papillary Muscle Hypertrophy are Associated with Sudden Cardiac Arrest of Unknown Cause</td>
<td>Jae-Sun Uhm, Severance Hosp, Yonsei Univ Health System, Seoul, Republic of Korea; Moon-Hyoun Lee, Severance Hosp, Yonsei Univ Health System, Seoul, Republic of Korea</td>
<td></td>
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<tr>
<td>4146 Risk of Ventricular Tachyarrhythmias Following Ejection Fraction Improvement in Patients With Implantable Cardiac Defibrillators Implanted for Primary Prevention of Sudden Cardiac Death</td>
<td>Jayasree Pillarisetti, Kansas Univ, Mission, KS; Dhanunjaya Lakkireddy, Kansas Univ, Mission, KS</td>
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**e-Abstract Session**

**Risk Factors, Biomarkers, Risk Prediction II**

**South Hall A2 - Core 2 Theater**

11:00 AM to 11:50 AM

**Moderator:**

Matthew A Allison, La Jolla, CA

11:00 Addition of Smoking Status Improves Risk Prediction of Ischemic Stroke in Atrial Fibrillation: The Atherosclerosis Risk in Communities (ARIC) Study

Youngmoon Kwon, Univ of Minnesota, Minneapolis, MN; Lin Y Chen, Univ of Minnesota, Minneapolis, MN

11:05 Higher Levels of Plasminogen-Activator Inhibitor 1 Are Associated with Progression of Coronary Artery Calcification in Middle-Aged Women: The Study of Women's Health Across the Nation (SWAN) Heart Study

Norman C Wang, Univ of Pittsburgh, Pittsburgh, PA; Samar R El Khoudary, Univ of Pittsburgh, Pittsburgh, PA

11:10 Mitochondrial DNA Copy Number as a Predictor of Cardiovascular Disease

Foram N Ashar, Johns Hopkins, Baltimore, MD; Dan E Arking, Johns Hopkins, Baltimore, MD

11:15 Gender Differences in the Association of Adverse Childhood Events with Cardiovascular Disease

Catherine Kreatsoulas, Harvard Univ -Sch of Public Health, Boston, MA; SV Subramanian, Harvard Univ -Sch of Public Health, Boston, MA

**11:20** Cardiac Troponin T, Natriuretic Peptide, and Long-term Risk of Acute Kidney Injury in the Community: The Atherosclerosis Risk in Communities Study

Yuhree Kim, Johns Hopkins Univ, Baltimore, MD; Josef Coresh, Johns Hopkins Univ, Baltimore, MD

**11:25** Glyc A, a Novel Marker of Inflammation, Predicts Cardiovascular Events in HIV-Positive Patients: Results of SMART Study

Daniel Duprez, Univ of Minnesota, Minneapolis, MN; Jens D Lundgren, Univ of Copenhagen, Copenhagen, Denmark

**11:30** Plasma Levels of Fatty Acid-binding Protein 4 and Cardiovascular Mortality Among Diabetes Patients: a Prospective Investigation in the Health Professionals Follow-up Study

Hongyu Wu, Harvard Sch of Public Health, Boston, MA; Qi Sun, Harvard Sch of Public Health, Boston, MA

**11:35** Risk of Subsequent Cardiovascular Events Following a Respiratory Viral Infection

Stacey Knight, Intermountain Medical Ctr, Salt Lake City, UT; John F Carlquist, Intermountain Medical Ctr, Univ of Utah, Salt Lake City, UT

**11:40** Coronary Artery Calcium is Associated With Increased Long-Term Mortality in Smokers Eligible for Lung Cancer Screening

Joshua Schultman-Marcus, NewYork-Presbyterian Hosp, New York, NY; James K Min, NewYork-Presbyterian Hosp and Weill Cornell Medical Coll, New York, NY

**11:45** Risk Prediction of 10-Year Cardiovascular Mortality Using Automated Electrocardiographic Analysis in the National Health and Nutrition Examination Survey

Amit J Shah, Emory Univ, Atlanta, GA; Elsayed Z Soliman, Wake Forest Univ, Winston-Salem, NC

**e-Abstract Session**

**Acute and Chronic Coronary Artery Disease—Quality Care and Outcomes**

**South Hall A2 - Core 7 Theater**

11:00 AM to 11:50 AM

**Moderator:**

Mikhail Kosiborod, Kansas City, MO

**11:00** Early Cardiology Assessment and Intervention Reduces Mortality Following Myocardial Injury After Non-Cardiac Surgery (MINS)

Alina Xu Min Hua, Royal Brompton Hosp, London, United Kingdom; Eric Lim, Royal Brompton Hosp, London, United Kingdom
11:05  The Heart Team: Myth Vs. Reality
Charles M Geller, Mount Sinai Beth Israel, New York, NY
Robert F Tranbaugh, Mount Sinai Beth Israel, New York, NY

11:10  Rural-Urban Disparities in Emergency Medical Services Utilization for ST-Elevation Myocardial Infarction (STEMI)
Ross F Garberich, Minneapolis Heart Inst, Minneapolis, MN
Timothy D Henry, Cedars-Sinai Heart Inst, Los Angeles, CA

11:15  Going Beyond Patient Satisfaction: Unmet Psychosocial Needs Following Coronary Revascularization
Matthew Manierre, Univ of Delaware, Newark, DE
Steven S Martin, Univ of Delaware, Newark, DE

11:20  Improved Outcomes with IT-enabled Care Management Following Coronary Revascularization
Daniel J Elliott, Christiana Care Health System, Newark, DE
Roger Kerzner, Christiana Care Health System, Newark, DE

11:25  Establishing a Prehospital Protocol for Local Emergency Services Improves Symptom Onset-to-Balloon Time in Patients With ST-Segment Elevation Myocardial Infarction
Dawn A Brester, Aurora BayCare Medical Ctr, Green Bay, WI
Katie Sahajpal, American Heart Association, Milwaukee, WI

11:30  Cardiac Catheterization Lab Activations for ST-Segment Elevation Myocardial Infarction (STEMI) are Frequently Cancelled at a Major Los Angeles County STEMI-Receiving Center
David Lange, Cedars-Sinai Medical Ctr, Los Angeles, CA
Timothy Henry, Cedars-Sinai Medical Ctr, Los Angeles, CA

11:35  Prehospital Electrocardiogram Transmission is Associated With Decreased First Medical Contact to Device Time in a Large Urban Emergency Medical Services System
Christopher Richards, Northwestern Memorial Hosp, Chicago, IL
Gary Schaer, Rush Univ Medical Ctr, Chicago, IL

11:40  Low Contrast Technique Significantly Reduces Rate of Contrast-induced Nephropathy (CIN)
Alexandre Benjo, Ochsner Medical Ctr, New Orleans, LA
Stephen Ramee, Ochsner Medical Ctr, New Orleans, LA

11:45  Responses to a Pre-PCI Screening Questionnaire Influence Stent Type Used During PCI
Matthew J Chung, Durham Veterans Affairs Medical Ctr, Durham, NC
Ryan D Schulteis, Durham Veterans Affairs Medical Ctr, Durham, NC

Case Theater
CT.05  Case Theater: EP—Complex VT Ablation
South Hall A1 - Booth 1676
10:00 - 10:45 AM
Case Presentation:
Elad Anter, Boston, MA

Panelists:
Sanjay Dixit, Philadelphia, PA
Juan F Viles-Gonzalez, Miami, FL
Mark E Josephson, Boston, MA
Amit Thosani, Pittsburgh, PA
Laszlo Saghy, Szeged, Hungary

Abstract Oral Session
AOS.404.02  Arrhythmia: Clinical Electrophysiology, Diagnosis and Risk Stratification
S403
10:45 AM - 12:00 NOON
Moderators:
Bulent Gorenek, Eskisehir, Turkey
Jonathan L Halperin, New York, NY

11:00  Atrial Fibrillation Begets Atrial Fibrillation in Cryptogenic Stroke Patients: Results from the Crystal-AF Trial
Rod S Passman, Northwestern Univ Feinberg Sch of Med, Chicago, IL
Paul D Ziegler, Medtronic, Mounds View, MN

11:15  Prehospital Electrocardiogram Transmission is Associated With Decreased First Medical Contact to Device Time in a Large Urban Emergency Medical Services System
Christopher Richards, Northwestern Memorial Hosp, Chicago, IL
Gary Schaer, Rush Univ Medical Ctr, Chicago, IL

11:30  Low Contrast Technique Significantly Reduces Rate of Contrast-induced Nephropathy (CIN)
Alexandre Benjo, Ochsner Medical Ctr, New Orleans, LA
Stephen Ramee, Ochsner Medical Ctr, New Orleans, LA

11:45  Responses to a Pre-PCI Screening Questionnaire Influence Stent Type Used During PCI
Matthew J Chung, Durham Veterans Affairs Medical Ctr, Durham, NC
Ryan D Schulteis, Durham Veterans Affairs Medical Ctr, Durham, NC

Q&A Discussion
11:25

Q&A Discussion
11:30

Purchasing Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:40</td>
<td>Q&amp;A Discussion</td>
</tr>
</tbody>
</table>
| 11:45  | **Validation of Score System Excluding Female Gender From CHA2DS2-VASc in Japanese Patients With Non-Valvular Atrial Fibrillation: A Subanalysis of the J-RHYTHM Registry**  
*Hirofumi Tomita, Hirosaki Univ Graduate Sch of Med, Hirosaki, Japan*  
J-RHYTHM Registry Investigators |
| 11:55  | Q&A Discussion                                                          |

**Abstract Oral Session**

**Cardiovascular Outcomes and Health Disparities: Lessons from Clinical and Hospital-Based Observational Studies**

**AOS.216.01**

<table>
<thead>
<tr>
<th>Time</th>
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</table>
| 10:45  | **No Clinical Benefit of Heparin Bridging at the Initiation of Anticoagulation Therapy in Nonvalvular Atrial Fibrillation Patients: A Multicenter Propensity-matched Analysis**  
*Tae-Hoon Kim, Severance Cardiovascular Hosp, Seoul, Republic of Korea*  
Boyoung Joung, Severance Cardiovascular Hosp, Seoul, Republic of Korea |
| 10:55  | Q&A Discussion                                                          |
| 11:00  | **Persistent Gender Bias in Use of Reperfusion Therapy in STEMI Patients: Data from the FAST-MI Program 1995-2010**  
*Nicolas Danchin, HEGP, Paris, France*  
for the FAST-MI Investigators |
| 11:10  | Q&A Discussion                                                          |
| 11:15  | **Stability of Hospital Rankings for Acute Myocardial Infarction**  
*Saket Girotra, Univ of Iowa, Iowa City, IA*  
Peter Cram, Mt Sinai/UHN Hosp, Toronto, ON, Canada |
| 11:25  | Q&A Discussion                                                          |
| 11:30  | **Higher Burden of Sudden Death in African Americans vs. Whites: a Postmortem Evaluation**  
*Kyndaron Reinier, Cedars-Sinai Medical Ctr, Los Angeles, CA*  
Sumeet S Chugh, Cedars-Sinai Medical Ctr, Los Angeles, CA |
| 11:40  | Q&A Discussion                                                          |

**Abstract Oral Session**

**Cardiovascular Regeneration with Stem/Progenitor Cells**

**AOS.705.01**

<table>
<thead>
<tr>
<th>Time</th>
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</table>
| 10:45  | **Intracoronary Infusion of GCSF-Mobilized Human CD34+ Cells Preserves Left Ventricular Function and Prevents Infarct Expansion in a Swine Model of Acute Myocardial Infarction**  
*Yasuyuki Fujita, Inst of Biomedical Res and Innovation, Kobe, Japan*  
Atsuhiko Kawamoto, Inst of Biomedical Res and Innovation, Kobe, Japan |
| 10:55  | Q&A Discussion                                                          |
| 11:00  | **Exosomes From Induced Pluripotent Stem Cells Deliver Cardioprotective Mirnas and Prevent Cardiomyocyte Apoptosis in the Ischemic Myocardium**  
*Yaoliang Tang, Georgia Regents Univ, Augusta, GA* |
| 11:10  | Q&A Discussion                                                          |
| 11:15  | **In Vivo Molecular Imaging of Human Pluripotent Stem Cell-derived Cardiomyocytes in a Murine Myocardial Injury Model via a Safe Harbor Integration of a Reporter Gene**  
*Eric Rulifson, Stanford Univ, Stanford, CA*  
Phillip Yang, Stanford Univ, Stanford, CA |
| 11:25  | Q&A Discussion                                                          |
| 11:30  | **Lymphatic Vasculature Mediates Cardiac Progenitor Cell Trafficking After Myocardial Infarction**  
*Maria Cimini, Brigham and Women’s Hosp, Boston, MA*  
Polina Goichberg, Brigham and Women’s Hosp, Boston, MA |
| 11:40  | Q&A Discussion                                                          |
Circulating Exosomal miR-1a is Markedly Induced by Myocardial Infarction and Downregulates CXCR4 Expression in the Bone Marrow Mononuclear Cells
Min Cheng, Union Hosp, Tongji Medical Coll, Huazhong Univ of Science and Technology, Wuhan, China
Gangjian Qin, Feinberg Cardiovascular Res Inst, Chicago, IL

11:55 Q&A Discussion

Abstract Oral Session

AOS.707.01
Inflammation and Adhesion Molecules

S104
10:45 AM - 12:00 NOON

Moderators:
Masuko Ushio-Fukai, Chicago, IL
Karlheinz Peter, Melbourne, Australia

10:45 Serum Proprotein Convertase Subtilisin/Kexin Type 9 Level is Associated With Coronary Plaque Inflammation and Cardiovascular Outcome Independent From Serum LDL Level
Jin M Cheng, Erasmus MC, Rotterdam, Netherlands
Martijn Akkerhuis, Erasmus MC, Rotterdam, Netherlands

10:55 Q&A Discussion

11:00 Nanoparticle-mediated Delivery of Pioglitazone Ameliorates Inflammation and Inhibits Atherosclerotic Plaque Rupture in Apolipoprotein-E Deficient Mice
Soichi Nakashiro, Kyushu university, Graduate Sch of Medical Sciences, Fukuoka, Japan
Kensuke Egashira, Kyushu university, Graduate Sch of Medical Sciences, Fukuoka, Japan

11:10 Q&A Discussion

11:15 Mitochondrial Reactive Oxygen Species Mediate Lysophosphatidylcholine-Induced Endothelial Cell Activation
Xinyuan Li, Temple Univ Sch of Med, Philadelphia, PA
Xiao-Feng Yang, Temple Univ Sch of Med, Philadelphia, PA

11:25 Q&A Discussion

11:30 Endothelial Microparticles Reduce Icam-1 Expression in a Microrna-222-Dependent Mechanism
Felix Jansen, Univ of Bonn, Bonn, Germany
Nikos Werner, Univ of Bonn, Bonn, Germany

11:40 Q&A Discussion

11:45 Activation of Mac-1 Integrin Prevents G-CSF Mediated Monocyte Mobilization and Atherosclerosis Severity in Hypercholesterolemic Mice
Roberto Vazquez, Univ of Miami, Miami, FL

11:55 Q&A Discussion

Abstract Oral Session

AOS.801.01
Case Study Challenges Across the Spectrum of Cardiovascular Disease

S404bcd
10:45 AM - 12:00 NOON

Moderators:
Richard C Becker, Cincinnati, OH
Daniel I. Simon, Cleveland, OH

10:45 QTC Intervals Can Be Monitored With the AliveCor Heart Monitor in Patients on Dofetilide for Atrial Fibrillation
Eugene H Chung, UNC at Chapel Hill, Chapel Hill, NC

10:55 Q&A Discussion

11:00 Acquired Von Willebrand Syndrome in Patients With Hypertrophic Cardiomyopathy: A Case Series
Amanda J McCambridge, Mayo Clinic, Rochester, MN
Steve R Ommen, Mayo Clinic, Rochester, MN

11:10 Q&A Discussion

11:15 A Mitochondrial DNA (OPA1) Deletion Mutation Presenting With Cardiomyopathy and Disproportionate Dyspnea - First Human Case
Aimee Lee, Stanford, Stanford, CA
Paul Zei, Stanford, Stanford, CA

11:25 Q&A Discussion

11:30 A 19-Year-Old Female with Recurrent Chylopericardium
Cheng-Han Chen, Univ of California, Los Angeles, Los Angeles, CA
Arnold S Baas, Univ of California, Los Angeles, Los Angeles, CA

11:40 Q&A Discussion
**Tuesday, November 18  •  Chicago, Illinois**

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### Abstract Oral Session

#### AOS.607.01N

**Laennec Clinician/Educator Lecture: Thoracic Aortic Disease**

**N227b**

10:45 AM - 12:00 NOON

**Moderators:**
- Leonard Girardi, New York, NY
- John Ikonomidis, Charleston, SC

10:45

**Laennec Clinician/Educator Lecture**

Harry C Dietz, Baltimore, MD

11:15

TEVAR versus Open Descending Thoracic Aortic Repair for the Treatment of Thoracic Aortic Aneurysms: An Analysis of the Medicare Database

Justin M Schaffer, Stanford Univ, Stanford, CA

Michael D Dake, Stanford Univ, Stanford, CA

11:25

Q&A Discussion

11:30

Could Early Direct Detection of Left Ventricular Assist Device Thrombus Reduce Thrombotic Complications

Gregory M Lanza, Washington Univ Med Sch, St Louis, MO

11:40

Q&A Discussion

11:45

Does Maintenance Anticoagulation Variability Influence Adverse Outcomes in Patients with Continuous Flow Left Ventricular Assist Devices?

Nicholas A Haglund, Vanderbilt Univ Medical Ctr, Nashville, TN

Simon Malais, Vanderbilt Univ Medical Ctr, Nashville, TN

11:55

Q&A Discussion

---

### Abstract Oral Session

#### AOS.304.01

**Novel Genes Related to CAD and Risk Factors**

**S101**

10:45 - 11:45 AM

**Moderators:**
- Heribert Schunkert, München, Germany
- Jane Ferguson, Philadelphia, PA

10:45

Association of Protein-Coding Genetic Variants with Coronary Arterial Calcification in 21,000 Individuals of European and African Ancestries

Pradeep Natarajan, Massachusetts General Hosp, Boston, MA

Consortium Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE)

10:55

Q&A Discussion

11:00

Identification of Novel CAD Genetic Loci by 1000 Genomes-Based Imputation and a Non-Additive Discovery Screen

Majid Nikpay, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

11:10

Q&A Discussion

11:15

Contribution of Rare Mutations in Mendelian Hypercholesterolemia Genes to Risk for Premature Coronary Artery Disease in the Population

Hong-Hee Won, Massachusetts General Hosp, Boston, MA

Consortium on behalf of the Myocardial Infarction Genetics Sequencing

11:25

Q&A Discussion

11:30

Susceptibility Loci for Clinical CAD Predispose to Subclinical Coronary Atherosclerosis Throughout the Life Course

Themistocles L Assimes, Stanford Univ Sch of Med, Stanford, CA

11:40

Q&A Discussion

---

### Abstract Oral Session

**AOS.507.01S**

**Left Ventricular Assist Device Thrombosis**

**S406b**

10:45 AM - 12:00 NOON

**Moderators:**
- Randall Starling, Cleveland, OH
- Jennifer Lynn Cook, Charleston, SC

10:45

State of the Art: VAD Thrombosis

Chetan B Patel, Durham, NC

11:15

Left Ventricular Assist Device Inflow Cannula-Mitral Alignment and Pump Migration Impact LVAD Dysfunction Over Long Term Support

Toshinobu Kazui, Washington Univ, St Louis, MO

Scott C Silvestry, Washington Univ, St Louis, MO

11:25

Q&A Discussion
Abstract Oral Session

AOS.209.01

Obesity in CVD Risk and Prevention

S505
10:45 AM - 12:00 NOON

Moderators:
Paul Poirier, Quebec City, QC, Canada
Goutham Rao, Chicago, IL

10:45 The Relationship Between Obesity and Heart Failure is Stronger than Those for Other CVD Subtypes and Not Explained by Traditional Risk Factors
Chiadi Ndumele, Johns Hopkins Univ, Baltimore, MD
Josef Coresh, Johns Hopkins Univ, Baltimore, MD

10:55 Q&A Discussion

11:00 Heart Fat, but Not Peri-Aortic Fat Depots Were Significantly Associated With Presence and Severity of Coronary Calcification in Women at Midlife: The Study of Women’s Health Across the Nation (SWAN) Ectopic Cardiovascular Fat Ancillary Study
Samar R El Khoudary, Univ of Pittsburgh, Pittsburgh, PA
Karen A Matthews, Univ of Pittsburgh, Pittsburgh, PA

11:10 Q&A Discussion

11:15 The Effects of Pre-LVAD Obesity on Post-LVAD Re-Hospitalizations
Burhan Mohamedali, Advocate Christ Medical Ctr, Oak Lawn, IL
Geetha Bhat, Advocate Christ Medical Ctr, Oak Lawn, IL

11:25 Q&A Discussion

11:30 Maternal Pre-Pregnancy Overweight is Associated with Increased Cardiovascular Disease Mortality in the Framingham Heart Study
Michael Mendelson, Boston Children’s Hosp, Boston, MA
Dan Levy, NHLBI, Natl Inst of Health, Framingham, MA

11:40 Q&A Discussion

11:45 Epicardial Fat is Related to Left Ventricular Diastolic Dysfunction in Healthy Obese and Metabolic Syndrome Obese
Margareta Manka, Univ Hosp of Regensburg, Regensburg, Germany
Marcus Fischer, Univ Hosp of Regensburg, Regensburg, Germany

11:55 Q&A Discussion

Abstract Oral Session

AOS.109.01

Vascular MRI

N230b
10:45 AM - 12:00 NOON

Moderators:
Hajime Sakuma, Tsu, Mie, Japan

10:45 Subclinical Arterial Remodeling of Thoracic Aorta in Subjects Without Cardiovascular Events: A Magnetic Resonance Imaging Study
Yan Song, Univ of Washington, Seattle, WA
Chun Yuan, Univ of Washington, Seattle, WA

10:55 Q&A Discussion

11:00 Pulse Wave Velocity During Dobutamine Stress is an Independent Predictor of MACE in Asymptomatic High Risk Middle Aged and Elderly Men
Trinity Vera, Wake Forest Baptist Medical Canter, Winston Salem, NC
W Gregory Hundley, Wake Forest Baptist Medical Canter, Winston Salem, NC

11:10 Q&A Discussion

11:15 Adverse Cardiac and Pulmonary Vascular Change in Patients With Subclinical and Clinical Copd
Jie Cao, St Francis Hosp, Roslyn, NY
Nora Ngai, St Francis Hosp, Roslyn, NY

11:25 Q&A Discussion

11:30 Detection of Pulmonary Embolism with a Single-chain Antibody functionalized for Magnetic Resonance Imaging
Timo Heidt, Univ Heart Ctr, Freiburg, Germany
Constantin von zur Muhlen, Univ Heart Ctr, Freiburg, Germany

11:40 Q&A Discussion

11:45 Multi-Sequence Non-Contrast MRI Characterisation of Experimental Venous Thrombi Predicts Susceptibility to Lysis and is Feasible in Man
Prakash Saha, King’s Coll London, London, United Kingdom
Alberto Smith, King’s Coll London, London, United Kingdom

11:55 Q&A Discussion
Ask the Experts

Parenting Children with Congenital Heart Disease from Infancy Through Adolescence—It Isn’t Easy!

S502 10:45 AM - 12:00 NOON

Moderator:
Trudy Pierick, Iowa City, IA

10:45 The Impact of Congenital Heart Disease on Parents/Families
Kathleen Mussatto, Milwaukee, WI

11:05 The Early Years: Parenting the Infant/Toddler with Congenital Heart Disease
Gwen Rempel, Brownfield, AB, Canada

11:25 Growing Up: Challenges of Parenting the Adolescent with Congenital Heart Disease
Elizabeth Tong, San Francisco, CA

11:45 Q&A Discussion

Cardiovascular Seminar

Improving Quality of Care for PCI

N226 10:45 AM - 12:00 NOON

Moderators:
Robert W Yeh, Boston, MA
Tracy Wang, Durham, NC

10:45 Choosing Optimal PCI Strategies Based on Risk
John Spertus, Kansas City, MO

10:57 Strategies to Reduce Readmissions After PCI
Jason H Wasfy, Boston, MA

11:09 How to Implement Same-Day Discharge Safely After PCI
Ehtisham Mahmud, La Jolla, CA

11:21 Beyond Complications: Assessing the Effectiveness of PCI in Routine Practice
J Dawn Abbott, Providence, RI

11:33 STEMI Care in the Next Decade: Where Do We Go from Here?
Dariusz Dudek, Krakow, Poland

11:45 Q&A Discussion

Panel Participants
Brahmajee Nallamothu, Ann Arbor, MI
David Cohen, Kansas City, MO
Dennis Ko, Toronto, ON, Canada

Cardiovascular Seminar

Harnessing Big Data for Fundamental Discovery of Novel Targets and Mechanistic Insight

S100c 10:45 AM - 12:00 NOON

Moderators:
Anthony Rosenzweig, Boston, MA
Joseph Loscalzo, Boston, MA

10:45 Systems Biology Approaches to Big Data Networks
Joseph Loscalzo, Boston, MA

11:00 Nonlinear Dynamics in Physiological Data
Ary Goldberger, Boston, MA

11:15 Integrating Big Data from Humans and Experimental Models
Stuart A Cook, Durham, NC

11:30 Efficient Functional Validation of Targets Implicated by Big Data
Calum A MacRae, Boston, MA

11:45 Using Big Data to Understand Cardiomyopathy
Christine Seidman, Boston, MA

Special

The Heart–Brain Axis in Congenital Heart Disease Across the Life Span

S100ab 10:45 AM - 12:00 NOON

Moderators:
Jane Newburger, Boston, MA
Bradley Marino, Chicago, IL

10:45 The Brain and Heart Surgery: Seeing Is Believing
J William Gaynor, Philadelphia, PA

11:00 Neurodevelopmental Disorders in Children: Surveillance and Outcomes
Jane W Newburger, Boston, MA

11:15 The Aging Brain: Adding Insult to Injury
Ariane J Marelli, Montreal, QC, Canada

11:30 Stroke Prevention in Congenital Heart Disease
E Steve Roach, Columbus, OH

11:45 Quality of Life: Nature Versus Nurture
Bradley Marino, Chicago, IL
### Late-Breaking Clinical Trials

**Treatment of Structural Heart Disease**

**North Hall B**

**10:45 AM - 12:13 PM**

**Moderators:**
- Patrick T O’Gara, Boston, MA
- Robert O Bonow, Chicago, IL

**10:45** *Randomized Trial of Atenolol Versus Losartan in Children and Young Adults With Marfan Syndrome*

Ronald V Lacro, Boston, MA

**10:55** *Discussant of Randomized Trial of Atenolol Versus Losartan in Children and Young Adults with Marfan Syndrome*

John A Elefteriades, New Haven, CT

**10:58** *Panel Discussion*

**11:07** *A Randomized Trial of Losartan In Hypertrophic Cardiomyopathy - The INHERIT Trial*

Anna Axelsson, Copenhagen, Denmark

**11:17** *Discussant of A Randomized Trial Of Losartan In Hypertrophic Cardiomyopathy - The INHERIT Trial*

Euan Ashley, Stanford, CA

**11:20** *Panel Discussion*


Mark J Dayer, Taunton, United Kingdom


Didier Raoult, Marseille, France

**11:42** *Panel Discussion*

**11:51** *The Surgical Treatment of Moderate Ischemic Mitral Regurgitation: A Randomized Clinical Trial From The Cardiothoracic Surgical Trials Network*

Robert Michler, Bronx, NY

**12:04** *Panel Discussion*

---

### Case Theater

**Paravalvular Leak After TAVR**

**South Hall A1 - Booth 1676**

**11:00 - 11:45 AM**

**Case Presenter:**
Jon R Resar, Towson, MD

**Panelists:**
- Ruby Satpathy, Omaha, NE
- Molly Szerlip, Plano, TX
- Atul Chawla, West Des Moines, IA
- David W McAllister, Urbandale, IA
### Special

#### Distinguished Scientist Lecture

**S100ab**

**12:30 - 1:30 PM**

**Moderator:** Marlene Rabinovitch, Stanford, CA

**12:30**

**A Dream from 1978: Making Good Health Decisions Based on Evidence**

Robert M Califf, Durham, NC

### Case Theater

#### Heart Failure Management

**CT.07**

**South Hall A1 - Booth 1676**

**1:00 - 1:45 PM**

**Case Presentation:** Robb D Kociol, Boston, MA

**Panelists:**

- Nir Uriel, New York, NY
- Jonathan Rich, Chicago, IL
- Liviu Klein, San Francisco, CA
- Chetan B Patel, Durham, NC

### Meet the Trialists

**MT.02**

**Science & Technology Hall**

**1:00 - 1:45 PM**

*This session is not accredited.*

**1:00**

**IMPROVE-IT Trial: A Comparison of Ezetimibe/Simvastatin versus Simvastatin Monotherapy on Cardiovascular Outcomes After Acute Coronary Syndromes**

Christopher P Cannon, Boston, MA

**The Surgical Treatment of Moderate Ischemic Mitral Regurgitation: A Randomized Clinical Trial From The Cardiothoracic Surgical Trials Network**

Peter K Smith, Durham, NC

### Abstract Oral Session

#### Adult Congenital Heart Disease

**AOS.309.01**

**S102bc**

**1:45 - 3:00 PM**

**Moderators:**

- Michelle Gurvitz, Boston, MA
- Erwin Oechslin, Toronto, ON, Canada

**1:45**

**Risk Factors for Atrial Arrhythmia and Thromboembolic Events in D-Transposition of the Great Arteries**

Jennifer G Ting, Penn State Hershey Heart & Vascular Inst, Hershey, PA

**1:55**

**Q&A Discussion**

**2:00**

**Coronary Artery Ectasia Are Frequently Observed in Patients With Bicuspid Aortic Valves With and Without Aneurysm of the Ascending Aorta**

Christine Meindl, Univsklinikum Regensburg, Regensburg, Germany

Marcus Fischer, Univsklinikum Regensburg, Regensburg, Germany

**2:10**

**Q&A Discussion**

**2:15**

**Risk of Congenital Heart Surgery in Adults**

Juergen Hoerer, German Heart Ctr Munich, Munich, Germany

Christian Schreiber, German Heart Ctr Munich, Munich, Germany

**2:25**

**Q&A Discussion**

**2:30**

**Application of Pediatric and Adult Lipid Treatment Guidelines to U.S. Adolescents Transitioning to Young Adulthood**

Holly C Gooding, Harvard Medical Sch, Boston, MA

Sarah D de Ferranti, Harvard Medical Sch, Boston, MA

**2:40**

**Q&A Discussion**

**2:45**

**Cardiac Events and Mortality During Admissions for Delivery in Women with Congenital Heart Disease**

Robert M Hayward, Univ of California, San Francisco, San Francisco, CA

Zian H Tseng, Univ of California, San Francisco, San Francisco, CA

**2:55**

**Q&A Discussion**
**e-Abstract Session**

**EAS.108.05**

**Magnetic Resonance Imaging: Heart (Ischemic/Infarction and Flow Reserve)**

South Hall A2 - Core 1 Theater  
2:00 - 2:50 PM

**Moderator:**  
Hajime Sakuma, Tsu, Mie, Japan

2:00  
**A Novel Technique for Respiratory Motion Correction in Rapid Left Ventricular Myocardial T1 Mapping and Quantitative Analysis of Myocardial Fibrosis**  
Keigo Kawaji, Univ of Chicago, Chicago, IL  
Amit R Patel, Univ of Chicago, Chicago, IL

2:05  
**Temporal and Spatial Characteristics of the Area at Risk Investigated using Computed Tomography and T1-weighted Magnetic Resonance Imaging**  
Jesper van de Pals, Natl Insts of Health, Bethesda, MD  
Andrew E Arai, Natl Insts of Health, Bethesda, MD

2:10  
**Cardiac Magnetic Resonance Assessment of Absolute Myocardial Blood Flow and Myocardial Perfusion Reserve Compared With FFR in Patients With Coronary Artery Disease**  
Yoshihisa Kanaji, Tsuchiura Kyoudou Hosp, Tsuchiura, Japan  
Tsunekazu Kakuta, Tsuchiura Kyoudou Hosp, Tsuchiura, Japan

2:15  
**Higher CHADS2 Score is Associated With Impairment of Coronary Flow Reserve Evaluated by Phase-Contrast Cine Cardiovascular Magnetic Resonance Imaging**  
Hidekuni Kirigaya, Kanagawa Cardiovascular and Respiratory Ctr, Kanazawa-ku, Yokohama, Japan  
Satoshi Umemura, Yokohama City Univ, Kanazawa-ku, Yokohama, Kanagawa, Japan

2:20  
**Assessment of Diffuse Myocardial Fibrosis With Native T1 Values on Cardiovascular Magnetic Resonance and Its Relationship With Myocardial Function in Asymptomatic Aortic Stenosis Patients**  
Seung-Pyo Lee, Seoul Natl Univ Hosp, Seoul, Republic of Korea  
Dae-Won Sohn, Seoul Natl Univ Hosp, Seoul, Republic of Korea

2:25  
**Native T1-based Cardiovascular Magnetic Resonance Imaging for Characterizing Chronic Myocardial Infarctions in Patients**  
Avinash Kali, Cedars-Sinai Medical Ctr, Los Angeles, CA  
Rohan Dharmakumar, Cedars-Sinai Medical Ctr, Los Angeles, CA

**Abstract Oral Session**

**AOS.212.03N**

**Ancel Keys Memorial Lecture: CVD Risk in Women**

S501  
2:00 - 3:15 PM

**Moderators:**  
David S Siscovick, New York, NY  
Donald M Lloyd-Jones, Chicago, IL

2:00  
**Ancel Keys Memorial Lecture: Controversies in Primary Prevention—Aspirin, Estrogen and Vitamin D Supplementation**  
JoAnn E Manson, Boston, MA

2:30  
**Testing the Menopausal Hormone Therapy Timing Hypothesis: the Early versus Late Intervention Trial with Estradiol**  
Howard N Hodis, Univ of Southern California, Los Angeles, CA  
Victor W Henderson, Stanford Univ, Stanford, CA

2:40  
**Q&A Discussion**

**Tuesday, November 18 • Chicago, Illinois**
### Abstract Oral Session

**AOS.401.01**

**Cardiac Sodium Channels and Disease**

**S403**  
2:00 - 3:15 PM  

**Moderators:**  
Isabelle Deschenes, Cleveland, OH  
Geoffrey S Pitt, Durham, NC

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| 2:00 | Over Expression of Snc5a in Mouse Heart Mimics Human Syndrome of Enhanced Atrioventricular Nodal Conduction | Gongxin Liu, Gilead Sciences Inc., Fremont, CA  
Bastiaan J.D Boukens, Washington Univ, St Louis, MO |
| 2:10 | Q&A Discussion |
| 2:15 | Brugada Phenotype in Cardiac-Specific GPD1-L Knockout Mice | Haider Mehdii, Univeristy of Iowa, Iowa City, IA  
Barry London, Univeristy of Iowa, Iowa City, IA |
| 2:20 | Q&A Discussion |
| 2:25 | Identification of Two Native Nav1.5 Phosphorylation Sites as Potential Determinants of the Increased Late Na+ Current in Heart Failure | Fabien Coyan, L’Inst du Thorax, Nantes, France  
Céline Marionneau, L’Inst du Thorax, Nantes, France |
| 2:30 | Q&A Discussion |
| 2:40 | Electrophysiological Effects of the Late Sodium Current Inhibitor GS967 in Snc5a-1798insD Mouse and Human SCN5A-1795insD iPSC-derived Cardiomyocytes | Vincent Portero, Academic Medical Ctr, Amsterdam, Netherlands  
Carol Ann Remme, Academic Medical Ctr, Amsterdam, Netherlands |
| 2:45 | Q&A Discussion |

### Abstract Oral Session

**AOS.107.01N**

**Charles T. Dotter Memorial Lecture: Computed Tomography—Heart**

N231  
2:00 - 3:15 PM  

**Moderators:**  
Jill Jacobs, New York, NY  
Demetrius Dicks, New Haven, CT

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<th>Time</th>
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<tr>
<td>2:00</td>
<td>Charles T. Dotter Memorial Lecture: Addressing Ischemic Heart Disease as the Number One Cause of Disease Burden Worldwide—A Call for Action from the Cardiovascular Imaging Community</td>
<td>João A Lima, Baltimore, MD</td>
</tr>
</tbody>
</table>
| 2:30 | Diagnosis of Functionally Significant Coronary Stenosis by Exercise Computed Tomography Myocardial Perfusion Imaging | Michel Habis, Ctr Medico Chirurgical Parly 2, Le Chesnay, France  
Jean Francois Paul, Ctr Chirurgical Marie Lannelongue, Le Plessis Robinson, France |
| 2:40 | Q&A Discussion |
| 2:45 | Stress Myocardial Perfusion Computed Tomography versus Fractional Flow Reserve for Guiding Percutaneous Coronary Intervention in Intermediate Coronary Artery Disease | Shiro Nakamori, Mie Univ Hosp, Tsu, Japan  
Masaaki Ito, Mie Univ Hosp, Tsu, Japan |
| 3:00 | Q&A Discussion |
| 3:10 | Multiple Non-coronary Ct-parameters Improve Prediction of Hard Cardiovascular Events Above Coronary Artery Calcium Scoring and Established Risk Factors - the Heinz Nixdorf Recall Study | Amir A Mahbadi, Univ of Duisburg-Essen, Essen, Germany  
Hagen Kälsch, Univ of Duisburg-Essen, Essen, Germany |
<p>| 3:15 | Q&amp;A Discussion |</p>
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<td><strong>Diabetes Mellitus and CVD: Prevention and Management</strong></td>
<td><strong>Russell Ross Memorial Lectureship in Vascular Biology: Mechanisms of Atherosclerosis</strong></td>
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<tr>
<td>S503</td>
<td>S104</td>
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<td>2:00 - 3:15 PM</td>
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<td>Mikhail Kosiborod, Kansas City, MO</td>
<td>Sergio Fazio, Portland, OR</td>
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<td>Gianluigi Savarese, Federico II Univ, Naples, Naples, Italy</td>
<td>Christopher Glass, La Jolla, CA</td>
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<td>Giuseppe Rosano, St George’s Univ, London, United Kingdom</td>
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<td><strong>Effects of Insulin Glargine on Left Ventricular Mass and Function in Patients With Dysglycemia</strong></td>
<td><strong>Lipoprotein (a) Induces Monocyte Activation and Arterial Wall Inflammation via Epigenetic Remodeling</strong></td>
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<td>Michelle Haroun, Population Health Res Inst, Hamilton Health Sciences and McMaster Univ, Hamilton, ON, Canada</td>
<td>Fleur van der Valk, AMC, Amsterdam, Netherlands</td>
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<td>The ORIGIN Investigators</td>
<td>Erik Stroes, AMC, Amsterdam, Netherlands</td>
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<td><strong>PCSK9 and LDL-C Lowering Effect of SCAP Targeting siRNA in Mouse and Non-Human Primate Models</strong></td>
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<td>Ryosuke Komi, Iwate Medical Univ, Morioka, Japan</td>
<td>Kristian K Jensen, Merck &amp; Co., Inc., Kenilworth, NJ</td>
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<td>Motoyuki Nakamura, Iwate Medical Univ, Morioka, Japan</td>
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<td><strong>Microrna Expression in Circulating Microvesicles Predicts Cardiovascular Events in Patients With Coronary Artery Disease</strong></td>
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<td>Felix Jansen, Univ of Bonn, Bonn, Germany</td>
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<td>Deepak Bhatt, Brigham and Womens Hosp, Boston, MA</td>
<td>Nikos Werner, Univ of Bonn, Bonn, Germany</td>
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<td>Felix Jansen, Univ of Bonn, Bonn, Germany</td>
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<td>Geetha Bhat, Advocate Christ Medical Ctr, Oak Lawn, IL</td>
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2:15  Role of Polo-Like Kinase-1 in Intimal Hyperplasia in Saphenous Vein Graft: Potential Implication in Vein-Graft Disease
Swastika Sur, Creighton Univ Sch Med, Omaha, NE
Devendra K Agrawal, Creighton Univ Sch Med, Omaha, NE

2:25  Q&A Discussion

2:30  Both Tetrahydrobiopterin Depletion and eNOS S-Glutathionylation Contribute to eNOS Uncoupling in Coronary Disease Patients
Saradhadevi Varadaraj, The Ohio state Univ, Columbus, OH
Jay L Zweier, The Ohio state Univ, Columbus, OH

2:40  Q&A Discussion

2:45  Both Tetrahydrobiopterin Depletion and eNOS S-Glutathionylation Contribute to eNOS Uncoupling in Coronary Disease Patients
Saradhadevi Varadaraj, The Ohio state Univ, Columbus, OH
Jay L Zweier, The Ohio state Univ, Columbus, OH

2:55  Q&A Discussion

3:00  Coronary Artery Bypass Graft Surgery in Elderly Patients With Multivessel Coronary Artery Disease is Associated with Better Outcomes
John T Posenau, Duke Univ, Durham, NC
Sunil V Rao, Duke Clinical Res Inst, Durham, NC

3:10  Q&A Discussion

Abstract Oral Session

Surgical Treatment of Arrhythmias and Heart Failure

2:00  Conductive Polymer Hydrogel for Enhancement of Electrical Propagation in Border Zone Myocardium after Myocardial Infarction
Anton Mihic, Toronto General Res Inst, Univ Health Network; Inst of Medical Science, Univ of Toronto, Toronto, ON, Canada
Ren-Ke Li, Toronto General Res Inst, Univ Health Network; Inst of Medical Science, Univ of Toronto, Toronto, ON, Canada

2:10  Q&A Discussion

2:15  Staged versus Same-Day Thoracoscopic Hybrid Ablation for Persistent Atrial Fibrillation: Identification of Pulmonary Vein Reconnection Following Surgical Ablation
Christopher R Ellis, Vanderbilt Heart and Vascular Inst, Nashville, TN
Steven J Hoff, Orlando Health, Orlando, FL

2:25  Q&A Discussion

A New Treatment for Diastolic Heart Failure: Trabecular Cutting
David L Halaney, Univ of Texas Health Science Ctr, San Antonio, TX
Marc D Feldman, Univ of Texas Health Science Ctr, San Antonio, TX

2:40  Q&A Discussion

2:45  Left Atrial Appendage Closure Significantly Reduces the Incidence of Post-operative Cerebrovascular Accidents in Patients Undergoing Cardiac Surgery: Analysis Based on a Single Center Prospective Observational Study
Tai Iwamura, Kamagaya general hospital, Kamagaya, Japan
Atsushi Amano, Juntendo Univ, Tokyo, Japan

3:00  Surgical Myectomy Results in Significantly Improved Long-term Event Rate in Hypertrophic Cardiomyopathy Patients With Severe Left Ventricular Outflow Tract Obstruction
Milind Y Desai, Cleveland Clinic, Cleveland, OH
Harry Lever, Cleveland Clinic, Cleveland, OH

3:10  Q&A Discussion

Abstract Oral Session

Thomas Smith Memorial Lecture: Cardiac Failure and Remodeling

S405  2:00 - 3:15 PM

Moderators:
Roger Hajjar, New York, NY
Arjun Deb, Los Angeles, CA

2:00  Thomas Smith Memorial Lecture: Regulation of Myocardial Growth and Death by the Hippo Signaling Pathway
Junichi Sadoshima, Newark, NJ

2:30  Mutation of the SERCA-Reactive Cysteine-674 to Serine Attenuates Myocyte Apoptosis and Heart Failure in Mice With Chronic Pressure Overload
Fuzhong Qin, Boston Univ, Boston, MA
Wilson S Colucci, Boston Univ, Boston, MA

2:40  Q&A Discussion

2:45  The HECT Type E3 Ligase ITCH Ameliorates Left Ventricular Remodeling and Mortality after Myocardial Infarction
Otaki Yoichiro, Yamagata Univ Sch of Med, Yamagata, Japan
Isao Kubota, Yamagata Univ Sch of Med, Yamagata, Japan

2:55  Q&A Discussion
3:00 The Epigenetic Regulator Sirtuin 6 Improves Cardiac Remodeling and Function after Myocardial Infarction in Mice
Uri Amit, Neufeld Cardiac Res Inst and Sheba Ctr for Regenerative Med, Stem Cell, and Tissue Engineering, Tel-Aviv Univ, Tel-Hashomer, Israel
Jonathan Leor, Neufeld Cardiac Res Inst and Sheba Ctr for Regenerative Med, Stem Cell, and Tissue Engineering, Tel-Aviv Univ, Tel-Hashomer, Israel

3:10 Q&A Discussion

Abstract Oral Session

AOS.512.01 Ventricular Function/Mechanics

S406a
2:00 - 3:15 PM

Moderators:
Pieter DeTombe, Maywood, IL
Corrado Poggesi, Florence, Italy

2:00 Association of Myocardial T1 Relaxation Properties With Left Ventricular Diastolic Function and Hemodynamic Change in Ambulatory Stable Patients With Non-ischemic Cardiomyopathy
Naila Choudhary, Saint Francis Hosp - The Heart Ctr, Greenvale, NY
Jie J Cao, Saint Francis Hosp - The Heart Ctr, Greenvale, NY

2:10 Q&A Discussion

2:15 Impact of Exercise to the Heterogeneity of Regional Left Ventricular Mechanics
Rayji S Tsutsui, Cleveland Clinic, Cleveland, OH
Zoran B Popovic, Cleveland Clinic, Cleveland, OH

2:25 Q&A Discussion

2:30 Simultaneous Longitudinal Strain in All 4 Cardiac Chambers - A Novel Method to Assess Cardiac Function
Karina Addetta, Univ of Chicago, Chicago, IL
Roberto M Lang, Univ of Chicago, Chicago, IL

2:40 Q&A Discussion

2:45 Cardiac Resynchronization Therapy Reduces Septal Contribution to Right Ventricular Work
Petter Storsten, Oslo Univ Hosp, Rikshospitalet, Oslo, Norway
Helge Skulstad, Oslo Univ Hosp, Rikshospitalet, Oslo, Norway

2:55 Q&A Discussion

3:00 Cardiac Resynchronization Therapy Increases Workload of the Right Ventricular Free Wall
Petter Storsten, Oslo Univ Hosp, Rikshospitalet, Oslo, Norway
Helge Skulstad, Oslo Univ Hosp, Rikshospitalet, Oslo, Norway

3:10 Q&A Discussion

Plenary

PS.06 New Perspectives on Cardiovascular Research: A Global Approach

North Hall B
2:00 - 3:15 PM

Moderators:
Elliott Antman, Boston, MA
Robert Harrington, Stanford, CA

2:00 Paul Dudley White International Lecture: Improving Cardiovascular Outcomes by Integrating Research and Reality
Lars Wallentin, Uppsala, Sweden

2:30 iPS Cells for Development of Therapeutics
Joseph C Wu, Stanford, CA

2:45 Developing Devices for Developing Countries
Todd J Brinton, Stanford, CA

3:00 Heart on a Chip
Kevin Kit Parker, Cambridge, MA

Special

SS.10 Best of AHA Specialty Conferences

S106
2:00 - 3:15 PM

Moderators:
Lora E Burke, Pittsburgh, PA
Mary Cushman, Colchester, VT

2:00 Science Highlights from Epidemiology and Prevention | Nutrition, Physical Activity and Metabolism
Veronique L Roger, Rochester, MN

2:15 Science Highlights from Arteriosclerosis, Thrombosis and Vascular Biology
Muredach P Reilly, Philadelphia, PA

2:30 Science Highlights from Basic Cardiovascular Sciences
Burns Blaxall, Cincinnati, OH

2:45 Science Highlights from High Blood Pressure Research
Christopher S Wilcox, Washington, DC

3:00 Science Highlights from International Stroke Conference
Cathy A Sila, Cleveland, OH
Special

SS.11

Familial Hypercholesterolemia: Integrating Genetic Information into Clinical Care

S100ab
2:00 - 3:15 PM

Moderators:
Joshua Knowles, Stanford, CA
Eric Jg Sijbrands, Rotterdam, Netherlands

2:00 Use of FH Genetics in Cascade Screening Efforts
G Kees Hovingh, Amsterdam, Netherlands

2:15 Evidence for the Use of Genetic Testing as Part of Population Screening Efforts
Anthony S Wierzbicki, London, United Kingdom

2:30 Does Genetic Information Improve the Care of Individual Patients?
Anne T Tybjaerg-Hansen, Copenhagen, Denmark

2:45 Is Widespread Use of Genetic Testing for FH Possible and Useful Outside Europe?
Raul Santos, São Paulo, Brazil

3:00 The Case for FH Genetic Testing in the United States
Daniel J Rader, Philadelphia, PA

Special

SS.14.gc

The Life Cycle of Big Data: Origins, Applications and Opportunities

S100c
2:00 - 3:15 PM

Moderator:
Michael S Blum, San Francisco, CA

2:00 The Payor Perspective on Big Data
Marcus Wilson, Wilmington, DE

2:15 The Governance of Big Data
Erin Hoive, Washington, DC

2:30 Panelist: Decision Support
John Spertus, Mid America Heart Inst, Kansas City, MO

2:45 Panelist: Comparative Effectiveness Research
Joe Ross, Yale Univ Sch of Med, New Haven, CT

3:00 Q&A Discussion

E-Abstract Session

EAS.211.04

Behavioral Risk Factors and CVD Risk II

South Hall A2 - Core 2 Theater
2:00 - 2:50 PM

Moderator:
Joseph Yeboah, Winston-Salem, NC

2:00 The Association Between Diet Quality After Diabetes Diagnosis and Major Cardiovascular Events in Women With Type 2 Diabetes Mellitus
Hyun J Shin, Baylor Univ Medical Ctr, Dallas, TX
Frank B Hu, Harvard Sch of Public Health, Boston, MA

2:05 Relationship of Healthy Diet with Components of Blood Pressure: a Study from the Hispanic Community Health Study/Study of Latinos
Natalie A Bello, Brigham and Women's Hosp, Boston, MA
Susan Cheng, Brigham and Women's Hosp, Boston, MA

2:10 In-hospital Management and Outcomes in Patients with Myocardial Infarction and Non-obstructive Coronaries
Rosanna Tavella, The Univ of Adelaide, The Queen Elizabeth Hosp, Adelaide, Australia
John Beltrame, The Univ of Adelaide, The Queen Elizabeth Hosp, Adelaide, Australia

2:15 Safety and Effectiveness of Dabigatran Relative to Warfarin in Routine Care
John D Seeger, Brigham and Women's Hosp, Boston, MA
Sebastian Schneeweiss, Brigham and Women's Hosp, Boston, MA

2:20 Trans Fat Consumption is Adversely Linked to Memory in Working-Age Adults
Beatrice Alexandra Golomb, Univ of California San Diego, La Jolla, CA
Alexis K Bui, Univ of California San Diego, La Jolla, CA

2:25 Workplace Digital Health Intervention Improves Cardiovascular Risk Factors Over One Year Dependent Upon Participation
Robert J Widmer, Mayo Clinic, Rochester, MN
Amir Lerman, Mayo Clinic, Rochester, MN

2:30 Assessment of American Heart Association's Ideal Cardiovascular Health Metrics Among Employees of Large Health Care Organization: the Baptist Health South Florida Employee Study
Khurram Nasir, Baptist Health South Florida, Coral Gables, FL
Arthur Agatston, Baptist Health South Florida, Coral Gables, FL

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
2:35 Prevalence of Traditional Risk Factors and Clinical Outcome of ST Segment Elevation Myocardial Infarction Associated with Cocaine Use
Camilo Gomez, Jackson Memorial Hosp, Miami, FL
Alexandre Ferreira, Jackson Memorial Hosp/Univ of Miami, Miami, FL

2:40 Effects of School-Based Interventions on Body Mass Index in Children and Adolescents: a Systematic Overview and Meta-analysis
Jiyoon J Park, Population Health Res Inst, Hamilton Health Sciences and McMaster Univ, Hamilton, ON, Canada
Eva Lonn, Population Health Res Inst, Hamilton Health Sciences and McMaster Univ, Hamilton, ON, Canada

2:45 Electronic Cigarettes Are Effective for Smoking Cessation: Evidence From a Systematic Review and Meta-analysis
Nicholas R.H Hann, Univ of Melbourne, Melbourne, Australia
Linda Worrall-Carter, Australian Catholic Univ, Melbourne, Australia

4:25 Ultrasound Guided Chest Compressions Over the Left Ventricle During Cardiopulmonary Resuscitation Increases Coronary Perfusion Pressure and Return of Spontaneous Circulation in a Swine Model of Traumatic Cardiac Arrest
Kenton L Anderson, San Antonio Military Medical Ctr, San Antonio, TX
Vikhyat S Bebarta, San Antonio Military Medical Ctr, San Antonio, TX

4:30 “Out-Of Hospital Cardiac Arrest Clinical Trials, Relationship Between Clinical Trial Sample Size and the Odds Ratio of Treatment Effect 1978 to the Present”
Katelin M Engerer, Dartmouth Hitchcock Medical Ctr, Lebanon, NH
Norman A Paradis, Dartmouth Hitchcock Medical Ctr, Lebanon, NH

4:35 Can We Personalize CPR? Challenges With Hemodynamics, Monitoring, and Pharmacology
Joshua W Lampe, Univ of Pennsylvania, Philadelphia, PA
Lance B Becker, Univ of Pennsylvania, Philadelphia, PA

4:40 The Relationship Between Estimated Total Ischemic Time and Hospital Survival in Patients Suffering From Out of Hospital Cardiac Arrest
Ryan Gunter, Univ of Texas Health Science Ctr a Houston, Houston, TX
Pratik B Doshi, Univ of Texas Health Science Ctr a Houston, Houston, TX

4:45 Hemodynamic Profile of Prolonged Normothermic, Mild Hypothermic, and Deep Hypothermic Emergency Cardiopulmonary Bypass Reperfusion in Rats
Ingrid AM Magnet, Medical Univ of Vienna, Vienna, Austria
Andreas Janata, Hanusch Hosp, Vienna, Austria

4:50 Calcium Dose During Resuscitation from Asphyxial Cardiac Arrest in Developing Rats Affects Heart Rate and Blood Pressure but Not Survival
Michael Ricafort, Washington Univ in Saint Louis Sch of Med, Saint Louis, MO
Michael Shoykhet, Washington Univ in Saint Louis Sch of Med, Saint Louis, MO

4:55 Hemodynamic Goal Directed Therapy in Comatose Survivors of Cardiac Arrest
Sajid Kadir, UPMC, Pittsburgh, PA
Cameron Dezfulian, UPMC, Pittsburgh, PA
Tuesday, November 18  •  Chicago, Illinois

**e-Abstract Session**

**EAS.301.02**

**RNA (Coding and Noncoding) and Epigenetics**

**South Hall A2 - Core 3 Theater**

2:00 - 2:50 PM

**Moderator:**
Jean E Schaffer, St Louis, MO

**Elevated Levels of Circulating MicroRNA-223, MicroRNA-127 and MicroRNA-146a are Associated with Risk of Near Future Cardiovascular Events in Asymptomatic Individuals**

Anna P Pilbrow, Univ of Otago Christchurch, Christchurch, New Zealand
Vicky A Cameron, Univ of Otago Christchurch, Christchurch, New Zealand

2:05 **Epigenetic Modifiers Reduce Inflammation and Modulate Macrophage Phenotype to Attenuate Endotoxemia-Induced Acute Lung Injury**

Bahar Barani, Univ of Kansas Medical Ctr, Kansas City, KS
Johnson Rajasingh, Univ of Kansas Medical Ctr, Kansas City, KS

2:10 **Left Ventricular Assist Device Normalizes Multiple Pathogenic Pathways in Both the Left and Right Ventricle in Patients With Dilated Cardiomyopathy**

Gavin Y Oudit, Div of Cardiology, Mazankowski Alberta Heart Inst, Univ of Alberta, Edmonton, AB, Canada

2:15 **RNA Sequencing of Human Hypertrophic Cardiomyopathy Tissue Reveals Diverse Pathways Modulating the Myocardial Tissue Microenvironment**

Alejandro de Faria, Vanderbilt Univ Sch of Med, Nashville, TN
Jason R Becker, Vanderbilt Univ Sch of Med, Nashville, TN

2:20 **DNA Methylation Profiling Identifies Novel Epigenetic Markers of Cardiovascular Events**

Svati H Shah, Duke Molecular Physiology Inst, Durham, NC
Simon G Gregory, Duke Molecular Physiology Inst, Durham, NC

2:25 **Prediction of Right Ventricular Failure After Cardiac Transplantation: A Recipient Transcriptomic Study**

Damien Guijarro, CHU de Nantes - Inst du Thorax, Nantes, France
Guillaume Lamirault, CHU de Nantes - Inst du Thorax, Nantes, France

2:30 **A Molecular Signature with the Potential for Identifying Impending Acute Myocardial Infarction**

Evan D Muse, The Scripps Res Inst, La Jolla, CA
Eric J Topol, The Scripps Res Inst, La Jolla, CA

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**e-Abstract Session**

**EAS.405.01**

**Treatment of Arrhythmias—Pharmacological: Stroke and Bleeding in Atrial Fibrillation**

**South Hall A2 - Core 4 Theater**

2:00 - 2:50 PM

**Moderator:**
Bruce A Koplan, Boston, MA

2:00 **Efficacy and Safety of Dabigatran versus Acenocoumarol in “Real World” Patients With Atrial Fibrillation**

Jennie Korenstra, Martini Hosp, Groningen, Netherlands
Robert Tieleman, Martini Hosp, Groningen, Netherlands

2:05 **Predictors of Hospitalization in Patients With Atrial Fibrillation: An Analysis From ROCKET AF**

Manesh R Patel, Duke Clinical Res Inst, Duke Univ Medical Ctr, Durham, NC
Jonathan P Piccini, Duke Clinical Res Inst, Duke Univ Medical Ctr, Durham, NC

2:10 **High Rates of antiplatelet Use in Atrial Fibrillation Patients Treated With Oral Anticoagulation: Insights from the Stroke Prevention and Rhythm Interventions in Atrial Fibrillation (SPRINT-AF) Registry**

Andrew C Ha, Univ Health Network, Toronto, ON, Canada

2:15 **Anemia Predicts Bleeding and Mortality, but Not Stroke, in Patients With Atrial Fibrillation: Insights From the ARISTOTLE Trial**

B Daan Westenbrink, Univ Medical Ctr Groningen, Univ of Groningen, Groningen, Netherlands
Wiek van Gilst, Univ Medical Ctr Groningen, Univ of Groningen, Groningen, Netherlands
### 2:20 Atrial Fibrillation Complicated With Thrombus Formation in LA Appendage During Anticoagulation: Incidence, Clinical Characteristics and Efficacy of Catheter Ablation

*Kiyoshi Otomo, Sendai Kousei Hosp, Sendai, Japan*
*Taichiro Meguro, Sendai Kousei Hosp, Sendai, Japan*

### 2:25 Safety and Efficacy of Continuous Anticoagulant and Antiplatelet Combination Therapy during Implantation of Cardiac Rhythm Devices

*Kohei Ishibashi, Natl Cerebral and Cardiovascular Ctr, Suita, Japan*
*Kengo Kusano, Natl Cerebral and Cardiovascular Ctr, Suita, Japan*

### 2:30 Initial Prothrombin Time Response After Warfarin Loading as a Major Determinant Influencing Maintenance Dose

*Young Dae Kim, Dong A Univ Hosp, Busan, Republic of Korea*
*Eu Gene Jeong, Dong A Univ Hosp, Busan, Republic of Korea*

### 2:35 Medicare Budget Implications of Left Atrial Appendage Closure for Stroke Risk Reduction in Non-Valvular Atrial Fibrillation

*Shannon O Armstrong, GfK, Wayland, MA*
*Ken Stein, Boston Scientific, Natick, MA*

### 2:40 Systemic, Non-cerebral, Arterial Embolism in 21,105 Patients with Atrial Fibrillation Randomized to Edoxaban or Warfarin: Results from the ENGAGE AF-TIMI 48 Trial

*Bram J Geller, Brigham and Women's Hosp, Boston, MA*
*Elliott M Antman, Brigham and Women’s Hosp, Boston, MA*

### 2:45 Racial Differences in Outcomes With Dabigatran in Elderly Atrial Fibrillation Patients

*Rajesh Kabra, Univ of Tennessee Health Science Ctr, Memphis, TN*
*Mary Vaughan-Sarrazin, Univ of Iowa Coll of Med, Iowa City, IA*

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### e-Abstract Session

**Hypertension: Obesity and Arteriosclerosis**

**South Hall A2 - Core 7 Theater**

**2:00 - 2:30 pm**

#### 2:00 Central Hemodynamic Response to Oral Glucose Loading Are Blunted in Patients with Impaired Glucose Tolerance or Diabetes

*Tadanao Higaki, Hiroshima Univ Graduate Sch of Biomedical and Health Sciences, Hiroshima, Japan*
*Yasuki Kihara, Hiroshima Univ Graduate Sch of Biomedical and Health Sciences, Hiroshima, Japan*

#### 2:05 HMG-CoA Reductase Inhibition Enhances Renoprotective Effects of Angiotensin Receptor1 Antagonism in Salt-Sensitive Hypertensive Rats

*Lina Hu, Nagoya Univ Sch Med, Nagoya, Japan*
*Kenji Okumura, Nagoya Univ Sch Med, Nagoya, Japan*

#### 2:10 Masked Hypertension in Ischemic Stroke Patients

*Sahrai Saeed, Haukeland Univ Hosp, Bergen, Norway*
*Eva Gerdts, Univ of Bergen, Bergen, Norway*

#### 2:20 The Gut Hormone Obestatin Induces Nitric Oxide-Dependent Vasodilation and Inhibits Endothelin-1 Activity in Obese Patients

*Carmine Cardillo, Catholic Univ Medical Sch, Roma, Italy*

#### 2:25 Association of Inter-Arm Blood Pressure Differences (iab) With Future Cardiovascular Events (cv) in the Patients With Coronary Artery Disease (cad)

*Takanori Tokitsu, kumamoto university, Kumamoto, Japan*
*Hisao Ogawa, kumamoto university, Kumamoto, Japan*
**e-Abstract Session**

**EAS.308.02**

**Pediatric Cardiac Surgery**

South Hall A2 - Core 3 Theater
4:10 - 5:00 PM

**Moderator:**
Scott Bradley, Charleston, SC

4:10 **Echocardiographic Assessment of Surgically Placed Melody Valves in the Mitral Position in Young Children**
Lindsay R Freud, Boston Children's Hosp, Boston, MA
Wayne Tworetzky, Boston Children's Hosp, Boston, MA

4:15 **Relationship of Cerebral Blood Flow to Aortic to Pulmonary Collateral/Shunt Flow in Single Ventricles Throughout Staged Reconstruction: It's a Steal**
Mark A Fogel, Children's Hosp Philadelphia, Philadelphia, PA
Daniel Licht, Childrens Hosp Philadelphia, Philadelphia, PA

4:20 **Comparative Analysis of the Use of Extracorporeal Membrane Oxygenation During Cardiopulmonary Resuscitation Within a Pediatric Cardiac Intensive Care Unit**
Stephanie J Conrad, Vanderbilt Univ Sch of Med, Nashville, TN
Andrew H Smith, Vanderbilt Univ Sch of Med, Nashville, TN

4:25 **Impact of Tight Glycemic Control on the Neurodevelopmental Outcomes at One Year of Age of Children with Congenital Heart Disease**
Anjali Sadhwani, Boston Children's Hosp, Boston, MA
Michael Agus, Boston Children's Hosp, Boston, MA

4:30 **Association of Post-operative Complications with Clinical Outcomes and Hospital Costs following the Norwood Operation**
Kimberly E McHugh, Medical Univ of South Carolina, Charleston, SC
Mark A Scheurer, Medical Univ of South Carolina, Charleston, SC

4:35 **High Death and Re-Intervention Rate in Neonatal Modified Blalock-Taussig Shunts With Concomitant Patent Ductus Arteriosus: Mechanistic Insights Into Competitive Flow and Pulmonary Overcirculation**
Bari Murtuza, Freeman Hosp, Newcastle upon Tyne, United Kingdom
Alison Marsden, UCSD, La Jolla, CA

4:40 **Resource Demands and the Incidence of Cardiopulmonary Resuscitation Within a Pediatric Cardiac Intensive Care Unit**
Andrew H Smith, Vanderbilt Univ Sch of Med, Nashville, TN

**Abstract Oral Session**

**HEART FAILURE: READMISSION, QUALITY OF CARE AND THE CURE?**

S404bcd
3:45 - 5:00 PM

**Moderators:**
Robert J Mentz, Durham, NC
Anu Lala, New York, NY

3:45 **Hospital Length of Stay and Readmissions Post Heart Failure Hospitalization in the EVEREST Trial**
Hassan Khan, Emory Univ, Atlanta, GA
Javed Butler, Emory Univ, Atlanta, GA

3:55 **Q&A Discussion**

4:00 **Medication Initiation Burden Required to Comply with Hospital Quality Measures for Heart Failure**
Larry A Allen, Univ of Colorado Sch of Med, Aurora, CO
With The Guidelines Heart Failure (GWTG-HF) Invest on behalf of the American Heart Association’s Get

4:10 **Q&A Discussion**

4:15 **Impact of Wireless Pulmonary Artery Pressure Monitoring on Heart Failure Hospitalizations and All-Cause 30-Day Readmissions in Medicare-Eligible Patients With NYHA Class III Heart Failure: Results From the CHAMPION Trial**
Philip B Adamson, Oklahoma Heart Hosp, Oklahoma City, OK
Jay Yadav, CardioMems, Inc, Atlanta, GA

4:25 **Q&A Discussion**
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<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
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<tr>
<td>4:30</td>
<td>Association of Acute Heart Failure Length of Stay With Subsequent Re-Hospitalization and All-Cause Mortality Among Patients With Preserved vs. Reduced Ejection Fraction</td>
<td>Gregory A Nichols, Kaiser Permanente, Portland, OR Wing W Chan, Novartis Pharmaceuticals, East Hanover, NJ</td>
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<td>4:40</td>
<td>Q&amp;A Discussion</td>
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<td>4:45</td>
<td>Trend of Heart Failure Hospitalizations in USA: 10 Year Analysis of Nationwide Inpatient Sample Data</td>
<td>Sourabh Aggarwal, Western Michigan Univ Sch of Med, Kalamazoo, MI Vishal Gupta, Borgess Cardiology Inst, Kalamazoo, MI</td>
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**Abstract Oral Session**

**AOS.717.01**

**Medical Therapy in Chronic Ischemic Heart Disease**

**S103bc**

3:45 - 5:00 PM

**Moderators:**
Suzanne V Arnold, Kansas City, MO
Philip Aylward, Adelaide, Australia

3:45  | Outcomes in Stable Patients With Prior Atherothrombosis Receiving Vorapaxar Who Present With a New Acute Coronary Syndrome: Insights From the TRA2P-TIMI 50 Trial  | Marc P Bonaca, TIMI Study Group, Brigham and Women's Hosp, Boston, MA
David A Morrow, TIMI Study Group, Brigham and Women’s Hosp, Boston, MA |

3:55  | Q&A Discussion                                                               |                                                                           |

3:45  | Randomized Trial of the Association Between Low Dose Statins and Nutraceuticals in High intensity Statin intolerant patients With Very High Risk Coronary Artery disease (ADHERENCE) | Giuseppe Marazzi, IRCCS San Raffaele-Roma, Rome, Italy
Giuseppe Rosano, IRCCS San Raffaele-Roma, Rome, Italy |

4:40  | Q&A Discussion                                                               |                                                                           |

4:45  | Outcomes and Predictors of β-blockers Prescriptions at Discharge in Patients With Stable Angina Without Prior History of Myocardial Infarction or Systolic Heart Failure Undergoing Elective PCI: Results From the NCDR Cath-PCI Registry | Velay Parikh, Staten Island Univ Hosp, Staten Island, NY
Debabrata Mukherjee, Texas Tech Univ, El Paso, TX |

4:55  | Q&A Discussion                                                               |                                                                           |

**Abstract Oral Session**

**AOS.513.01**

**Myocardial Energetics/ Intermediary Metabolism: The Best of 2014**

**S404a**

3:45 - 5:00 PM

**Moderator:**
Rong Tian, Seattle, WA

3:45  | Lipotoxic Induction of Myocardial and Circulating Very Long-chain Ceramides in Patients With Advanced Heart Failure Improves With Mechanical Unloading Through Ventricular Assist Devices | Ruiping Ji, Columbia Univ Medical Ctr, New York, NY
P Christian Schulze, Columbia Univ Medical Ctr, New York, NY |

3:55  | Q&A Discussion                                                               |                                                                           |

4:00  | Suppressing Increased Expression of NADPH-Dependent Malic Enzyme 1 in Hypertrophied Hearts Eliminates Maladaptive Anaplerosis and Improves Redox Conditions | Ryan Lahey, Univ of Illinois at Chicago Coll of Med, Chicago, IL
E Douglas Lewandowski, Univ of Illinois at Chicago Coll of Med, Chicago, IL |

4:10  | Q&A Discussion                                                               |                                                                           |

4:15  | Cardiomyocyte Specific Loss of Diacylglycerol Acyl Transferase 1 (Dgat1) Reproduces the Abnormalities in Lipids Found in Severe Heart Failure | Chad M Trent, New York Univ Medical Ctr, New York, NY
Ira J Goldberg, New York Univ Medical Ctr, New York, NY |

4:25  | Q&A Discussion                                                               |                                                                           |
## Abstract Oral Session

### AOS.305.01

**Outcomes Research in Congenital Heart Disease**

<table>
<thead>
<tr>
<th>Time</th>
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</tr>
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<tbody>
<tr>
<td>3:45</td>
<td>High Quality Care is Associated With Lower Costs for Congenital Heart Surgery Across US Children’s Hospitals</td>
<td>Sara K Pasquali, Univ of Michigan, Ann Arbor, MI Marshall L Jacobs, Johns Hopkins, Baltimore, MD</td>
</tr>
<tr>
<td>4:00</td>
<td>Should Downsizing Still Be the Gold Standard for Treatment of Ischemic Mitral Regurgitation?</td>
<td>Boris Robic, Jessa Hosp, 3500 Hasselt, Belgium Marc Hendriks, Jessa Hosp, 3500 Hasselt, Belgium</td>
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<td>4:15</td>
<td>Attenuated Basal Left Ventricular Wall Contraction in Patients With Mitral Valve Prolapse Can Be Secondary to Annular Dilatation With Augmented Closing Force: Pre- and Post-Operative Speckle Tracking Echocardiographic Study</td>
<td>Shota Fukuda, Univ of Occup and Environ Health, Kitakyushu, Japan Yutaka Otsuji, Univ of Occup and Environ Health, Kitakyushu, Japan</td>
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<td>Mechanical versus Biological Prostheses for Chronic Ischaemic Mitral Regurgitation: A Long-Term Hemodynamic and Functional Capacity Comparison</td>
<td>Carlo Fino, Ospedale “ Papa Giovanni XXIII”, Bergamo, Italy Julien Magne, CHU Limoges, Hôpital Dupuytren, Limoges, France</td>
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<td>A True World Picture - Surgical Revision After Percutaneous Mitral Valve Repair With the Mitraclip Device</td>
<td>Grzegorz Hirml, Heart Ctr Leipzig, Leipzig, Germany Freidrich Wilhelm Mohr, Heart Ctr Leipzig, Leipzig, Germany</td>
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### AOS.610.03

**Surgical Therapy for Valvular Heart Disease: Mitral Valve**

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**Abstract Oral Session**

**Outcomes Research in Congenital Heart Disease**

**AOS.305.01**

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<td>Impact of 2007 American Heart Association Infective Endocarditis Prevention Guidelines on Endocarditis Related Pediatric Hospital Admissions: A U.S. Population-Based Study</td>
<td>Mousumi Moulik, Univ of Texas Medical Sch at Houston, Houston, TX</td>
</tr>
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<td>Health Related Quality of Life in Patients with Congenital Heart Disease: a Meta-Analysis</td>
<td>Peter C Kahr, Univ Hosp Muenster, Muenster, Germany Gerhard-Paul Diller, Univ Hosp Muenster, Muenster, Germany</td>
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<td>The Impact of Pulmonary Insufficiency on Patients with Surgically Repaired Pulmonary Stenosis vs. Tetralogy of Fallot by Cardiac Magnetic Resonance</td>
<td>Michael R Joynt, Univ of Michigan, Ann Arbor, MI Jimmy C Lu, Univ of Michigan, Ann Arbor, MI</td>
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<td>Q&amp;A Discussion</td>
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Abstract Oral Session

**Thoracic Aortic Disease**

**AOS.607.02**

N228  
3:45 - 5:00 PM

**Moderators:**  
Basel Ramlawi, Houston, TX  
Scott Mitchell, Stanford, CA

3:45  
**The Zinc-finger Protein 148(zfp148) Attenuates Aortic Aneurysm Formation and is a Novel Smooth Muscle Cell Regulator**  
Morgan Salmon, Univ of Virginia Medical Ctr, Charlottesville, VA  
Gorav Alawadi, Univ of Virginia Medical Ctr, Charlottesville, VA

3:55  
**Q&A Discussion**

4:00  
**Computed Tomographic Indexing Aortic Root Area to Height Provides Incremental Prognostic Utility in Patients With Trileaflet Aortic Valve and Dilated Aortic Root**  
Ahmad Masri, Cleveland Clinic, Cleveland, OH  
Milind Y Desai, Cleveland Clinic, Cleveland, OH

4:10  
**Q&A Discussion**

4:15  
**Progressive Aortic Dilatation is Regulated by the mir-17 Cluster**  
Jie Wu, Toronto General Res Inst, Univ Health Network, Toronto, ON, Canada  
Ren-Ke Li, Toronto General Res Inst, Univ Health Network, Toronto, ON, Canada

4:25  
**Q&A Discussion**

4:30  
**Long-term Risk of Mortality, Aortic Dissection and Thoracic Aortic Surgery After Isolated Aortic Valve Replacement in Patients With Bicuspid and Tricuspid Aortic Valves**  
Yuting Chiang, Icahn Sch of Med at Mount Sinai, New York, NY  
Joanna Chikwe, Mount Sinai Medical Ctr, New York, NY

4:40  
**Q&A Discussion**

4:45  
**Effects of Statin Therapy on Ascending Aorta Aneurysms Growth: a Propensity-matched Analysis of 828 Patients**  
Emiliano Angeloni, Univ of Rome, Rome, Italy  
Riccardo Sinatra, Univ of Rome, Rome, Italy

4:55  
**Q&A Discussion**

---

**Treatment of Arrhythmias: Pharmacological—Novel Anticoagulants**

**AOS.405.01**

S401bcd  
3:45 - 5:00 PM

**Moderators:**  
Christian T Ruff, Boston, MA  
Jeffrey Weitz, Hamilton, ON, Canada

3:45  
**Concomitant Use of Antiplatelet Therapy with Edoxaban or Warfarin in Patients with Atrial Fibrillation in the ENGAGE AF-TIMI 48 Trial**  
Haiyan Xu, TIMI Study Group, Brigham and Women’s Hosp, Boston, MA  
Eugene Braunwald, TIMI Study Group, Brigham and Women’s Hosp, Boston, MA

3:55  
**Q&A Discussion**

4:00  
**Efficacy and Safety of Edoxaban for the Management of Elderly Patients With Atrial Fibrillation: Engage AF-TIMI 48**  
Eri Toda Kato, TIMI Study Group, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA  
Elliott M Antman, TIMI Study Group, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA

4:10  
**Q&A Discussion**

4:15  
**Polypharmacy and the Efficacy and Safety of Rivaroxaban versus Warfarin in the Prevention of Stroke: Results From the ROCKET AF Trial**  
Jonathan P Piccini, Duke Clinical Res Inst, Durham, NC  
Manesh R Patel, Duke Clinical Res Inst, Durham, NC

4:25  
**Q&A Discussion**

4:30  
**Comparative Effectiveness of Dabigatran and Rivaroxaban versus Warfarin in Patients With Non-Valvular Atrial Fibrillation**  
Alvaro Alonso, Univ of Minnesota, Minneapolis, MN

4:40  
**Q&A Discussion**

4:45  
**Effect of Rivaroxaban vs Warfarin on Hospitalization Days, Healthcare Resource Utilization, and Costs in Nonvalvular Atrial Fibrillation Patients Using Rivaroxaban**  
François Laliberté, Groupe d’analyse, Ltee, Montréal, QC, Canada  
Patrick Lefebvre, Groupe d’analyse, Ltee, Montréal, QC, Canada

4:55  
**Q&A Discussion**
Cardiovascular Seminar

Harnessing Genomics and Other Omics for CVD Gene Discovery and Translation in Very Large Populations

S100c
3:45 - 5:00 PM

Moderators:
Ruth McPherson, Ottawa, ON, Canada
Santhi Ganesh, Ann Arbor, MI

3:45 The Power of Collaborations with Genomics in the CHARGE Consortium
Bruce Psaty, Seattle, WA

4:00 Discovering Disease Variation from Genomic Studies in Diverse Populations
Donna K Arnett, Birmingham, AL

4:15 Mendelian Randomization and Genomics in the Evaluation of Cardiometabolic Disease
Juan Pablo Casas, London, United Kingdom

4:30 Pharmacogenetics from Randomized Trials to Populations
Julie A Johnson, Gainesville, FL

4:45 Lessons Learned from Genomics in Very Large Populations
Kári Stefánsson, Reykjavik, Iceland

Cardiovascular Seminar

Recognition and Risk of Depression in Stroke Survivors and Their Caregivers

S502
3:45 - 5:00 PM

Moderator:
Rosemarie B King, Chicago, IL

3:45 Depression Assessment in Stroke Patients and Their Caregivers
N Jennifer Klinedinst, Baltimore, MD

4:00 In-Hospital Risk Prediction for Poststroke Depression
Janneke M de Man-van Ginkel, Utrecht, Netherlands

4:15 Factors Associated with Symptoms of Depression in Caregivers
Tamilyn Bakas, Indianapolis, IN

4:30 Psychosocial Strategies to Reduce Depression Following Stroke
Pamela H Mitchell, Seattle, WA

4:45 Q&A Discussion

Plenary

Reciprocal Extrapolation: Individualizing Care Using Population Data

North Hall B
3:45 - 5:00 PM

Moderators:
Thomas Cappola, Philadelphia, PA
Charles Rotimi, Bethesda, MD

3:45 Large-Scale Biobanking: Investing in Individualized Care
John M Gaziano, Roxbury Crossing, MA

4:00 Whole Genomes: The Whole Enchilada for Personalized Care!
Euan Ashley, Stanford, CA

4:15 The Era of Personalized Medicine Is Here: JAMA’s View
Howard C Bauchner, Chicago, IL

4:30 Applying General Guidelines to Individual Patients
Jeffrey Goldberger, Chicago, IL

4:45 Genetic and Societal Contributors to Racial Disparities
Charles Rotimi, Bethesda, MD

Special

Creating a Culture of Health: AHA 2020 Impact Goals

S106
3:45 - 5:00 PM

Moderators:
Vincent Bufalino, Naperville, IL
Mary Ann Bauman, Oklahoma City, OK

3:45 Diet and Health
Dean Ornish, Sausalito, CA

4:00 Exercise Towards Health
Steven Blair, Columbia, SC

4:15 Assessing Cardiac Risk
Donald M Lloyd-Jones, Chicago, IL

4:30 Using Mobile Devices to Monitor and Change Healthy Behaviors:
Michael V McConnell, Stanford, CA

4:45 Panel Discussion
Clinical Science: Special Reports

**Update on Randomized Trials**

**CS.01**

**S100ab**  
3:45 - 5:13 PM

**Moderators:**  
Frederick A Masoudi, Aurora, CO  
Michael E Farkouh, Toronto, ON, Canada

3:45  
**On-Treatment Analysis of the IMPproved Reduction of Outcomes: Vytorin Efficacy International Trial (IMPROVE-IT)**  
Michael A Blazing, Durham, NC

3:55  
**Discussant of On-Treatment Analysis of the IMPproved Reduction of Outcomes: Vytorin Efficacy International Trial (IMPROVE-IT)**  
Jeffrey Anderson, Murray, UT

3:58  
**Panel Discussion**

4:07  
**Lifetime Clinical and Economic Benefits of Statin-Based LDL Lowering in the 20-Year Followup of the West of Scotland Coronary Prevention Study**  
Chris J Packard, United Kingdom

4:17  
**Discussant of Lifetime Clinical and Economic Benefits of Statin-based LDL Lowering in the 20-year Followup of the West of Scotland Coronary Prevention Study**  
Harvey White, Auckland, New Zealand

4:20  
**Panel Discussion**

4:29  
**Regional Analysis of Treatment of Preserved Cardiac Function Heart Failure With an Aldosterone Antagonist (TOPCAT)**  
Marc Pfeffer, Boston, MA

4:39  
**Discussant of Regional Analysis of Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist (TOPCAT)**  
Judith Hochman, New York, NY

4:42  
**Panel Discussion**

4:51  
**Comparison of Ischemic and Bleeding Events After Drug-Eluting Stents or Bare Metal Stents in Subjects Receiving Dual Antplatelet Therapy: Results from the Randomized Dual Antiplatelet Therapy Study**  
Dean J Kereiakes, Cincinnati, OH

5:01  
**Discussant of Comparison of Ischemic and Bleeding Events After Drug-Eluting Stents or Bare Metal Stents In Subjects Receiving Dual Antiplatelet Therapy: Results from the Randomized Dual Antiplatelet Therapy Study**  
Daniel B Mark, Durham, NC

5:04  
**Panel Discussion**

**Ask the Experts**

**ATE.504**

**A Life Cycle Journey in Heart Failure Across the Life Span**

**S404bcd**  
5:30 - 6:45 PM

**Moderator:**  
Colleen K Mcllvennan, Aurora, CO

5:30  
**Considerations in the Congenital Patient**  
Craig Broberg, Portland, OR

5:45  
**Considerations in the Peripartum Patient**  
Uri Elkayam, Los Angeles, CA

6:00  
**Considerations in the Older Adult**  
JoAnn Lindenfeld, Aurora, CO

6:15  
**End of Life: Considerations in Palliative Care**  
Tiny Jaarsma, Linköping, Sweden

6:30  
**Q&A Discussion**

**Ask the Experts**

**ATE.305**

**Advanced Imaging in Pediatric Cardiac Disease: What Have We Learned?**

**S102d**  
5:30 - 6:45 PM

**Moderators:**  
Girish Shirali, Kansas City, MO  
Mark Friedberg, Toronto, ON, Canada

5:30  
**Quantitative and Qualitative Assessment of AV Valve Regurgitation in the Pediatric Population**  
Nee Scze Khoo, Edmonton, AB, Canada

5:45  
**Advanced Echocardiographic Assessment of the Single-Ventricle Heart: Is It Accurate and Reliable?**  
Andreea Dragulescu, Toronto, ON, Canada

6:00  
**Left Atrial Size and Function in Pediatric Patients: Noninvasive Assessment and Clinical Outcome**  
Benjamin W Eidem, Rochester, MN

6:15  
**Holographic Imaging of Congenital Heart Defects**  
Elchanan Bruckheimer, Petach Tikva, Israel

6:30  
**3D Printing of Congenital Heart Disease**  
Yoav Dori, Philadelphia, PA
**Ask the Experts**

**ATE.046**  
**Arrhythmia Management in the Very Elderly**

S402  
5:30 - 6:45 PM  
**Moderator:** NA Mark Estes, Boston, MA  
5:30 An 84-Year-Old Woman with Diabetes and Parkinson’s Disease Has Recurrent Syncope and Falls: How Can We Help?  
Karen J Friday, Palo Alto, CA  
5:35 Q&A Discussion  
5:45 An 86-Year-Old Man with Hypertension, Diabetes, CR 2.4: What Would You Recommend for Anticoagulation?  
Michael D Ezekowitz, Wynnewood, PA  
5:50 Q&A Discussion  
6:00 An 89-Year-Old Woman with Recurrent and Symptomatic Paroxysmal AF and Failed Medical Therapy: Would You Recommend Ablation or Pacemaker and AVN Ablation?  
Win Kuang K Shen, Phoenix, AZ  
6:05 Q&A Discussion  
6:15 An 82-Year-Old Woman with DCM, NYHA Class II, Ejection Fraction 30%, Pacemaker at ERI: What Would You Recommend—Replacement with a Pacemaker, ICD or CRT?  
Brian Olshansky, Iowa City, IA  
6:20 Q&A Discussion  
6:30 An 87-Year-Old Man with Prior MI, Prostate Cancer, COPD, Ejection Fraction 25%, Syncope with Sinus Pause 4.5 Seconds: Single-Chamber Pacemaker, Dual-Chamber Pacemaker or ICD?  
Fred Kusumoto, Jacksonville, FL  
6:35 Q&A Discussion

**Ask the Experts**

**ATE.0607**  
**Hot Topics and Debates in Cardiac Surgery**

N226  
5:30 - 6:45 PM  
**Moderator:** Jennifer Lawton, St Louis, MO  
5:30 Type A Dissection: DHCA, Selective Antegrade Perfusion or Both?  
Michael Fischbein, Palo Alto, CA  
5:45 Should All Patients with Asymptomatic, Severe MR Have Surgery?  
Elaine Tseng, San Francisco, CA  
6:00 Persons with Diabetes with LAD Disease: New Revascularization Equipoise?  
Marc Ruel, Ottawa, ON, Canada  
6:15 Should Low-/Intermediate-Risk Patients Have TAVI or sAVR?  
Bradley G Leshnower, Atlanta, GA  
6:30 Left Atrial Appendage Occlusion: Status of the Evidence  
Richard Whitlock, Hamilton, ON, Canada

**Ask the Experts**

**ATE.202.gc**  
**How to Use mHealth Tools to Prevent and Manage Cardiovascular Disease**

S100C  
5:30 - 6:45 PM  
**Moderators:** Bonnie Spring, Chicago, IL  
Kathryn Wood, Durham, NC  
5:30 How to Use a Remote Monitoring System for CHF  
Lorraine Evangelista, Irvine, CA  
5:40 How to Use a Smartphone Client-Server Teleradiology System for Primary Diagnosis of Acute Stroke  
Joseph R Mitchell, Scottsdale, AZ  
5:50 How to Use a Smartphone to Collect Diet and Exercise Self-Monitoring Data and Promote Adherence  
Lora E Burke, Pittsburgh, PA
6:00 How to Use Wearable Devices to Monitor Physical Activity
Steven N Blair, Columbia, SC

6:10 mHealth Tools for Dietary Assessment: Strengths and Limitations
Carol Boushey, Honolulu, HI

6:20 How to Develop a Grant Proposal to Support Efficacy Trials for Rapidly Evolving Technology
Bill Riley, Bethesda, MD

6:30 Q&A Discussion

---

**Ask the Experts**

**ATE.703**

**Unraveling the Mysteries of Mechanotransduction and Its Link to Vascular Diseases**

**S103d**
5:30 - 6:45 PM

**Moderators:**
Tzung K Hsiai, Los Angeles, CA
Hua Linda Cai, Los Angeles, CA

5:30 Epigenetic Regulation of Mechanotransduction
Shu Chien, La Jolla, CA

5:45 Shear Stress and Reactivation of Developmental Genes for Vascular Repair
Tzung K Hsiai, Los Angeles, CA

6:00 Role of Mechanosensitive MicroRNAs in Atherosclerosis
Hanjoong Jo, Atlanta, GA

6:15 Endothelial Mechanotransduction: From the Protein to the Vessel
Ellie Tzima, Chapel Hill, NC

6:30 Biomechanical Remodeling of Intracranial and Abdominal Aortic Aneurysms
Juan Lasheras, La Jolla, CA

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**Cardiovascular Seminar**

**CVS.222**

**Cardiovascular Risk Prediction 2014: Beyond Risk Scores**

**SS05**
5:30 - 6:45 PM

**Moderator:**
Michael Blaha, Baltimore, MD

5:30 Which Subclinical Measures Improve Risk Prediction?
Joseph Yeboah, Winston-Salem, NC

5:45 CRP and Other Biomarkers in Risk Prediction
Paul M Ridker, Boston, MA

6:00 The Value of CAC Across the Risk Spectrum
Michael G Silverman, Boston, MA

6:15 Improving the CAC Score: Density and Beyond
Michael H Criqui, La Jolla, CA

6:30 CAC Versus CT Angiography in Risk Prediction
Matthew Budoff, Torrance, CA

---

**Cardiovascular Seminar**

**CVS.414**

**Brugada Syndrome and Arrhythmogenic Cardiomyopathy: Structure and Arrhythmias**

**S403**
5:30 - 6:45 PM

**Moderator:**
Gaetano Thiene, Padova, Italy

5:30 Molecular Basis of the Desmosome-Sodium Channel Interaction
Mario Delmar, New York, NY

5:45 Structure as an Arrhythmia Substrate in Brugada Syndrome
Arthur A M Wilde, Amsterdam, Netherlands

---

**Cardiovascular Seminar**

**CVS.518**

**Cellular and Molecular Targets to Promote Cardiac Regeneration**

**S405**
5:30 - 6:45 PM

**Moderators:**
Mark A Sussman, San Diego, CA
Jean-Sebastien Hulot, New York, NY

5:30 IGF1 Gene and Cell-Based Therapies
Nadia Rosenthal, Clayton, Australia

5:45 Aging of Cardiac Stem Cells
Toren Finkel, Bethesda, MD

6:00 PW1 Marker of Cell Cycle in Stem Cells
David Sassoon, Paris, France

6:15 Dedifferentiation of Cardiomyocytes
Thomas Braun, Bad Nauheim, Germany

6:30 PDGFR+ Cells in Cardiovascular Regeneration
Richard P Harvey, Darlinghurst, Australia
### Cardiovascular Seminar

**CVS.519**

**Challenging Cases in Heart Failure Care: Balancing Patient and Provider Perspectives**

- **S406b**
  - 5:30 - 6:45 PM
  - **Moderator:** Sara Paul, Hickory, NC
  - **5:30**
    - Cognitive Dysfunction in Heart Failure
    - Anna Stromberg, Linkoping, Sweden
  - **5:45**
    - Discontinuance of Device Therapy
    - Cynthia Dougherty, Seattle, WA
  - **6:00**
    - Sexual Dysfunction: Use of PDE5 Inhibitors with Nitrates
    - Robert Kloner, Los Angeles, CA
  - **6:15**
    - End-of-Life Discussions: Timing Is Everything
    - Debra Wiegand, Baltimore, MD
  - **6:30**
    - The Patient with Preserved Ejection Fraction: When Treatment Is Not Clear Cut
    - Nancy Albert, Cleveland, OH

**CVS.235.gc**

**Globalization of Health Data Networks to Improve Cardiovascular Health: Pressing Need or Pipe Dream?**

- **N227b**
  - 5:30 - 6:45 PM
  - **Moderators:**
    - John F Beltrame, Adelaide, Australia
    - Robert L McNamara, New Haven, CT
  - **5:30**
    - Global Cooperation in Cardiovascular Outcomes Assessment: What Is the Need?
    - Harlan M Krumholz, New Haven, CT
  - **5:45**
    - Barriers to Developing a Global Cardiovascular Health Data Network: Mission Impossible?
    - Valentin Fuster, New York, NY
  - **6:00**
    - Opportunities for International Standardization of Measurement to Enable Global CER
    - John F Beltrame, Adelaide, Australia
  - **6:15**
    - TBD
  - **6:30**
    - China PEACE: A Case Study in International Cooperation in Outcomes Research
    - Lixin Jiang, Beijing, China

**CVS.112**

**From Cardiovascular Development to Cardiac Regeneration: A Lesson from Evolution to Understand Heart Function and Disease**

- **S102a**
  - 5:30 - 6:45 PM
  - **Moderators:**
    - Deepak Srivastava, San Francisco, CA
    - Ciro Indolfi, Catanzaro, Italy
  - **5:30**
    - Signaling and Transcriptional Networks in Heart Development and Regeneration
    - Katherine E Yutzey, Cincinnati, OH
  - **5:49**
    - New Approaches Under Development: Cardiovascular Embryology Applied to Heart Disease
    - Luca Scorrano, Padua, Italy
  - **6:08**
    - Congenital and Diabetic Cardiomyopathy Models in Drosophila
    - Rolf Bodmer, La Jolla, CA
  - **6:27**
    - From Cardiovascular Development to Cardiac Reprogramming
    - Deepak Srivastava, San Francisco, CA

**CVS.112**

**Imaging in PAD: What’s on the Horizon?**

- **N230b**
  - 5:30 - 6:45 PM
  - **Moderators:**
    - Zahi Fayad, New York, NY
    - Christopher M Kramer, Charlottesville, VA
  - **5:30**
    - Optimal Imaging for Surgical Revascularization: The Choice Is Not Clear Cut
    - Louis Nguyen, Boston, MA
  - **5:45**
    - Nanoparticle Imaging in PAD: Ischemia Detection and Drug Delivery
    - Sanjay Misra, Rochester, MN
  - **6:00**
    - Inflammation Imaging in PAD: Finding the Hot Zone
    - Robin Choudhury, Oxford, United Kingdom
  - **6:15**
    - Imaging Stem Cell Therapy for Treatment of PAD: Where Do We Go from Here?
    - Dara L Kraitchman, Baltimore, MD
  - **6:30**
    - Q&A Discussion
Tuesday, November 18  •  Chicago, Illinois

**Cardiovascular Seminar**

**CVS.113**

**Imaging to Predict Progression/Reversibility of Functional and Structural Heart Disease**

S501
5:30 - 6:45 PM

**Moderator:**
Kiyoshi Yoshida, Okayama, Japan

5:30 **The Left Ventricle—Predicting Recovery of Function in Ischemic CMP**
Sharmila Dorbala, Boston, MA

5:45 **The Right Ventricle—Predicting Recovery of Function in Repaired TOF**
Cindy M Martin, Minneapolis, MN

6:00 **The Tricuspid Valve—Progression and Timing of Intervention in Functional TR**
Chisato Izumi, Tenn, Japan

6:15 **The Aorta in BAV—Detection and Progression of Aortopathy**
Malenka Bissell, Oxford, United Kingdom

6:30 **The Pericardium—Inflammation, Effusion and Progression to Constriction**
Namsik Chung, Seoul, Republic of Korea

**Cardiovascular Seminar**

**CVS.315**

**Long-Term Cardiovascular Toxicity After Cancer Therapy in Children and Young Adults: Challenges and Opportunities**

S102bc
5:30 - 6:45 PM

**Moderator:**
Julia Steinberger, Minneapolis, MN

5:30 **Epidemiology and Pathophysiology of Cardiovascular Toxicity**
Jacob Jacob Adams, Rochester, NY

5:45 **Presentation and Progression of Cardiovascular Toxicity**
Steven E Lipshultz, Detroit, MI

6:00 **Evidence for Screening and Monitoring of Cardiovascular Toxicity During and After Therapy**
Steven D Colan, Boston, MA

6:15 **Opportunities in Prevention and Management of Cardiovascular Toxicity**
Daphne T Hsu, Bronx, NY

6:30 **Premature Atherosclerotic Cardiovascular Disease**
Julia Steinberger, Minneapolis, MN

**Cardiovascular Seminar**

**CVS.413**

**Ischemic Conditioning and the Role of Gases in Cardiovascular Resuscitation**

S401a
5:30 - 6:45 PM

**Moderator:**
Terry Vanden Hoek, Chicago, IL

5:30 **Ischemic Conditioning with Sevoflurane**
Demetris Yannopoulos, Minneapolis, MN

5:45 **Ischemic Conditioning with Hydrogen Sulfide**
Frank Sellige, Providence, RI

6:00 **Ischemic Conditioning with Xenon**
Michael Fries, Aachen, Germany

6:15 **Ischemic Conditioning and the Role of Oxygen Tension**
Mark G Angelos, Columbus, OH

6:30 **Q&A Discussion**

**Cardiovascular Seminar**

**CVS.722**

**Management of Venous Thromboembolism: When Anticoagulation Alone Is Not Enough**

N227a
5:30 - 6:45 PM

**Moderator:**
Heather Gornik, Cleveland, OH

5:45 **Systemic Thrombolysis for Acute Pulmonary Embolism: Where Do Things Stand in 2014?**
Gregory Piazza, Boston, MA

6:00 **Catheter Directed Thrombolysis for Deep Vein Thrombosis: Does Current Evidence Support Clinical Implementation?**
Anthony Comerota, Toledo, OH

6:15 **Inferior Vena Cava Filters: Appropriate Use, Device Options and Retrieval**
TBD

6:30 **Q&A Discussion**
Cardiovascular Seminar

CVS.719

Mechanisms and Therapeutic Updates on Coagulation

S104
5:30 - 6:45 PM

Moderator:
Steven R Lentz, Iowa City, IA

5:30  Molecular Approaches to Improved Treatment Options for Hemophilia
Randal Kaufman, La Jolla, CA

5:45  Activity and Immunogenicity of Recombinant Factor VIIa Analogs
Steven R Lentz, Iowa City, IA

6:00  Anticoagulant Reversal Strategies
Mark Crowther, Hamilton, ON, Canada

6:15  Enhancing Homeostasis by Inhibiting Tissue Factor Pathway Inhibitor
Alan Mast, Milwaukee, WI

6:30  Q&A Discussion

Cardiovascular Seminar

CVS.111

Multidimensional Blood Flow Imaging

N231
5:30 - 6:45 PM

Moderator:
Victor A Ferrari, Philadelphia, PA

5:30  Essential Principles and Challenges
Gian Giorgio Pedrizzetti, Trieste, Italy

5:45  Heart Failure
Petter Dyverfeldt, Linkoping, Sweden

6:00  Heart Valve Disease
Xiaohui Zhou, Beijing, China

6:15  Aortic Disease
Michael Markl, Chicago, IL

6:30  Congenital Heart Disease
Christopher Francois, Madison, WI

Cardiovascular Seminar

CVS.110

Multimodality Imaging of Cardiac Stem Cells

N230a
5:30 - 6:45 PM

Moderator:
Jagat Narula, New York, NY

5:30  Overview of Cardiac Stem Cell Imaging
Joseph C Wu, Stanford, CA

5:45  Imaging Stem Cell–Induced Paracrine Factors
Jonathan Lindner, Portland, OR

6:00  Ultrasound Imaging of Stem Cells
Flordeliza Villanueva, Pittsburgh, PA

6:15  Radionuclide Imaging of Stem Cells
Lynne Johnson, New York, NY

6:30  Magnetic Resonance Imaging of Stem Cells
Jeff W Bulte, Baltimore, MD

Cardiovascular Seminar

CVS.723

Muscle Metabolism and Dysfunctions in Right Ventricular Dysfunctions with Pulmonary Hypertension

S103bc
5:30 - 6:45 PM

Moderators:
Bradley Maron, Boston, MA
John Ryan, Salt Lake City, UT

5:30  Altered Skeletal Muscle Metabolism and Function in PH
Frances de Man, Amsterdam, Netherlands

5:45  RV Contractile Failure in PH: Cause or Consequence of Skeletal Muscle Dysfunction
David M Systrom, Boston, MA

6:00  The Contribution of Skeletal Muscle Dysfunction to Exercise Pathophysiology in PH
Robert Naeije, Brussels, Belgium

6:15  Molecular Mechanisms of Skeletal Muscle Dysfunction in PH: In Support of a Pulmonary Circulatory-Skeletal Muscle Axis
John Granton, ON, Canada

6:30  Muscle Dysfunctions and Their Implications for Exercise Training
Abraham S Babu, Manipal, India

Cardiovascular Seminar

CVS.415

New Technologies in Pacing and Defibrillation

S401bcd
5:30 - 6:45 PM

Moderator:
Kristen Patton, Seattle, WA

5:30  Leadless Pacemakers
Petr Neuzil, Prague, Czech Republic

5:45  Subcutaneous ICD
Andrew Grace, United Kingdom

6:00  Left Ventricular Endocardial Pacing
Christophe Leclercq, Rennes, France

6:15  Wearable Cardioverter-Defibrillator
Mina Chung, Cleveland, OH
Cardiovascular Seminar

CVS.224

Recent Advances in HDL Therapies and HDL Function

S504
5:30 - 6:45 PM

Moderator: Kathryn J Moore, New York, NY

5:30 Novel Approaches for Studying HDL Function
Alan T Remaley, Bethesda, MD

5:45 rHDL Infusions: Beneficial or Not?
John J Kastelein, Amsterdam, Netherlands

6:00 Should HDL Be a Target in HIV?
Theodoros Kelesidis, Los Angeles, CA

6:15 Regulation of HDL Function by the HDL Proteome
Jay Heinecke, Seattle, WA

6:30 Q&A Discussion

Cardiovascular Seminar

CVS.521

The Alzheimer’s Theory of Heart Failure

S404a
5:30 - 6:45 PM

Moderators: Giulio Agnetti, Baltimore, MD Federica del Monte, Boston, MA

5:30 The Ubiquitin Proteasome System in the Heart
Monte Willis, Chapel Hill, NC

5:45 Cardiac Proteinopathy
Jeffrey Robbins, Cincinnati, OH

6:00 Desmin Modifications Are Associated with Amyloid Oligomers Formation in Heart Failure
Giulio Agnetti, Baltimore, MD

6:15 Cardiac Toxicities of Amyloid Proteins
Ronglih Liao, Boston, MA

6:30 Amyloid Aggregates Formation in Idiopathic Dilated Cardiomyopathy
Federica del Monte, Boston, MA

Cardiovascular Seminar

CVS.721

Stroke Risk in CKD

S105abc
5:30 - 6:45 PM

Moderator: Jeffrey Perl, Toronto, ON, Canada

5:30 Anticoagulant Safety in CKD
Ziv Harel, Toronto, ON, Canada

5:45 Modulation of Stroke Risk in CKD
Charles Ferro, Birmingham, United Kingdom

6:00 ARISTOTLE: Throw Light on Novel Anticoagulation in Renal Dysfunction
Stefan H Hohnloser, Frankfurt, Germany

6:15 CKD Is a Major Risk Factor for Cardiovascular Disease and Stroke
Paul Muntrier, Birmingham, AL

6:30 Statins for Stroke Risk Reduction in Renal Dysfunction
TBD

Cardiovascular Seminar

CVS.720

The Pressures of Aging

S103a
5:30 - 6:45 PM

Moderators: George Bakris, Chicago, IL Raymond Townsend, Philadelphia, PA

5:30 Nondipping Comes of Age
Ramon C Hermida, Vigo, Spain

5:45 The Long and Winding Road of Arterial Stiffness
Majd AlGhatrif, Baltimore, MD

6:00 Salt and Senility
Charles DeCarli, Davis, CA

6:15 Dealing with Life’s Peaks and Valleys
Cyndya A Shibao, Nashville, TN

6:30 Hypertension Guidelines and the Elderly: “To Treat or Not to Treat”
George Bakris, Chicago, IL
Cardiovascular Seminar

CVS.520

The Right Side of Heart Failure, Pulmonary Vascular Disease

S406a
5:30 - 6:45 PM

Moderator:
Roham Zamanian, Stanford, CA

5:30 Imaging Right Ventricular Function to Guide Management
Carlos E Rochitte, São Paulo, Brazil

5:45 How Does RV Dysfunction Influence the Management of Heart Failure Patients?
Francois Haddad, Stanford, CA

6:00 Targeted Right-Heart Therapy in Pulmonary Arterial Hypertension: Is There a Role for Beta-Blockade Therapy, Metabolic Modulation and Pacing?
Harm Bogaard, Amsterdam, Netherlands

6:15 Congenital Heart Disease and the Right Ventricle
Reda Ibrahim, Montreal, QC, Canada

6:30 Mechanical and Surgical Options for RV Heart Failure
Olaf Mercier, Le Plessis Robinson, France

Cardiovascular Seminar

CVS.223

Women: Cardiovascular Disease Across the Life Span

S503
5:30 - 6:45 PM

Moderator:
Martha Gulati, Chicago, IL

5:30 Complications of Pregnancy and the Impact on Future Cardiovascular Health
Janet M Catov, Pittsburgh, PA

5:45 Cardiovascular Prevention in Women
Karol E Watson, Los Angeles, CA

6:00 Gender Differences in the Self-Management of Cardiovascular Disease
Barbara J Riegel, Philadelphia, PA

6:15 Getting the Message Out to Women: Is the Red Dress Enough?
Marie D Gerhard-Herman, Boston, MA

6:30 Q&A Discussion
Top 3 Career-Enhancing Benefits of AHA/ASA Professional Membership

1. Save on Scientific Sessions and the Application Fee for Research Funding

As a member, you receive registration discounts for AHA conferences.
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Learning at the Movies

CASE THEATERS

Attend 45-Minute Live Presentations of recorded cases by experts in procedures such as structural heart disease, vascular surgery, VAD + transplant, electrophysiology, TAVR, and heart failure management.

Each presentation is accompanied by panel discussion and audience response.

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<thead>
<tr>
<th>Title</th>
<th>Presenter</th>
<th>Time/Location</th>
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<tr>
<td>Coronary Case</td>
<td>Adhir Shroff, Chicago, IL</td>
<td>Sunday, Nov. 16 3:00–3:45 PM</td>
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<tr>
<td>Structural Heart Disease: Residual Problem After Mitraclip</td>
<td>Srihari Naidu, Mineola, NY</td>
<td>Sunday, Nov. 16 4:00–4:45 PM</td>
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<tr>
<td>PAD/Vascular Surgery: Retrograde Pedal Access Case</td>
<td>Dawn Abbott, Providence, RI</td>
<td>Monday, Nov. 17 2:00–2:45 PM</td>
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<td>VAD + Transplant: VAD Clot/Dysfunction</td>
<td>Navin Kapur, Boston, MA</td>
<td>Monday, Nov. 17 3:00–3:45 PM</td>
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<tr>
<td>Electrophysiology: Complex VT Ablation</td>
<td>Elad Anter, Boston, MA</td>
<td>Tuesday, Nov. 18 10:00–10:45 AM</td>
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<tr>
<td>TAVR: Paravalvular Leak After TAVR</td>
<td>John Resar, Baltimore, MD</td>
<td>Tuesday, Nov. 18 11:00–11:45 AM</td>
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<tr>
<td>Heart Failure Management</td>
<td>Robb Kociol, Boston, MA</td>
<td>Tuesday, Nov. 18 1:00–1:45 PM</td>
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New in 2014!
Prevention Case Theaters:
Application of 2013 ACC/AHA Cholesterol Guidelines

Primary and secondary prevention cases presented and discussed by our panel experts with opportunities for audience interaction and comment.

Moderator: Jennifer G. Robinson, Iowa City, IA
Panel: Donald M. Lloyd-Jones, Chicago, IL
        Neil J. Stone, Chicago, IL
        Vera Bittner, Birmingham, AL
        Clyde W. Yancy Jr., Chicago, IL

Monday, Nov. 17, 4:00–6:00 PM

JOIN US in South Hall A1, Booth 1676!
Global Congress: Harnessing the Power of Big Data – Bench-to-Bedside, to Population

This exciting four-day series of seminars and how-to sessions, occurring within Scientific Sessions 2014, will bring together leading experts from around the world on the application of big data science in basic, translational, genomic, clinical, population, quality and outcomes science.

Participants and attendees will hear state-of-the-art information on big data science for understanding disease mechanisms, epidemiological determinants and practice for the accelerated improvement in the prevention, treatment and clinical care of cardiovascular disease on a global scale. The importance of the collection, analysis and leveraging of large scale data resources across the world will be addressed.

Global Congress programming spans Saturday through Tuesday. You DO NOT want to miss the featured sessions below including the Opening Session on Sunday, Nov. 16th.

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<tr>
<th>Title</th>
<th>Date</th>
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<tr>
<td>Harnessing the Power of Big Data: Bench to Bedside to Population</td>
<td>Sunday, Nov. 16</td>
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<td>Ethics and Governance of Big Data Collections for Research and Clinical Care</td>
<td>Monday, Nov. 17</td>
<td>10:45 AM–12 PM</td>
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<tr>
<td>Harnessing Big Data for Precision and Personalized Medicine</td>
<td>Monday, Nov. 17</td>
<td>2–3:15 PM</td>
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<tr>
<td>Harnessing Big Data for Fundamental Discovery of Novel Targets and Mechanistic Insight</td>
<td>Tuesday, Nov. 18</td>
<td>10:45–12 PM</td>
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<tr>
<td>Lifecycle of Big Data – Origins, Applications and Opportunities</td>
<td>Tuesday, Nov. 18</td>
<td>2–3:15 PM</td>
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All Global Congress sessions will be featured in the Global Congress Room S100c.
Heart Disease and Stroke Statistics—2014 Update

Statistics at Your Fingertips

The Most Frequently Cited Cardiovascular and Stroke Stats Reference—the AHA Statistical Update. As Your Primary Source, You Can Trust It Is:

1 RESPECTED AND RELIABLE.

Every year, the AHA, CDC, NIH, and other government agencies work together to conduct a systematic review of the most current national data available on heart disease, stroke, and other vascular diseases and present their findings in this single annual report.

2 DOCUMENTED, CURRENT, “MUST KNOW” INFORMATION.

The report lists the most important sources and the types of data it uses to derive its conclusions, providing a valuable resource for researchers, clinicians, healthcare policy makers, media professionals, the public, and others who seek the most current national data available on disease morbidity, mortality, and risks; quality of care; medical procedures and operations; and costs associated with the management of these diseases.

3 ENLIGHTENING AND INFORMATIVE.

Despite decreases in heart disease and stroke mortality, the burden of disease remains high. The 2014 Statistical Update is a major source for monitoring both cardiovascular health and disease in the population, with a focus on progress toward the American Heart Association’s 2020 Impact Goals.

Visit circ.ahajournals.org/site/misc/StatUpdate.xhtml to link to the full-text article.
Take Sessions Home with You

Pick up your complimentary copy of the Abstracts on Disc in the Science & Technology Hall, Booth 659. Supported by Janssen Pharmaceuticals.
Concerned about Heart Failure Readmissions?

Look to The American Heart Association/American Stroke Association and The Joint Commission as your guide for improved patient outcomes.

Get With The Guidelines® prepares hospital teams for the next step: Advanced Certification in Heart Failure. If your hospital has achieved an award level in Get With The Guidelines®-Heart Failure, your team has met many of the qualifications for certification.

Start your journey with Get With The Guidelines®-Heart Failure

Then achieve award level status (bronze level or higher)

Then use your award level status as a fulfilled requirement to achieve Advanced Certification in Heart Failure

For more information, contact DSCinfo@jointcommission.org or call (630) 792-5291.

www.jointcommission.org/AdvCertHF
The American Heart Association/American Stroke Association’s program that helps hospital teams consistently provide the most up-to-date evidence-based treatment for in-hospital resuscitation.

Heart.org/Resuscitation
When heart rhythms get out of control, healthcare costs do too.

Patients with atrial fibrillation (AFib) are hospitalized twice as often as non-AFib patients, with three times the rate of multiple hospitalizations. No wonder studies show a significantly higher average inpatient services cost for AFib patients.

With the prevalence of AFib on the rise, Get With The Guidelines®-AFIB can help you meet the challenge.

It’s a quality improvement program designed to help hospitals consistently apply the latest evidence-based treatment guidelines for AFib patients. The goal is quality AFib care and prevention of related conditions such as stroke and heart failure.

Learn how Get With The Guidelines®-AFIB can help hospitals prepare for the growing number of AFib cases at Heart.org/FocusOnAFib.
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<td>Results of ODYSSEY</td>
<td>496</td>
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<td>7:30-8:45</td>
<td>CVS.416</td>
<td>Arrhythmia Management in Patients with Implantable Defibrillators</td>
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<td>Cardiovascular Imaging in Women</td>
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<td>Leveraging Our Joint Expertise: Lessons from Pediatric Cardiology Collaboratives</td>
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<td>More Efficient, Higher-Quality Care of Cardiology Patients: Using Nurse Practitioners</td>
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<td>New Concepts in Renin-Angiotensin-Aldosterone Activation</td>
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<td>Novel Insights into Vasodilation in Health and Diseases: What Can Human Vasculature Teach Us?</td>
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<td>The Evolving Role of Biomarkers in Heart Failure</td>
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<td>To Err Is Human: How to Optimize Patient Safety in Children Undergoing Cardiac Procedures</td>
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<td>Understanding Genomics: Translational Primer</td>
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**Clinical Science: Special Reports**

**Results of ODYSSEY**

CS.05

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**Moderators:**
Anne C Goldberg, St Louis, MO
David C Goff Jr., Aurora, CO

**Panel Participants:**

7:15 **State of the Art: The Odyssey Trials**
Amit Khera, Dallas, TX

7:30 **Efficacy and Safety of Combining Alirocumab With Atorvastatin or Rosuvastatin versus Statin Intensification or Adding Ezetimibe in High Cardiovascular Risk Patients: ODYSSEY OPTIONS I and II**
Harold Bays, Louisville, KY

7:35 **ODYSSEY HIGH FH: Efficacy and Safety of Alirocumab in Patients With Severe Heterozygous Familial Hypercholesterolemia**
Henry N Ginsberg, New York, NY

7:40 **Efficacy and Safety of Alirocumab in High Cardiovascular Risk Patients With Suboptimally Controlled Hypercholesterolemia on Maximally Tolerated Doses of Statins: The ODYSSEY COMBO I Study**
Dean J Kereiakes, Cincinnati, OH

7:45 **Long-term Safety, Tolerability and Efficacy of Alirocumab versus Placebo in 2,341 High Cardiovascular Risk Patients: ODYSSEY LONG TERM**
Jennifer G Robinson, Iowa City, IA

7:50 **Challenges of Surrogate Outcomes**
Michael Pencina, Durham, NC

7:57 **Panel Discussion to include Moderators and Panelists**
Panel Participants:
Joshua Knowles, Stanford, CA
Raul Santos, São Paulo, Brazil

**Ask the Experts**

ATE.105

**Imaging Cardiomyopathy**

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**Moderator:**
Raymond Kwong, Boston, MA

7:30 **DCM**
Chi Young Shim, Seoul, Republic of Korea

7:45 **Cardiac Amyloid**
Venkateswar Polsani, Atlanta, GA

8:00 **Stress CMP**
Bijoy K Khandheria, Milwaukee, WI

8:15 **Ventricular Noncompaction**
Allan Klein, Cleveland, OH

8:30 **Q&A Discussion**

Panel Participants:
Clerio Azevedo, Rio de Janeiro, Brazil
Andrew Arai, NIH, Bethesda, MD

**Ask the Experts**

ATE.407

**More Efficient, Higher-Quality Care of Cardiology Patients: Using Nurse Practitioners**

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**Moderator:**
Karen S Yehle, West Lafayette, IN

7:30 **Update on the IOM Report: Using Nurse Practitioners Appropriately**
Liana Orsolini, Marriottsville, MD

7:45 **Group Appointments in Cardiology Private Practice**
Sara Paul, Hickory, NC

8:00 **Nurse Practitioner–Led Atrial Fibrillation Cardioversion Clinic**
Angela Tisperfal, Stanford, CA

8:15 **Nurse Practitioner–Led TAVR Clinic**
Charlene Shallow, Springfield, IL

8:30 **Q&A Discussion**
**Ask the Experts**

**ATE.505**

**The Evolving Role of Biomarkers in Heart Failure**

**S406a**  
7:30 - 8:45 AM

**Moderator:**  
Stefan Blankenberg, Hamburg, Germany

7:30 **Use of Biomarkers for Diagnosis and Prognosis in HF: Role of Natriuretic Peptide, hs-Troponin and ST-2**  
William F Peacock IV, Houston, TX

7:45 **Biomarker-Guided Heart Failure Management: Chronic Heart Failure**  
James Januzzi, Boston, MA

8:00 **Biomarker-Guided Heart Failure Care: Acute Heart Failure**  
Alan S Maisel, Del Mar, CA

8:15 **The Role of Biomarkers in Cardiorenal Syndrome: Hope or Hype?**  
Serge Masson, Milan, Italy

8:30 **Q&A Discussion**

**ATE.307**

**To Err Is Human: How to Optimize Patient Safety in Children Undergoing Cardiac Procedures**

**S102d**  
7:30 - 8:45 AM

**Moderators:**  
Melissa E Jones, Washington, DC  
Mary Rummel, Portland, OR

7:30 **Safety in the Operating Room**  
James E O Brien, Kansas City, MO

7:45 **OR to ICU to Floor: Promoting Patient Safety During Cardiac Handoffs**  
Dorothy Beke, Boston, MA

8:00 **Patient Safety in the Pediatric Catheterization and EP Lab**  
Sharon L Cheatham, Columbus, OH

8:15 **Medical Errors: Minimizing Chances, Admitting Mistakes**  
Lisa Hom, Washington, DC

8:30 **Safety Issues in Caring for Adults with CHD in Children’s Hospitals**  
David Drajpuch, Philadelphia, PA

**Ask the Experts**

**ATE.104**

**The Utility of Imaging for Predicting the Patient at Risk**

**N230a**  
7:30 - 8:45 AM

**Moderator:**  
Arthur Stillman, Atlanta, GA

7:30 **The Role of Ultrasound**  
Joseph Polak, Boston, MA

7:45 **The Role of Cardiac CT**  
Karin Dill, Chicago, IL

8:00 **The Role of Cardiac MRI**  
David A Bluemke, Bethesda, MD

8:15 **The Role of Nuclear Imaging**  
Lawrence Phillips, New York, NY

8:30 **Panel Participant**  
Leon Axel, NYU Sch of Med, New York, NY

8:30 **Panel Participant**  
Vincent B Ho, Uniform Services Univ Hlth Sci, Bethesda, MD

**Cardiovascular Seminar**

**CVS.416**

**Arrhythmia Management in Patients with Implantable Defibrillators**

**S402**  
7:30 - 8:45 AM

**Moderator:**  
James Daubert, Durham, NC

7:30 **Prognostic Significance of Spontaneous Arrhythmias in ICD Patients**  
Jeanne Poole, Seattle, WA

7:45 **Programming to Reduce ICD Shocks**  
Kenneth A Ellenbogen, Richmond, VA

8:00 **The Role of Catheter Ablation for Ventricular Tachycardia**  
Roderick Tung, Los Angeles, CA

8:15 **Autonomic Modulation**  
Kalyanam Shivkumar, Los Angeles, CA

8:30 **The Last Resort: The Role of LVADs and Transplantation**  
Garrick Stewart, Boston, MA
### Cardiovascular Seminar

**CVS.226**

**Cardiovascular Disease in Type 1 Diabetes: Current Knowledge and Controversies**

- **S505**
  - **7:30 - 8:45 AM**
  - **Moderator:**
    - Robert H Eckel, Aurora, CO
  - **7:30**
    - Epidemiology of Type 1 Diabetes in Children and Young Adults
      - Janet Snell-Bergeon, Aurora, CO
  - **7:45**
    - Childhood Predictors of Adult Cardiovascular Disease in Type 1 Diabetes
      - Shideh Majidi, Aurora, CO
  - **8:00**
    - Epidemiology and Pathophysiology of Cardiovascular Disease in Type 1 Diabetes: A Life Course Perspective
      - Julia Steinberger, Minneapolis, MN
  - **8:15**
    - Trials of Cardiovascular Risk Reduction in Type 1 Diabetes: Lessons from the DCCT
      - Deborah Wexler, Boston, MA
  - **8:30**
    - Assessment and Management of Cardiovascular Risk Factors in Children with Type 1 Diabetes
      - Sarah De Ferranti, Boston, MA

### Cardiovascular Seminar

**CVS.726**

**Effects of Obstructive Sleep Apnea on Cardiac Anatomy and Physiology**

- **S104**
  - **7:30 - 8:45 AM**
  - **Moderator:**
    - Gregg S Pressman, Philadelphia, PA
  - **7:30**
    - Acute Changes in Cardiac Physiology During Obstructive Apnea
      - Gregg S Pressman, Philadelphia, PA
  - **7:45**
    - Autonomic Consequences of OSA and Effects on Systemic and Pulmonary Vasculature
      - Virend K Somers, Rochester, MN
  - **8:00**
    - Anatomical Changes in OSA and Interactions with Obesity
      - Abel Romero-Corral, Philadelphia, PA
  - **8:15**
    - Obstructive Sleep Apnea Promotes Arrhythmias
      - Sumeet Mainigi, Philadelphia, PA
  - **8:30**
    - Q&A Discussion

### Cardiovascular Seminar

**CVS.114**

**Cardiovascular Imaging in Women**

- **N226**
  - **7:30 - 8:45 AM**
  - **Moderator:**
    - Gautham P Reddy, Seattle, WA
  - **7:30**
    - CT for the Evaluation of Coronary Artery Disease
      - Jill Jacobs, New York, NY
  - **7:45**
    - MRI for Myocardial Infarction
      - Gautham P Reddy, Seattle, WA
  - **8:00**
    - Cardiovascular Imaging in Pregnancy
      - Diana Litmanovich, Boston, MA
  - **8:15**
    - SPECT and PET in Women
      - Miguel Pampaloni, San Francisco, CA
  - **8:30**
    - Q&A Discussion

### Cardiovascular Seminar

**CVS.225**

**Emerging Gender Science in Cardiovascular Disease**

- **S502**
  - **7:30 - 8:45 AM**
  - **Moderator:**
    - Holli A DeVon, Chicago, IL
  - **7:30**
    - Sex/Gender Differences in the Prevention of Cardiovascular Disease
      - Nanette Wenger, Atlanta, GA
  - **7:45**
    - Gender-Specific Warning Signs of Acute Myocardial Infarction
      - Jean C McSweeney, Little Rock, AR
  - **8:00**
    - Gender Differences in the Self-Management of Cardiovascular Disease
      - Christopher S Lee, Portland, OR
  - **8:15**
    - Critical Gender Differences in Heart Failure
      - Anna Stromberg, Linköping, Sweden
  - **8:30**
    - Are There Gender Differences in Symptoms of Atrial Fibrillation?
      - Simon Stewart, Melbourne, Vic, Australia
### Cardiovascular Seminar

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>CVS.116</td>
<td>Extreme Multimodality Imaging</td>
<td>7:30 - 8:45 AM</td>
<td>Uma Valeti, Minneapolis, MN</td>
</tr>
<tr>
<td>CVS.115</td>
<td>Imaging Cancer Cardiovascular Toxicity</td>
<td>7:30 - 8:45 AM</td>
<td>Linda D Gillam, Morristown, NJ</td>
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<tr>
<td>CVS.523</td>
<td>How to Engineer Heart with or Without a Scaffold</td>
<td>7:30 - 8:45 AM</td>
<td>Wolfram H Zimmermann, Göttingen, Germany; Jianyi Zhang, Minneapolis, MN</td>
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<tr>
<td>CVS.725</td>
<td>Inflammation in Obesity and Diabetes</td>
<td>7:30 - 8:45 AM</td>
<td>Kathryn J Moore, New York, NY</td>
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<tr>
<td>CVS.116</td>
<td>Cardiovascular Seminar</td>
<td>7:45</td>
<td>Paaladinesh Thavendiranathan, Toronto, ON, Canada</td>
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<tr>
<td>CVS.115</td>
<td>Cardiovascular Seminar</td>
<td>8:00</td>
<td>Marielle Scherrer-Crosbie, Boston, MA</td>
</tr>
<tr>
<td>CVS.116</td>
<td>Cardiovascular Seminar</td>
<td>8:15</td>
<td>Bernard Cosyns, Brussels, Belgium</td>
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<tr>
<td>CVS.115</td>
<td>Cardiovascular Seminar</td>
<td>8:30</td>
<td>Maurizio Galderisi, Naples, Italy</td>
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<tr>
<td>CVS.724</td>
<td>Issues and Dilemmas in Stroke Survivor Transitions</td>
<td>7:30</td>
<td>Elaine T Miller, Cincinnati, OH</td>
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<tr>
<td>CVS.116</td>
<td>Cardiovascular Seminar</td>
<td>7:45</td>
<td>Yaniv Fisman, Toronto, ON, Canada</td>
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<tr>
<td>CVS.115</td>
<td>Cardiovascular Seminar</td>
<td>8:00</td>
<td>Andrew J Black, Boston, MA</td>
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<tr>
<td>CVS.116</td>
<td>Cardiovascular Seminar</td>
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<td>Paul Maroko, Pittsburgh, PA</td>
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<tr>
<td>CVS.115</td>
<td>Cardiovascular Seminar</td>
<td>8:30</td>
<td>Q&amp;A Discussion</td>
</tr>
</tbody>
</table>
## Cardiovascular Seminar

### CVS.317

#### Leveraging Our Joint Expertise: Lessons from Pediatric Cardiology Collaboratives

- **S102bc**
  - **7:30 - 8:45 AM**
  - **Moderators:**
    - Kathryn Taubert, Geneva, Switzerland
    - Wolfgang K Radtke, Wilmington, DE
  - **7:30**
    - Pediatric Heart Network: Challenges and Where Do We Go from Here?
    - Kristin M Burns, Bethesda, MD
  - **7:45**
    - Joint Council on Congenital Heart Disease: Growth and New Directions
    - John D Kugler, Omaha, NE
  - **8:00**
    - New England Congenital Cardiology Association: Grassroots Lessons from Collaboration to Publication
    - Naomi Gauthier, Dover, NH
  - **8:15**
    - Congenital Cardiac Catheterizations Outcomes Project C3PO and IMPACT Registries: Complexity and Success
    - Lisa Bergersen, Boston, MA
  - **8:30**
    - International Registries of Congenital and Acquired Heart Disease in the Young
    - Andrea Beaton, Washington, DC

### CVS.522

#### Management of Special Etiologies of Heart Failure

- **S405**
  - **7:30 - 8:45 AM**
  - **Moderator:**
    - Robert J Mentz, Durham, NC
  - **7:30**
    - Acute Myocarditis
    - Michael Bohm, Homburg, Germany
  - **7:45**
    - Cardiac Sarcoidosis
    - William Henry Sauer, Aurora, CO
  - **8:00**
    - Cardiac Amyloidosis
    - Ronald Witteles, Stanford, CA
  - **8:15**
    - Other Really, Really Rare Cardiomyopathies
    - Stuart Russell, Baltimore, MD
  - **8:30**
    - Q&A Discussion

## Cardiovascular Seminar

### CVS.525

#### New Concepts in Renin-Angiotensin-Aldosterone Activation

- **S404a**
  - **7:30 - 8:45 AM**
  - **Moderators:**
    - Anastasia S Mihailidou, Sydney, Australia
    - Bradley Maron, Boston, MA
  - **7:30**
    - Aldosterone Modulates Vascular Remodeling and Right-Heart Failure in Pulmonary Hypertension
    - Jane A Leopold, Boston, MA
  - **7:43**
    - RV Functional Impairment and Renin-Angiotensin Activation in Pulmonary Hypertension
    - Frances de Man, Amsterdam, Netherlands
  - **7:55**
    - Aldosterone, Cardiometabolic Syndrome and Hypertension
    - Anastasia S Mihailidou, Sydney, Australia
  - **8:08**
    - AT1 Receptor Activation by Shear Stress: G-Protein Dependent and Independent Mechanisms
    - Jose Krieger, São Paulo, Brazil
  - **8:20**
    - RAAS Activation and Immune-Mediated Disease
    - Ernesto Schiffrin, Montreal, QC, Canada
  - **8:33**
    - Diabetic Retinopathy: Current and Potential Treatment Strategies
    - Daniel Polya, Sydney, Australia

### CVS.727

#### Novel Insights into Vasodilation in Health and Diseases: What Can Human Vasculature Teach Us?

- **S103d**
  - **7:30 - 8:45 AM**
  - **Moderators:**
    - Andreas M Beyer, Milwaukee, WI
    - Harald M Stauss, Iowa City, IA
  - **7:30**
    - Effect of Exercise on Mechanism of Endothelium-Dependent Dilation
    - Shane Phillips, Chicago, IL
  - **7:45**
    - Autonomic Control of the Cardiovascular System Comparing Human and Animal Models
    - Harald M Stauss, Iowa City, IA
8:00 Telomere Uncapping Induces Cellular Senescence and Inflammation in Arteries: Implications for Hypertension and Advancing Aging
  Anthony Donato, Salt Lake City, UT

8:15 Role of Mitochondria in Vascular Endothelial Dysfunction in Humans with Type 2 Diabetes
  Michael Widlansky, Milwaukee, WI

8:30 Q&A Discussion

Cardiovascular Seminar
CVS.524
SR/ER Protein Quantity and Quality Control in the Heart
S404bcdc
7:30 - 8:45 AM
Moderators:
  Ivor Benjamin, Milwaukee, WI
  Christopher Glembotski, San Diego, CA

7:30 Sarcoplasmic Reticulum Volume Loss After Serca2 Knockout
  Geir Christensen, Oslo, Norway

7:45 NOX4 Activation by Energy Stress in the ER of Cardiac Myocytes
  Junichi Sadoshima, Newark, NJ

8:15 Selective Regulation of Cyclic Nucleotide Phosphodiesterase PDE3A Isoforms
  Matthew A Movsesian, Salt Lake City, UT

8:30 ER Stress as a Therapeutic Target for Heart Disease
  Federica del Monte, Boston, MA

Cardiovascular Seminar
CVS.316
Understanding Genomics: Translational Primer
S102a
7:30 - 8:45 AM
Moderator:
  Mariann Piano, Chicago, IL

7:30 Understanding Genomics
  Kathy Sparbel, Chicago, IL

7:49 The Genetic Laboratory: The Mystery of the Bench
  Susan Dorsey, College Park, MD

8:08 Epigenetics: The Link Between Environment and Genes
  Karen Saban, Maywood, IL

8:27 Channelopathies and Cardiomyopathies
  Kathleen T Hickey, New York, NY

Cardiovascular Seminar
CVS.318
State-of-the-Art Clinical Applications of Cardiovascular Pharmacogenomics
S101
7:30 - 8:45 AM
Moderator:
  Alan R Shuldiner, Baltimore, MD

7:30 Translating Pharmacogenomics Research Findings into Clinical Practice
  Alan R Shuldiner, Baltimore, MD

7:49 Pharmacogenetic Testing and Guidelines on Oral Antithrombotics
  William Baker, Storrs, CT

8:08 Implications of Pharmacogenomics in the Management of Hypertension
  Donna K Arnett, Birmingham, AL

8:27 Clinical Application of Pharmacogenetic Testing to Prevent Arrhythmias
  Elijah R Behr, London, United Kingdom

Cardiovascular Seminar
CVS.417
Ventricular Tachycardia: Advanced Diagnosis and Management
S403
7:30 - 8:45 AM
Moderator:
  Walter K Clair, Nashville, TN

7:30 Coronary Artery Disease and Nonischemic Cardiomyopathy
  Srinivas Dukkipati, New York, NY

7:45 Ventricular Tachycardia in the Absence of Structural Heart Disease
  Nitish Badhwar, San Francisco, CA

8:00 Congenital Heart Disease
  Katja Zeppenfeld, Leiden, Netherlands

8:15 Last Resorts: Transcoronary Ethanol Ablation, Surgery and Autonomic Modulation
  Usha Tedrow, Boston, MA

8:30 Q&A Discussion
Abstract Oral Session

**AOS.407.01**

**Cardiac Rhythm Devices: Novel Technologies, Novel Uses**

**S401bcd**
9:00 - 10:15 AM

**Moderators:**
Rachel J Lampert, New Haven, CT
Yong-mei Cha, Rochester, MN
Valentina Kutyla, Univ of Rochester, Rochester, NY
Jeffrey Alexis, Univ of Rochester, Rochester, NY

9:00 **Implantable Cardioverter Defibrillator Does Not Impact Clinical Outcome in Left Ventricular Assist Device Patients**
Valentina Kutyla, Univ of Rochester, Rochester, NY
Jeffrey Alexis, Univ of Rochester, Rochester, NY

9:10 **Q&A Discussion**

9:15 **Ventricular Tachycardia in Patients with Continuous Flow Left Ventricular Assist Devices: A Single Center Experience**
Poojita Shivamurthy, Hartford Hosp, Univ of Connecticut Health Ctr, Hartford, CT
Jeffrey Kluger, Hartford Hosp, Univ of Connecticut Health Ctr, Hartford, CT

9:25 **Q&A Discussion**

9:30 **Chronic Performance of a Leadless Cardiac Pacemaker: Single Center 18-Month Follow-Up Results**
Fleur V.Y Tjong, Academic Medical Ctr, Amsterdam, Netherlands
Reinoud E Knops, Academic Medical Ctr, Amsterdam, Netherlands

9:40 **Q&A Discussion**

9:45 **Admittance to Detect Alteration in Cardiac Hemodynamics with an Implanted Commercial Right Ventricular AICD Leads**
Sandeep Sagar, Univ of Texas Health Science Ctr San Antonio, San Antonio, TX
Marc D Feldman, Univ of Texas Health Science Ctr San Antonio, San Antonio, TX

9:55 **Q&A Discussion**

10:00 **The Critical Role of Cardiovascular Implantable Electronic Device Interrogation at Autopsy: A 5 Year Review of the Johns Hopkins Post-mortem CIED Registry**
Sunil K Sinha, Johns Hopkins Univ Sch of Med, Baltimore, MD
Joseph E Marine, Johns Hopkins Univ Sch of Med, Baltimore, MD

10:10 **Q&A Discussion**

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**AOS.502.02**

**Cell and Tissue Engineering Strategies for Heart Failure**

**S402bcd**
9:00 - 10:15 AM

**Moderators:**
Erik Suuronen, Ottawa, ON, Canada
Philippe Menasche, Paris, France

9:00 **Injectable Collagen-based Hydrogel Matrix Modulates Micro-RNA Expression and Prevents Cardiac Deterioration Post-myocardial Infarction**
Nick JR Blackburn, The Univ of Ottawa Heart Inst, Ottawa, ON, Canada
Erik J Suuronen, The Univ of Ottawa Heart Inst, Ottawa, ON, Canada

9:10 **Q&A Discussion**

9:15 **Transendocardial CD34+ Cell Transplantation Improves Left Ventricular Segmental Wall Motion in Patients With Ischemic Cardiomyopathy**
Gregor Poglajen, UMC Ljubljana, Ljubljana, Slovenia
Bojan Vrtovec, UMC Ljubljana, Ljubljana, Slovenia

9:25 **Q&A Discussion**

9:30 **Preventing Allogeneic Immune Rejection by Transplanting MHC-homo Induced Pluripotent Stem Cell-derived Cardiomyocytes to an MHC-matched non-Human Primate**
Takui Kawamura, Osaka Univ Graduate Sch of Med, Osaka, Japan
Yoshiki Sawa, Osaka Univ Graduate Sch of Med, Osaka, Japan

9:40 **Q&A Discussion**

9:45 **Intracoronary Delivery of Exosomes Secreted by Cardiosphere-Derived Cells Confers Cardioprotection wWth Delayed Administration After Ischemia-Reperfusion Injury in Rats**
Geoffrey de Couto, Cedars-Sinai Medical Ctr, Los Angeles, CA
Eduardo Marbán, Cedars-Sinai Medical Ctr, Los Angeles, CA

9:55 **Q&A Discussion**

10:00 **Safety and Efficacy of Intracoronary Hypoxia-Preconditioned Bone Marrow Mononuclear Cells Administration for Acute Myocardial Infarction Patients**
Xin Yang Hu, Second Affiliated Hosp, Zhejiang Univ Coll of Med, Hangzhou, China
Hung-Fat Tse, Second Affiliated Hosp, Zhejiang Univ Coll of Med, Hangzhou, China

10:10 **Q&A Discussion**
### Abstract Oral Session

#### AOS.402.01

**Cellular Electrophysiology and Excitation-Contraction Coupling**

**S402**

9:00 - 10:15 AM

**Moderators:**

Stéphane Hatem, Paris, France  
Timothy J Kamp, Madison, WI

9:00 **Cell-Specific Expression of Voltage-Sensitive Protein Confirms Cardiac Myocyte to Non-Myocyte Electrotonic Coupling in Healed Murine Infarct Border Tissue**

*T Alexander Quinn*, Dalhousie Univ, Halifax, NS, Canada  
Peter Kohl, Imperial Coll London, Harefield, United Kingdom

9:10 Q&A Discussion

9:15 **Elevated [Na+]i in Cardiac Myocytes from Diabetic Rats Due to Enhanced Na+ - Glucose Cotransport**

*Sanda Despa*, Univ of Kentucky, Lexington, KY

9:25 Q&A Discussion

9:30 **Inducible Cardiomyocyte-Specific Deletion of Stromal Interaction Molecules Results in Cardiomyopathy in Mice**

*Salvatore Mancarella*, Univ of Tennessee Health Science Ctr, Memphis, TN

9:40 Q&A Discussion

9:45 **AMP-Activated Protein Kinase Response to Metabolic Stress: A Novel Determinant of Atrial Fibrillation Progression**

*Masahide Harada*, Montreal Heart Inst, Univ de Montréal, Montreal, QC, Canada  
Stanley Nattel, Montreal Heart Inst, Univ de Montréal, Montreal, QC, Canada

9:55 Q&A Discussion

10:00 **Inositol-1,4,5-Trisphosphate-Mediated Pacemaker Activity in NCX KO Mouse Sinoatrial Nodal Cells**

*Nidhi Kapoor*, Cedars-Sinai Medical Ctr, Los Angeles, CA  
Joshua J Goldhaber, Cedars-Sinai Medical Ctr, Los Angeles, CA

10:10 Q&A Discussion

### Abstract Oral Session

#### AOS.213.02

**Changing Guidelines, Outpatient Cardiovascular Care and Implications for Policy**

**S505**

9:00 - 10:15 AM

**Moderators:**

Emily C O’Brien, Durham, NC  
Michael A Blazing, Durham, NC

9:00 **The Impact of the Eighth Joint National Committee Guidelines for the Treatment of High Blood Pressure on an Older US Cohort: The Atherosclerosis Risk in Communities Study**

*Michael D Miedema*, Minneapolis Heart Inst Fndn, Minneapolis, MN  
Aaron R Folsom, Univ of Minnesota Sch of Public Health, Minneapolis, MN

9:10 Q&A Discussion

9:15 **Impact of the 2014 Expert Panel Recommendations for Management of High Blood Pressure on Contemporary Cardiovascular Practice: Insights from the NCDR® PINNACLE Registry®**

*William B Borden*, George Washington Univ, Washington, DC  
Frederick A Masoudi, Univ of Colorado, Aurora, CO

9:25 Q&A Discussion

9:30 **Implications of the 2013 ACC/AHA Cholesterol Guidelines for Adults in Contemporary Cardiovascular Practice: Insights from the NCDR® PINNACLE Registry®**

*Thomas Maddox*, VA Eastern Colorado Health Care System, Denver, CO  
John Rumsfeld, VA Eastern Colorado Health Care System, Denver, CO

9:40 Q&A Discussion

9:45 **Eligibility for Lipid Lowering Therapy Based on AHA/ACC Risk Score, Coronary Artery Calcification, and CVD Events- National Implications for the Appropriate Use of Preventive Pharmacotherapy: Multi-Ethnic Study of Atherosclerosis (MESA)**

*Khurram Nasir*, Baptist Health South Florida, Coral Gables, FL  
Harlan M Krumholz, Yale-New Haven Hosp Ctr for Outcomes Res and Evaluation, New Haven, CT

9:55 Q&A Discussion

10:00 **Provider Type and Quality of Outpatient Cardiovascular Disease Care, Implications for the Affordable Care Act: Insights from the NCDR®PINNACLE Registry**

*Salim S Virani*, Michael E DeBakey Veterans Affairs Hosp and Baylor Coll of Med, Houston, TX  
Laura A Petersen, Michael E DeBakey Veterans Affairs Hosp and Baylor Coll of Med, Houston, TX

10:10 Q&A Discussion
Abstract Oral Session

AOS.205.01  
**Children and Young Adults with Cardiovascular Risk**

**S503**  
9:00 - 10:15 AM

**Moderators:**  
Vicki Zeigler, Denton, TX  
Patricia Hickey, Brookline, MA

9:00  
**Effects of Maternal Prenatal Psychosocial Stress on Early Childhood Hemodynamic Responses: A Chinese Experience**  
Fenling Fan, 1st Hosp of Xi’an Jiaotong Univ, China, Xi’an, China  
Anthony Dart, BakerID Heart& Diabetes Inst & Alfred Hosp, Melbourne, Australia

9:10  
**Q&A Discussion**

9:15  
**Transition Readiness Assessment in Adolescents and Young Adults With Heart Disease: Can We Improve the Outcome?**  
Karen Uzark, Univ of Michigan Congenital Heart Ctr, Ann Arbor, MI  
Timothy B Cotts, Univ of Michigan Congenital Heart Ctr, Ann Arbor, MI

9:25  
**Q&A Discussion**

9:30  
**Assessment of Visual, Verbal, and Working Memory in Adolescents with Congenital Heart Disease Post-Surgery**  
Nancy A Pike, UCLA, Los Angeles, CA  
Rajesh Kumar, UCLA, Los Angeles, CA

9:40  
**Q&A Discussion**

9:45  
**Effect of Lifestyles of Children and Their Parents on the Levels of Cardiovascular Risk Factors in Elementary School Children**  
Masay Yoshinaga, Nati Hosp Organization Kagoshima Medical Ctr, Kagoshima, Japan  
Masami Nagashima, Aichi Saiseikai Rehabilitation Hosp, Nagoya, Japan

9:55  
**Q&A Discussion**

Abstract Oral Session

AOS.307.02  
**Electrophysiological Issues in Pediatric Cardiomyopathies and CHD**

**S102bc**  
9:00 - 10:15 AM

**Moderators:**  
Peter Fischbach, Atlanta, GA  
Susan Etheridge, Salt Lake City, UT

9:00  
**Risk Factors for the Development of Tachyarrhythmia Following the Norwood Procedure in the Single Ventricle Reconstruction Trial**  
Matthew Oster, Children’s Healthcare of Atlanta, Atlanta, GA  
Jonathan Kaltman, The Natl Heart, Lung, and Blood Inst, Bethesda, MD

9:10  
**Q&A Discussion**

9:15  
**Differences in the Population of Muscular Dystrophy Patients With Respect to Ventricular Tachycardia, Heart Failure and Use of Implantable Cardioverters Defibrillators**  
Ann R Punnoose, Children’s Natl Medical Ctr, Washington, DC  
Christopher Spurney, Children’s Natl Medical Ctr, Washington, DC

9:25  
**Q&A Discussion**

9:30  
**Pediatric-Onset Disease Does Not Herald Adverse Clinical Course in Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy**  
Anneline S te Riele, Johns Hopkins Univ, Baltimore, MD  
Harikrishna Tandri, Johns Hopkins Univ, Baltimore, MD

9:40  
**Q&A Discussion**

9:45  
**Repaired Tetralogy of Fallot Patients With a Narrow QRS Are at Risk for Ventricular Arrhythmias**  
GFL Kapel, Leiden Univ Medical Ctr, Leiden, Netherlands  
K Zeppenfeld, Leiden Univ Medical Ctr, Leiden, Netherlands

9:55  
**Q&A Discussion**

10:00  
**Arrhythmogenic Myocardial Remodeling in Adults with Surgically Corrected Tetralogy of Fallot**  
Heiko Schneider, Univ of Manchester, Manchester, United Kingdom  
Vaikom S Mahadevan, Central Manchester Univ Hosp NHS Fndn Trust, Manchester, United Kingdom

10:10  
**Q&A Discussion**
**Abstract Oral Session**

**Exercise, Physical Activity and Rehabilitation**

**S504**

9:00 - 10:15 AM

**Moderators:**
James A Stone, Calgary, AB, Canada
Paul Thompson, Hartford, CT

9:00

**High Cardiorespiratory Fitness Attenuates Risk of Short-Term Mortality After First Myocardial Infarction: The Henry Ford Hospital Exercise Testing (FIT) Project**

Gabriel E Shaya, Univ of Miami Miller Sch of Med, Miami, FL
Michael J Blaha, Johns Hopkins Ciccarone Ctr for the Prevention of Heart Disease, Baltimore, MD

9:10 Q&A Discussion

9:15

**Determining the Cost-Benefit Yields of Participating in a Cardiac Rehabilitation Program**

Aviroop Biswas, Univ of Toronto, Toronto, ON, Canada
David Alter, Toronto Rehabilitation Inst, Toronto, ON, Canada

9:25 Q&A Discussion

9:30

**Aerobic Exercise After an ICD: Results of the 6 Month Follow-Up in the Anti-Arrhythmic Effects of Exercise After an ICD Trial**

Cynthia M Dougherty, Univ of Washington Sch of Nursing, Seattle, WA
Robert Burr, Univ of Washington Sch of Nursing, Seattle, WA

9:40 Q&A Discussion

9:45

**Cardiometabolic Benefits of Exercise Training Among Fitness Non-responsive Patients with Type 2 Diabetes Mellitus: HART-D Study**

Ambarish Pandey, Univ of Texas Southwestern Medical Ctr, Dallas, TX
Jarett Berry, Univ of Texas Southwestern Medical Ctr, Dallas, TX

9:55 Q&A Discussion

9:55

**Genetic and Genomic Disease Insights**

**S101**

9:00 - 10:15 AM

**Moderators:**
Stephen Y Chan, Boston, MA
Rahul C Deo, San Francisco, CA

9:00

**Induced Pluripotent Stem Cell-Based Modeling of Human NOTCH1 Mutations Reveals Novel Pathways Regulating Aortic Valve Disease**

Christina V Theodoris, Gladstone Insts, Univ of California, San Francisco, San Francisco, CA
Deepak Srivastava, Gladstone Insts, Univ of California, San Francisco, San Francisco, CA

9:10 Q&A Discussion

9:15

**Minibrain Relate Kinase / Dyrk1B Links Skeletal Muscle Glycolytic Metabolism with Insulin Resistance and Causes Metabolic Syndrome**

Mohsen Fathzadeh, Yale Univ, New Haven, CT
Arya Mani, Yale Univ, New Haven, CT

9:25 Q&A Discussion

9:30

**A Genetic Variant of Human Aldosterone Synthase Causes Salt-Dependent High Blood Pressure in Transgenic Mice**

Brahmaraju Mopidevi, The Univ of Toledo, Toledo, OH
Ashok Kumar, The Univ of Toledo, Toledo, OH

9:40 Q&A Discussion

9:45

**Single Cell RNA Sequencing Reveals Dynamic and Heterogeneous Changes of Transcriptome During Cardiac Differentiation in vitro**

Shunsuke Funakoshi, Kyoto Univ, Kyoto, Japan
Yoshinori Yoshida, Ctr for iPS Cell Res and Application, Kyoto university, Kyoto, Japan

9:55 Q&A Discussion

10:00

**Constitutively Active GSK-3β Attenuates Cardiac Aging Through Ulk1-Dependent Stimulation of Autophagy**

Peiyong Zhai, Rutgers-New Jersey Medical Sch, Newark, NJ
Junichi Sadoshima, Rutgers-New Jersey Medical Sch, Newark, NJ

10:10 Q&A Discussion
Abstract Oral Session

Heart Failure and Transplantation in Pediatrics

AOS.307.01

S102d
9:00 - 10:15 AM

Moderators:
Anne I Dipchand, Toronto, ON, Canada
Robert Shaddy, Philadelphia, PA

9:00 Mutation Type and Number Influence Severity of Pediatric Hypertrophic Cardiomyopathy Phenotype
Jacob Mathew, The Hosp For Sick Children, Toronto, ON, Canada
Seema Mital, The Hosp For Sick Children, Toronto, ON, Canada

9:10 Q&A Discussion

9:15 Cost-Effectiveness of Pediatric Heart Transplantation Across a Positive Crossmatch
Brian Feingold, Children’s Hosp of Pittsburgh of UPMC, Pittsburgh, PA
Kenneth J Smith, Univ of Pittsburgh, Pittsburgh, PA

9:25 Q&A Discussion

9:30 Improved Transplant-Free Survival of Children With Dilated Cardiomyopathy: Analysis of Two Decades From the Pediatric Cardiomyopathy Registry
Rakesh K Singh, Univ of California San Diego, Rady Children’s Hosp, San Diego, CA
for the PCMR Investigators

9:40 Q&A Discussion

9:45 Predictors for Listing for Transplant in Infants with Hypoplastic Left Heart Syndrome: an analysis of the Single Ventricle Reconstruction Trial
Aparna Kulkarni, Children’s Hosp at Montefiore, Bronx, NY
Daphne T Hsu, Children’s Hosp at Montefiore, Bronx, NY

9:55 Q&A Discussion

10:00 The Outcomes of Children Implanted With Ventricular Assist Devices in the US: First Analysis of the Pediatric Interagency Registry for Mechanical Circulatory Support (PediMACS)
Elizabeth D Blume, Boston Children’s Hosp, Boston, MA
James K Kirklin, Univ of Alabama at Birmingham, Birmingham, AL

10:10 Q&A Discussion

Abstract Oral Session

Mechanisms of Cardiac Dysfunction

AOS.511.01

S406a
9:00 - 10:15 AM

Moderators:
Jeffrey E Saffitz, Boston, MA
Marcello Rota, Boston, MA

9:00 Redistribution of Gsk-3β to Cardiac Intercalated Discs in Arrhythmogenic Cardiomyopathy
Angeliki Asimaki, Beth Israel Deaconess Medical Ctr, Boston, MA
Jeffrey E Saffitz, Beth Israel Deaconess Medical Ctr, Boston, MA

9:10 Q&A Discussion

9:15 ATP Synthase Subunit Alpha and Left Ventricular Hypertrophy in Ischemic Cardiomyopathy: A Mitochondrial Proteomic Approach Using Human Cardiac Tissue
Miguel Rivera, Hosp La Fe, Valencia, Spain
Manuel Portoles, Hosp La Fe, Valencia, Spain

9:25 Q&A Discussion

9:30 Migration of MicroRNAs From Cardiomyocytes to Cancer Cells Interferes With Tumor Formation in the Adult Heart
Laura Graciotti, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA
Annarosa Leri, Brigham and Women’s Hosp, Harvard Medical Sch, Boston, MA

9:40 Q&A Discussion

9:45 Reprogramming SIRT1-p66Shc Axis Suppresses Persistent Myocardial Dysfunction Despite Glycemic Control in Diabetic Mice
Sarah Costantino, Karolinska Inst, Stockholm, Sweden
Francesco Cosentino, Karolinska Inst, Stockholm, Sweden

9:55 Q&A Discussion

10:00 Reduction in Striated Preferentially Expressed Gene leads to Decompensated Heart Failure after Transverse Aortic Constriction in Mice
Xiaoli Liu, Brigham and Women’s Hosp, Boston, MA
Mark A Perrella, Brigham and Women’s Hosp, Boston, MA

10:10 Q&A Discussion
**Abstract Oral Session**

**AOS.728.01**

**Novel Applications of Biomarkers Across the Spectrum of Cardiovascular Disease**

S103bc  
9:00 - 10:15 AM

**Moderator:** Manuel Mayr, London, United Kingdom

**9:00**  
**Circulating microRNAs as Diagnostic and Prognostic Markers for Heart Failure**

Lee Lee Wong, Cardiovascular Res Inst, Nati Univ of Singapore, Singapore  
Arthur Mark Richards, Cardiovascular Res Inst, Nati Univ of Singapore, Singapore

**9:10**  
**Q&A Discussion**

**9:15**  
**Syndecan-1 and Heparan Sulfate in Acute Myocardial Infarction Complicated by Cardiogenic Shock - A Biomarker Substudy of the IABP-SHOCK II-Trial**

Georg Fuernau, Univ Leipzig - Heart Ctr, Leipzig, Germany  
Holger Thiele, Univ Hosp Schleswig-Holstein, Univ of Luebeck, Luebeck, Germany

**9:25**  
**Q&A Discussion**

**9:30**  
**Serum Vascular Endothelial Growth Factor-C Levels are Inversely Associated with the Risk of Cardiac and Cerebrovascular Events Following Drug-eluting Stent Implantation**

Takashi Unoki, Dept of Cardiology, Kyoto, Japan  
Koji Hasegawa, Div of Translational Res, Kyoto, Japan

**9:40**  
**Q&A Discussion**

**9:45**  
**Amyloid-β (1-40) and the Risk of Death from Cardiovascular Causes in Patients with Coronary Heart Disease**

Konstantinos Stellos, Goethe Univ Frankfurt, Frankfurt am Main, Germany

**9:55**  
**Q&A Discussion**

**10:00**  
**Inflammatory Biomarkers for Prognostication of Outcomes in Stable Coronary Artery Disease - Experiences From the STABILITY Trial**

Claes Held, Uppsala Univ, Uppsala, Sweden  
Lars Wallentin, Uppsala Univ, Uppsala, Sweden

**10:10**  
**Q&A Discussion**

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**Abstract Oral Session**

**AOS.105.01**

**Novel Applications of Nuclear Cardiology for Diagnosis and Management of Cardiovascular Disease**

N230b  
9:00 - 10:15 AM

**Moderators:** Philipp Kaufmann, Zurich, Switzerland  
Venkatesh Murthy, Ann Arbor, MI

**9:00**  
**Long term Follow-up of Outcomes with F-18-Fluorodeoxyglucose Positron Emission Tomography Imaging- Assisted Management of Patients with Severe Left Ventricular dysfunction Secondary to Coronary Disease**

Brian A Mc Ardle, Univ of Ottawa Heart Inst, Ottawa, ON, Canada  
Rob S Beanlands, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

**9:10**  
**Q&A Discussion**

**9:15**  
**Three-dimensional 123I-Meta-iodobenzylguanidine (123I mIBG) Cardiac Innervation Maps to Guide Ablation of Ventricular Tachycardia - A Novel Paradigm Introducing Innervation Imaging in Ablation Therapy**

Tommas Klein, Univ of Maryland, Baltimore, MD  
Timm Dickfeld, Univ of Maryland, Baltimore, MD

**9:25**  
**Q&A Discussion**

**9:30**  
**Staging Atherosclerotic Disease and Vessel Remodeling with [18F]-Sodium Fluoride, a Novel Biomarker of Active Calcification: Sub-study of the Canadian Atherosclerosis Imaging Network (CAIN-2)**

Myra S Cocker, Univ of Ottawa Heart Inst, Ottawa, ON, Canada  
Rob Beanlands, Univ of Ottawa Heart Inst, Ottawa, ON, Canada

**9:40**  
**Q&A Discussion**

**9:45**  
**Stress Myocardial Perfusion Positron Emission Tomography Provides Incremental Risk Prediction in Subjects With and Without Diabetes**

Hicham Skali, Brigham and Women’s Hosp, Boston, MA  
Shamila D orbala, Brigham and Women’s Hosp, Boston, MA

**9:55**  
**Q&A Discussion**

**10:00**  
**The Value of 18 FDG PET/CT in the Diagnostic Work-Up of Patients With Possible Infective Endocarditis**

Fabio Chirillo, Ospedale Ca’ Foncello, Treviso, Italy  
Zoran Olivari, Ospedale Ca’ Foncello, Treviso, Italy

**10:10**  
**Q&A Discussion**
### Abstract Oral Session

**AOS.509.01**  
**Novel Molecular Dissection of Cardiac Hypertrophy and Failure**

*S405  
9:00 - 10:15 AM*

**Moderators:**  
Sarah Franklin, Salt Lake City, UT  
Manuel Rosa-Garrido, Los Angeles, CA

9:00  
**A Novel Flow Cytometry Approach Shows That Cardiac Myocyte Size and Myosin Heavy Chain Protein Content Are Disassociated in Normal Post-natal Development**  
Javier E Lopez, UC Davis, Davis, CA  
Nipavan Chiamvimovnat, UC Davis, Davis, CA

9:10  
**Q&A Discussion**

9:15  
**Genome-Wide Binding Profiles of c-Myc and RNA-Polymerase II Clarifies c-Myc-Mediated Circuit Pathway in RNA Metabolism in Cardiomyocytes**  
Yuki Masumura, Osaka Univ Graduate Sch of Med, Suita, Japan

9:25  
**Q&A Discussion**

9:30  
**Receptor for Activated Protein Kinase C1 Competes With GATA4 for p300 and Represses Hypertrophic Responses in Cardiomyocyte**  
Hidetoshi Suzuki, Univ of Shizuoka, Shizuoka, Japan  
Tatsuya Morimoto, Univ of Shizuoka, Shizuoka, Japan

9:40  
**Q&A Discussion**

9:45  
**Loss of Tribbles 3 (TRIB3) Attenuates Pressure-Overload Induced Myocardial Hypertrophy**  
Eltyeb Abdelwahid, Feinberg Cardiovascular Res Inst, Northwestern Univ Sch of Med, Chicago, IL  
Hossein Ardehali, Feinberg Cardiovascular Res Inst, Northwestern Univ Sch of Med, Chicago, IL

9:55  
**Q&A Discussion**

10:00  
**Macrophage Foxp1 is a Regulator of Pathologic Cardiac Hypertrophy**  
Shuichi Yoneda, Case Western Reserve Univ Sch of Med, Cleveland, OH  
Daniel I Simon, Case Western Reserve Univ Sch of Med, Cleveland, OH

10:10  
**Q&A Discussion**

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**AOS.602.02**  
**Percutaneous Coronary Intervention: New Insights, High-Risk Subsets**

*N227b  
9:00 - 10:15 AM*

**Moderators:**  
Conrad A J Smith, Pittsburgh, PA  
Vladimir Dzavik, Toronto, ON, Canada

9:00  
**Comparison of Outcome in Patients With ST-Elevation Myocardial Infarction Treated with Drug-Eluting Stents versus Bare Metal Stents in Eastern Denmark and Southern Sweden**  
Homa Waziri, Univ Hosp Rigshospitalet, 2100-Copenhagen, Denmark  
Kristian Wachtell, Glostrup Hosp, Copenhagen, Denmark

9:10  
**Q&A Discussion**

9:15  
**Comparison Among Drug-Eluting Balloon, Drug-Eluting Stent, and Plain Balloon Angioplasty for Treatment of In-Stent Restenosis: A Network Meta-Analysis of 11 Randomized Controlled Trials**  
Jonghanne Park, Seoul Natl Univ Hosp, Seoul, Republic of Korea  
Hyo-Soo Kim, Seoul Natl Univ Hosp, Seoul, Republic of Korea

9:25  
**Q&A Discussion**

9:30  
**Second-generation versus First-generation Drug-eluting Stents in Patients With Calcified Coronary Lesions: Pooled Analysis From the RESET and NEXT Trials**  
Koji Nishida, Chikamori Hosp, Kochi, Japan  
Takeshi Kimura, Kyoto Univ, Kyoto, Japan

9:40  
**Q&A Discussion**

9:45  
**Early and Late Stent Thrombosis are Associated with Long-Term Cardiac Mortality: Results from Pooled PROTECT Trials**  
Eric A Secemsky, Massachusetts General Hosp, Boston, MA  
On behalf of the PROTECT Trial Investigators

9:55  
**Q&A Discussion**

10:00  
**Does Gender Still Influence Mortality Post Percutaneous Coronary Intervention (PCI)? A Meta-Analysis of the Impact of Gender on PCI Outcomes**  
Ameera Ahmed, Baylor Coll of Med, Houston, TX  
Mahboob Alam, Baylor Coll of Med, Houston, TX

10:10  
**Q&A Discussion**
**Abstract Oral Session**

**Recent Advances in Regulation of Vascular Function**

**S103a**

9:00 - 10:15 AM

**Moderators:**
Chunxiang Kevin Zhang, Chicago, IL
David Stepp, Augusta, GA

9:00 **Activation of AMP-activated Protein Kinase (AMPKα) by AICAR Attenuates Klotho Deficiency-induced Endothelial Dysfunction, Arterial Stiffening and Hypertension**
Zhongjie Sun, Univ Oklahoma Health Sciences Ctr, Oklahoma City, OK

9:10 **Q&A Discussion**

9:15 **Smooth Muscle Specific Rac1 Deficiency Induces Hypertension by Over Activation of RhoA/Rho-kinase Signaling Pathway**
Vincent Sauzeau, Inserm 1087, Nantes, France

9:25 **Q&A Discussion**

9:30 **Targeted Delivery of Endothelial Cells Overexpressing Interleukin-8 Receptors Attenuates Ischemia-Reperfusion Acute Kidney Injury**
Fadi G Hage, Univ Of Alabama at Birmingham and Birmingham Veterans Affairs Medical Ctr, Birmingham, AL
Paul W Sanders, Univ Of Alabama at Birmingham and Birmingham Veterans Affairs Medical Ctr, Birmingham, AL

9:40 **Q&A Discussion**

9:45 **Restoration of Autophagy in Endothelial Cells From Patients With Diabetes Improves Nitric Oxide Signaling**
Jessica L Fetterman, Boston Univ Sch of Med, Boston, MA
Joseph A Vita, Boston Univ Sch of Med, Boston, MA

9:55 **Q&A Discussion**

10:00 **Glucagon-like Peptide-1 Directly Promotes Angiogenesis via PKA/AMPK-dependent Autophagy in Endothelial Cells**
Yasuko K Bando, Nagoya Univ., Nagoya Aichi, Japan
Toyoaki Murohara, Nagoya Univ., Nagoya Aichi, Japan

10:10 **Q&A Discussion**

**Abstract Oral Session**

**Trials and Tribulations with Troponin in Suspected ACS**

**S103d**

9:00 - 10:15 AM

**Moderator:**
Marc Bonaca, Boston, MA

9:00 **Age- and Gender-specific 99th Percentile Cut-offs for Diagnosis of Myocardial Infarction and Prognostic Implications - Results From the High Sensitivity Cardiac Troponin T Assay for Rapid Rule-out of Acute Myocardial Infarction Substudy**
Matthias Mueller, Univ of Heidelberg, Heidelberg, Germany
TRAPID-AMI Investigators

9:10 **Q&A Discussion**

9:15 **Absolute and Relative Changes (Delta) in Troponin I for Early Diagnosis of Myocardial Infarction: Results of a Prospective Multicenter Trial**
Alan B Storrow, Vanderbilt Univ, Nashville, TN
Paula C Southwick, Beckman Coulter, Carlsbad, CA

9:25 **Q&A Discussion**

9:30 **Highly Sensitive Troponin I and Coronary Computed Tomography Angiography Assessment of Stenosis and High-risk Plaque Permit Rapid Classification of Acute Coronary Syndrome Risk in Chest Pain Patients: Results from the ROMICAT II Trial**
Maros Ferencik, Oregon Health and Science Univ, Portland, OR
Udo Hoffmann, Massachusetts General Hosp and Harvard Medical Sch, Boston, MA

9:40 **Q&A Discussion**

9:45 **Does Copeptin Provide Additional Risk Stratification in Chest Pain Patients With a Mild Troponin Elevation?**
Nicholas Marston, Univ of California San Diego, San Diego, CA
Alan Maisel, Univ of California San Diego, San Diego, CA

9:55 **Q&A Discussion**

10:00 **Temporal Release Pattern of Copeptin and Troponin in Patients With Suspected ACS and Spontaneous Acute Myocardial Infarction**
Anna Slagman, Charité Berlin, Berlin, Germany
Martin Möckel, Charité Berlin, Berlin, Germany
Plenary

**PS.08 Failure Is Not an Option: The Intersection of Diabetes and Heart Failure Epidemics**

_S100ab
9:00 - 10:15 AM_

**Moderators:**
Mariell Jessup, Philadelphia, PA
Anselm K Gitt, Ludwigshafen, Germany

9:00 **Diabetes and Heart Failure: The Nexus of 2 Epidemics**
Veronique L Roger, Rochester, MN

9:15 **Novel Mechanisms of Diabetic Cardiomyopathy**
Dale Abel, Iowa City, IA

9:30 **Influence of Diabetes on the Management of Heart Failure**
John McMurray, Glasgow, United Kingdom

9:45 **Heart Failure Signals with Diabetes Drugs: PPARGamma, PPAR-Alpha/Gamma and DPP 4 Inhibitors**
Benjamin Scirica, Boston, MA

10:00 **SGLT-2 Antagonists: Glucose-Lowering Drugs with Diuretic Properties or Vice Versa**
Bruce Neal, Sydney, Australia

Special

**SS.16 Next Best Thing in Cardiovascular Science (at Lightning Speed)**

_S406b
9:00 - 10:20 AM_

**Moderators:**
Melina Kibbe, Chicago, IL
Roger Hajjar, New York, NY

9:00 **(ATVB) The Next Generation of Lipid Lowering Drug Therapies**
Ryan Temel, Lexington, KY

9:05 **Next Best Thing in BCVS**
Joshua Hare, Miami, FL

9:10 **(3CPR) Next Big Thing in Resuscitation: Running a Code with a Molecular Biology Cart**
Benjamin Scirica, Philadelphia, PA

9:10 **(3CPR) Next Big Thing in Resuscitation: Running a Code with a Molecular Biology Cart**
Evangelos D Michelakis, Edmonton, AB, Canada

9:15 **(CVSN) Next Best Thing in Nursing Science and Practice**
Deborah Chyun, New York, NY

9:20 **Next Best Thing in CVDY**
William Mahle, Atlanta, GA

9:25 **Targeted Molecular Imaging of Atherosclerosis: The Next Best Thing in Cardiovascular Imaging (CVRI)**
Pamela Woodard, St Louis, MO

9:30 **Next Best Thing in CVSA**
J Michael DiMaio, Dallas, TX

9:35 **Next Best Thing in Clinical Cardiology**
Chris C Granger, Durham, NC

9:40 **(EPI) Preserving Ideal CVH from Childhood into Adulthood**
Darwin Labarthe, Chicago, IL

9:45 **Next Best Thing in FGTB**
Jennifer Van Eyk, Los Angeles, CA

9:50 **Next Best Thing in Hypertension**
Gregory D Fink, East Lansing, MI

9:55 **Next Best Thing in KCVD**
Pablo A Ortiz, Detroit, MI

10:00 **Next Best Thing in Lifestyle and Cardiometabolic Health**
Lawrence J Appel, Baltimore, MD

10:05 **Next Best Thing in PVD**
Michael S Conte, San Francisco, CA

10:10 **(QCOR) Go Big: The Solution to the Medical Information Drought**
Harlan M Krumholz, New Haven, CT

10:15 **Next Best Thing in Stroke**
Cathy A Sila, Cleveland, OH

Special

**SS.12 Oral Antiplatelet Agents After Drug-Eluting Stents: Which Agent and for How Long?**

_S106
9:00 - 10:15 AM_

**Moderators:**
Laura Mauri, Boston, MA
Stefan K James, Uppsala, Sweden

9:00 **DAPT Choices and Duration: Does Platelet Reactivity Help Guide Us?**
David Schneider, Colchester, VT

9:15 **Switching Agents Acutely and During Follow-up: It Saves Money, but Is It Safe?**
Dominick J Angiolillo, Jacksonville, FL

9:30 **Duration of DAPT Post DES: Is Shorter Better?**
Roxana Mehran, New York, NY

9:45 **Duration of DAPT: Longer Is Safer**
Donald E Cutlip, Boston, MA

10:00 **Case Presentation: Complex PCI Patient with a DAPT Dilemma**
Dean Kereiakes, Cincinnati, OH
Abstract Poster Session

APS.519.03

All About the Mitral Valve

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 12:00 noon
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Elyse Foster, San Francisco, CA

5696 Effect of Mitral Valve Area Following Surgical Repair for Degenerative Mitral Regurgitation on Exercise Hemodynamics and Functional Consequences
Kwan Chan, Univ of Ottawa Heart Inst., Ottawa, ON, Canada
Buu-Khanh Lam, Univ of Ottawa Heart Inst., Ottawa, ON, Canada

5697 Adverse Events in Patients With Rheumatic Mitral Valve Disease in Sinus Rhythm
Hyun-Jin Kim, Seoul Natl Univ Bundang Hosp, Seoul, Republic of Korea
Dae-Won Sohn, Seoul Natl Univ Hosp, Seoul, Republic of Korea

5698 Discordant Imaging Results in Patients Referred for Mitral Valve Surgery: What Can the Left Ventricle Tell Us?
Seth Uretsky, Morristown Medical Ctr, Morristown, NJ
Steven D Wolff, Carnegie Hill Radiology, New York, NY

5699 Quantitative Evaluation of Mitral Valve Dynamics for Improved Planning of Mitral Valve Repairs
Hyunggun Kim, Univ of Texas Health Science Ctr at Houston, Houston, TX

5700 Increased Fibroblast Activation Protein and Matrix Metalloproteinase-9 Expression Are Associated With Altered Extra-Cellular Matrix Changes in Barlow’s Disease Compared to Fibro Elastic Deficiency in Mitral Valve Degenerative Disease - Implication in Disease Progression
Purushothaman K-Raman, Icahn Sch of Med at Mount Sinai, New York, NY
Pedro R Moreno, Icahn Sch of Med at Mount Sinai, New York, NY

5701 Atrial Fibrillation Flattens Annular Saddle Shape of Mitral Valve and Dilates Mitral Annulus
Yasunori Uchida, Yokkaichi Municipal Hosp, Yokkaichi, Japan
Toyoaki Murohara, Nagoya Univ Graduate Sch of Med, Nagoya, Japan

5702 Mitral Leaflet Growth and its Relationship with Functional Mitral Regurgitation in Non-ischemic Left Ventricular Systolic Dysfunction
Yu Kang, West China Hosp, Sichuan Univ, Chengdu, Sichuan, China
Yu-Jia Liang, West China Hosp, Sichuan Univ, Chengdu, Sichuan, China

Abstract Poster Session

APS.105.03

Application of Molecular Imaging to Improve Diagnosis of Cardiac and Vascular Inflammation

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 12:00 noon
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Ron Blankstein, Boston, MA

1176 HIV-infected Patients on Stable Antiretroviral Therapy Do Not Show Impaired Myocardial Flow Reserve Assessed With 82Rubidium PET/CT
Andreas Knudsen, Univ of Copenhagen, Copenhagen N, Denmark
Andreas Kjar, Univ of Copenhagen, Copenhagen N, Denmark

1177 Molecular Imaging of Matrix Metalloproteinases in Atherosclerosis Using a Novel Multifunctional PET/MRI Nanoparticle
Yining Tu, Harbin Medical Univ, Harbin, China
Zhen Cheng, Stanford Univ, Palo Alto, CA

1178 Both Semi-Quantitative and Quantitative Assessment of Positron Emission Tomography Strongly Predicts Outcomes in Patients Being Evaluated for Cardiac Sarcoidosis
Vladyslava Bazylevska, Yale-New Haven Hosp, New Haven, CT
Lavanya Bellumkonda, Yale-New Haven Hosp, New Haven, CT
1179 Impact of CT-Based Attenuation Correction Imaging With a High Speed Cadmium-Zinc-Telluride SPECT Myocardial Perfusion Image to Resolve Inferior Wall Attenuation
Shimpei Ito, Shimane Univ, Izumo, Japan
Kazuaki Tanabe, Shimane Univ, Izumo, Japan

1180 EF<50% Strongly Predicts Abnormal PET/CT Imaging Results in Patients BeingEvaluated for Cardiac Sarcoidosis
Vladyslava Bazylevska, Yale New Haven Hosp, New Haven, CT
Daniel Jacoby, Yale New Haven Hosp, New Haven, CT

1181 Circulating CD14++CD16+ Monocyte Subsets as a Surrogate Marker of Inflammatory Activity in Patients With Cardiac Sarcoidosis
Makoto Orii, Wakayama Medical Univ, Wakayama, Japan
Takashi Akasaka, Wakayama Medical Univ, Wakayama, Japan

1182 Cardiac Denervation Appears Before Becoming Myocardial Tissue Fibrosis in Patients With Cardiac Involvement Sarcoidosis and Active Inflammation Using C-11 Hydroxyephedrine PET/CT and Cardiac Magnetic Resonance
Keichiro Yoshinaga, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan
Nagara Tamaki, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

1183 Imaging Coronary Atherosclerosis Using [18F]FDG PET-CT: Validation Study in Pigs
Miikka Tarkia, Univ of Turku, Turku, Finland
Juhani Knutti, Univ of Turku, Turku, Finland

1184 Evaluation of Attenuation Correction in Cardiac PET using PET/MR
Man Chun Jeffrey Lau, Washington Univ in St Louis, Saint Louis, MO
Pamela Woodard, Washington Univ in St Louis, Saint Louis, MO

1185 Reduction of Unnecessary Radiation Exposure for Cardiovascular Patients by Adoption of a Stress-First Protocol for Nuclear-Based Cardiac Stress Testing
Robert J Russo, Scripps Clinic, La Jolla, CA
Patricia D Silva, Scripps Clinic, La Jolla, CA

Abstract Poster Session

Assessment of the Fontan Circulation
South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Andrew M Atz, Charleston, SC

Cardiac Magnetic Resonance Late Gadolinium Enhancement is Associated With Ventricular Elastance That May Predict Latent Ventricular Dysfunction After Fontan Procedure
Michihiro Okuyama, Okayama Univ Hosp, Okayama, Japan
Hidemasa Oh, Okayama Univ Hosp, Okayama, Japan

Late Fontan Completion Associates with a Reduced Distensibility of the Ascending Aorta in Long-term Fontan Survivors
Yohsuke Hayama, Natl Cerebral and Cardiovascular Ctr, Suita, Japan
Osamu Yamada, Natl Cerebral and Cardiovascular Ctr, Suita, Japan

Clinical Significance of Impaired Vascular Endothelial Function in Patients After Fontan Procedure
Seiji Asagai, Tokyo Women’s Medical University, Tokyo, Japan
Toshio Nakanishi, Tokyo Women’s Medical University, Tokyo, Japan

Assessment of Liver Fibrosis Using Magnetic Resonance Elastography in Children Who Undergo the Fontan Procedure and Intracardiac Repair
Masaya Sugimoto, Asahikawa Medical Univ, Asahikawa, Japan
Hiroshi Azuma, Asahikawa Medical Univ, Asahikawa, Japan

Hepatic Abnormalities are Present Before and Early After the Fontan Operation
Matthew Schwartz, Childrens Hosp Philadelphia, Philadelphia, PA
Meryl S Cohen, Childrens Hosp Philadelphia, Philadelphia, PA
Abstract Poster Session

APS.611.02

Basic Research in Heart Failure and Transplantation

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Paul W Fedak, Calgary, AB, Canada

6332 Control of Left Ventricular Load and Pulsatility by a Continuous-flow Left Ventricular Assist Device With a Native Heart Load Control System in Chronic Awake Phase
Kazuma Date, The Univ of Tokyo, Tokyo, Japan
Eisuke Tatsumi, Natl Cerebral and Cardiovascular Ctr, Res Inst, Osaka, Japan

6333 Computational Fluid Dynamics in Partial Mechanical Circulatory Support: Implications for Patient Care
Sasan Partovi, Case Western Reserve Univ, Cleveland, OH
Arjang Ruhiparwar, Univ of Heidelberg, Heidelberg, Germany

6334 Patients Awaiting Heart Transplantation on HeartWare Ventricular Assist Device Support for Greater than Two Years
Keith D Aaronson, Univ of Michigan, Ann Arbor, MI
Francis D Pagani, Univ of Michigan, Ann Arbor, MI

6335 Does the Duration of Continuous Flow Left Ventricular Assist Device Support Influence Survival Following Heart Transplantation?
Shinichi Fukuhara, Columbia Univ Medical Ctr, New York, NY
Hiroo Takayama, Columbia Univ Medical Ctr, New York, NY

6338 Basis for Biochemical Discordance Between Activated Partial Thromboplastin Time and Anti-factor Xa in Patients with Continuous Flow Left Ventricular Assist Device on Unfractionated Heparin Infusion
Hirad Yarmohammadi, Univ of Minnesota, Minneapolis, MN
Sirtaz Adatya, Univ of Minnesota, Minneapolis, MN

6339 Left Ventricular Assist Device Support is Associated with Sustained Cardiac CamKII Activation and Increased MEF2
Estibaliz Castillero, Coll of Physicians and Surgeons of Columbia Univ, New York, NY
Isaac George, Coll of Physicians and Surgeons of Columbia Univ, New York, NY

6340 Protective Effect of Nrf2 on Ischemia-reperfusion Injury in Murine Heart Transplantation
Hiroyuki Kawajiri, Tokyo General Hosp, Univ Health Network, Univ of Toronto, Toronto, ON, Canada
Vivek Rao, Toronto General Hosp, Univ Health Network, Univ of Toronto, Toronto, ON, Canada

6341 A Novel Protein, Early Secreted Antigenic Target of 6 kDa, Promotes Cardiac Allograft Tolerance by Inducing CD4+FoxP3+ Tregs
Zhenhua Dai, Guangdong Provincial Acad of Chinese Medical Sciences, Guangzhou, China
Hehua Dai, Univ of Pittsburgh, Pittsburgh, PA

Abstract Poster Session

APS.728.01

Biomarkers I

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Wolfgang Koenig, Ulm, Germany

7674 Circulating Anti-Elastin Antibody and Arterial Disease Characteristics: Association With Arterial Stiffness and Atherosclerosis
Sang-Hak Lee, Yonsei Univ Coll of Med, Seoul, Republic of Korea

7675 Combined Assessment of Urinary Neutrophil Gelatinase-Associated Lipocalin and Albumin to Creatinine Ratio on Admission Improves the Prediction of Acute Kidney Injury in Patients Hospitalized to Coronary Care Units
Ryuunosuke Okuyama, Fujita Health Univ Hosp, Toyoake, Japan
Yukio Ozaki, Fujita Health Univ Hosp, Toyoake, Japan
Wednesday, November 19  •  Chicago, Illinois

7676  Urinary Liver Fatty-acid Binding Protein Within 24 Hours from Contrast Media Exposure May Predict Acute Kidney Injury
Sei Komatsu, Amagasaki Central Hosp, Amagasaki, Japan
Kazuhisa Kodama, Amagasaki Central Hosp, Amagasaki, Japan

7677  Association of LpPLA2 with Lipoprotein Subclasses, Inflammation, Atherosclerosis & Endothelial Dysfunction in a Web-Based Lifestyle Intervention Study: Baptist Employee Healthy Heart Study (BEHHS)
Omar Jamal, Baptist Health South Florida, Coral Gables, FL
Khurram Nasir, Baptist Health South Florida, Coral Gables, FL

7678  Effects of Evolocumab (AMG 145) as a Monotherapy or in Combination with Statins on Lipoprotein Particles and Subclasses
Ren Xu, Amgen, Seattle, WA
Scott M Wasserman, Amgen, Thousand Oaks, CA

7679  The Association Between Adiponectin and Type 2 Diabetes and Hypertension in African American Men and Women: The Jackson Heart Study
Sharon K Davis, Natl Insts of Health, Bethesda, MD
Aurelian Bidulescu, Indiana Univ Bloomington, Bloomington, IN

7680  Genetic Variation in Retinal Vascular Patterning Predicts Variation in Pial Collateral Extent and Infarct Volume After Middle Cerebral Artery Occlusion
Pranay Prabhakar, Univ of North Carolina Sch of Med, Chapel Hill, NC
James E Faber, Univ of North Carolina Sch of Med, Chapel Hill, NC

7681  Heart-Type Fatty Acid Binding Protein for Risk Stratification in Patients With Pulmonary Embolism: A Meta-Analysis
Anurag Bajaj, The Wright center for graduation medical education, scranton, PA
Besher Kabak, The Common Wealth Medical Coll, scranton, PA

7682  GDF-15: Association With Pulmonary Hemodynamic Indices and Reduction With Serelaxin in Acute Heart Failure
Margaret F Prescott, Novartis Pharma, East Hanover, NJ
Marion Dahle, Novartis Pharma AG, Basel, Switzerland

7683  Apoptogenic Protein is a Novel Phenotypic Marker of the Contractile Vascular Smooth Muscle Cells
Osamu Yasuda, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

Abstract Poster Session

Biomarkers II

South Hall A2 - Core 7
Posters Displayed: 9:00 AM - 12:00 noon
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Andreas Zeiher, Frankfurt, Germany

7694  MiR-320 as Potential Biomarker of Arrhythmogenic Right Ventricular Cardiomyopathy
Elena Sommariva, Ctr Cardiologico Monzino, Milan, Italy
Giulio Pomplio, Ctr Cardiologico Monzino, Milan, Italy

7695  Circulating microRNA as Novel Biomarkers of Doxorubicin Induced Cardiotoxicity
Yuri D'Alessandra, Ctr Cardiologico Monzino, Milan, Italy
Gualtiero I Colombo, Ctr Cardiologico Monzino, Milan, Italy

7696  Single Ascending Dose Pharmacokinetics and Pharmacodynamics of MDCO-216 (ApoA-I Milano/POPC) in Healthy Volunteers
S Eralp Bellibas, The Meds Company, Parsippany, NJ
Peter LJ Wijngaard, The Meds Company, Zurich, Switzerland

7697  MDCO-216 (ApoA-I Milano/POPC) Induces Reverse Cholesterol Transport in Stable Coronary Artery Disease Patients with a Dose Proportional Pharmacokinetics after Single Ascending Doses
S Eralp Bellibas, The Meds Company, Parsippany, NJ
Peter LJ Wijngaard, The Meds Company, Zurich, Switzerland

7698  Pharmacodynamic Interactions Between Nebivolol and Valsartan in Healthy Volunteers
Chun Lin Chen, Forest Res Inst, Jersey City, NJ
Harold M Wright, Forest Res Inst, Jersey City, NJ
Abstract Poster Session

APS.217.01

Cancer and Cardiovascular Disease II

South Hall A2 - Core 2

Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Thomas Andrews, Dallas, TX

2735

Demographics, Characteristics and Comparative Survival of Malignant Cardiac Tumors: Analysis From the Surveillance, Epidemiology and End-Results Registry
Sadeer Al-Kindi, Univ Hosp Case Medical Ctr, Cleveland, OH
Guilherme H Oliveira, Univ Hosp Case Medical Ctr, Cleveland, OH

2736

A Dual PI3K-mTOR Inhibitor Induced Cardiac Hypertrophy in Mice
Xinhua Yan, Genesys Res Inst, Boston, MA
James Morgan, St Elizabeth’s Medical Ctr, Boston, MA

2737

Doxycycline Modulates Cardiomyocyte Remodeling in Light Chain-Induced Cardiac Amyloidosis
Flora Sam, Boston Univ Sch of Med, Boston, MA

2738

Cardiac Biomarkers are Elevated in Children During Chemotherapy Regardless of Anthracycline Status
Kimberly Y Lin, Univ of Pennsylvania, Philadelphia, PA
Robert E Shaddy, Univ of Pennsylvania, Philadelphia, PA

2739

Long Term Use of Calcium Channel Blockers and Risk of Breast Cancer Development
Stacey Knight, Intermountain Medical Ctr, Murray, UT
Jeffrey L Anderson, Intermountain Medical Ctr, Univ of Utah, Murray, UT

2740

Cardiovascular Disease Mortality Among Black and White Women With Ductal Carcinoma in Situ of the Breast
Susan G Lakoski, Univ of Vermont, Burlington, VT

2741

Comparing the Efficacy of Primary Prevention Strategies in Doxorubicin-induced Cardiotoxicity using Echocardiography and High-Sensitivity Troponin T
Pimprapa Vejpongsa, MD Anderson Cancer Ctr, Houston, TX
Edward TH Yeh, MD Anderson Cancer Ctr, Houston, TX

2742

Long Term Cardiovascular Mortality After Radiotherapy for Breast Cancer: A Meta-Analysis
Partha Sardar, Texas Tech Univ Health Sciences Ctr, El Paso, NY
Carl J Lavie, John Ochsner Heart and Vascular Inst, Jefferson, LA

Abstract Poster Session

APS.510.05

Cardiac Regeneration/Cellular Therapy: Experimental V

South Hall A2 - Core 5

Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Jianyi Zhang, Minneapolis, MN

5446

Il-10-Inhibit Pressure Overload-Induced Proliferation and Differentiation of Fibroblast Progenitor Cells and Thus Improve Cardiac Function
Suresh K Verma, Ctr for Transnational Med, Temple Univ, Philadelphia, PA
Raj Kishore, Ctr for Transnational Med, Temple Univ, Philadelphia, PA

5447

Negative Regulation of Mir-375 by Interleukin-10 Enhances Endothelial Progenitor Cell Mediated Myocardial Repair and Function After Myocardial Infarction
Venkata N Garikipati, Temple Sch of Med, Philadelphia, PA
Raj Kishore, Temple Sch of Med, Philadelphia, PA

5448

The Infusion of Mesenchymal Stromal Cells Post Myocardial Infarction Increases Myocardial S100A6, Attenuates Myocyte Hypertrophy, Reduces Myocyte Apoptosis and Improves Cardiac Function
James Tsoporis, St Michael’s Hosp, Toronto, ON, Canada
Thomas G Parker, St Michael’s Hosp, Toronto, ON, Canada

5449

Comparing the Efficacy of Contractile and Pre-Contractile Cardiomyocytes in Restoring the Function of the Injured Myocardium
Rahul Thakker, Stanford Univ Sch of Med, Palo Alto, CA
Phillip Yang, Stanford Univ Sch of Med, Palo Alto, CA
IPS CELLS-DERIVED CARDIAC PROGENITORS INDUCE DRAMATIC CARDIAC REGENERATION AND IMPROVE FUNCTION BY CXCR4 SIGNALING PATHWAY IN INFARCTED MYOCARDIUM
Zeshan Pasha, Univ of Illinois at Chicago, Chicago, IL
Muhammad Ashraf, Univ of Illinois at Chicago, Chicago, IL

FIBRONECTIN IS ESSENTIAL FOR MESENDODERM INDUCTION DURING CARDIAC DIFFERENTIATION OF HUMAN PLURIPOTENT STEM CELLS
Jianhua Zhang, Univ of Wisconsin, Madison, WI
Timothy J Kamp, Univ of Wisconsin, Madison, WI

ADMINISTRATION OF C-KIT+ CARDIAC STEM CELLS (CSCs) RESULTS IN INCREASED PROLIFERATION AND CARDIAC CONTENT OF CSCs 1 YEAR LATER
Qianhong Li, Univ of Louisville, Louisville, KY
Roberto Bolli, Univ of Louisville, Louisville, KY

ß-ADRENERGIC SIGNALING PROMOTES CALCIUM OSCILLATIONS IN HUMAN CARDIAC PROGENITOR CELLS
Nicola Alesi, BWH, Boston, MA
Marcello Rota, BWH, Boston, MA

ADENOVIRAL GENE DELIVERY REPROGRAMS CARDIAC FIBROBLASTS INTO CARDIOMYOCYTE-LIKE CELLS WITH IN VITRO CONTRACTILE ACTIVITY: IMPLICATIONS FOR CLINICAL CARDIAC REGENERATION
Vivek K Singh, Baylor Coll of Med, Houston, TX
Todd K Rosengart, Baylor Coll of Med, Houston, TX

DOES THE STOP-FLOW TECHNIQUE IMPROVE CARDIAC RETENTION OF INTRACORONARILY DELIVERED CELLS? A STUDY OF CARDIAC RETENTION OF C-KIT+ POSITIVE HUMAN CARDIAC STEM CELLS (HCSCs) AFTER INTRACORONARY INFUSION IN A PORCINE MODEL OF CHRONIC ISCHEMIC CARDIOMYOPATHY
Matthew C.L. Keith, Univ of Louisville, Louisville, KY
Roberto Bolli, Univ of Louisville, Louisville, KY

CAROTID ARTERY IMAGING (CT/MRI/OTHER)

Assessment of Carotid Plaque Neovascularization Using Quantitative Analysis of Contrast-Enhanced Ultrasound Imaging is Useful for Risk Stratification in Patients With Coronary Artery Disease
Jun Nakamura, Univ of Yamanashi, Faculty of Med, Chuo, Japan
Kiyotaka Kugiyama, Univ of Yamanashi, Faculty of Med, Chuo, Japan

Risk Factors Associated With Progression of Carotid Wall Volume and Plaque Lipid Content in Patients With Established Vascular Disease and Treated With Intensive Lipid Therapy in the AIM-HIGH Study
Xue-Qiao Zhao, Univ of Washington, Seattle, WA
Chun Yuan, Univ of Washington, Seattle, WA

Agnesa Irlie, Univ of Cambridge, Cambridge, United Kingdom
Anthony P Davenport, Univ of Cambridge, Cambridge, United Kingdom

AGING IS ASSOCIATED WITH ABNORMAL WAVE HEMODYNAMICS IN THE CAROTID ARTERY
Ritchie Verma, Ghent Univ, Gent, Belgium
Patrick Segers, Ghent Univ, Gent, Belgium

CHANGES IN CAROTID WALL MORPHOLOGY AND PLAQUE COMPOSITION IN PATIENTS WITH ESTABLISHED VASCULAR DISEASE AND TREATED WITH INTENSIVE LIPID THERAPY IN THE AIM-HIGH STUDY
Xue-Qiao Zhao, Univ of Washington, Seattle, WA
Chun Yuan, Univ of Washington, Seattle, WA

IRON QUANTIFICATION IN CAROTID ARTERY ATHEROSCLEROSIS PREDICTS DOWNSTREAM INJURY BY MAGNETIC RESONANCE IMAGING
Travis P Sharkey-Toppen, The Ohio State Univ, Columbus, OH
Subha V Raman, The Ohio State Univ, Columbus, OH

MAGNETIC RESONANCE IMAGING-DETECTED CAROTID PLAQUE CHARACTERISTICS PREDICT SYSTEMIC CARDIOVASCULAR OUTCOMES IN PATIENTS WITH CLINICALLY ESTABLISHED ATHEROSCLEROSIS IN THE AIH-HIGH STUDY
Jie Sun, Univ of Washington, Seattle, WA
Thomas S Hatsuuki, Univ of Washington, Seattle, WA

PATIENTS WITH HUMAN IMMUNODEFICIENCY VIRUS ON CHRONIC TREATMENT HAVE INCREASED CAROTID ARTERY WALL THICKNESS ON MAGNETIC RESONANCE IMAGING
Troy M LaBounty, Univ of Michigan, Ann Arbor, MI
Antonio Hernandez Conte, Cedars-Sinai Medical Ctr, Los Angeles, CA

SIMULTANEOUS PET/MRI WITH [64Cu]-DOTATATE IMAGE ACTIVATED MACROPHAGES IN-VIVO IN PATIENTS WITH ATHEROSCLEROSIS
Sune F Pedersen, Univ of Copenhagen, 2200 Copenhagen N, Denmark
Andreas Kjær, Univ of Copenhagen, 2200 Copenhagen N, Denmark
Abstract Poster Session

Cell, Tissue Engineering and Gene-Based Therapies IV

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

Board #
Poster Professor:
Muralidhar Padala, Atlanta, GA

5111
Restoration of Interleukin-10 Levels in Differentiated Mesenchymal Stem Cells Preserves their Immunoprivilege in Allogeneic Implantation and Restores Post-Infarction Cardiac Function
Sanjiv Dhingra, Toronto General Hosp, Univ Health Network; St Boniface General Hosp Res Ctr, Toronto, ON, Canada
Ren-Ke Li, Toronto General Hosp, Univ Health Network; St Boniface General Hosp Res Ctr, Toronto, ON, Canada

5112
Dose-Escalation Study Using Novel Continuous Flow Intracoronary Delivery of Allogeneic Cardiosphere-Derived Stem Cells: Is There a Threshold for Cell Therapy?
Eleni Tseliou, Cedars - Sinai Medical Ctr, Los Angeles, CA
Eduardo Marbán, Cedars - Sinai Medical Ctr, Los Angeles, CA

5113
Immunologic Targeting of CD30 Eliminates Tumorigenic Human Pluripotent Stem Cells (iPSC) Allowing Safer Clinical Application of hiPSC-Based Therapy
Nagako Sougawa, Osaka Univ Graduate Sch of Med, Suita, Japan
Yoshiki Sawa, Osaka Univ Graduate Sch of Med, Suita, Japan

5114
Cathelicidin Related Antimicrobial Peptide Treated Bone Marrow Derived Mononuclear Cells Improves Cardiac Function in a Mouse Model of Acute Myocardial Infarction: Potential Therapeutic Targets in Ischemic Heart Disease
Yuri M Klyachkin, Lexington VAMC and Univ of Kentucky, Lexington, KY
Ahmed Abdel-Latif, Lexington VAMC and Univ of Kentucky, Lexington, KY

5115
Molecular Beacon-based Purification of Ventricular Cardiomyocytes From Differentiating Embryonic Stem Cells by Targeting Intracellular Mrna
Kiwon Ban, Emory Univ, Atlanta, GA
Young-sup Yoon, Emory Univ, Atlanta, GA

Abstract Poster Session

Clinical Issues in Mechanical Circulatory Support

South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

Board #
Poster Professor:
Craig Selzman, Salt Lake City, UT

6342
Temporary Right Ventricular Mechanical Support in Addition to a Left Ventricular Assist Device: When is It Required and When is Its Removal Feasible?
Michael Dandel, Deutsches Herzzentrum Berlin, Berlin, Germany
Roland Hetzer, Deutsches Herzzentrum Berlin, Berlin, Germany

6343
Late Right Heart Failure During Continuous-Flow Left Ventricular Assist Device Support Adversely Affects Post-Transplant Outcome
Koji Takeda, Columbia Univ, New York, NY
Yoshifumi Naka, Columbia Univ, New York, NY
6344 Novel ECMO Cannulation Strategy Expedites Conversion to LVAD
Lisa S Foley, Univ of Colorado, Aurora, CO
David A Fullerton, Univ of Colorado, Aurora, CO

6345 Left Ventricular Assist Device Reimplantation for Recurrent Heart Failure After Myocardial Recovery and Weaning
Tomohiro Saito, Deutsches Herzzentrum Berlin, Berlin, Germany
Roland Hetzer, Deutsches Herzzentrum Berlin, Berlin, Germany

45

Abstract Poster Session

APS.304.02

Common and Rare Variation and Cardiovascular Disease

South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Barry Maron, Minneapolis, MN

3087 Genetic Association Study of Circulating Galectin-3 in the General Community Identifies a Variant Associated With Myocardial Infarction
Naveen Pereira, Mayo Clinic, Rochester, MN
Margaret Redfield, Mayo Clinic, Rochester, MN

3089 Aspirin-Responsive Platelet Genes Are Associated With Platelet Function and Cardiovascular Events
Deepak Voora, Duke Univ, Durham, NC

3090 Impact of Lipoprotein(a) Genetic Variants on Heart Failure Among 14,465 Participants in the Heart Protection Study
Jemma C Hopewell, Univ of Oxford, Oxford, United Kingdom
Group on behalf of the Heart Protection Study Collaborative

3091 Toward Development of a Genetic Risk Score for Sudden Cardiac Death
Adriana Huertas-Vazquez, Cedars-Sinai Medical Ctr, Los Angeles, CA
Sumeeet S Chugh, Cedars-Sinai Medical Ctr, Los Angeles, CA

3092 Genetically Reduced High-Density Lipoprotein Cholesterol and Risk of Type 2 Diabetes: A Mendelian Randomization Study
Ruth Frikke-Schmidt, Rigshospitalet, Copenhagen Univ Hosp, Copenhagen, Denmark

3093 Elevated Levels of Lipoprotein(a) Are Causally Associated With Chronic Kidney Disease
Jennie Lin, Univ of Pennsylvania, Philadelphia, PA
Danish Saleheen, Univ of Pennsylvania, Philadelphia, PA

3095 9p21 CAD Risk Allele is Protective Against Calcific Aortic Stenosis
Muntaser D Musameh, Univ of Leicester, Leicester, United Kingdom
Nilsh J Samani, Univ of Leicester, Leicester, United Kingdom

3096 Examining Rare and Low-Frequency Genetic Variants Previously Associated With Lone or Familial Forms of Atrial Fibrillation in an Electronic Medical Record System: A Cautionary Note
Peter Weeke, Vanderbilt Univ, Nashville, TN
Dan M Roden, Vanderbilt Univ, Nashville, TN

3097 Exome Genotyping of Dallas Heart Study Reveals Putative Cardiac Disease-Causing Mutations: Disconnect Between Genotype and Phenotype
Douglas Stoller, Univ of Texas Southwestern, Dallas, TX
Helen Hobbs, Univ of Texas Southwestern, Dallas, TX

3098 Genetic Variants Primarily Associated With Inflammatory Bowel Disease Do Not Associate With Coronary Artery Disease
Henning Jansen, Deutsches Herzzentrum München, Deutsches Zentrum für Herz-Kreislauff-Zentrum (DZHK), Munich, Germany
Heribert Schunkert, Deutsches Herzzentrum München, Deutsches Zentrum für Herz-Kreislauff-Zentrum (DZHK), Munich, Germany

Abstract Poster Session

APS.107.03h

Computed Tomography: Heart

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Todd Villines, Bethesda, MD

1246 Screening of Coronary Artery Disease Among the Young Patients With Type 2 Diabetes
Sirus Darabian, Los Angeles Biomedical Res Inst, Torrance, CA
Matthew Jay Budoff, Los Angeles Biomedical Res Inst, Torrance, CA

1247 Efficacy of Cardiac Computerized Tomographic Angiography in the Evaluation of Patients with Cocaine-Induced Chest Pain: A Pilot Randomized Trial
Richard Peralta, Bronx Lebanon Hosp, New York, NY
Jonathan N Bella, Albert Einstein Coll of Med., New York, NY
Abstract Poster Session

**Computed Tomography: Heart (Left Ventricle and Left Atrium)**

**South Hall A2 - Core 1**

**Poster Displayed:** 9:00 AM - 12:00 NOON

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Kelley Branch, Seattle, WA

1226 **Multimodal in vivo Computed Tomography and Optical Imaging for Simultaneous Functional, Metabolic and Molecular Myocardial Analysis**

Jeroen Essers, ERASMUS MC, Rotterdam, Netherlands

1227 **Successful Prediction of MACE by not Occurrence of Non Sustained Ventricular Tachycardia but Presence of Myocardial Fibrosis on CT in HCM Cases without Obstructed Coronary Arteries. a Long Follow-Up Study with a Median of 69 Months**

Nobusada Funabashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

1228 **N-Terminal Pro-B-Type Natriuretic Peptide and High-Sensitivity C-Reactive Protein and Infarct Size Measured With Delayed Enhancement Multidetector Computed Tomography**

Doo Sun Sim, Chonnam Natl Univ Hosp, Gwangju, Republic of Korea

Jong Chun Park, Chonnam Natl Univ Hosp, Gwangju, Republic of Korea

1229 **Stress Computed Tomography Myocardial Perfusion is Superior to Single-Photon Emission Computed Tomography for Detection of Myocardial Ischemia**

Yasushi Ueki, Shinshu Univ Hosp, Matsumoto, Japan

1230 **Evaluation of Left Ventricular Geometry Changes in Patients with Tight Aortic Stenosis Using Multi-detector Computed Tomography**

Sang Soo Cheon, Asan Medical Ctr, Seoul, Republic of Korea

Jae-Kwan Song, Asan Medical Ctr, Seoul, Republic of Korea

1231 **Left Atrial Delayed Computed Tomography Angiography Protocol Markedly Reduces Need for TEEs Prior to Atrial Fibrillation Ablation**

Augustus Mealor, Univ of Virginia, Charlottesville, VA

Kenneth C Bilchick, Univ of Virginia, Charlottesville, VA

1232 **Excellent Negative Predictive Value of Pulmonary Vein CT Angiogram in Detecting Left Atrial Appendage Stasis and Thrombus in a Large Clinical Cohort**

Lin Wang, St Francis Hosp, Roslyn, NY

Jie J Cao, St Francis Hosp, Roslyn, NY

1233 **A Comparison Between Left Appendage Morphologies on Left Appendage Flow Velocity in Patients with Atrial Fibrillation**

Keiko Fukushima, Tokyo Womens Medical Univ, Tokyo, Japan

Nobuhiro Hagiwara, Tokyo Womens Medical Univ, Tokyo, Japan

1234 **Left Atrial (LA) Wall Motion Velocity Distribution Evaluated by 5-Dimensional Computed Tomography (5D-CT) and Its Relationship With LA Wall Remodeling in Atrial Fibrillation**

Yuko Utanohara, Sakakibara heart institute, Tokyo, Japan

Hitonobu Tomoike, Sakakibara heart institute, Tokyo, Japan

1235 **Left Atrial Appendage CT Contrast Defects Correlate With CHADS2 Score and is a Prognostic Indicator for Embolism in Subjects With Atrial Fibrillation or Flutter**

Nobusada Funabashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan
Abstract Poster Session

APS.107.02

Computed Tomography: Heart (Noncoronary)

South Hall A2 - Core 1
Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Antoinette Gomes, Los Angeles, CA

1236  A Triple-Targeting Strategy for Characterization of Plaque Inflammation in Mice and Humans Using Molecular Imaging
Marvin Krohn-Grimberghe, Heart Ctr, Univ of Freiburg, Freiburg, Germany
Constantin von zur Muhlen, Heart Ctr, Univ of Freiburg, Freiburg, Germany

Johan Verjans, Massachusetts General Hosp, Boston, MA
Farouc A Jaffer, Massachusetts General Hosp, Boston, MA

1238  Novel Non-Invasive Method to Estimate Myocardial Mass at Risk Calculated From Cardiac Computed Tomography Data: Validation Study Using Angiographic Myocardial Jeopardy Scores in Patients With Single Vessel Disease
Seiko Ide, Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan
Yasushi Sakata, Osaka Univ Graduate Sch of Med, Suita, Osaka, Japan

1239  Computed Tomography Angiography Can Replace Cardiac Catheterization in the Surgical Planning of Select Neonates with Major Aortopulmonary Collaterals
Holly Bauser-Heaton, Stanford Univ, Palo Alto, CA
Francis P Chan, Stanford Univ, Palo Alto, CA

1240  Utility of Cardiac Computed Tomography in Detecting Malposition of Left Ventricular Assist Devices Associated With Pump Thrombosis
Mahwash Kassi, Houston Methodist, Houston, TX
Su Min Chang, Houston Methodist Hosp, Houston, TX

1241  Differences in the Tolerable Threshold of Right Ventricular Volume Predict Adverse Events in Patients With Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension
Koya Ozawa, Chiba Univ Graduate Sch of Med, Chiba, Japan
Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan

Abstract Poster Session

APS.210.06

Diabetes Mellitus and CVD: Prevention and Management VI

South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Peter Wilson, Atlanta, GA

2364  Is the Association of Statin Use and Incident Diabetes Mellitus Still Significant in Primary Prevention Treatment When Accounting for Incident Cardiovascular Events?
Viet T Le, Intermountain Medical Ctr, Murray, UT
Jeffrey L Anderson, Intermountain Medical Ctr, Univ of Utah, Murray, UT

2365  Statin Therapy and Inflammation in Patients With Diabetes Treated With High Dose Aspirin
Paul A Gurbel, Sinai Hosp Baltimore, Baltimore, MD

1242  Ulcerated Plaque in Descending Thoracic Aorta Might Be Helpful to Predict With Cardiac Event in Non-Significant Coronary Artery Disease
Seung Pyo Hong, Daegu Catholic Univ Medical Center, Daegu, Republic of Korea
Kee Sik Kim, Daegu Catholic Univ Medical Center, Daegu, Republic of Korea

1243  Prospective Study to Evaluate the Accuracy of Aortic Annulus Diameter Measurement: a Comparison of Multi-detector CT versus Two- and Three- Dimensional Echocardiography
Hiroshi Tsuneyoshi, Kurashiki Central Hosp, Kurashiki, Japan
Takeshi Shimamoto, Kurashiki Central Hosp, Kurashiki, Japan

1244  The Effect of Statins on Aortic Root Dimensions in Bicuspid Aortic Valve Disease
Madelien V Reger, Leiden Univ Medical Ctr, Leiden, Netherlands
Victoria Delgado, Leiden Univ Medical Ctr, Leiden, Netherlands

1245  Computer Tomography Prior to Transcatheter Aortic Valve Implantation: the Challenge With Large Aortic Annular Size
Venkata K Puppala, Univ of Minnesota, Minneapolis, MN
Tanvir K Bajwa, Milwaukee Heart Inst, Milwaukee, WI
Abstract Poster Session

Emerging Technologies III

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
TBD

8050
Mobile Technology-Based Home Monitoring for Infants With Single Ventricle
Girish Shirali, Children's Mercy Hosp, Kansas City, MO
Kathy Goggin, Children's Mercy Hosp, Kansas City, MO

8051
High Intensity Focused Ultrasound Can Produce Noninvasive Myocardial Infarction in Mice
Ralph V Shohet, Univ of Hawaii, Honolulu, HI

8052
Focused Cardiac Ultrasound in Place of Repeat Echocardiography: Reliability and Cost Implications
Vinay Kini, Hosp of the Univ of Pennsylvania, Philadelphia, PA
James N Kirkpatrick, Hosp of the Univ of Pennsylvania, Philadelphia, PA

8053
Characterization of epicardial adipose tissue in Ischemic Heart Disease: a CMR study
Maria Luaces, Hosp Clinico San Carlos, Madrid, Spain
Carlos Macaya, Hosp Clinico San Carlos, Madrid, Spain

8054
Preoperative Assessment Using 3-D Models Improves Surgical Planning for Patients With Complex Congenital Cardiac Defects
Matthew Bramlet, Children's Hosp of Illinois, Peoria, IL
Welke Karl, Children's Hosp of Illinois, Peoria, IL

8055
ST Segment Variability as a Predictor of Clinical Deterioration in Hypoplastic Left Heart Syndrome
Eric L Wu, Texas Children's Hosp, Baylor Coll of Med, Houston, TX
Ken Brady, Texas Children's Hosp, Baylor Coll of Med, Houston, TX

8056
Rapid Prototyping of the Aortic Root in Severe Aortic Stenosis for Pre-TAVR Planning
Zhen Qian, Piedmont Heart Inst, Atlanta, GA
Mani Vannan, Piedmont Heart Inst, Atlanta, GA

8057
Innovation in Cardiac Care: Direct Transmission of Remote Implantable Cardioverter Defibrillator Data to Patients through Their Electronic Personal Health Records
Areej Sami, Parkview Res Ctr, Fort Wayne, IN
Michael Mirro, Parkview Res Ctr, Fort Wayne, IN
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<thead>
<tr>
<th>Session</th>
<th>Title</th>
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<th>Location</th>
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</thead>
<tbody>
<tr>
<td>8058</td>
<td>Assessment of Perioperative Minute Ventilation in Obese versus Non-Obese Patient Using a Non-Invasive Respiratory Volume Monitor</td>
<td>Jenny Freeman, Respiratory Motion, Inc., Waltham, MA; Edward George, Massachusetts General Hosp, Boston, MA</td>
<td>Grand Concourse Lobby and HeartQuarters Booth 1059</td>
</tr>
</tbody>
</table>

### Abstract Poster Session

#### Endovascular Therapy I

**APS.604.01**

**South Hall A2 - Core 6**

**Posters Displayed:** 9:00 AM - 12:00 NOON

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Michael S Conte, San Francisco, CA

<table>
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<th>Presentation</th>
<th>Title</th>
<th>Authors</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6121</td>
<td>Impact of Percutaneous Transluminal Renal Angioplasty on Clinical Outcomes in Patients with Renal Artery Stenosis: an Update Meta-analysis and Meta-regression</td>
<td>Shunichi Nakamura, Nippon Medical Sch, Tokyo, Japan; Wataru Shimizu, Nippon Medical Sch, Tokyo, Japan</td>
<td>South Hall A2 - Core 6</td>
</tr>
<tr>
<td>6122</td>
<td>Impact of Atrial Fibrillation on Clinical Outcome of Femoropopliteal Artery Intervention in Critical Limb Ischemia</td>
<td>Hiroyuki Jinnouchi, Kokura Memorial Hosp, Kitakyusyu, Japan; Yusuke Tomoi, Kokura Memorial Hosp, Kitakyusyu, Japan</td>
<td>South Hall A2 - Core 6</td>
</tr>
<tr>
<td>6123</td>
<td>Optimal Balloon Size in Post-Stenting Angioplasty for Aortoiliac Occlusive Disease (AIOD) With Self-Expandable Nitinol Stent</td>
<td>Shota Tohoku, Kokura memorial hospital, Kitakyushu, Japan; Yusuke Tomoi, Kokura memorial hospital, Kitakyushu, Japan</td>
<td>South Hall A2 - Core 6</td>
</tr>
<tr>
<td>6124</td>
<td>Utility of Peak Systolic Velocity Ratio in Asymptomatic Patients With Restenosis After Endovascular Therapy for Femoro-Popliteal Lesion</td>
<td>Shota Tohoku, Kokura Memorial Hosp, Kitakyushu, Japan; Yusuke Tomoi, Kokura Memorial Hosp, Kitakyushu, Japan</td>
<td>South Hall A2 - Core 6</td>
</tr>
<tr>
<td>6125</td>
<td>Aortic Neck Length and Mortality After Repair of Ruptured Abdominal Aortic Aneurysm</td>
<td>Janet T Powell, Imperial Coll, London, United Kingdom</td>
<td>South Hall A2 - Core 6</td>
</tr>
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</table>

#### Endovascular Therapy II

**APS.604.02**

**South Hall A2 - Core 6**

**Posters Displayed:** 9:00 AM - 12:00 NOON

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Parag Patel, Milwaukee, WI

<table>
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<th>Presentation</th>
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<th>Authors</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6126</td>
<td>Mortality Risk for Ruptured Abdominal Aortic Aneurysm After Endovascular and Open Intervention in Women</td>
<td>Paola De Rango, Vascular and Endovascular Surgery, Perugia, Italy; Massimo Lenti, Vascular and Endovascular Surgery, Perugia, Italy</td>
<td>South Hall A2 - Core 6</td>
</tr>
<tr>
<td>6127</td>
<td>What Kind of Carotid Plaque is Detected as High Intensity Signal Area in T1-weighted Image Detected by Black-blood MRI ? : a Study With Optimal Coherence Tomography During Carotid Artery Stenting Procedure</td>
<td>Megumi Suzuki, Nara Pref Western Medical Ctr, Nara, Japan; Naofumi Doi, Nara Pref Western Medical Ctr, Nara, Japan</td>
<td>South Hall A2 - Core 6</td>
</tr>
<tr>
<td>6128</td>
<td>Comparison of Vascular Flow Reserve After Infrapopliteal Intervention Between Patients With Rest Pain and Patients With Tissue Loss Masashi Fukunaga, Hyogo Coll of Med, Nishinomiya, Japan; Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan</td>
<td>South Hall A2 - Core 6</td>
<td></td>
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<tr>
<td>6130</td>
<td>Successful Preclinical Study of Microporous Covered Stents for Intracranial Aneurysms</td>
<td>Yasuhide Nakayama, Natl Cerebral and Cardiovascular Ctr Res Inst, Osaka, Japan; Jun Takahashi, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan</td>
<td>South Hall A2 - Core 6</td>
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<tr>
<td>6131</td>
<td>WITHDRAWN</td>
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</tbody>
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**WITHDRAWN**
1-Year Results of Paclitaxel-Coating Nitinol Stent Placement for Chronic Total Occlusion in the Femoropopliteal Artery
Naotaka Murata, Tokyo Medical Univ, Tokyo, Japan
Kei Ichihashi, Kokura Memorial Hosp, Kitakyusyu, Japan

Prevalence, Predictors and Prognostic Impact of High On-treatment Platelet Reactivity to Aspirin and Clopidogrel in Patients With Symptomatic Peripheral Artery Disease in Japanese Population
Kayoko Fukino, New Tokyo Hosp, Chiba, Japan
Sunao Nakamura, New Tokyo Hosp, Chiba, Japan

New Insight into the Post Implantation Syndrome after Endovascular Therapy in Patients with Acute Aortic Syndromes
Riccardo Gorla, Circolo Hosp Fond Macchi and Univ of Insubria, Varese, Italy
Rolf Alexander Janosi, West-German Heart Ctr and Univ Duisburg-Essen, Essen, Germany

Enhanced Cellular Proliferation and Altered Collagen Deposition May Accelerate Atherosclerosis in Human Peripheral Artery Disease: Implication of Morphological Predictors in Restenotic Plaque Progression
Prakash Krishnan, Icahn Sch of Med at Mount Sinai, New York, NY
Pedro R Moreno, Icahn Sch of Med at Mount Sinai, New York, NY

Impact of the Duration of Dual Antiplatelet Therapy in Patients with Peripheral Arterial Occlusive Disease After Percutaneous Transluminal Angioplasty on Clinical Outcomes
Sungsoo Cho, Severance Cardiovascular Hosp, Yonsei Univ Coll of Med, Seoul, Republic of Korea
Yangsoo Jang, Severance Cardiovascular Hosp, Yonsei Univ Coll of Med, Seoul, Republic of Korea

Development and Implantation of Tissue Engineered Self-expandable Aortic Stent Grafts (bio Stent Grafts) Using In-body Tissue Architecture Technology in Beagles
Hidetake Kawajiri, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan
Yasuhide Nakayama, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan

Prognostic Values of Ratio of Serum Eicosapentaenoic Acid to Arachidonic Acid on Clinical Outcome after Endovascular Therapy in Patients with Peripheral Artery Disease due to Femoropopliteal Artery Lesions
Keiichi Hishikari, Yokosuka Kyosai Hosp, Yokosuka, Japan
Mitsuki Isobe, Tokyo Medical and Dental Univ, Tokyo, Japan

Reactive Oxygen Metabolites Are Elevated in Relation to Severity of Heart Failure and Predict Cardiovascular Events in Heart Failure with Reduced Ejection Fraction
Takanori Tokitsu, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

Enhanced Prediction of Heart Failure 30-Day Readmission Risk With Four Readily-Available Clinical Variables
Nicholas Wettersten, Univ of California, Davis, Sacramento, CA
Javier E López, Univ of California, Davis, Davis, CA

Clinical Prediction of Incident Heart Failure in Type 2 Diabetes Mellitus in 507,637 Patients: a Systematic Review and Meta-analysis
Makoto Saito, Menzies Res Inst Tasmania, Hobart, Australia
Thomas H Marwick, Menzies Res Inst Tasmania, Hobart, Australia

Plasma Adrenocorticotropic Hormone as a Useful Predictor of Prognosis in Patients With Acute Decompensated Heart Failure
Rika Kawakami, Nara Medical Univ, Kashihara, Japan

Plasmid Adrenocorticotropic Hormone as a Useful Predictor of Prognosis in Patients With Acute Decompensated Heart Failure
Rika Kawakami, Nara Medical Univ, Kashihara, Japan

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Plasma Adrenocorticotropic Hormone as a Useful Predictor of Prognosis in Patients With Acute Decompensated Heart Failure
Rika Kawakami, Nara Medical Univ, Kashihara, Japan
2590  Serial Measurements of High-Sensitive Cardiac N-terminal Pro B-type Natriuretic Peptide Predict Prognosis of Ambulant Chronic Heart Failure Patients: Results of the Bio-shift Study
Nick van Boven, Medical Ctr Alkmaar, Alkmaar, Netherlands
Isabella Kardys, Erasmus Medical Ctr, Rotterdam, Netherlands

2591  Clinical Predictors of Response to Beta-Blocker Therapy in Patients with Heart Failure and Reduced Ejection Fraction due to Non-Ischemic Cardiomyopathy
Sameer Athar, Univ of Alabama at Birmingham, Vestavia, AL
Ali Ahmed, Univ of Alabama at Birmingham, Birmingham, AL

2592  Racial and Ethnic Differences in Preserved Ejection Fraction and Reduced Ejection Fraction Incident Heart Failure in a Multiracial Cohort of Post-Menopausal Women
Abdullah Quddus, Alpert Medical Sch of Brown Univ, Pawtucket, RI
Charles B Eaton, Alpert Medical Sch of Brown Univ, Pawtucket, RI

2593  Day of the Week and Acute Heart Failure Admissions: Relation With Acute Myocardial Infarction, Length of Stay and Readmission Rate
Mahek Shah, Einstein Medical Ctr, Philadelphia, PA
Aditya Chandorkar, Einstein Medical Ctr, Philadelphia, PA

2594  Frailty Predicts Mortality and Hospital Readmission Amongst Elderly Heart Failure (HF) Patients Discharged From Hospital or the Emergency Department (ED)
Penelope Rampersad, Univ of Toronto, Toronto, ON, Canada
Douglas S Lee, Univ of Toronto, Toronto, ON, Canada

Abstract Poster Session

Epidemiology, Screening and Prevention in the Pediatric Population
South Hall A2 - Core 3
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Michele Mietus-Snyder, Washington, DC

Nasa Model of “Threat and Error” in Paediatric Cardiac Surgery: Death Typically Results From Cycles of Error That Originate in the Operating Room and Are Amplified by Additional Error in Intensive Care
Edward Hickey, The Hosp for Sick Children, Toronto, ON, Canada
Glen S Van Arsdell, The Hosp for Sick Children, Toronto, ON, Canada

Obstructive Sleep Apnea Independently Mediates Cardio-Metabolic Risk in Obese Adolescents
Cedric Manlhiot, The Hosp for Sick Children, Toronto, ON, Canada
Jill Hamilton, The Hosp for Sick Children, Toronto, ON, Canada

Pulse Oximetry Overestimates Arterial Oxy-Hemoglobin in Neonates With Known Critical Congenital Heart Disease (CCHD) - Implications for Newborn Screening
Daniel P Murphy, Harbor UCLA / Children’s Hosp Orange County, Torrance, CA
John P Cleary, Children’s Hosp Orange County, Orange, CA

WITHDRAWN

Handheld Echocardiography Improves Detection of Rheumatic Heart Disease in Ugandan Schoolchildren Compared to Auscultation
Justin Godown, Univ of Michigan, Ann Arbor, MI
Gregory J Ensing, Univ of Michigan, Ann Arbor, MI

Risk Factors for Abnormal Developmental Trajectories in Young Children with Congenital Heart Disease
Kathleen Mussatto, Children’s Hosp of Wisconsin, Milwaukee, WI
Cheryl Brosig, Medical Coll of Wisconsin, Milwaukee, WI

Children After Fontan have the Strength, Body Composition, and Daily Moderate-to-Vigorous Physical Activity Required for Successful Participation with Peers
Patricia E Longmuir, Children’s Hosp of Eastern Ontario Res Inst, Ottawa, ON, Canada
Brian W McCrindle, Hosp for Sick Children, Toronto, ON, Canada
3246  Race to the Top: Are Children With Congenital Heart Disease Off to a False Start?  
Matthew Oster, Children’s Healthcare of Atlanta, Atlanta, GA  
Bryan Williams, Emory Univ, Atlanta, GA

3247  Receipt of Special Education Services Among Children with Congenital Heart Defects in Atlanta, Georgia  
Tiffany Colarusso, CDC, Atlanta, GA  
Adolfo Correa, Univ of Mississippi Medical Ctr, Jackson, MS

3248  Fetal and Neonatal Markers of Neurodevelopmental Outcome in Congenital Heart Disease  
Ismee A Williams, Morgan Stanley Children’s Hosp of NewYork-Presbyterian, Columbia Univ Medical Ctr, New York, NY  
William Fifer, New York State Psychiatric Inst, New York, NY

Abstract Poster Session

APS.303.01  Functional Genomics of Myocardial Disorders

South Hall A2 - Core 3  
Posters Displayed:  9:00 AM - 12:00 NOON  
Presenter Available:  9:30 - 11:00 AM

BOARD #

Poster Professor:  
Roger Foo, Cambridge, United Kingdom

3051  Different Human Mutations in the Myosin Binding Protein C3 (MYBPC3) Produce Specific Cardiac Phenotypes in the Zebrafish  
Sahar I Da’as, Qatar Fndn, Doha, Qatar  
Magdi H Yacoub, Qatar Fndn, Doha, Qatar

3052  Both Common and Rare SCN10A Variants Associated with Brugada Syndrome Displayed an Increase in Late Nav1.8 Sodium Currents in ND 7/23 cells  
Eleonora Savio-Galimberti, Vanderbilt Univ, Nashville, TN  
Brugada Gene Discovery Group

3053  Altered Nuclear and Cytoskeletal Mechanics and Defective Cell Adhesion in Cardiac Myocytes Carrying the Cardiomyopathy LMNA D192G Mutation  
Orfeo Sbaizero, Univ of Trieste, Trieste, Italy  
Luisa Mestroni, Univ of Colorado Denver AMC, Aurora, CO

3054  Estrogen Receptor β Mediates Sex Differences in the Proteomic Response of the Heart to Pressure Overload  
Georgios Kararigas, Charite Univ Hosp, Berlin, Germany  
Vera Regitz-Zagrosek, Charite Univ Hosp, Berlin, Germany

Inhibition of Mechanistic Target of Rapamycin by Heterozygous Deletion of Raptor Ameliorates Pressure-overload Induced Heart Failure and the Associated Proteomics Remodeling  
Dao Fu Dai, Univ of Washington, Seattle, WA

RNA Splicing Regulated by A2bp1 is Essential for Cardiac Function in Zebrafish  
Karen S Frese, Univ Hosp Heidelberg, Heidelberg, Germany  
Wolfgang Rottbauer, Univ Hosp Ulm, Ulm, Germany

Citrullination in Actin-Tropomyosin-Myosin Complex: Novel Regulatory Mechanism  
Justyna Fert-Bober, Cedars-Sinai Medical Ctr, Los Angeles, CA 90048, CA  
Jennifer Van Eyk, Cedars-Sinai Medical Ctr, Los Angeles, CA

Deciphering and Exploiting MicroRNA-Target Interactomes in Human Cardiac Tissues  
Ryan L Boudreau, Univ of Iowa, Iowa City, IA

Identification of MicroRNAs Inducing Adult Cardiomyocyte Proliferation  
Raghav Pandey, Univ of Cincinnati, Cincinnati, OH  
Rafeeq ph Ahmed, Univ of Cincinnati, Cincinnati, OH

WITHDRAWN

Heart Failure Poster Session

APS.506.06  Heart Failure Challenges: The Good, the Bad and the Ugly

South Hall A2 - Core 5  
Posters Displayed:  9:00 AM - 12:00 NOON  
Presenter Available:  9:30 - 11:00 AM

BOARD #

Poster Professor:  
Maryl Johnson, Madison, WI

5286  Community Disease Management Program in Patients With Heart Failure: A Randomized Controlled Trial  
Ofra Kalter-Leibovici, Gertner Inst, Ramat-Gan, Israel  
Israeli Community Disease Management in Heart Failure

5287  Demographics and Survival of a Cohort of Blood and Breast Cancer Patients Who Developed Heart Failure Following Cancer Treatment  
Robyn A Clark, Flinders Univ, Adelaide, Australia  
David Roden, Univ of South Australia, Adelaide, Australia
Wednesday, November 19 • Chicago, Illinois

### Abstract Poster Session

#### Heart Failure Pharmacology: From the Membrane to the Mitochondria

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

**Poster Professor:** TBD

- **Nitroxyl (HNO) donated via Slow-Release Oral Pro-Drug Improves Ventriculo-Arterial Coupling in Conscious Dogs with Induced Heart Failure: Enhanced Load-Independent Mechano-Energetics**
  
  Carlos L del Rio, QTest Labs, Columbus, OH
  John E Reardon, Cardioxyl Pharmaceuticals, Chapel Hill, NC

- **Improved Mitochondrial Respiration in Left Ventricular Myocardium of Dogs with Heart Failure Following Long-term Therapy with Bendavia (MTP-131) is Associated with Suppression of the Pro-inflammatory State and Down-regulation of Inducible Nitric Oxide Synthase**
  
  Hani N Sabbah, Henry Ford Hosp, Detroit, MI
  Ramesh C Gupta, Henry Ford Hosp, Detroit, MI

- **Next Generation Sequencing of Cardiac Gene Expression Changes Associated With Heart Failure in Chronic Inflammation Inhibition**
  
  Takehiro Matsumoto, Kusatsu Gnereral Hosp, Kusatsu, Japan
  Minoru Horie, Shiga Univ of Medical Science, Ohtsu, Japan

- **Autoantibody Titer Directed Against β1-Adrenergic Receptors is a Predictor of Reverse Remodeling During Carvedilol Therapy for Chronic Heart Failure: Japanese Chronic Heart Failure (J-CHF) Study**
  
  Yuji Nagatomo, Cleveland Clinic Fndn, Cleveland, OH
  J-CHF Investigators

- **Monotherapy With Bendavia (MTP-131), a Novel Mitochondria-Targeting Peptide, Normalizes H11 Kinase Protein Levels in Nuclear and Mitochondrial Fractions of Left Ventricular Myocardium of Dogs With Advanced Heart Failure**
  
  Ramesh C Gupta, Henry Ford Hosp, Detroit, MI
  Hani N Sabbah, Henry Ford Hosp, Detroit, MI

- **Bendavia (MTP-131), a Mitochondria Targeting Peptide, Normalizes Dysregulation of Mitochondria Fission and Fusion Proteins in Myocardium of Dogs With Chronic Heart Failure**
  
  Hani Sabbah, Henry Ford Hosp, Detroit, MI
  Paula Mohyi, Henry Ford Hosp, Detroit, MI
Auratpen, a Coumaric Compounds Analogous, Improved the Worsening of Systolic Function by Activating Mitochondrial Function After Myocardial Infarction in Rats
Yoichi Sunagawa, Univ of Shizuoka, Shizuoka, Japan
Tatsuya Morimoto, Univ of Shizuoka, Shizuoka, Japan

Anti-arrhythmic Effect of a Novel Rycal, S44121 / Arm036, in a Post-myocardial Infarction Mouse Model of Heart Failure
Alain Lacampagne, Inserm U1046, Montpellier, France
Sylvain Richard, Inserm U1046, Montpellier, France

Human C-Type Natriuretic Peptide-53: A Distinct Molecular Form With in vitro and in vivo Biological Actions Through cGMP Generation
S Jeson Sangaralingham, Mayo Clinic, Rochester, MN
John C Burnett, Mayo Clinic, Rochester, MN

Short (2 hour) Intravenous Infusion of Purified Poloxamer-188 (MST-188) Elicits Prolonged (1-2 weeks) Improvement in Biomarkers in Dogs with Advanced Heart Failure
Hani N Sabbah, Henry Ford Hosp, Detroit, MI
Marty Emanuele, Mast Therapeutics, Inc., San Diego, CA

Adaptive Servo-ventilation is More Effective in Dilated Cardiomyopathy Patients than Ischemic Cardiomyopathy Patients and Heart Failure with Preserved Ejection Fraction Patients
Tatsunori Ikeda, Kouseiren Takaoka Hosp, Takaoka, Japan
Shuichi Kaneko, Kanazawa Univ, Kanazawa, Japan

Incremental Prognostic Value of Cardiac Iodine-123 Metaiodobenzylguanidine Imaging in Patients With Chronic Heart Failure: A Comparison With Right Ventricular Ejection Fraction
Shunsuke Tamaki, Osaka General Medical Ctr, Osaka, Japan
Masatake Fukunami, Osaka General Medical Ctr, Osaka, Japan
Abstract Poster Session

Heart Failure: Molecular Pathophysiology

South Hall A2 - Core 5

Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Thom Force, Philadelphia, PA

5131 Activation of mTORC1 in Cardiomyocyte is Associated with Fibrosis and Cardiomyocyte Loss in Heart Failure with Reduced Ejection Fraction
Toshiyuki Yano, Sapporo Medical Univ Sch of Med, Sapporo, Japan
Tetsuji Miura, Sapporo Medical Univ Sch of Med, Sapporo, Japan

5132 Changes in the Adhesion of the Cardiomyocytes of Patients With Ischemic Cardiomyopathy are Highly Related to Depressed Left Ventricular Function
Miguel Rivera, Hosp La Fe, Valencia, Spain
Manuel Portoles, Hosp La Fe, Valencia, Spain

5133 CD39/CD73 Pathway in End-stage Human Ischemic Cardiomyopathy
Tatiana Novitskaya, Vanderbilt Univ, Nashville, TN
Richard J Gumina, Vanderbilt Univ, Nashville, TN

5134 Thymosin µ4 and its Cleavage Product AcSDKP Are Down-regulated in Left Ventricular Myocardium of Dogs with Chronic Heart Failure
Ramesh C Gupta, Henry Ford Hosp, Detroit, MI
Hani N Sabbah, Henry Ford Hosp, Detroit, MI

5135 Sirt2 Regulates Cardiac Hypertrophic in Response to Pressure Overload
Xiaoyan Yang, Northwestern Univ, Chicago, IL
Hossein Ardehali, Northwestern Univ, Chicago, IL

5136 Differential Gene Expression of C-Type Natriuretic Peptide and Its Related Molecules in Ischemic and Dilated Cardiomyopathy: A New Option in the Management of Heart Failure
Miguel Rivera, Hosp La Fe, Valencia, Spain
Manuel Portoles, Hosp La Fe, Valencia, Spain

5137 Characterization of Heart Mitochondrial Proteome Elucidates Significant Changes in Cardiac Energy Metabolism and Antioxidant Prdx3 in Human Dilated Cardiomyopathy
Miguel Rivera, Hosp La Fe, Valencia, Spain
Manuel Portoles, Hosp La Fe, Valencia, Spain

Abstract Poster Session

Heart Failure: Outcomes and Clinical Trials

South Hall A2 - Core 5

Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

BOARD #

Poster Professor:
Justin Ezekowitz, Edmonton, AB, Canada

5276 Use of Antithrombotic Therapies and Outcomes in Patients with Atrial Fibrillation and Heart Failure: Insights from the GARFIELD Registry
Ramon Corbalan, Catholic Univ Hosp, Santiago, Chile
for the GARFIELD Investigators

5277 Efficacy and Safety of Edoxaban Compared With Warfarin in Patients With Atrial Fibrillation and Heart Failure: Insights From ENGAGE-AF TIMI 48
Giulia Magnani, TIMI Study Group, Brigham and Women's Hosp and Harvard Medical Sch, Boston, MA
Elliott M Antman, TIMI Study Group, Brigham and Women’s Hosp and Harvard Medical Sch, Boston, MA

5138 Deletion of Fatty Acid Binding Protein-4 and -5 Exacerbate Cardiac Dysfunction Because of Insufficient Adenosine Triphosphate Production during Pressure Overload in Mice
Mas R Syamsunarno, Gunma Univ Graduate Sch of Med, Maebashi, Japan
Masahiko Kurabayashi, Gunma Univ Graduate Sch of Med, Maebashi, Japan

5139 Activation of PPARδ During the Progressive Phase of Heart Failure Improved Myocardial Energies and Function in Pressure Overload Heart Failure
Satoshi Kaimoto, Kyoto prefectural Univ of Med, Kyoto, Japan
Satoaki Matoba, Kyoto prefectural Univ of Med, Kyoto, Japan

5140 Lamin A/C-Related Cardiomyopathy Specific Induced-Pluripotent Stem Cells-Derived Cardiomyocytes Stressed by Adrenergic-Stimulation Recapitulate the Aging-Related Phenotype in an Early Phase of Differentiation
Suguru Nishiuichi, Kyoto Univ Graduate Sch of Med, Kyoto, Japan
Takeshi Kimura, Kyoto Univ Graduate Sch of Med, Kyoto, Japan

Purchase Sessions OnDemand™ Premium today and save $200 — in the Grand Concourse Lobby and HeartQuarters Booth 1059
5278 The Impact of Atrial Fibrillation on Heart Failure With Preserved versus Reduced Ejection Fraction in the Middle East Region: Insights From the Gulf aCute heArt failuRe Registry (Gulf CARE)
Nidal A Asaad, Hamad Medical Corp, Doha, Qatar
Magdi Yacoub, Qatar Cardiovascular Res Ctr, Doha, Qatar

5279 Cardiorenal Outcomes and the Efficacy of Darbepoetin in Patients With Heart Failure, Reduced Ejection Fraction, Anemia and Advanced Chronic Kidney Disease
Akhshay S Desai, Brigham & Womens Hosp, Boston, MA
James B Young, Cleveland Clinic, Cleveland, OH

5280 A Three year Retrospective Analysis of Adverse Cardiac Outcomes in Heart Failure Patients Using Cocaine on Beta-blockers
Bimaje Akpa, Meharry Medical Coll, Nashville, TN
Henry Okato, Meharry Medical Coll, Nashville, TN

5281 Association of Alpha-Blocker Use with Heart Failure Hospitalization
Lingyun Lu, Western Univ of Health Sciences and VA Greater Los Angeles, Pomona, CA
Alberta Warner, VA Greater Los Angeles Healthcare System and UCLA, Los Angeles, CA

5282 Relationship of Serum Erythropoietin Level to Clinical Outcome in Acute Heart Failure Patients without Anemia
Takehiro Honma, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan
Toshihisa Anzai, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan

5283 A Collaborative Approach to Developing Culturally Appropriate Heart Failure Self-Care Tools for Indigenous Australians Using Multi-Media Technology
Narelle Berry, Flinders Univ, Adelaide, Australia

5284 Outcomes After Percutaneous Coronary Intervention for Patients With Stable Coronary Disease and Left Ventricular Systolic Dysfunction
Adam D DeLore, Duke Univ Medical Ctr, Durham, NC
Eric J Velazquez, Duke Univ Medical Ctr, Durham, NC

5285 Urine Aquaporin-2 Level is a Novel Marker for the Better Prognosis After Long-Term Tolvaptan Treatment in Patients With Advanced Heart Failure
Teruhiko Imamura, Graduate Sch of Med, Univ of Tokyo, Tokyo, Japan
Issei Komuro, Graduate Sch of Med, Univ of Tokyo, Tokyo, Japan

5290 Impact of Pain and Heart Failure Symptom Severity on Physical Performance
Suzanne Wingate, Nati Insts of Health, Bethesda, MD
Sarah Goodlin, Patient-Ctred Education & Res, Salt Lake City, UT

5291 Moderate to Severe Acute Kidney Injury Provides the Additional Long-Term Prognostic Information to the Blood Urea Nitrogen to Creatinine Ratio in Patients Admitted With Acute Decompensated Heart Failure
Takahisa Yamada, Osaka General Medical Ctr, Osaka, Japan
Masatake Fukunami, Osaka General Medical Ctr, Osaka, Japan

5292 Utility of Remote Monitoring Using a Mobile Phone in Patients with Heart Failure: the REMOTE-HF-1 Study
Marcus Stahlberg, Karolinska Univ Hosp, Stockholm, Sweden
Frieder Braunschweig, Karolinska Univ Hosp, Stockholm, Sweden

5293 Impact of Chronic Obstructive Pulmonary Disease on Cardiovascular Function and Prognosis in Heart Failure Patients
Takeshi Shimizu, Fukushima Medical Univ, Fukushima, Japan
Yasuchika Takeishi, Fukushima Medical Univ, Fukushima, Japan

5294 Impact of Peripheral Artery Disease on Prognosis in Heart Failure Patients
Yuichi Nakamura, Fukushima Medical Univ, Fukushima, Japan
Yasuchika Takeishi, Fukushima Medical Univ, Fukushima, Japan

5295 Brachial Pulse Pressure Predicts Adverse Outcomes Including Heart Failure Hospitalizations in Women With Preserved Ejection Fraction and No Obstructive Coronary Artery Disease: A Report from the Women’s Ischemia Syndrome Evaluation
Juan R Vilaro, Univ of Florida, Gainesville, FL
Carl J Pepine, Univ of Florida, Gainesville, FL
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<td>Liver Stiffness Shown by Transient Elastography - Potential Marker for Liver Dysfunction in Heart Failure</td>
<td>Tatsunori Taniguchi, Osaka Univ Graduate Sch of Med, Saita, Japan</td>
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<td>Yasushi Sakata, Osaka Univ Graduate Sch of Med, Saita, Japan</td>
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<td>5263</td>
<td>Higher Plasma Osmolality as an Independent Determinant of In-hospital Worsening Renal Function in Acute Decompensated Heart Failure</td>
<td>Tetsufumi Motokawa, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan</td>
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<td>Toshihisa Arzai, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan</td>
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<td>5264</td>
<td>Impact of Dynamic Mitral Regurgitation on Functional Capacity in Heart Failure Patients</td>
<td>Francesco Bandera, IRCCS Polyclinico San Donato, San Donato Milanese, Italy</td>
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<td>Marco Guazzi, IRCCS Polyclinico San Donato, San Donato Milanese, Italy</td>
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<td>5265</td>
<td>Combined Assessment of High-Sensitive Troponin I and N-Terminal Pro-B-Type Natriuretic Peptide Levels Improves the Prediction of Future Admission for Heart Failure in Outpatients With Chronic Kidney Disease</td>
<td>Junnichi Ishii, Fujita Health Univ, Toyoake, Japan</td>
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<td>Yukio Ozaki, Fujita Health Univ, Toyoake, Japan</td>
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### Abstract Poster Session

**APS.719.02 Hypertension: Integrative Cardiovascular Control**

South Hall A2 - Core 7  
Posters Displayed: 9:00 AM - 12:00 NOON  
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**  
Kamal Rahmouni, Iowa City, IA

**7478**  
Mutation of Anti-aging Gene Klotho Causes Hypertension via Upregulation of CYP11B2 Expression and Aldosterone Synthesis  
Zhongjie Sun, Univ Oklahoma Health Sciences Ctr, Oklahoma City, OK

**7479**  
Increased 20-HETE Signaling Contributes to Gender- and Mouse Strain-Specific Hypertension in the Setting of Impaired NO-sGC Signaling  
Sara Vanderwijngaert, Massachusetts General Hosp & Harvard Medical Sch, Boston, MA  
Emmanuel S Buys, Massachusetts General Hosp & Harvard Medical Sch, Boston, MA

**7480**  
A New Role of Sox6 in Renin Regulation  
Jose Gomez, Duke Univ, Durham, NC  
Maria Mirotou, Duke Univ, Durham, NC

**7481**  
Antihypertensive Properties of Subcutaneous M-ANP, a Novel Designer Atrial Natriuretic Peptide, in a Canine Model of Chronic Angiotensin-II Induced Hypertension  
Giuseppe Puccia, Mayo Clinic, Rochester, MN  
John C Burnett, Mayo Clinic, Rochester, MN

**7482**  
Central Glucagon-like peptide-1 Receptor Activation Counteracts Hypertension with Suppression of Sympathetic Nerve Activity in Spontaneously Hypertensive Rats  
Kenichi Katsurada, Jichi Medical Univ, Shimotsuke, Tochigi, Japan  
Kazue Kari, Jichi Medical Univ, Shimotsuke, Tochigi, Japan

**7483**  
A Neuroimmune Drive Activates Plgf to Control an Epigenetic Mechanism in the Spleen That Allows T Cells Activation in Hypertension  
Dariole Yu, Renmin Hosp of Wuhan Univ, Wuhan, China  
Hong Jiang, Renmin Hosp of Wuhan Univ, Wuhan, China

**7484**  
Renal Denervation With Neuron Targeted Nanoparticles Attenuates the Hypertension Associated With Obesity  
Lilei Yu, Renmin Hosp of Wuhan Univ, Wuhan, China

**7485**  
Leptin and the Developmental Origins of Hypertension  
Robert D Roghair, Univ of Iowa, Iowa City, IA

**7486**  
Chronic Nuclear Acidosis Defines Aging and Lifespan by Histone 4 Lysine 5 Acetylation in Mice  
Tomohiro Osanai, Hiroshima Univ Graduate Schl Med, Hiroshima, Japan  
Ken Okumura, Hiroshima Univ Graduate Schl Med, Hiroshima, Japan

**7487**  
Elevated Plasma levels of Neutral Endopeptidase in Hypertension Patients Treated with Angiotensin Converting Enzyme Inhibitors  
Koichi Sugamura, Kumamoto University, Kumamoto, Japan  
Hisao Ogawa, Kumamoto University, Kumamoto, Japan
### Abstract Poster Session

**Imaging and CVD Risk I**

**APS.212.10**

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 12:00 NOON

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Chun Yuan, Seattle, WA

2565. **Framingham Risk Score and Coronary Plaque Characteristics as Assessed by Three-Vessel Optical Coherence Tomography Imaging**
Rocco Vergallo, Massachusetts General Hosp, Harvard Medical Sch, Boston, MA
Ik-Kyung Jang, Massachusetts General Hosp, Harvard Medical Sch, Boston, MA

2566. **Microalbuminuria is Associated With Subclinical Cardiovascular Disease Parameters Independent of Traditional Risk Factors in a Large Population Based Study**
Mohan Thanikachalam, Tufts Univ Sch of Med, Boston, MA
Sadagopan Thanikachalam, Sri Ramachandra Univ, Porur, India

2567. **Obstructive Sleep Apnea and Progression of Coronary Artery Calcium: The MESA Study**
Younghoon Kwon, Univ of Minnesota, Minneapolis, MN
Pamela L Lutsey, Univ of Minnesota, Minneapolis, MN

2568. **Conventional Cardiovascular Risk Modifies Clinical Outcomes Among Subjects With Elevated Coronary Artery Calcium Score With and Without Statin Therapy: Post Hoc Analysis From the St Francis Heart Study**
Salman Waheed, St Francis Hosp, Roslyn, NY
Jie J Cao, St Francis Hosp, Roslyn, NY

2569. **Breast Arterial Calcifications and Their Association With Cardiovascular Disease in the Prospect Cohort**
Eva J Hendriks, Univ Medical Ctr Utrecht, Utrecht, Netherlands
Yvonne T van der Schouw, Univ Medical Ctr Utrecht, Utrecht, Netherlands

**APS.306.01**

**Imaging of Congenital and Acquired Heart Disease in the Pediatric Population**

**South Hall A2 - Core 3**

**Posters Displayed:** 9:00 AM - 12:00 NOON

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Luciana Young, Chicago, IL

3159. **Abnormal Aortic Wall Properties in Children with Isolated Bicuspid Aortic Valve**

3160. **Association of Echolucency of the Carotid Artery Wall with Coronary Artery Plaque Composition in HIV-infected and -uninfected men: a Multicenter AIDS Cohort Study (MACS) Substudy**
P Elliott Miller, Johns Hopkins Hosp, Baltimore, MD
Wendy S Post, Johns Hopkins Univ, Sch of Med and Bloomberg Sch of Public Health, Baltimore, MD

**3159.** **CD34+ Circulating Progenitor Cell Levels for Prediction of Subclinical Atherosclerotic Disease**
João Pedro Lopes, Case Western Reserve Univ, Cleveland, OH
Marco Costa, Case Western Reserve Univ, Cleveland, OH

**3160.** **Hemodynamic Assessment of an Augmented Aorta: a Rapid Prototyping Technique**
Yoav Dori, The Children’s Hosp of Philadelphia, Philadelphia, PA
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<th>Thesis Number</th>
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<tr>
<td>3161</td>
<td>Abnormalities of Ventricular Morphology and Compaction Are Prevalent in Adults With Coarctation of the Aorta: A Two-centre Cardiac Magnetic Resonance Imaging (CMR) Study</td>
<td>Preeti Choudhary, Univ of Sydney, Royal Prince Alfred Hosp, Sydney, Australia; David S Celermajer, Univ of Sydney, Royal Prince Alfred Hosp, Sydney, Australia</td>
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<td>3163</td>
<td>Assessment of Myocardial Mechanics Utilizing Speckle-Tracking Echocardiography in a Swine Model of Right Ventricular Pressure-Overload</td>
<td>Nicholas Pietris, Univ of Maryland Medical Ctr, Baltimore, MD; Sunjay Kaushal, Univ of Maryland Medical Ctr, Baltimore, MD</td>
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<td>3164</td>
<td>Rates and Risk Factors for Faster Aortic Root Growth in Pediatric Patients with Marfan Syndrome</td>
<td>Nitya Viswanathan, Texas Childrens Hosp, Houston, TX; Shaine A Morris, Texas Childrens Hosp, Houston, TX</td>
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<td>3165</td>
<td>Simplified Rheumatic Heart Disease Screening Criteria for Handheld Echocardiography</td>
<td>Jimmy C Lu, Univ of Michigan, Ann Arbor, MI; Andrea Beaton, Children’s Natl Health System, Washington, DC</td>
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<td>3167</td>
<td>Late Wall Thickening and Calcification in Patients After Kawasaki Disease Noninvasively Detected by Dual Source Computed Tomography</td>
<td>Nobuyuki Tsujii, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan; Kenichi Kurosaki, Nati Cerebral and Cardiovascular Ctr, Osaka, Japan</td>
</tr>
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<td>3168</td>
<td>Increased Diastolic Untwisting Velocity in Response to Tachycardia as Evidence of Diastolic Reserve in the Young Infant Heart: A Simultaneous Invasive and Noninvasive in vivo Swine Model</td>
<td>Etienne Fortin-Pellerin, Stollery Children’s Hosp, Edmonton, AB, Canada; Lisa K Hornberger, Stollery Children’s Hosp, Edmonton, AB, Canada</td>
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**Abstract Poster Session**

**Magnetic Resonance Imaging: Heart**

**South Hall A2 - Core 1**

**Posters Displayed:** 9:00 AM - 12:00 NOON

**Presenter Available:** 9:30 - 11:00 AM

**Board #**

**Poster Professor:**

Eric Krieger, Seattle, WA

1301 4D Flow MRI Improves Assessment of Aortic and Pulmonary Peak Velocities in Patients With D-Transposition of Great Arteries Following Arterial Switch Operation

Kelly Jarvis, Northwestern Univ, Feinberg Sch of Med, Chicago, IL; Cynthia Rigsby, Ann & Robert H Lurie Children’s Hosp of Chicago, Chicago, IL

1302 Repaired Tetralogy of Fallot With Coexisting Unrepaired Partial Anomalous Pulmonary Venous Connection is Associated With Diminished Right Ventricular Ejection Fraction and More Severe Right Ventricular Dilation

Sherwin S Chan, Children’s Mercy Hosp, Kansas City, MO; Matthew A Harris, Children’s Hosp of Philadelphia, Philadelphia, PA

1303 Right Ventricular Energetics and Power in Pulmonary Regurgitation vs. Stenosis Using Four-Dimensional Phase-Contrast Magnetic Resonance

Shelby Kutty, Univ of Nebraska Coll of Med, Omaha, NE; James Hammel, Univ of Nebraska Coll of Med, Omaha, NE

1304 Right Ventricular Mechanics in Pulmonary Hypertension Evaluated With Cardiac Magnetic Resonance Feature Tracking

Javier Sanz, Mount Sinai Sch of Med, New York, NY

1305 Quantitative Analysis of Pericardial Inflammation with Cardiac Magnetic Resonance Imaging (CMR) Predicts Outcome in Patients with Constrictive Pericarditis

Paul Cremer, Cleveland Clinic, Cleveland, OH; Allan L Klein, Cleveland Clinic, Cleveland, OH
Abstract Poster Session

**Myocardial Disease**

**APS.518.03**

South Hall A2 - Core 5

**Posters Displayed:** 9:00 AM - 12:00 noon

**Presenter Available:** 9:30 - 11:00 AM

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**BOARD #**

**Poster Professor:**

Mazen Hanna, Cleveland, OH

**5664**  
Hyperglycemia is an Independent Predictor of Left Ventricular Hypertrophy  
Mohan Thanikachalam, Tufts Univ Sch of Med, Boston, MA  
Sadagopan Thanikachalam, Sri Ramachandra Univ, Porur, India

**5665**  
Increased Absorption and Decreased Synthesis of Cholesterol in Cardiac Sarcoidosis  
Pia Simonen, Heart and Lung Ctr, Helsinki Univ Central Hosp, Helsinki, Finland

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**Abstract Poster Session**

**Na Channel Disease Arrhythmia Models and Structural Analyses of Phospholamban**

**APS.403.02**

South Hall A2 - Core 4

**Posters Displayed:** 9:00 AM - 12:00 noon

**Presenter Available:** 9:30 - 11:00 AM

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**BOARD #**

**Poster Professor:**

Samuel Dudley, Providence, RI

**4050**  
Comparisons of Action Potentials and Ionic Currents Between Neonatal Rat Ventricular Myocytes and Adult Zebrafish Ventricular Myocytes  
Adonis Z Wu, Inst of Biomedical Engineering, National Chiao-Tung Univ, Hsinchu, Taiwan  
Sheng-Nan Wu, Dept of Physiology, National Cheng-Kung Univ, Tainan, Taiwan

**4051**  
Chronic Low-Level Transcutaneous Electrical Stimulation of the Auricular Branch of the Vagus Nerve: A New Approach to Attenuate Neural Remodeling and Reduce Ventricular Arrhythmias in a Post-Infarction Canine Model  
Song yun Wang, Renmin Hosp of Wuhan Univ, Wuhan, China  
Hong Jiang, Renmin Hosp of Wuhan Univ, Wuhan, China

**4052**  
Vagal Nerve Stimulation Mitigates Atrial Fibrillation by Attenuating the Intrinsic Cardiac Local Circuit Neuronal Activity  
Siamak Salavatian, Univ of Montreal, Montreal, QC, Canada  
Jeffrey L Ardell, Univ of California, Los Angeles, Los Angeles, CA

**4053**  
Cardiac Autonomic Dysfunction in Mice Lacking Methyl CpG Binding Protein 2  
Jose A Herrera, Baylor Coll of Med, Houston, TX  
Jeffrey L Neul, Baylor Coll of Med, Houston, TX
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<td>4054</td>
<td>Anti-Arrhythmic Properties of a Novel Cardiac Late Na+ Current Inhibitor, GS-6615, in a Mouse Model of Long QT Type 3</td>
<td>Anti-Arrhythmic Properties of a Novel Cardiac Late Na+ Current Inhibitor, GS-6615, in a Mouse Model of Long QT Type 3 Sridharan Rajamani, Gilead Sciences Inc, Fremont, CA Luiz Belardinelli, Gilead Sciences Inc, Foster City, CA</td>
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<tr>
<td>4055</td>
<td>Oxidation-Dependent Phosphomimetic Effect of a Human Heart Failure Mutation of Phospholamban</td>
<td>Oxidation-Dependent Phosphomimetic Effect of a Human Heart Failure Mutation of Phospholamban Neha Abrol, Loyola Univ Chicago, Maywood, IL Seth L Robia, Loyola Univ Chicago, Maywood, IL</td>
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<tr>
<td>4056</td>
<td>Fluorescence Resonance Energy Transfer Reveals that Cardiac Calcium ATPase Dimerizes and Forms a Complex with Phospholamban in a 2:1 Stoichiometry</td>
<td>Fluorescence Resonance Energy Transfer Reveals that Cardiac Calcium ATPase Dimerizes and Forms a Complex with Phospholamban in a 2:1 Stoichiometry Daniel Blackwell, Loyola Univ Chicago, Maywood, IL Seth L Robia, Loyola Univ Chicago, Maywood, IL</td>
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<td>4057</td>
<td>C-Terminal Residues of Phospholamban are Critical Determinants of the Quaternary Structure and Function of the Calcium ATPase Regulatory Complex</td>
<td>C-Terminal Residues of Phospholamban are Critical Determinants of the Quaternary Structure and Function of the Calcium ATPase Regulatory Complex Neha Abrol, Loyola Univ Chicago, Maywood, IL Seth L Robia, Loyola Univ Chicago, Maywood, IL</td>
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<tr>
<td>7371</td>
<td>Repolarization Parameters are Significantly Prolonged in Many Patients With Left Bundle Branch Block and Acute Myocardial Infarction</td>
<td>Repolarization Parameters are Significantly Prolonged in Many Patients With Left Bundle Branch Block and Acute Myocardial Infarction Kenneth W Dodd, Hennepin County Medical Ctr, Minneapolis, MN Stephen W Smith, Hennepin County Medical Ctr, Minneapolis, MN</td>
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<tr>
<td>7372</td>
<td>ST-Segment Elevation in Leads V5-6 Predicts In-Hospital Adverse Outcomes in Patients With Reperfused Inferior Acute Myocardial Infarction</td>
<td>ST-Segment Elevation in Leads V5-6 Predicts In-Hospital Adverse Outcomes in Patients With Reperfused Inferior Acute Myocardial Infarction Masami Kosuge, Yokohama City Univ Medical Ctr, Yokohama, Japan Kazuo Kimura, Yokohama City Univ Medical Ctr, Yokohama, Japan</td>
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<td>7373</td>
<td>ST-Segment Elevation in Lead AVR Strongly Predicts Long-Term Adverse Outcomes in Patients With Non-ST-Segment Elevation Acute Coronary Syndrome</td>
<td>ST-Segment Elevation in Lead AVR Strongly Predicts Long-Term Adverse Outcomes in Patients With Non-ST-Segment Elevation Acute Coronary Syndrome Masami Kosuge, Yokohama City Univ Medical Ctr, Yokohama, Japan Kazuo Kimura, Yokohama City Univ Medical Ctr, Yokohama, Japan</td>
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<td>C-Terminal Residues of Phospholamban are Critical Determinants of the Quaternary Structure and Function of the Calcium ATPase Regulatory Complex</td>
<td>C-Terminal Residues of Phospholamban are Critical Determinants of the Quaternary Structure and Function of the Calcium ATPase Regulatory Complex Neha Abrol, Loyola Univ Chicago, Maywood, IL Seth L Robia, Loyola Univ Chicago, Maywood, IL</td>
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<tr>
<td>7375</td>
<td>Telomere Length is Not Associated With Known Cardiovascular Risk Factors in Older Patients (≥75 Years) with Acute Coronary Syndrome Treated by Invasive Strategy</td>
<td>Telomere Length is Not Associated With Known Cardiovascular Risk Factors in Older Patients (≥75 Years) with Acute Coronary Syndrome Treated by Invasive Strategy Meedya Sharifpour, Newcastle Univ, Newcastle Upon Tyne, United Kingdom Vijay Kunadian, Newcastle Univ, Newcastle Upon Tyne, United Kingdom</td>
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<tr>
<td>APS.715.03</td>
<td>New Tricks for Diagnosis of ACS: ECG and Biomarkers</td>
<td>South Hall A2 - Core 7 Posters Displayed: 9:00 AM - 12:00 NOON Presenter Available: 9:30 - 11:00 AM</td>
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<td>7369</td>
<td>A Diagnosis and Treatment Algorithm for Suspected Myocardial Infarction and New Left Bundle Branch Block</td>
<td>A Diagnosis and Treatment Algorithm for Suspected Myocardial Infarction and New Left Bundle Branch Block Vijaya K Pera, Minneapolis Heart Inst, Minneapolis, MN Timothy D Henry, Cedars-Sinai Heart Inst, Los Angeles, CO</td>
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<tr>
<td>7370</td>
<td>Terminal T-Wave Concordance Increases the Sensitivity of Electrocardiographic Diagnosis of Acute Myocardial Infarction in Left Bundle Branch Block</td>
<td>Terminal T-Wave Concordance Increases the Sensitivity of Electrocardiographic Diagnosis of Acute Myocardial Infarction in Left Bundle Branch Block Kenneth W Dodd, Hennepin County Medical Ctr, Minneapolis, MN Stephen W Smith, Hennepin County Medical Ctr, Minneapolis, MN</td>
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<td>7376</td>
<td>Atrial Natriuretic Peptide as a Marker for Early Rule-Out of Acute Myocardial Infarction</td>
<td>Atrial Natriuretic Peptide as a Marker for Early Rule-Out of Acute Myocardial Infarction Anna Slagman, Charité Berlin, Berlin, Germany Martin Möckel, Charité Berlin, Berlin, Germany</td>
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<td>7377</td>
<td>Relationship of Longitudinal Measurements of Biomarkers of Hemodynamic Stress, Systemic Inflammation, and Platelet Reactivity with Ischemic Outcomes in Non-ST-Elevation Acute Coronary Syndrome Patients Managed Without Revascularization</td>
<td>Relationship of Longitudinal Measurements of Biomarkers of Hemodynamic Stress, Systemic Inflammation, and Platelet Reactivity with Ischemic Outcomes in Non-ST-Elevation Acute Coronary Syndrome Patients Managed Without Revascularization Mark Y Chan, Natl Heart Ctr Singapore, Singapore, Singapore Kurt Huber, Wilhelminen Hosp, Vienna, Austria</td>
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**New Tricks for Diagnosis of ACS: ECG and Biomarkers**

**South Hall A2 - Core 7**

**Posters Displayed:** 9:00 AM - 12:00 NOON

**Presenter Available:** 9:30 - 11:00 AM

**Board #**

**Poster Professor:** Bernard R Chaitman, St Louis, MO

**7369**

A Diagnosis and Treatment Algorithm for Suspected Myocardial Infarction and New Left Bundle Branch Block

Vijaya K Pera, Minneapolis Heart Inst, Minneapolis, MN

Timothy D Henry, Cedars-Sinai Heart Inst, Los Angeles, CO

**7370**

Terminal T-Wave Concordance Increases the Sensitivity of Electrocardiographic Diagnosis of Acute Myocardial Infarction in Left Bundle Branch Block

Kenneth W Dodd, Hennepin County Medical Ctr, Minneapolis, MN

Stephen W Smith, Hennepin County Medical Ctr, Minneapolis, MN

**7371**

Repolarization Parameters are Significantly Prolonged in Many Patients With Left Bundle Branch Block and Acute Myocardial Infarction

Kenneth W Dodd, Hennepin County Medical Ctr, Minneapolis, MN

Stephen W Smith, Hennepin County Medical Ctr, Minneapolis, MN

**7372**

ST-Segment Elevation in Leads V5-6 Predicts In-Hospital Adverse Outcomes in Patients With Reperfused Inferior Acute Myocardial Infarction

Masami Kosuge, Yokohama City Univ Medical Ctr, Yokohama, Japan

Kazuo Kimura, Yokohama City Univ Medical Ctr, Yokohama, Japan

**7373**

ST-Segment Elevation in Lead AVR Strongly Predicts Long-Term Adverse Outcomes in Patients With Non-ST-Segment Elevation Acute Coronary Syndrome

Masami Kosuge, Yokohama City Univ Medical Ctr, Yokohama, Japan

Kazuo Kimura, Yokohama City Univ Medical Ctr, Yokohama, Japan

**7374**

C-Terminal Residues of Phospholamban are Critical Determinants of the Quaternary Structure and Function of the Calcium ATPase Regulatory Complex

Neha Abrol, Loyola Univ Chicago, Maywood, IL

Seth L Robia, Loyola Univ Chicago, Maywood, IL

**7375**

Telomere Length is Not Associated With Known Cardiovascular Risk Factors in Older Patients (≥75 Years) with Acute Coronary Syndrome Treated by Invasive Strategy

Meedya Sharifpour, Newcastle Univ, Newcastle Upon Tyne, United Kingdom

Vijay Kunadian, Newcastle Univ, Newcastle Upon Tyne, United Kingdom

**7376**

Atrial Natriuretic Peptide as a Marker for Early Rule-Out of Acute Myocardial Infarction

Anna Slagman, Charité Berlin, Berlin, Germany

Martin Möckel, Charité Berlin, Berlin, Germany

**7377**

Relationship of Longitudinal Measurements of Biomarkers of Hemodynamic Stress, Systemic Inflammation, and Platelet Reactivity with Ischemic Outcomes in Non-ST-Elevation Acute Coronary Syndrome Patients Managed Without Revascularization

Mark Y Chan, Natl Heart Ctr Singapore, Singapore, Singapore

Kurt Huber, Wilhelminen Hosp, Vienna, Austria
Abstract Poster Session

APS.518.02

Novel Diagnostic Modalities in Heart Failure

South Hall A2 - Core 5
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

5646
Disease Progression in Patients With Arrhythmogenic Right Ventricular Cardiomyopathy and Ventricular Tachycardia: A Longitudinal Study With Unipolar Voltage Mapping
Pasquale Santangeli, Hosp of the Univ of Pennsylvania, Philadelphia, PA
Francis Marchlinski, Hosp of the Univ of Pennsylvania, Philadelphia, PA

5647
FDG-PET Guided Cardiac Biopsy Increases the Diagnostic Yield for Pathology in Patients With Cardiac Sarcoidosis
Kazuo Eguchi, JICHI Medical Univ, Shimotsuke Tochigi-ken, Japan
Michiaki Hiroe, Natl Ctr for Global Health and Med, Tokyo, Japan

5648
Impaired Intrinsic Myocardial Shortening in Both Two Directions and Compensatory Mechanism to Maintain Left Ventricular Ejection Fraction in Patients With Hypertensive Heart Disease
Satoshi Yamada, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan
Hiroyuki Tsutsui, Hokkaido Univ Graduate Sch of Med, Sapporo, Japan

5649
Echocardiography Reveals Biventricular Abnormalities in Presymptomatic Phospholamban p.Arg14del Mutation Carriers
Wouter P te Rijdt, UMC Groningen, Groningen, Netherlands
Maarten P van den Berg, UMC Groningen, Groningen, Netherlands

5650
Clinical Predictors for Repeat Alcohol Septal Ablation in Refractory Hypertrophic Obstructive Cardiomyopathy
Mitsunobu Kitamura, Nippon Medical Sch, Tokyo, Japan
Wataru Shimizu, Nippon Medical Sch, Tokyo, Japan

5651
Clinical Difference Between Extended and Pure Apical Type of Apical Hypertrophic Cardiomyopathy
Sangchol Lee, Sungkyunkwan Univ / Samsung Medical Ctr, Seoul, Republic of Korea
Jae K Oh, Mayo Clinic, Rochester, MN

Abstract Poster Session

APS.406.07

Novel Predictors and Prognosticators in Atrial Fibrillation

South Hall A2 - Core 4
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

4282
Novel Single-Nucleotide Polymorphisms Predict Inverse Association With Non-Pulmonary Vein Triggers in Patients With Paroxysmal Atrial Fibrillation: Results From a Prospective Study (DECAF)
Sanghamitra Mohanty, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX
Andrea Natale, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX

4283
Differential Association of Polymorphic Genetic Variants With Non-Pulmonary Vein Triggers in Patients With Non-Paroxysmal Atrial Fibrillation: Results From a Prospective Study (DECAF)
Sanghamitra Mohanty, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX
Andrea Natale, Texas Cardiac Arrhythmia Inst at St David’s Medical Ctr; Austin, TX
**Abstract Poster Session**

**APS.214.02h Obesity and Weight Management Interventions**

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 12:00 NOON

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Christi Deaton, Manchester, United Kingdom

2690

**Combining an Innovative Health Class With PE Reduces Weight and Increased Performance in High School Students**
Shawn G Hayes, HealthCorps, Sacramento, CA

2691

**Effects of a “Health Partner” Intervention on the Metabolic Syndrome**
Natalee K Wilson, Emory Clinical Cardiovascular Res Inst, Atlanta, GA
Arshed A Quyyumi, Emory Clinical Cardiovascular Res Inst, Atlanta, GA

2692

**Obesity Related Heart Rate Changes among Young Hispanic Women with Metabolic Syndrome**
Mini M Jose, Univ of Texas Medical Branch, Houston, TX

2693

**Influence of a Weight Management Intervention for Overweight and Obese Cardiac Rehabilitation Patients on Macronutrient Dietary Intake and Use of Weight Loss Strategies**
Susan A Barnason, Univ of Nebraska Medical Ctr Coll of Nursing, Lincoln, NE
Paula Schulz, Univ of Nebraska Medical Ctr Coll of Nursing, Lincoln, NE

2694

**Exercise Capacity Increase, Obesity, and Statin Therapy Are the Key Factor for Decrease C-Reactive Protein through Exercise Training after Acute Myocardial Infarction**
Takahito Doi, Natl Cerebral and Cardiovascular Ctr Hosp, Suita, Osaka, Japan
Yoichi Goto, Natl Cerebral and Cardiovascular Ctr Hosp, Suita, Osaka, Japan

**WEDNESDAY AM**

4284  **Association of Single-Nucleotide Polymorphisms with Left Atrial Scar in Patients with Atrial Fibrillation**
Sanghamitra Mohanty, Texas Cardiac Arrhythmia Inst at St David's Medical Ctr; Austin, TX
Andrea Natale, Texas Cardiac Arrhythmia Inst at St David's Medical Ctr; Austin, TX

4285  **MicroRNA From Atrial Tissue Harvested During Transseptal Puncture as a Predictor for Non-pv Trigger in Patients Undergoing AF Ablation: Preliminary Results From a Pilot Study**
Luigi Di Biase, Albert Einstein Coll of Med at Montefiore Hosp And Texas Cardiac Arrhythmia Inst at St David's Medical Ctr, New York and Austin, TX
Andrea Natale, Texas Cardiac Arrhythmia Inst at St David's Medical Ctr, Austin, TX

4286  **A High BNP Level Precipitates an Improvement in Exercise Tolerance after a Successful Catheter Ablation of Persistent Atrial Fibrillation**
Yoshinori Katsumata, Keio Univ Sch of Med, Tokyo, Japan
Keiichi Fukuda, Keio Univ Sch of Med, Tokyo, Japan

4287  **Serum Galectin-3 Level Predicts Late Recurrence Following Cryoballoon-based Pulmonary Vein Isolation in Lone Atrial Fibrillation Patients**
Mehmet A Oto, Hacettepe Univ, Ankara, Turkey
Kudret Aytemir, Hacettepe Univ, Ankara, Turkey

4288  **Serum Brain Natriuretic Peptide Level as a Predictive Factor of Pre-Procedural Thrombi in Atrial Fibrillation**
Takehiro Kimura, Keio Univ Sch of Med, Tokyo, Japan
Keiichi Fukuda, Keio Univ Sch of Med, Tokyo, Japan

4289  **Pulmonary Capillary Wedge Pressure as a Strong Predictor for Successful Outcome of Atrial Fibrillation Ablation: A Speckle Tracking Echocardiographic Study**
Mayumi Kaneda, Gifu Prefectural General Medical Ctr, Gifu, Japan
Shinya Minatoguchi, Gifu Univ Graduate Sch of Med, Gifu, Japan

4290  **A Simple Ablation Strategy Targeting Exclusively AF Triggers is Equally Effective for Paroxysmal and Persistent Atrial Fibrillation: Single Center Large Series**
Kiyoshi Otomo, Sendai Kousei Hosp, Sendai, Japan
Talichiro Meguro, Sendai Kousei Hosp, Sendai, Japan

4291  **Large Area of Complex-Fractionated Atrial Electrogroms Disrupt Identification of Rotors and Focal Sources for Atrial Fibrillation After Pulmonary Vein Isolation**
Yoshiyuki Hama, Kimitsu Chuo Hosp, Kisarazu, Japan
Toshiharu Himi, Kimitsu Chuo Hosp, Kisarazu, Japan
Abstract Poster Session

APS.303.02

**Omic Dissection of Cardiometabolic Disease**

South Hall A2 - Core 3

Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Thomas Vondriska, CA

**3061**

**Discovery Lipidomic and Metabolomic Profiling Predicts Longitudinal Changes in Metabolic Risk Factors**

Christine M Willinger, NHLBI, Framingham, MA

Daniel Levy, NHLBI, Framingham, MA

**3062**

**A New Disease-Related Gene of Pulmonary Arterial Hypertension Identified Using Next Generation Sequencing**

Mai Kimura, Keio Univ, Tokyo, Japan

Keiichi Fukuda, Keio Univ, Tokyo, Japan

**3063**

**Haplotype-Dependent Differential Regulation of the Human AT1R Gene is Exacerbated by Age: Effects on Tissue Inflammatory and Redox Milieu**

Anita Rana, The Univ of Toledo, Toledo, OH

Ashok Kumar, The Univ of Toledo, Toledo, OH

**3064**

**Lipid Metabolism is Modified by the Interaction Between Cholesteryl Ester Transfer Protein Gene Polymorphism and Mediterranean Diet in Patients in Secondary Prevention for Cardiovascular Disease**

Antonio Garcia Rios, Lipid and Atherosclerosis Unit IMIBIC/Reina Sofia Univ Hosp/Univ of Cordoba, Cordoba, Spain

Pablo Perez-Martinez, Lipid and Atherosclerosis Unit IMIBIC/Reina Sofia Univ Hosp/Univ of Cordoba, Cordoba, Spain

**3065**

**Exome-wide Association Study of the Human Metabolome in a Community-based Cohort**

Robert Gerszten, Massachusetts General Hosp, Boston, MA

**3066**

**CXCL4 Aggravates Mortality and Left Ventricular Dilation Following Myocardial Infarction by Polarizing Macrophages to a Pro-inflammatory M1 Phenotype**

Yonggang Ma, Univ of Mississippi Medical Ctr, Jackson, MS

Merry L Lindsey, Univ of Mississippi Medical Ctr, Jackson, MS

**3067**

**Multiple Peripheral Blood Protein Biomarkers Are Associated with Appropriate ICD Therapy in the DISCERN Study**

James Wingrove, CardioDx, Inc, Palo Alto, CA

Steven Rosenberg, CardioDx, Inc, Redwood City, CA

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**Abstract Poster Session**

APS.308.03

**Pediatric Cardiac Surgery III**

South Hall A2 - Core 3

Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**

Stephanie Fuller, Philadelphia, PA

**3194**

**Failed Delayed Sternal Closure Following Neonatal Cardiac Surgery Predicted by High Mean Airway Pressure and Associated with Increased Post-operative Mortality**

Catherine K Allan, Boston Children’s Hosp, Boston, MA

**3195**

**Surgical Myectomy for Patients with Noonan Syndrome and Symptomatic Left Ventricular Outflow Tract Obstruction: A Case Control Series**

Joseph T Poterucha, Mayo Clinic Coll of Med, Rochester, MN

Benjamin W Eidem, Mayo Clinic Coll of Med, Rochester, MN

**3196**

**Complex Transposition of the Great Arteries: Long-Term Outcomes**

Alban-Elouen Baruteau, Marie Lannelongue Hosp, Paris, France

Emre Belli, Marie Lannelongue Hosp, Paris, France

**3198**

**Annulus Preservation Strategy Improves Late Outcomes in Tetralogy of Fallot: An Anatomical Equivalency Study**

Prisca Pondorfer, Sickkids Hosp, Toronto, ON, Canada

Glen Van Arsdell, Sickkids Hosp, Toronto, ON, Canada

**3199**

**Anomalous Aortic Origin of Coronary Arteries: A Single Center Experience**

Assunta Fabozzo, Boston Childrens Hosp, Harvard Univ, Boston, MA

Meena Nathan, Boston Childrens Hosp, Harvard Univ, Boston, MA
3200  Can Salvage Takedown of Cavopulmonary Connection Act as a Bridge to Subsequent Palliation?
Jiaquan Zhu, The Hosp for Sick Children, Toronto, ON, Canada
Osami Honjo, The Hosp for Sick Children, Toronto, ON, Canada

3201  Airway Ciliary Dysfunction and Increased Postoperative Respiratory Complications in Broad Spectrum of Congenital Heart Disease Patients
Eileen Stewart, Children’s Hosp of Pittsburgh, Pittsburgh, PA
Cecilia W Lo, Univ of Pittsburgh Sch of Med, Pittsburgh, PA

3202  Building of a Right Ventricular Conduit in Native Outflow Tract in Preparation of Edwards Sapien Valve Implantation
M Giulia Gagliardi, Ospedale Pediatrico Bambino Gesù, Rome, Italy
Giacomo Pongiglione, Ospedale Pediatrico Bambino Gesù, Rome, Italy

3203  Characteristics and Determinants of Cerebral Circulation in Patients after Surgery for Congenital Heart Disease
Hirofumi Saiki, Saitama Medical Ctr, Saitama Medical Univ, Kawagoe, Saitama, Japan
Hideaki Senzaki, Saitama Medical Ctr, Saitama Medical Univ, Kawagoe, Saitama, Japan

Abstract Poster Session
APS.214.01  Rhythms, Myocardial Infarction and Acute Coronary Syndrome
South Hall A2 - Core 2
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

BOARD #
Poster Professor:
Cynthia Arslanian-Engoren, Ann Arbor, MI

2680  Post-traumatic Stress Disorder is Associated with Adverse Non-Linear Heart Rate Variability in Veteran Twins
Danesh K Kella, Emory Univ Sch of Med, Atlanta, GA
Amit J Shah, Emory Univ Sch of Med, Atlanta, GA

2681  Illness Perception in Patients Hospitalized for Acute Coronary Syndrome
Maria Laura Monsalvo, Sociedad Argentina de Cardiologia, Buenos Aires, Argentina

2682  Perceived Health and Physical Activity among Patients treated with Ablation for Atrial Fibrillation or Atrial Flutter compared with a Healthy General Population - Results from a Nationwide Survey
Signe S Risom, Rigshospitalet, Copenhagen Univ Hosp, Copenhagen, Denmark
Lau C Thygesen, Univ of Southern Denmark, Copenhagen, Denmark

2683  The Practical Use of the Latest Standards of Electrocardiography (PULSE) Trial: Nursing-Focused Intervention Improves Nurses’ Knowledge and Quality of ECG Monitoring
Marjorie Funk, Yale Univ, West Haven, CT
PULSE Site Investigators

2684  Risk Factor Burden and Control at the Time of Admission in Patients With Acute Myocardial Infarction: Results From the National Cardiovascular Data Registry
Andre R M Paxau, Univ of Texas Southwestern, Dallas, TX
Michael C Kontos, Virginia Commonwealth Univ, Richmond, VA

2685  Patient Characteristics Associated with False Arrhythmia Alarms in Intensive Care
Patricia R Harris, Univ of California, San Francisco, San Francisco, CA
Barbara J Drew, Univ of California, San Francisco, San Francisco, CA

2686  Impaired Autonomic Modulation During the Valsalva Maneuver Predicts Ischemia in Patients With Coronary Artery Disease
Amit J Shah, Emory Univ, Atlanta, GA
Viola Vaccarino, Emory Univ, Atlanta, GA

2687  Factors Predicting Sinus Rhythm in Patients Cardioverted in the X-VERT Study
Michael D Ezekowitz, Jefferson Medical Coll, Villanova, PA
Stefan H Hohnloser, J.W Goethe Univ, Frankfurt, Germany

2688  Race and Insurance Status as Determinants of Prolonged Total Ischemic Time in ST Elevation Myocardial Infarction
Khaled I Khalaf, Univ of Texas Medical Sch at Houston, Houston, TX
Richard W Smalling, Univ of Texas Medical Sch at Houston, Houston, TX

2689  Patterns of In-Hospital Management and Disposition of Patients Over 90 Years of Age Admitted with an Acute Coronary Syndrome at a Tertiary Medical Center
Nicolas W Shammas, Midwest Cardiovascular Res Fndn, Davenport, IA
Michael Jerin, Midwest Cardiovascular Res Fndn, Davenport, IA
Abstract Poster Session

**Risk Factors, Biomarkers, Risk Prediction**

**South Hall A2 - Core 2**

Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
David Jacobs, Minneapolis, MN

**2605**
**The Association Between Serum Potassium and Major Adverse Cardiovascular Events in Patients With Chronic Kidney Disease**
Alex Yang, ZS Pharma, Menlo Park, CA
Steven M Brunelli, DaVita Clinical Res, Minneapolis, MN

**2606**
**Amino-Terminal Pro-Brain Natriuretic Peptide Improves Risk Stratification in Asymptomatic Individuals at Very High Risk of Future Cardiovascular Events**
Anna P Pilbrow, Univ of Otago Christchurch, Christchurch, New Zealand
Vicky A Cameron, Univ of Otago Christchurch, Christchurch, New Zealand

**2607**
**Influence of Age on Perioperative Major Adverse Cardiovascular Events and Mortality Risks in Elective Non-cardiac Surgery**
Peter Wæde Hansen, Gentofte Hosp, Hellerup, Denmark
Charlotte Andersson, Gentofte Hosp, Hellerup, Denmark

**2608**
**Current Trend of Acute Myocardial Infarction in Korea: From Korea Acute Myocardial Infarction Registry Between 2006 and 2013**
Myung Ho Jeong, Choannam Natl Univ Hosp, Gwangju, Republic of Korea
Korea Acute Myocardial Infarction Registry Investigators

**2609**
**Plasma Mid-Regional Pro-Atrial Natriuretic Peptide and N-terminal Pro-Brain Natriuretic Peptide Can Discriminate Between Paroxysmal and Persistent Lone Atrial Fibrillation**
Ian CY Chang, Univ of Minnesota, Minneapolis, MN
Lin Y Chen, Univ of Minnesota, Minneapolis, MN

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**Abstract Poster Session**

**Risk Prediction, Guidelines and Lipids**

**South Hall A2 - Core 2**

Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
David C Goff Jr., Aurora, CO

**2454**
**European and American Blood Cholesterol Guidelines Result in Similar Rates of Statin Recommendations when Applied to a Country with High Cardiovascular Disease Risk**
Ann M Navar-Boggan, Duke Univ Medical Ctr, Durham, NC
Michael J Pencina, Duke Clinical Res Inst, Durham, NC

**2455**
**Development of a TransAtlantic Cardiovascular risk Calculator for Rheumatoid Arthritis (ATACC-RA)**
Anne Grete Semb, Diakonhjemmet Hosp, Oslo, Norway
ATACC-RA consortium (1 2 3 4 5 6 7 8)* 9 10 11 12 13

**2456**
**Predictors of Cardiovascular and Non-Cardiovascular Death: From the Clinic to the Lab**
Maria M Brooks, Univ of Pittsburgh, Pittsburgh, PA
Oscar Marroquin, Univ of Pittsburgh Medical Ctr, Pittsburgh, PA

**2457**
**Recommended Use of the Pooled Cohort Equations Over-Estimates Cardiovascular Risk in Hispanics: Evidence from the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT) and the Multi-Ethnic Study of Atherosclerosis (MESA)**
Tuan Dinh, Evidera, San Francisco, CA
Evelyn P Whitlock, Kaiser Permanente Northwest, Portland, OR

**2458**
**Implementation of AHA Pooled Cohort Equations for ASCVD Risk Prediction Requires Model Recalibration: External Validation Study in Three Large Dutch Cohorts**
Christiana A Naaktgeboren, Julius Ctr for Health Sciences and Primary Care UMC Utrecht, Utrecht, Netherlands
Linda M Peelen, Julius Ctr for Health Sciences and Primary Care UMC Utrecht, Utrecht, Netherlands

**2459**
**Exposure to Fine Particulate Matter is Associated With Progression of Subclinical Atherosclerosis: Systematic Review and Meta-Analysis**
Emmanuel Akintoye, Harvard Univ Sch of Public Health, Boston, MA
John A Dodson, New York Univ, New York, NY
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<tr>
<td>2460</td>
<td>The Triglyceride to High-Density Lipoprotein Cholesterol Ratio Predicts Coronary Artery Disease in Non-Diabetic Individuals</td>
<td>Julian Gin, The Univ of Melbourne, Melbourne, Australia</td>
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<td>Andrew Wilson, The Univ of Melbourne, Melbourne, Australia</td>
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<td>2461</td>
<td>Albuminuria Significantly Predicts Cardiovascular Events Irrespective of the Metabolic Syndrome and the Baseline Coronary Artery State</td>
<td>Christoph H Saely, Private Univ of the Principality of Liechtenstein, Triesen, Liechtenstein</td>
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<td>Heinz Drexl, Drexl Univ, Philadelphia, PA</td>
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<td>Steven M Brunelli, DaVita Clinical Res, Minneapolis, MN</td>
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<td>2462</td>
<td>Suboptimal Control of Lipid Levels: Results From 29 Countries Participating in the Centralized Pan-Regional Surveys on the Undertreatment of Hypercholesterolemia (CEPHEUS)</td>
<td>Chern-En Chiang, Taipei Veterans General Hosp, Taipei, Taiwan</td>
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<td>Michel P Hermans, Cliniques universitaires St-Luc, Brussels, Belgium</td>
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<td>2080</td>
<td>Exercise Blood Pressure as a Predictor of Future Hypertension: Evaluation Using Receiver Operating Characteristic</td>
<td>Sae Young Jae, Univ of Seoul, Seoul, Republic of Korea</td>
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<td>The Association of Resting Heart Rate and Incident Hypertension: The Henry Ford Hospital Exercise Testing (FIT) Project</td>
<td>Amer I Aladín, Ciccarrone Ctr for the Prevention of Heart Disease, Johns Hopkins Sch of Med, Baltimore, MD</td>
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<td>Cardiorespiratory Fitness Affects the Rate of Decline of Maximal Heart Rate with Age</td>
<td>Cemal Ozemek, Ball State Univ, Muncie, IN</td>
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<td>Leonard A Kaminsky, Ball State Univ, Muncie, IN</td>
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<td>2083</td>
<td>Incremental Risk Stratification for Diabetic Patients Undergoing Nuclear Exercise Stress Testing by Exercise Capacity, % Heart-Rate Reserve Achieved, and Heart-Rate Recovery</td>
<td>Vishal Y Parikh, Cedars-Sinai Medical Ctr, Los Angeles, CA</td>
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<td>Daniel S Berman, Cedars-Sinai Medical Ctr, Los Angeles, CA</td>
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<td>2084</td>
<td>Body Mass Index Predicts Exercise Capacity in Patients With Hypertrophic Cardiomyopathy</td>
<td>Caroline A Ball, Mayo Clinic, Rochester, MN</td>
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<td>Thomas G Allison, Mayo Clinic, Rochester, MN</td>
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<td>2085</td>
<td>Cardiac Output Reserve Predicts Exercise Capacity and Need for Surgery in Aortic Stenosis</td>
<td>Matthew Lumley, Kings Coll London, London, United Kingdom</td>
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<td>Divaka Perera, Kings Coll London, London, United Kingdom</td>
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<td>2087</td>
<td>Patients With Confirmed Statin Myalgia Do Not Exhibit Changes in Muscle Strength or Aerobic Performance</td>
<td>Amanda L Zaleski, Hartford Hosp, Hartford, CT</td>
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<td>Paul D Thompson, Hartford Hosp, Hartford, CT</td>
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<td>2088</td>
<td>Costs and Diagnostic Yield of Exercise Treadmill Testing vs. Exercise SPECT in Symptomatic Patients at Intermediate Risk of CAD</td>
<td>Nishant R Shah, Brigham &amp; Women's Hosp, Boston, MA</td>
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<td>Marcelo F Di Carli, Brigham &amp; Women's Hosp, Boston, MA</td>
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<td>2089</td>
<td>Stress Echocardiography in Asymptomatic Patients: Impact of Clinical Risk Profile on Test Results</td>
<td>Andrew D Calvin, Mayo Clinic, Rochester, MN</td>
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<td>2090</td>
<td>Prognostic Value of Left Atrial Function in Normal Exercise Stress Echocardiography</td>
<td>Rayji S Tsutsui, Cleveland Clinic, Cleveland, OH</td>
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<td>James D Thomas, Cleveland Clinic, Cleveland, OH</td>
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**Abstract Poster Session**

### APS.203.01

#### Stress Testing Exercise and Pharmacologic I

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 12:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**Poster Professor:** Jerome Fleg, Bethesda, MD

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**Abstract Poster Session**

### APS.203.02

#### Stress Testing Exercise and Pharmacologic II

**South Hall A2 - Core 2**

**Posters Displayed:** 9:00 AM - 12:00 PM

**Presenter Available:** 9:30 - 11:00 AM

**Poster Professor:** Farooq Chaudhry, New York City, NY

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<td>James D Thomas, Cleveland Clinic, Cleveland, OH</td>
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</table>
2091  Exercise Tests Cannot Be Used as a Diagnostic Tool for Detection of Coronary Microvessel Dysfunction
Nynne Dose, Bispebjerg Univ Hosp, Copenhagen, Denmark
Eva Prescott, Bispebjerg Univ Hosp, Copenhagen, Denmark

2092  Comparison Between Appropriateness of Exercise EKG and Stress Myocardial Perfusion Imaging Based on 2013 Multimodality Appropriate Use Criteria
Ashish Mahajan, Kettering Medical Ctr, Kettering, OH
Harvey Hahn, Kettering Medical Ctr, Kettering, OH

2093  Prevalence of Coronary Microvascular Dysfunction in Women With Angina and No Obstructive Coronary Artery Disease: Preliminary Results From the iPower Study
Naja D Mygind, Rigshospitalet, Copenhagen, Denmark
Eva Prescott, Bispebjerg Hosp, 2400 Copenhagen NV, Denmark

2094  The Influence of Cardiovascular Risk Factors on Coronary Flow Reserve Measured by Doppler Echocardiography in Women With Angina Pectoris and No Obstructive Coronary Artery Disease
Naja D Mygind, Rigshospitalet, Copenhagen, Denmark
Eva Prescott, Bispebjerg Hosp, 2400 Copenhagen NV, Denmark

2095  Superiority of Assessing Endocardial Strain to Whole Wall Thickness Strain by Dobutamine Stress Echocardiography in the Detection of Coronary Artery Disease
Cheuk-Man Yu, Prince of Wales Hosp, Hong Kong, Hong Kong

2096  Liver Transplant Candidates: To Stress or Not to Stress?
Ahmed Ibrahim, Cleveland Clinic Fndn, Cleveland, OH
Wael A Jaber, Cleveland Clinic Fndn, Cleveland, OH

2097  Adenosine A2A Receptor Polymorphisms and Response to Regadenoson
Rolf P Kreutz, Indiana Univ, Indianapolis, IN
Todd Skaar, Indiana Univ, Indianapolis, IN

Abstract Poster Session

Surgical Treatment of Arrhythmias and Heart Failure
South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Ralph Damiano, St Louis, MO

Strong Regenerative Potential of Autologous Vascularized Matrix for Atrial Patch Replacement
Serghei Cebotari, Hannover Medical Sch, Hannover, Germany
Axel Haverich, Hannover Medical Sch, Hannover, Germany

A Novel Biodegradable Cardiac Support Device for Treating Ischemic Cardiomyopathy in Canine Heart
Mutsunori Kitahara, Osaka Univ Graduate Sch of Medicine, Suita, Japan
Yoshiki Sawa, Osaka Univ Graduate Sch of Medicine, Suita, Japan

Expression of Mitochondrial Fusion Proteins is Increased Within Hibernating Myocardium Following CABG
Eric K Long, Univ of Minnesota, Minneapolis, MN
Rosemary F Kelly, Univ of Minnesota, Minneapolis, MN

Results of the Full Cox-Maze Procedure: EKG vs 24-Hour Holter vs One-Week Long-Term Holter Monitoring
Niv Ad, Inova Heart and Vascular Inst, Falls Church, VA
Sari D Holmes, Inova Heart and Vascular Inst, Falls Church, VA

The Effectiveness of Surgical Ablation in Patients with Atrial Fibrillation and Aortic Valve Disease
Matthew C Henn, Washington Univ Sch of Med, Barnes Jewish Hosp, Saint Louis, MO
Ralph J Damiano, Washington Univ Sch of Med, Barnes Jewish Hosp, Saint Louis, MO
**Abstract Poster Session**

**Thoracic Aortic Disease I**

South Hall A2 - Core 6  
Posters Displayed: 9:00 AM - 12:00 NOON  
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**  
Anthony Estrera, Houston, TX

**6237**  
**Loss of Endothelial Barrier in Fibrillin-1-Deficient Marfan Mice (mgR/mgR) Results in Severe Inflammation After Adenoviral Gene Therapy**  
*Philipp C Seppelt*, Univ Hosp Heidelberg, Heidelberg, Germany  
*Klaus Kallenbach*, Univ Hosp Heidelberg, Heidelberg, Germany

**6238**  
**Bicuspid Aortic Valve Thoracic Aortic Aneurysm is Associated With Apolipoprotein E and Osteopontin but Not Notch 1 Gene Dysregulation**  
*Malcolm West*, Univ of Queensland-Prince Charles Hosp, Brisbane 4032, Australia  
*Homayoun Jalali*, Univ of Queensland-Prince Charles Hosp, Brisbane 4032, Australia

**6239**  
**Does Aortic Resection without an Open Distal and Hemi-Arch Procedure Address all Regions at Risk of Progression in Bicuspid Aortopathy?**  
*Alex J Barker*, Northwestern Univ, Chicago, IL  
*Michael Markl*, Northwestern Univ, Chicago, IL

**6240**  
**RAGE-HMGB-1 Expression in the Ascending Aorta of Bicuspid Aortic Valve (BAV) Patients Correlates With Circulating SRAGE and May Predict Vascular Dysfunction Associated With BAV Disease**  
*Emanuela Branchetti*, Univ of Pennsylvania, Philadelphia, PA  
*Giovanni Ferrari*, Univ of Pennsylvania, Philadelphia, PA

**6241**  
**Left Ventricular Remodeling After Type a Aortic Dissection Surgery: a Comparison Between Different Surgical Techniques**  
*Madelien V Regeer*, Leiden Univ Medical Ctr, Leiden, Netherlands  
*Victoria Delgado*, Leiden Univ Medical Ctr, Leiden, Netherlands

**6242**  
**Protective Role of Stat3 in Vascular Smooth Muscle Cells During the Development of Acute Aortic Dissection**  
*Saki Hirakata*, Kurume Univ, Fukuoka, Japan  
*Yoshihiro Fukumoto*, Kurume Univ, Fukuoka, Japan

**6243**  
**Detection of Aortic Wall Inflammation in Patients With Acute Aortic Intramural Hematoma by 18F-Fluorodeoxyglucose Positron Emission Tomography (FDG-PET)**  
*Takeshi Kitai*, Kobe City Medical Ctr General Hosp, Kobe, Japan  
*Yutaka Furukawa*, Kobe City Medical Ctr General Hosp, Kobe, Japan

**6244**  
**Effects of Long Term Autophagy Inhibition With Chloroquine on the Development and Progression of Experimental Abdominal Aortic Aneurysms**  
*Azza Ramadan*, St Michaels Hosp, Toronto, ON, Canada  
*Subodh Verma*, St Michaels Hosp, Toronto, ON, Canada

**6245**  
**Surgical Repair of the Descending and Thoracoabdominal Aorta in Patients With Connective Tissue Disorders**  
*Mauro Iafrancesco*, Univ Hosp Birmingham NHS Fndn Trust, Birmingham, United Kingdom  
*Thoracic Aorta Multidisciplinary Team*

**6246**  
**Is the Outcome of Surgery for Aortic Dissection Worse in Patients With Cystic Medial Necrosis Combined With Genetically Diagnosed Connective Tissue Disease?**  
*Toshiki Fujiiyoshi*, Cardiovascular Surgery, Suita, Japan  
*Hitoshi Ogino*, Cardiovascular Surgery, Sinjyuku, Japan

**Abstract Poster Session**

**Thoracic Aortic Disease II**

South Hall A2 - Core 6  
Posters Displayed: 9:00 AM - 12:00 NOON  
Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**  
Michael Fischbein, Palo Alto, CA

**6247**  
**Influence of Anti-hypertensive Medications on Aortic Peak Stress**  
*Alison Ward*, New York Univ, New York, NY  
*Boyce Griffith*, Univ of North Carolina - Chapel Hill, Chapel Hill, NC

**6248**  
**Dilated Ascending Aorta in Hypertrophic Cardiomyopathy: Incidence and Predictors**  
*Fadi Asfahan*, Cleveland Clinic, Cleveland, OH  
*Milind Y Desai*, Cleveland Clinic, Cleveland, OH

**6249**  
**Impact of Tissue Heterogeneity of Hematoma on the Development of Ulcer-like Projection in Patients With Acute Aortic Intramural Hematoma**  
*Takeshi Kitai*, Kobe City Medical Ctr General Hosp, Kobe, Japan  
*Yutaka Furukawa*, Kobe City Medical Ctr General Hosp, Kobe, Japan
6250 Management and Outcomes of Acute Type B Dissection in IRAD Treated with Open Surgery, Endovascular Flap Fenestration or TEVAR
Nathaniel I Costin, The Univ of Michigan, Ann Arbor, MI
Himanshu J Patel, The Univ of Michigan, Ann Arbor, MI

6251 TEVAR Remodels the Thoracic and Abdominal Aorta in Acute DeBakey 3 Dissection: Early Results
Bradley G Leshnower, Emory Univ Sch of Med, Atlanta, GA
Ravi K Veeraswamy, Emory Univ Sch of Med, Atlanta, GA

6252 Acute Coronary Syndrome-Like ST-T Changes on Admission Electrocardiogram Predicts 30-Day Mortality in Patients With Type A Acute Aortic Dissection
Masami Kosuge, Yokohama City Univ Medical Ctr, Yokohama, Japan
Kazuo Kimura, Yokohama City Univ Medical Ctr, Yokohama, Japan

6253 Risk Factors of Mortality in Patients Undergoing Surgical Management of Acute Type a Dissection: A Multivariate Analysis From the International Registry of Acute Aortic Dissection (IRAD)
Stephen D Waterford, Cedars-Sinai Medical Ctr, Los Angeles, CA
Ali Khoynezhad, Cedars-Sinai Medical Ctr, Los Angeles, CA

6254 Type a Aortic Dissection in Bicuspid Aortic Valve and Marfan Syndrome Patients: Differences and Similarities
Marco Di Eusanio, Univ Hosp S Orsola, Bologna, Italy
Rossella Fattori, San Salvatore Hosp, Pesaro, Italy

6255 Bilateral Blood Pressure Measurement: a Simple Way to Reduce Diagnostic Delay in Acute Type a Aortic Dissection
Mauro Iafrancesco, Univ Hosp Birmingham NHS Fndn Trust, Birmingham, United Kingdom
United Kingdom Trainees Cardiothoracic Research Collaborative

6256 The Impact of Preoperative Malperfusion on Outcome of Acute Type a Aortic Dissection - Results From Geraada
Martin Czerny, Univ Hosp Zurich, Zurich, Switzerland
Thierry Carrel, Univ Hosp Bern, Bern, Switzerland

Abstract Poster Session
Thoracic Aortic Disease III
South Hall A2 - Core 6
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

Poster Professor:
Edward Chen, Atlanta, GA

6257 Outcomes Following Thoracic Endovascular Aortic Repair in Patients With Bovine Aortic Arch Anatomical Variants: A 14-year Single Centre Experience
Prakash Saha, King’s Coll London, London, United Kingdom
Bijan Modarai, King’s Coll London, London, United Kingdom

6258 Accumulation of Adiponectin in Association With Up-regulated T-cadherin in the Aortic Wall of Acute and Chronic Aortic Dissection
Yoshiki Watanabe, Osaka Univ Graduate Sch of Med, Suita, Japan
Yoshiki Sawa, Osaka Univ Graduate Sch of Med, Suita, Japan

6259 D-dimer Profile and Prognostic Implication in Different Classes of Acute Aortic Syndromes
Riccardo Gorla, Circolo Hosp Fond Macchi and Univ of Insubria, Varese, Italy
Raimund Erbel, West-German Heart Ctr and Univ Duisburg-Essen, Essen, Germany

6260 Outcomes of Patients with Acute Type B (DeBakey III) Aortic Dissection: a 13 Year Single Center Experience
Rana O Afifi, Univ of Texas Health Science Ctr at Houston, Houston, TX
Anthony L Estrera, Univ of Texas Health Science Ctr at Houston, Houston, TX
WITHDRAWN
### Abstract Poster Session

**APS.716.04**

**Unstable Angina, NSTEMI and STEMI: Insights from Meta-analyses**

**South Hall A2 - Core 7**

Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Patrizia Presbitero, Rozzano, Italy

**7408**

**Validation of the Universal Definition of Type 4a Myocardial Infarction with High Sensitivity Troponin T in Patients with Non-ST Elevation Acute Coronary Syndrome Undergoing Percutaneous Coronary Interventions**

Kevin Liou, Prince of Wales Hosp, Sydney, Australia
Sze-Yuan Ooi, Prince of Wales Hosp, Sydney, Australia

**7409**

**Bivalirudin versus Heparin in Patients with Acute Myocardial Infarction: A Meta-analysis of Randomized Trials**

Giuseppe Ferrante, Humanitas Clinical and Res Ctr, Rozzano (Milan), Italy
Patrizia Presbitero, Humanitas Clinical and Res Ctr, Rozzano (Milan), Italy

**7410**

**WITHDRAWN**

**7411**

**Peripheral Endothelial Dysfunction Independently Correlated With Cardiovascular Events in Patients Following Coronary Stent Implantation**

Noriaki Tabata, Kumamoto Univ, Kumamoto, Japan
Hisao Ogawa, Kumamoto Univ, Kumamoto, Japan

**7412**

**Use of Factor Xa Inhibitors in Addition to Antiplatelet Therapy in Patients With a Recent Acute Coronary Syndrome: A Systematic Review and Meta-Analysis of Randomized Trials**

Pedro A Villablanca Spinetto, Montefiore Medical Ctr/Albert Einstein Coll of Med, New York, NY
John Somberg, Rush Univ, Chicago, IL

**7413**

**Influence of High-Degree Atrioventricular Block on 30-Day Clinical Outcome Following Acute Myocardial Infarction in the Drug-Eluting Stent Era: Results From Nation-Wide Registry of Acute Myocardial Infarction**

Hack-Lyoung Kim, Seoul Natl Univ Boramae Medical Ctr, Seoul, Republic of Korea
Myung Ho Jeong, Chonnam Natl Univ Hosp, Gwangju, Republic of Korea

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**Abstract Poster Session**

**APS.519.04**

**Valve Disease: Pathophysiology, Prognosis, Risk Stratification**

**South Hall A2 - Core 5**

Posters Displayed: 9:00 AM - 12:00 NOON

Presenter Available: 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Sammy Elmariah, Boston, MA

**5706**

**Asymmetric Septal Hypertrophy as a Prognostic Indicator During Progression of Aortic Valve Stenosis**

Eigir Einarsen, Univ of Bergen, Bergen, Norway
Eva Gerds, Univ of Bergen, Bergen, Norway

**5707**

**Preoperative Symptoms Predict Improvement in Health-related Quality of Life After Surgery for Severe Aortic Stenosis, While Preoperative Echocardiographic Parameters Do Not**

Andreas Auensen, Oslo Univ Hosp, Rikshospitalet, Oslo, Norway
Kjell Pettersen, Oslo Univ Hosp, Rikshospitalet, Oslo, Norway
Abstract Poster Session

**Ventricular Function/ Hemodynamics and Biomarkers II**

**South Hall A2 - Core 5**
Posters Displayed: 9:00 AM - 12:00 NOON
Presenter Available: 9:30 - 11:00 AM

**Poster Professor:**
Horng Chen, Rochester, MN

5606
**Elevated Bacterial Levels Measured by 16s rRNA PCR Correlate With Worsening Clinical Markers in Congestive Heart Failure**
Joshua Weisbrot, New York Presbyterian Weill Cornell Medical Ctr, New York, NY
Evelyn M Horn, New York Presbyterian Weill Cornell Medical Ctr, New York, NY

5607
**Left Ventricular Mass Predicts Hemodynamic Indices of Cardiovascular Reserve Capacity during Exercise**
Aaron S Eisman, Massachusetts General Hosp, Boston, MA
Gregory D Lewis, Massachusetts General Hosp, Boston, MA

5608
**Pulmonary Arterial Pressure Patterns During Recovery From Incremental Exercise Reflect Right Ventricular-Pulmonary Vascular Reserve**
Aaron S Eisman, Massachusetts General Hosp, Boston, MA
Gregory D Lewis, Massachusetts General Hosp, Boston, MA

5609
**Maladaptive Remodeling in Women with Signs and Symptoms of Ischemia and Elevated Left Ventricular End-diastolic Pressure**
Omeed Elboudwarej, Cedars-Sinai Medical Ctr, Los Angeles, CA
C Noel Bairey Merz, Cedars-Sinai Medical Ctr, Los Angeles, CA

5610
**Reduced Exercise Capacity Attributable to Latent Left Ventricular Diastolic Dysfunction Unmasked by Invasive Exercise Testing in Diabetic Patients After Acute Myocardial Infarction**
Michinari Hieda, Natl Cerebral and Cardiovascular Ctr, Suita city, Osaka, Japan
Yoichi Goto, Natl Cerebral and Cardiovascular Ctr, Suita city, Osaka, Japan

5611
**Strain rather than Diastolic Parameters correlates with Heart Failure Risk Factors**
Hong Yang, Menzies Res Inst, Hobart, TAS, Australia
Thomas Marwick, Menzies Res Inst, Hobart, TAS, Australia
ECHOCARDIOGRAPHIC ASSESSMENT OF VOLUME STATUS IN HEMODIALYSIS PATIENTS: A STUDY BASED ON INFERIOR VENA CAVA DIAMETER AND VENTRICULAR INTERDEPENDENCE
Xiushui Ren, Kaiser Permanente Medical Ctr, Redwood City, CA
Nelson Schiller, UCSF, San Francisco, CA

USEFULNESS OF PEAK MITRAL REGURGITATION VELOCITY TO LEFT VENTRICULAR OUTFLOW TRACT TIME VELOCITY INTEGRAL RATIO AS A NEW PROGNOSTIC MARKER IN FAILING HEART
Ahmet Temizhan, Turkey Yuksek Ihtisas Education and Res Hosp, Ankara, Turkey
Sinan Aydogdu, Turkey Yuksek Ihtisas Education and Res Hosp, Ankara, Turkey

COMPLEMENTARY ROLE OF VON WILLEBRAND FACTOR INDICES TO BRAIN NARIETIC PEPTIDE IN HYPERTROPHIC CARDIOMYOPATHY
Hana Kusumoto, Mayo Clinic Florida, Jacksonville, FL
Joseph L Blackshear, Mayo Clinic Florida, Jacksonville, FL

SYMPATHETIC OVERACTIVATION BUT NOT HYponatremia AS INDEPENDENT PREDICTOR OF CARDIOVASCULAR EVENTS AND MORTALITY IN PATIENTS WITH CHRONIC HEART FAILURE
Shuji Joho, Univ of Toyama, Toyama, Japan
Hiroshi Inoue, Univ of Toyama, Toyama, Japan

Model of End-Stage Liver Disease Excluding INR (MELD-XI) Scoring System Provides the Long-Term Prognostic Information in Patients Admitted With Acute Decompensated Heart Failure, Regardless of Reduced or Preserve Left Ventricular Ejection Fraction
Takahisa Yamada, Osaka General Medical Ctr, Osaka, Japan
Masatake Fukunami, Osaka General Medical Ctr, Osaka, Japan

MULTI-Omics Analysis Strategy is a Promising Approach for Global Identification of New Biomarkers Evaluating Disease Severity of Patients With Dilated Cardiomyopathy
Naoto Minamino, Nati Cereb Cardiovascul Ctr, Suita, Osaka, Japan
Takeshi Nakatani, Nati Cereb Cardiovascul Ctr, Suita, Osaka, Japan

Effects of Left Ventricular Assist Device Support on microRNA Levels
Teresa Wang, Duke Medical Ctr, Durham, NC
Tariq Ahmad, Duke Medical Ctr, Durham, NC

Association Between Insulin-Like Growth Factor Binding Protein-2 and Left Ventricular Stroke Volume in Patients With Aortic Stenosis
Sophie Carter, Québec Heart and Lung Institute, Québec, QC, Canada
Frédéric Picard, Québec Heart and Lung Institute, Québec, QC, Canada
Abstract Poster Session

**What’s New in Pacing?**

**APS.407.04h**

**South Hall A2 - Core 4**

**Posters Displayed:** 9:00 AM - 12:00 NOON

**Presenter Available:** 9:30 - 11:00 AM

**BOARD #**

**Poster Professor:**
Steven Bailin, West Des Moines, IA

**4327 Complete Heart Block After Transcatheter Aortic Valve Implantation: A Meta-Analysis**
Arun Kanmanthareddy, The Univ of Kansas Medical Ctr, Kansas City, KS
Dhanunjaya Lakireddy, The Univ of Kansas Medical Ctr, Kansas City, KS

**4328 Longitudinal Dissociation in the His Bundle: Persistent Bundle Branch Block Can be Corrected by Permanent His Bundle Pacing**
Pugazhendhi Vijayaraman, Geisinger Wyoming Valley Medical Ctr, Wilkes Barre, PA
Gopi Dandamudi, Geisinger Wyoming Valley Medical Ctr, Wilkes Barre, PA

**4329 Septal Pacing Improves Prognosis in Patients with High Pacemaker Dependency: A Propensity-matched Analysis**
Akira Mizukami, Kameda Medical Ctr, Kamogawa, Japan
Yuji Hashimoto, Kameda Medical Ctr, Kamogawa, Japan

**4330 The Impact of Ventricular Pacing for Elderly Patients With Pacemaker Implantation: Over One Decade and Large Cohort Analysis**
Ayako Kamijima, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan
Kengo Kusano, Natl Cerebral and Cardiovascular Ctr, Osaka, Japan

**4331 Predictors of Death in Patients With Chagas Cardiomyopathy and Pacemaker - Preliminary Results of the PACINCHAGAS Study**
Giselle L Peixoto, Heart Inst (InCor) Univ of São Paulo Medical Sch (FMUSP), São Paulo, Brazil
Martino Martinelli, Heart Inst (InCor) Univ of São Paulo Medical Sch (FMUSP), São Paulo, Brazil

**4332 Imaging the PM/AICD Patient; Does the Diagnostic Value Justify the Risk?**
Huma Y Samar, Allegheny General Hosp, Pittsburgh, PA
Robert Biederman, Allegheny General Hosp, Pittsburgh, PA

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e-Abstract Session

**EAS.407.04h**

**What’s New in Pacing?**

**South Hall A2 - Core 4 Theater**

**11:00**

**Moderator:**
Steven Bailin, West Des Moines, IA

**Longitudinal Dissociation in the His Bundle: Persistent Bundle Branch Block Can be Corrected by Permanent His Bundle Pacing**
Pugazhendhi Vijayaraman, Geisinger Wyoming Valley Medical Ctr, Wilkes Barre, PA
Gopi Dandamudi, Geisinger Wyoming Valley Medical Ctr, Wilkes Barre, PA

**11:05**

**Complete Heart Block After Transcatheter Aortic Valve Implantation: A Meta-Analysis**
Pugazhendhi Vijayaraman, Geisinger Wyoming Valley Medical Ctr, Wilkes Barre, PA

**11:10**

**Predictors of Death in Patients With Chagas Cardiomyopathy and Pacemaker - Preliminary Results of the PACINCHAGAS Study**
Giselle L Peixoto, Heart Inst (InCor) Univ of São Paulo Medical Sch (FMUSP), São Paulo, Brazil
Martino Martinelli, Heart Inst (InCor) Univ of São Paulo Medical Sch (FMUSP), São Paulo, Brazil

**11:15**

**WITHDRAWN**

**11:20**

**Imaging the PM/AICD Patient; Does the Diagnostic Value Justify the Risk?**
Huma Y Samar, Allegheny General Hosp, Pittsburgh, PA
Robert Biederman, Allegheny General Hosp, Pittsburgh, PA

**11:25**

**Septal Pacing Improves Prognosis in Patients with High Pacemaker Dependency: A Propensity-matched Analysis**
Akira Mizukami, Kameda Medical Ctr, Kamogawa, Japan
Yuji Hashimoto, Kameda Medical Ctr, Kamogawa, Japan

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e-Abstract Session

**EAS.217.01**

**Cancer and Cardiovascular Disease II**

**South Hall A2 - Core 2 Theater**

**11:00**

**Moderator:**
Thomas Andrews, Dallas, TX

**Cardiovascular Disease Mortality Among Black and White Women With Ductal Carcinoma in Situ of the Breast**
Susan G Lakoski, Univ of Vermont, Burlington, VT
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:05</td>
<td>A Dual PI3K-mTOR Inhibitor Induced Cardiac Hypertrophy in Mice</td>
<td>Xinhua Yan, Genesys Res Inst, Boston, MA James Morgan, St Elizabeth’s Medical Ctr, Boston, MA</td>
</tr>
<tr>
<td>11:10</td>
<td>Doxycline Modulates Cardiomyocyte Remodeling in Light Chain-Induced Cardiac Amyloidosis</td>
<td>Flora Sam, Boston Univ Sch of Med, Boston, MA</td>
</tr>
<tr>
<td>11:15</td>
<td>Left Ventricular Remodeling Index (LVRI) in patients after breast cancer therapy in the long-term follow-up</td>
<td>Felix Heggemann, Medical Faculty Mannheim, Univ of Heidelberg, 68167 Mannheim, Germany Frank Lohr, Medical Faculty Mannheim, Univ of Heidelberg, 68167 Mannheim, Germany</td>
</tr>
<tr>
<td>11:20</td>
<td>Demographics, Characteristics and Comparative Survival of Malignant Cardiac Tumors: Analysis From the Surveillance, Epidemiology and End-Results Registry</td>
<td>Sadeer Al-Kindi, Univ Hosp Case Medical Ctr, Cleveland, OH Guilherme H Oliveira, Univ Hosp Case Medical Ctr, Cleveland, OH</td>
</tr>
<tr>
<td>11:30</td>
<td>Comparing the Efficacy of Primary Prevention Strategies in Doxorubicin-induced Cardiotoxicity using Echocardiography and High-Sensitivity Troponin T</td>
<td>Pimprapa Vejpongsa, MD Anderson Cancer Ctr, Houston, TX Edward TH Yeh, MD Anderson Cancer Ctr, Houston, TX</td>
</tr>
<tr>
<td>11:40</td>
<td>Long Term Use of Calcium Channel Blockers and Risk of Breast Cancer Development</td>
<td>Stacey Knight, Intermountain Medical Ctr, Murray, UT Jeffrey L Anderson, Intermountain Medical Ctr, Univ of Utah, Murray, UT</td>
</tr>
<tr>
<td>11:45</td>
<td>Cardiac Biomarkers are Elevated in Children During Chemotherapy Regardless of Anthracycline Status</td>
<td>Kimberly Y Lin, Univ of Pennsylvania, Philadelphia, PA Robert E Shaddy, Univ of Pennsylvania, Philadelphia, PA</td>
</tr>
</tbody>
</table>

**e-Abstract Session**

**Functional Genomics of Myocardial Disorders**

**South Hall A2 - Core 3 Theater**

**11:00 - 11:50 AM**

**Moderator:**
Rogor Foo, Cambridge, United Kingdom

**11:00**

Variants in Junctophilin-2 3’UTR Alter Affinity for Mir-24 and Mir-214 and are Protective in Heart Failure Patients

David E Lanfear, Henry Ford Hosp, Detroit, MI Ralph J van Oort, Univ of Amsterdam, Academic Medical Ctr, Amsterdam, Netherlands

Identification of MicroRNAs Inducing Adult Cardiomyocyte Proliferation

Raghav Pandey, Univ of Cincinnati, Cincinnati, OH Rafeeq ph Ahmed, Univ of Cincinnati, Cincinnati, OH

**11:10**

Citrullination in Actin-Tropomyosin-Myosin Complex: Novel Regulatory Mechanism

Justyna Fert-Bober, Cedars-Sinai Medical Ctr, Los Angeles, CA Luisa Mestroni, Univ of Colorado Denver AMC, Aurora, CO

**11:15**

Altered Nuclear and Cytoskeletal Mechanics and Defective Cell Adhesion in Cardiac Myocytes Carrying the Cardiomyopathy LMNA D192G Mutation

Orfeo Sbaizero, Univ of Trieste, Trieste, Italy

**11:20**

Rna Splicing Regulated by A2bp1 is Essential for Cardiac Function in Zebrafish

Karen S Frese, Univ Hosp Heidelberg, Heidelberg, Germany Wolfgang Rottbauer, Univ Hosp Ulm, Ulm, Germany

**11:25**

Different Human Mutations in the Myosin Binding Protein C3 (MYBPC3) Produce Specific Cardiac Phenotypes in the Zebrafish

Sahar I Da’as, Qatar Fndn, Doha, Qatar Magdi H Yacoub, Qatar Fndn, Doha, Qatar

**11:30**

Estrogen Receptor β Mediates Sex Differences in the Proteomic Response of the Heart to Pressure Overload

Georgios Kararigas, Charite Univ Hosp, Berlin, Germany Vera Regitz-Zagrosek, Charite Univ Hosp, Berlin, Germany

**11:35**

Inhibition of Mechanistic Target of Rapamycin by Heterozygous Deletion of Raptor Ameliorates Pressure-overload Induced Heart Failure and the Associated Proteomics Remodeling

Dao Fu Dai, Univ of Washington, Seattle, WA
Both Common and Rare SCN10A Variants Associated with Brugada Syndrome Displayed an Increase in Late Nav1.8 Sodium Currents in ND 7/23 cells
Eleonora Savio-Galimberti, Vanderbilt Univ, Nashville, TN
Brugada Gene Discovery Group

Deciphering and Exploiting MicroRNA-Target Interactomes in Human Cardiac Tissues
Ryan L Boudreau, Univ of Iowa, Iowa City, IA

Wednesday AM

11:40 - 11:55
Both Common and Rare SCN10A Variants Associated with Brugada Syndrome Displayed an Increase in Late Nav1.8 Sodium Currents in ND 7/23 cells
Eleonora Savio-Galimberti, Vanderbilt Univ, Nashville, TN
Brugada Gene Discovery Group

11:45 - 11:55
Deciphering and Exploiting MicroRNA-Target Interactomes in Human Cardiac Tissues
Ryan L Boudreau, Univ of Iowa, Iowa City, IA

E-Abstract Session

EAS.311.01
Epidemiology, Screening and Prevention in the Pediatric Population
South Hall A2 - Core 3 Theater
9:00 - 9:50 AM

Moderator:
Michele Mietus-Snyder, Washington, DC

9:00
Nasa Model of “Threat and Error” in Paediatric Cardiac Surgery: Death Typically Results From Cycles of Error That Originate in the Operating Room and Are Amplified by Additional Error in Intensive Care
Edward Hickey, The Hosp for Sick Children, Toronto, ON, Canada
Glen S Van Arsdell, The Hosp for Sick Children, Toronto, ON, Canada

9:05
Risk Factors for Abnormal Developmental Trajectories in Young Children with Congenital Heart Disease
Kathleen Mussatto, Children’s Hosp of Wisconsin, Milwaukee, WI
Cheryl Brosig, Medical Coll of Wisconsin, Milwaukee, WI

9:10
Identifying Predictors of Hospital Readmission Following Congenital Heart Surgery Through Analysis of a Multi-Institutional Administrative Database
Andrew H Smith, Vanderbilt Univ Sch of Med, Nashville, TN
James C Gay, Vanderbilt Univ Sch of Med, Nashville, TN

9:15
Pulse Oximetry Overestimates Arterial Oxy-Hemoglobin in Neonates With Known Critical Congenital Heart Disease (CCHD) - Implications for Newborn Screening
Daniel P Murphy, Harbor UCLA / Children’s Hosp Orange County, Torrance, CA
John P Cleary, Children’s Hosp Orange County, Orange, CA

9:20
Handheld Echocardiography Improves Detection of Rheumatic Heart Disease in Ugandan Schoolchildren Compared to Auscultation
Justin Godown, Univ of Michigan, Ann Arbor, MI
Gregory J Ensing, Univ of Michigan, Ann Arbor, MI

9:25
Children After Fontan have the Strength, Body Composition, and Daily Moderate-to-Vigorous Physical Activity Required for Successful Participation with Peers
Patricia E Longmuir, Children’s Hosp of Eastern Ontario Res Inst, Ottawa, ON, Canada
Brian W McCrindle, Hosp for Sick Children, Toronto, ON, Canada

9:30
Fetal and Neonatal Markers of Neurodevelopmental Outcome in Congenital Heart Disease
Ismee A Williams, Morgan Stanley Children’s Hosp of NewYork-Presbyterian, Columbia Univ Medical Ctr, New York, NY
William Fifer, New York State Psychiatric Inst, New York, NY

9:35
Receipt of Special Education Services Among Children with Congenital Heart Defects in Atlanta, Georgia
Tiffany Colarusso, CDC, Atlanta, GA
Adolfo Correa, Univ of Mississippi Medical Ctr, Jackson, MS

9:40
Race to the Top: Are Children With Congenital Heart Disease Off to a False Start?
Matthew Oster, Children’s Healthcare of Atlanta, Atlanta, GA
Bryan Williams, Emory Univ, Atlanta, GA

9:45
Obstructive Sleep Apnea Independently Mediates Cardio-Metabolic Risk in Obese Adolescents
Cedric Manlhiot, The Hosp for Sick Children, Toronto, ON, Canada
Jill Hamilton, The Hosp for Sick Children, Toronto, ON, Canada
Abstract Oral Session

AOS.104.01S

**Advances in Echocardiography of Aortic Valve Disease**

N230a
10:45 AM - 12:00 NOON

**Moderator:**
Mani A Vannan, Atlanta, GA

10:45

*Aortic Stenosis: A 2014 Perspective*
Philippe Pibarot, Quebec, QC, Canada

11:15

*Lipoprotein(a) and Progression Rate of Aortic Valve Stenosis - A Pooled-Analysis of Two Prospective Studies*
Romain Capoulade, Quebec Heart & Lung Inst, Quebec, QC, Canada
Philippe Pibarot, Quebec Heart & Lung Inst, Quebec, QC, Canada

11:25

**Q&A Discussion**

11:30

*Impact of Significant Mitral Regurgitation on Assessing the Severity of Aortic Stenosis: a Cause of Low Severe Aortic Stenosis*
Pil Hyung Lee, Asan Medical Ctr, Seoul, Republic of Korea
Jong-Min Song, Asan Medical Ctr, Seoul, Republic of Korea

11:40

**Q&A Discussion**

11:45

*Prognostic Implication of Valvuloarterial Impedance in Patients Who Underwent Aortic Valve Replacement: Heterogeneity According to Underlying Etiology*
Byung Joo Sun, Asan Medical Ctr, Seoul, Republic of Korea
Jae-Kwan Song, Asan Medical Ctr, Seoul, Republic of Korea

11:55

**Q&A Discussion**

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Abstract Oral Session

AOS.404.01

**Atrial Fibrillation Ablation**

S401bcd
10:45 AM - 12:00 NOON

**Moderators:**
Sanjiv M Narayan, Palo Alto, CA
Ann Garlitski, Boston, MA

10:45

*Presence of Dissociated Pulmonary Vein Activity After Isolation Depends on Fibrillatory Excitation in Pulmonary Vein*
Takashi Kaneshiro, Fukushima Medical Univ, Fukushima, Japan
Yasuchika Takeishi, Fukushima Medical Univ, Fukushima, Japan

10:55

**Q&A Discussion**
11:00  Morphological and Functional Image Fusion - A Novel, Multidimensional Way to Locate Ganglionated Plexi
Sabine Ernst, Royal Brompton and Harefield Hosp, London, United Kingdom
Simona Ben-Haim, Univ Coll London Hosp, London, United Kingdom

11:10  Q&A Discussion

11:15  Inclusion of B-type Natriuretic Peptide into Existing Atrial Fibrillation (AF) Risk Scores Improves Identification of Patients with Recurrence of Atrial Fibrillation after Pulmonary Vein Isolation
Amir Y Shaikh, Univ of Massachusetts Medical Sch, Worcester, MA
David D McManus, Univ of Massachusetts Medical Sch, Worcester, MA

11:25  Q&A Discussion

11:30  Role of Cardiac Autoantibodies for the Prediction of Recurrence Following Cryoballoon-based Lone Atrial Fibrillation Ablation
Mehmet A Oto, Hacettepe Univ, Ankara, Turkey
Kudret Aytemir, Hacettepe Univ, Ankara, Turkey

11:40  Q&A Discussion

11:45  Prediction of Recurrent Atrial Fibrillation in Patients Treated by Pulmonary Vein Isolation
Michael Grafe, Deutsches Herzzentrum, Berlin, Germany
Ernst Wellnhofer, Deutsches Herzzentrum, Berlin, Germany

11:55  Q&A Discussion

Abstract Oral Session
AOS.516.01
Autophagy, Mitochondria and Protein Homeostasis

S405
10:45 AM - 12:00 NOON

Moderators:
Christopher Glembotski, San Diego, CA
Junichi Sadoshima, Newark, NJ

10:45  Drp1 Accumulates in Mitochondria and Plays a Protective Role in the Heart in Response to Pressure Overload
Akihiro Shirakabe, Rutgers New Jersey Medical Sch, Newark, NJ
Junichi Sadoshima, Rutgers New Jersey Medical Sch, Newark, NJ

10:55  Q&A Discussion

11:00  Nanoparticle-Mediated Targeting of a Mitochondria Division Inhibitor, Mdivi-1, to the Mitochondria Induces Cardioprotection from Ischemia-Reperfusion Injury
Ayako Ishikita, Graduate Sch of Medical Sciences, Kyushu Univ, Fukuoka, Japan
Kensuke Egashira, Graduate Sch of Medical Sciences, Kyushu Univ, Fukuoka, Japan

11:10  Q&A Discussion

11:15  Mesencephalic Astrocyte-Derived Neurotrophic Factor is an Endoplasmic Reticulum Stress-Inducible Protein with Novel Roles as a Regulator of Cardiac Myocyte Growth
Winston T Stauffer, San Diego State Univ, San Diego, CA
Christopher C Glembotski, San Diego State Univ, San Diego, CA

11:25  Q&A Discussion

11:30  Autophagy is Required for Mitochondrial Biogenesis in the Heart
Zhonggang Li, Univ of Utah, Salt Lake City, UT
E Dale Abel, Univ of Iowa, Iowa City, IA

11:40  Q&A Discussion

11:45  Ddit4L: A Novel Differential Regulator of mTor and Autophagy in Cardiomyocytes
Bridget Simonson, Beth Israel Deaconess Ctr, Boston, MA
Saumya Das, Beth Israel Deaconess Ctr, Boston, MA

11:55  Q&A Discussion

Abstract Oral Session
AOS.606.01
Coronary Imaging and Hemodynamics

N227b
10:45 AM - 12:00 NOON

Moderator:
Habib Samady, Atlanta, GA

10:45  Assessment of Both Coronary Microvascular Damage and Left Ventricular Chamber Stiffness after Successful Percutaneous Coronary Intervention Predicts In-Hospital Cardiac Complications and Left Ventricular Remodeling in ST-Segment Elevation Myocardial Infarction
Atsushi Yamamuro, Nishinomiya Watanabe Cardiovascular Ctr, Nishinomiya, Japan
Junichi Yoshikawa, Nishinomiya Watanabe Cardiovascular Ctr, Nishinomiya, Japan

10:55  Q&A Discussion

11:00  Plaque Erosion, Compared to Plaque Rupture, is Associated With Better Outcomes After Primary Percutaneous Coronary Intervention in Patients With ST-segment Elevation Myocardial Infarction
Takumi Higuma, Hirosaki Univ Graduate Sch of Med, Hirosaki, Japan
Ken Okumura, Hirosaki Univ Graduate Sch of Med, Hirosaki, Japan

11:10  Q&A Discussion
Wednesday, November 19 • Chicago, Illinois

11:15  Coronary Artery Negative Remodeling and Intimal Thickening Predict Long-Term Clinical Outcomes After Heart Transplantation  
Kozo Okada, Stanford Univ, Stanford, CA  
William F Fearon, Stanford Univ, Stanford, CA

11:25  Q&A Discussion

11:30  Thermodilution-derived Coronary Blood Flow Pattern Immediately After Coronary Intervention as a Predictor of Long-term Clinical Outcomes in Patients With ST-segment Elevation Myocardial Infarction  
Masashi Fukunaga, Hyogo Coll of Med, Nishinomiya, Japan  
Tohru Masuyama, Hyogo Coll of Med, Nishinomiya, Japan

11:40  Q&A Discussion

Abstract Oral Session

AOS.708.01  Microcirculation and Cerebral/Coronary/Peripheral Circulation IV

S103d  10:45 AM - 12:00 NOON

Moderators:  
David D Guttermann, Milwaukee, WI  
Ian Bratz, Rootstown, OH

10:45  Vascular Smooth Muscle Kv1.5 Channels Contribute to Coronary Metabolic Dilation  
Vahagn Ohanyan, NEOMED, Rootstown, OH  
William M Chillian, NEOMED, Rootstown, OH

11:00  Adipose-derived Cell Treatment Improves Coronary Blood Flow Reserve in Aged Females and is Associated With Altered ROS Production in Coronary Arterioles  
Amanda LeBlanc, Univ of Louisville, Louisville, KY

11:10  Q&A Discussion

11:15  Disturbed Shear Stress Facilitates Caveolae-Mediated oxLDL Uptake Leading to Increased Endothelial Stiffness  
Elizabeth LeMaster, Univ of Illinois at Chicago, Chicago, IL  
Irena Levitan, Univ of Illinois at Chicago, Chicago, IL

11:25  Q&A Discussion

11:30  Manipulation of the Sphingolipid Rheostat Alters the Mediator of Flow-Induced Dilation in the Human Microcirculation  
Julie K Freed, Medical Coll of Wisconsin, Milwaukee, WI  
David D Guttermann, Medical Coll of Wisconsin, Milwaukee, WI

11:40  Q&A Discussion

11:45  Genetic Variants for KATP Channels as Protective Factors in Ischemic Heart Disease Susceptibility: Gender Differences  
Paolo Severino, Sapienza Univ of Rome, Rome, Italy  
Francesco Fedele, Sapienza Univ of Rome, Rome, Italy

11:55  Q&A Discussion

Abstract Oral Session

AOS.609.01  Myocardial Protection and Surgical Outcomes

N226  10:45 AM - 12:00 NOON

Moderators:  
Rakesh Kukreja, Richmond, VA  
J Michael DiMaio, Dallas, TX

10:45  Telomere Length Predicts Post-Operative Atrial Fibrillation in Patients Undergoing CABG Independently of Chronological Age  
Marios Margaritis, Univ of Oxford, Oxford, United Kingdom  
Charalambos Antoniades, Univ of Oxford, Oxford, United Kingdom

11:00  Telomere Length Predicts Post-Operative Atrial Fibrillation in Patients Undergoing CABG Independently of Chronological Age  
Marios Margaritis, Univ of Oxford, Oxford, United Kingdom  
Charalambos Antoniades, Univ of Oxford, Oxford, United Kingdom

11:10  Q&A Discussion

11:15  Adipose-derived Cell Treatment Improves Coronary Blood Flow Reserve in Aged Females and is Associated With Altered ROS Production in Coronary Arterioles  
Amanda LeBlanc, Univ of Louisville, Louisville, KY

11:25  Q&A Discussion

11:30  Disturbed Shear Stress Facilitates Caveolae-Mediated oxLDL Uptake Leading to Increased Endothelial Stiffness  
Elizabeth LeMaster, Univ of Illinois at Chicago, Chicago, IL  
Irena Levitan, Univ of Illinois at Chicago, Chicago, IL

11:45  A Landmark Analysis of 30-day Mortality after Coronary Artery Bypass Surgery in Patients with Ischemic Heart Failure: Results of the Surgical Treatment for Ischemic Heart Failure (STICH) Trial  
Krzysztof Wrobel, Allenort Hosp, Warsaw, Poland  
Richard Daly, Mayo Clinic, Rochester, MN

11:55  Q&A Discussion
Abstract Oral Session

**AOS.202.01**

**Novel Biomarkers and Cardiovascular Disease Risk Prediction**

S504
10:45 AM - 12:00 NOON

Moderators:
Marina Cuchel, Philadelphia, PA
Borge Nordestgaard, Herlev, Denmark

10:45
**Four Factors Explain Most of the Gender Disparity in Statin Therapy**
Alexander Turchin, Brigham and Women's Hosp, Boston, MA

10:55
**Q&A Discussion**

11:00
**Hdl Cholesterol Efflux Capacity is Inversely Associated With Incident Chd Events Independent of Hdl-c and Apoa-i Concentrations**
Danish Saleheen, Univ of Pennsylvania, Philadelphia, PA
Daniel J Rader, Univ of Pennsylvania, Philadelphia, PA

11:10
**Q&A Discussion**

11:15
**Remnant Cholesterol, Low-Density Lipoprotein Cholesterol, and Blood Pressure as Mediators from Obesity to Ischemic Heart Disease**
Marianne Benn, Copenhagen Univ Hosp, Hellerup, Denmark
Borge G Nordestgaard, Copenhagen Univ Hosp, Herlev, Denmark

11:25
**Q&A Discussion**

11:30
**Fasting and Postprandial Triglycerides and Cardiovascular Event in Stable Coronary Artery Disease: 4-Years Follow-Up of the Homburg Cream & Sugar Study**
Christian Werner, Univsklinikum des Saarlandes, Homburg / Saar, Germany
Ulrich Laufs, Univsklinikum des Saarlandes, Homburg / Saar, Germany

11:40
**Q&A Discussion**

11:45
**Inflammation-resolving Lipid Mediator Resolvin D2 Enhances Revascularization in Hind Limb Ischemia**
Matthew Spite, Brigham and Women's Hosp, Boston, MA

11:55
**Q&A Discussion**

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Abstract Oral Session

**AOS.514.01**

**Novel Strategies to Protect Myocardium**

S404bcd
10:45 AM - 12:00 NOON

Moderators:
Charles Steenbergen Jr., Baltimore, MD
Tetsuji Miura, Sapporo, Japan

10:45
**GRK2-Mediated Phosphorylative Desensitization of AdipoR1 in the Failing Heart**
Yaqing Wang, Thomas Jefferson Univ., Philadelphia, PA
Xin Ma, Thomas Jefferson Univ, Philadelphia, PA

10:55
**Q&A Discussion**

11:00
**Cardiospecific Overexpression of Carnosine Synthase Attenuates Myocardial Ischemia Reperfusion Injury**
Shahid Baba, Univ of Louisville, Louisville, KY
Aruni Bhatnagar, Univ of Louisville, Louisville, KY

11:10
**Q&A Discussion**

---
### Abstract Oral Session

#### AOS.206.01  
**Nutrition in CVD Risk and Prevention**

**S505  
10:45 AM - 12:00 NOON**

**Moderator:** Marie-Pierre St-Onge, New York, NY

10:45  
**Obesity-Related Changes in Circulating Microrna Profile After Standardized Meal**

Tamas Alexy, Emory Univ, Atlanta, GA

Charles D Searles, Emory Univ, Decatur, GA

10:55  
**Q&A Discussion**

11:00  
**Distribution of Energy Intake throughout the day and Weight Change: A Population-based Cohort Study in Spain**

Pilar Guallar-Castillon, Univ Autónoma de Madrid, Madrid, Spain

Fernando Rodríguez-Artalejo, Univ Autónoma de Madrid, Madrid, Spain

11:10  
**Q&A Discussion**

11:15  
**Cardiovascular Response to Energy Drink Consumption in Healthy Adults**

Anna Svatikova, Mayo Clinic, Rochester, MN

Jan Bukartyk, Mayo Clinic, Rochester, MN

11:25  
**Q&A Discussion**

11:30  
**Impact of High Volume Energy Drink Consumption on Electrocardiographic and Blood Pressure Parameters**

Emily A Fletcher, David Grant USAF Medical Ctr, Travis AFB, CA

Sachin A Shah, Univ of the Pacific, Stockton, CA

11:40  
**Q&A Discussion**

---

#### AOS.517.01  
**Ventricular Function/Hemodynamics and Biomarkers**

**S406a  
10:45 AM - 12:00 NOON**

**Moderators:**
Hanna K Gaggin, Boston, MA
A Mark Richards, Christchurch, New Zealand

10:45  
**Mental Stress is Associated with More Transient Ischemic Dilatation of the Left Ventricle Than Physical Stress**

Pratik M Pimple, Rollins Sch of Public Health, Emory Univ, Atlanta, GA

Viola Vaccarino, Rollins Sch of Public Health, Emory Univ, Atlanta, GA

10:55  
**Q&A Discussion**

11:00  
**High-Sensitivity Troponin T is Associated with Worse Diastolic Function and Greater LV Mass among Elderly Persons in the Community without Prevalent Cardiovascular Disease**

Amil M Shah, Brigham and Women’s Hosp, Boston, MA

Scott D Solomon, Brigham and Women’s Hosp, Boston, MA

11:10  
**Q&A Discussion**

11:15  
**The Novel Biomarker Osteopontin Predicts Adverse Outcome in Patients Undergoing Treatment of Severe Aortic Stenosis by TAVI**

Matthias Lutz, Univ Medical Ctr Schleswig-Holstein, Campus Kiel, Kiel, Germany

Derk Frank, Univ Medical Ctr Schleswig-Holstein, Campus Kiel, Kiel, Germany

11:25  
**Q&A Discussion**

11:30  
**N-Terminal Probrain Natriuretic Peptide is a Strong Predictor of Long-Term Mortality in Patients With Severe Sepsis and Septic Shock. Data From the Albumin Italian Outcome Sepsis Study**

Serge Masson, IRCCS-Istituto di Ricerche Farmacologiche Mario Negri, Milano, Italy

on behalf of the ALBIOS Study Investigators

11:40  
**Q&A Discussion**
<table>
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| 11:45 | Incremental Prognostic Value of Discordant Amino Terminal Pro B-type Natriuretic Peptide Compared to B-type Natriuretic Peptide Levels in Stable Patients with Heart Failure  
Justin L Grodin, Cleveland Clinic Fndn, Cleveland, OH  
W H Wilson Tang, Cleveland Clinic Fndn, Cleveland, OH |
| 11:45 | What Is the Best Method for Evaluating Regression of Early Atherosclerosis?  
Viviany R Taqueti, Boston, MA |
| 11:55 | Q&A Discussion                                                                            |
| 11:55 | Q&A Discussion                                                                            |

**Cardiovascular Seminar**

**CVS.227**

**Impact of Multiple Comorbid Conditions on Cardiovascular Health**

**SS502**  
10:45 AM - 12:00 NOON  
Moderator:  
Barbara Riegel, Philadelphia, PA

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| 10:45 | Comorbidity and Symptom Presentation in Acute Coronary Syndrome  
Holli A DeVon, Chicago, IL |
| 11:00 | Impact of Noncardiac Comorbidities on Mortality in Heart Failure  
Biykem Bozkurt, Houston, TX |
| 11:15 | Multiple Comorbid Conditions and Self-Care of Cardiovascular Disease  
Victoria V Dickson, New York, NY |
| 11:30 | Influence of Psychological Comorbidities on Cardiovascular Health  
Kathleen Dracup, San Francisco, CA |
| 11:45 | Q&A Discussion                                                                            |

**Special**

**SS.13**

**Curing Atherosclerosis: The Next Step in Cardiovascular Prevention?**

**S106**  
10:45 AM - 12:00 NOON  
Moderators:  
Vera Bittner, Birmingham, AL  
John J Kastelein, Amsterdam, Netherlands

<table>
<thead>
<tr>
<th>Time</th>
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| 10:45 | Can We Cure Atherosclerosis?  
Jennifer G Robinson, Iowa City, IA |
| 11:00 | Regression of Atherosclerosis in Children  
Samuel S Gidding, Wilmington, DE |
| 11:15 | Aggressive LDL-C Lowering Can Reverse Atherosclerosis  
Edward Fisher, New York, NY |
| 11:30 | Aggressive LDL-C Lowering Can Normalize Vasomotor Reactivity  
G Kees Hovingh, Amsterdam, Netherlands |

**Late-Breaking Clinical Trials**

**LBCT.04**

**Ischemic Heart Disease: Drugs, Devices and Systems of Care**

**S100ab**  
10:45 AM - 12:03 PM  
Moderators:  
Harold Dauerman, Burlington, VT  
Patrick W Serruys, Rotterdam, Netherlands

<table>
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<tr>
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| 10:45 | Long-term Outcome of Biodegradable Compared to Durable Polymer Drug-eluting Stents and Bare Metal Stents - Main Results of a Prospective Randomized Trial  
Christoph A Kaiser, Basel, Switzerland |
| 10:55 | Primary Outcomes of the EVOLVE II Trial: A Prospective Randomized Investigation of a Novel Bioabsorbable Polymer-Coated, Everolimus-Eluting Coronary Stent  
Dean J Kereiakes, Cincinnati, OH |
| 11:05 | Discussant of BASKET-PROVE II and The EVOLVE II Clinical Trial  
Roxana Mehran, New York, NY |
| 11:10 | Panel Discussion                                                                            |
| 11:19 | A Randomised Controlled Trial of Oxygen Therapy in Acute St-segment Elevation Myocardial Infarction: The Air Versus Oxygen in Myocardial Infarction (AVOID) Study  
Dion Stub, Melbourne, Australia |
| 11:29 | Discussant of A Randomised Controlled Trial Of Oxygen Therapy In Acute St-segment Elevation Myocardial Infarction: The Air Versus Oxygen In Myocardial Infarction (AVOID) Study  
Karl Kern, Tucson, AZ |
| 11:32 | Panel Discussion                                                                            |
| 11:41 | Developing Regional STEMI Systems of Care: Final Results of the Mission: Lifeline STEMI ACCELERATOR Study  
Matthew W Sherwood, Durham, NC |
| 11:51 | Discussant of Developing Regional STEMI Systems of Care: Final Results of the Mission: Lifeline STEMI ACCELERATOR Study  
Dariusz Dudek, Krakow, Poland |
| 11:54 | Panel Discussion                                                                            |
### e-Abstract Session

**EAS.107.01**  
**Computed Tomography: Heart (Left Ventricle and Left Atrium)**

**South Hall A2 - Core 1 Theater**  
11:00 - 11:50 AM

**Moderator:**  
Kelley Branch, Seattle, WA

<table>
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<td>11:00</td>
<td><strong>Left Atrial Delayed Computed Tomography Angiography Protocol Markedly Reduces Need for TEEs Prior to Atrial Fibrillation Ablation</strong></td>
<td>Augustus Mealer, Univ of Virginia, Charlottesville, VA; Kenneth C Bilchick, Univ of Virginia, Charlottesville, VA</td>
</tr>
<tr>
<td>11:05</td>
<td><strong>Left Atrial Appendage CT Contrast Defects Correlate With CHADS2 Score and is a Prognostic Indicator for Embolism in Subjects With Atrial Fibrillation or Flutter</strong></td>
<td>Nobusada Funabashi, Chiba Univ Graduate Sch of Med, Chiba, Japan; Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan</td>
</tr>
<tr>
<td>11:10</td>
<td><strong>Excellent Negative Predictive Value of Pulmonary Vein CT Angiogram in Detecting Left Atrial Appendage Stasis and Thrombus in a Large Clinical Cohort</strong></td>
<td>Lin Wang, St Francis Hosp, Roslyn, NY; Jie J Cao, St Francis Hosp, Roslyn, NY</td>
</tr>
<tr>
<td>11:15</td>
<td><strong>N-Terminal Pro-B-Type Natriuretic Peptide and High-Sensitivity C-Reactive Protein and Infarct Size Measured With Delayed Enhancement Multidetector Computed Tomography</strong></td>
<td>Doo Sun Sim, Chonnam Natl Univ Hosp, Gwangju, Republic of Korea; Jong Chun Park, Chonnam Natl Univ Hosp, Gwangju, Republic of Korea</td>
</tr>
<tr>
<td>11:20</td>
<td><strong>Evaluation of Left Ventricular Geometry Changes in Patients with Tight Aortic Stenosis Using Multi-detector Computed Tomography</strong></td>
<td>Sang Soo Cheon, Asan Medical Ctr, Seoul, Republic of Korea; Jae-Kwan Song, Asan Medical Ctr, Seoul, Republic of Korea</td>
</tr>
<tr>
<td>11:25</td>
<td><strong>Left Atrial (LA) Wall Motion Velocity Distribution Evaluated by 5-Dimensional Computed Tomography (5D-CT) and Its Relationship With LA Wall Remodeling in Atrial Fibrillation</strong></td>
<td>Yuko Utanohara, Sakakibara heart institute, Tokyo, Japan; Hitonobu Tomoike, Sakakibara heart institute, Tokyo, Japan</td>
</tr>
<tr>
<td>11:30</td>
<td><strong>Multimodal in vivo Computed Tomography and Optical Imaging for Simultaneous Functional, Metabolic and Molecular Myocardial Analysis</strong></td>
<td>Jeroen Essers, ERASMUS MC, Rotterdam, Netherlands</td>
</tr>
<tr>
<td>11:35</td>
<td><strong>A Comparison Between Left Appendage Morphologies on Left Appendage Flow Velocity in Patients with Atrial Fibrillation</strong></td>
<td>Keiko Fukushima, Tokyo Womens Medical Univ, Tokyo, Japan; Nobuhisa Hagiwara, Tokyo Womens Medical Univ, Tokyo, Japan</td>
</tr>
<tr>
<td>11:40</td>
<td><strong>Successful Prediction of MACE by not Occurrence of Non Sustained Ventricular Tachycardia but Presence of Myocardial Fibrosis on CT in HCM Cases without Obstructed Coronary Arteries. a Long Follow-Up Study with a Median of 69 Months</strong></td>
<td>Nobusada Funabashi, Chiba Univ Graduate Sch of Med, Chiba, Japan; Yoshio Kobayashi, Chiba Univ Graduate Sch of Med, Chiba, Japan</td>
</tr>
<tr>
<td>11:45</td>
<td><strong>Stress Computed Tomography Myocardial Perfusion is Superior to Single-Photon Emission Computed Tomography for Detection of Myocardial Ischemia</strong></td>
<td>Yasushi Ueki, Shinshu Univ Hosp, Matsumoto, Japan</td>
</tr>
</tbody>
</table>
Every year in the United States more than 500,000 adults and children experience a cardiac arrest and less than 15% survive.

**BY IMPROVING CPR QUALITY WE CAN IMPROVE SURVIVAL**

The performance of high-quality CPR is the primary component in helping us all achieve this goal. Through better measurement, training, and systems-improvement of CPR quality, we can have a significant impact on survival from cardiac arrest.

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Speaker/Abstract Author Index

The following index lists all speakers, abstract presenters and moderators alphabetically by last name and provides the page number of that participant’s role.

Special note for abstract authors: Only the presenting author (appearing in italics) and the senior author (appearing in plain text) are listed with each abstract in the program pages. A complete list of abstract authors is included with each abstract in the online version of Circulation supplement (circ.ahajournals.org).
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