ReSS Program Agenda

Friday, Nov. 15

6:30–9:30 p.m.
Young Investigator Event
(RSVP required)

Saturday, Nov. 16

8–8:15 a.m.
Symposium Opening: Welcome and Introduction

8:15–9:30 a.m.
Plenary 1: Post Arrest Cardiac Interventions

Moderators
Karl Kern, Tucson, AZ
Lionel Lamhaut, Paris, France

8:15 Post-Arrest Coronary Angiography
Jorrit Lemkes, Amsterdam, Netherlands

8:30 ECMO for Post-Arrest Cardiogenic Shock
Matthew Ma, Taipei,

8:45 Implantable and Wearable Defibrillators After Arrest
Mark Link, Dallas, TX

9:00 Impella, Balloon Pump and Post-Arrest Support
Jason Bartos, Minneapolis, MN

9:15 Discussion
9:30-10:15 a.m.
2019 Awards for Lifetime Achievement in Cardiac Resuscitation Science and Trauma Resuscitation Science, Presentation of the Ian G. Jacobs Award for International Group Collaboration to Advance Resuscitation Science and The Resuscitation Science Champion Award

10:15 – 10:30 a.m.
Break and Exhibits

10:30-11:45 a.m.
Best of the Best Oral Abstract Presentations and Presentation of the Best Abstract Awards for Cardiac and Trauma Resuscitation Science

10:30
The Importance of Time to Cooling in Out-Of-Hospital Cardiac Arrest Patients to Influence Neurologically Intact Survival: A Sub-Analysis of the Princess Trial

Akil Awad, Ctr for Resuscitation Science, Stockholm, Sweden; Fabio Silvio Taccone, Erasme Univ Hosp, Brussels, Belgium; Martin Jonsson, Ctr for Resuscitation Science, Stockholm, Sweden; Sune Forsberg, Norrtälje Hosp, Norrtälje, Sweden; Jacob Hollenberg, Karolinska Instt Sodersjukhuse, Stockholm, Sweden; Mattias Ringh, Karolinska Instt, Stockholm, Sweden; Benjamin Abella, Univ of Pennsylvania, Philadelphia, PA; Lance B Becker, Northwell Health, Manhasset, NY; LeiF G Svensson, Per Nordberg, Ctr for Resuscitation Science, Stockholm, Sweden

10:45
Effect of Airway Insertion First-Pass Success Upon Patient Outcomes in the Pragmatic Airway Resuscitation Trial

Jason Lesnick, UT Health - Univ of Texas HSC at Houston, Houston, TX; Yefei Zhang, UT Health - Univ Texas Houston, Houston, TX; Justin X Moore, Washington Univ of St. Louis, St. Louis, MO; Mohamud R Daya, OHSU, Portland, OR; Jeffrey William Jarvis, Petoskey, MI; Graham Nichol, Univ of Washington, University of Washington, WA; Jestin N Carlson, Saint Vincent Hosp, Erie, PA; Cameron D Klug, Kaiser Sunnyside Medical Ctr, Clackamas, OR; Robert Schmicker, Kaiser Sunnyside Medical Ctr, Clackamas, OR, Seattle, WA; David Dennis, Tualatin Valley Fire Dept, Portland, OR; Ahamed H Idris, UT Southwestern Medical Ctr, Dallas, TX; George Sopko, NIH NHLBI, Bethesda, MD; Pratik Doshi, Eric Madden, Henry E Wang, UT Health - Univ Texas Houston, Houston, TX
11:00 High-Dose Intranasal Insulin During CPR Improves Neurological Outcomes in a Rat Model of Cardiac Arrest

Tulasi Jinka, Adam D Chalek, Joseph M Wider, Kathleen J Maheras, Amanda Qvigstad, Erin Gruley, Sarita Raghunayakula, Jinhui Liao, Xiaodan Ren, Rui Zhang, Thomas H Sanderson, Robert W Neumar, Dept of Emergency Med and Michigan Ctr for Integrative Res in Critical Care (MCIRCC), Univ of Michigan Medical Sch, Ann Arbor, MI

11:15 Diagnostic Accuracy of Coronary CT in Survivors of Out-Of-Hospital Circulatory Arrest: Can CT Serve as a Gatekeeper for Invasive Coronary Angiography?

Kelley R Branch, Univ of Washington, Seattle, WA; Ravi Hira, Seattle, WA; Robin M Brusen, Univ of Washington, Seattle, WA; Charles Maynard, Univ Washington, Seattle, WA; Medley Gatewood, Univ of Washington, Seattle, WA; Deborah L Fly, ACLS Consultants, Kirkland, WA; Bradley J Petek, ACLS Consultants, Kirkland, WA, Boston, MA; Peter Kudenchuk, Univ of Washington; Justin A Strote, Univ of Washington, Seattle, WA; Michelle Olsufka, Harborview Medical Ctr, Seattle, WA; Michael R Sayre, Univ of Washington, Seattle, WA; David Carlbom, Martin Gunn, Univ of Washington, Seattle, WA

11:30 Award Presentations

11:45-12:15 p.m.
Lunch Break

12:15 – 1:15 p.m.
Concurrent Session: Women in Resuscitation Networking Meeting
Concurrent Session: Joint Session: Japanese Circulation Society/AHA

1:15 – 2:45 p.m.
Poster Session 1
2:45 – 4 p.m.
Plenary 2: In-Hospital Cardiac Arrest

Moderators
Mary Ann Peberdy, Henrico, VA
Young-min Kim, Seoul, Korea

2:45  Prediction of In-Hospital Cardiac Arrest
Matthew Churpek, Chicago, IL

3:00  In-Hospital Resuscitation Quality
Paul Chan, Kansas City, MO

3:15  Team Training and Debriefing for In-Hospital Arrest
Elizabeth Hunt, Baltimore, MD

3:30  Registries and Outcomes From In-Hospital Cardiac Arrest
Monique Anderson Starks, Durham, NC

3:45  Discussion

4 – 4:15 p.m.
Break and Exhibits

4:15 – 5:30 p.m.
Late Breaking Resuscitation Science

7:45 p.m.
3CPR Council Networking Event
Sunday, Nov. 17

8:00 – 9:15 a.m.
Oral Abstract Session: The Potential for ECMO and E-CPR to Change the Paradigm

8:00 Early Neuroprognostication After Refractory VF/VT Cardiac Arrest Requiring ECPR

Jason A Bartos, Lindsay Nutting, Claire Carlson, Ganesh Raveendran, Univ of Minnesota, Minneapolis, MN; Tom P Aufderheide, Medical Coll Wisconsin, Milwaukee, WI; Demetris Yannopoulos, Univ of Minnesota, Minneapolis, MN

8:15 Early Magnetic Resonance Imaging to Quantify Ischemic Brain Insult Early Following Cardiac Arrest in a Swine Model

Miriam Peckham, Adam DeHavenon, Matthew David Alexander, Jeffrey Anderson, Scott McNally, Stephen H McKellar, Joseph Tonna, Ka-ho Wong, Jacob Steenblik, Scott T Youngquist, Univ of Utah, Salt Lake City, UT

8:30 Outcomes After Pediatric Extracorporeal Cardiopulmonary Resuscitation: Do Quantitative CPR Metrics Matter?

Tia Tortoriello Raymond, Medical City Children's Hosp, Dallas, TX; Ivie Esangbedo, Priscilla Yu, Children's Health UTSW, Dallas, TX; Todd Sweberg, Cohen Children's Hosp, New York, NY; Javier J Lasa, Texas Children's Hosp, Houston, TX; Dana Erika Niles, Xuemei Zhang, Heather Griffis, Richard Hanna, Vinay M Nadkarni, Children's Hosp of Philadelphia, Philadelphia, PA

8:45 Adenosine Receptor Activation During Extracorporeal Cardiopulmonary Resuscitation Improves Survival After Cardiac Arrest in Swine

William Z Chancellor, Univ of Virginia, Charlottesville, VA; Dustin Money, Jared P Beller, Matthew R Byler, Aimee Zhang, Jennifer R Charlton, Daniel E Levin, Univ of Virginia, Charlottesville, VA; Nadia Lunardi, Zequan Yang, Univ of Virginia, Charlottesville, VA; Victor Laubach, Univ Virginia Health Systems, Charlottesville, VA; James Mehaffey, Univ of Virginia, Charlottesville, VA; Irving Kron, U of Arizona Tucson, Tucson, AZ; Mark E Roeser, Univ of Virginia, Charlottesville, VA

9:00 Echocardiographic Evaluation of Left Ventricular Recovery After Refractory Out-Of-Hospital Cardiac Arrest


9:15 – 10:30 a.m.
Plenary 3: Intra-Arrest Monitoring and Assessment

Moderators
Sam Parnia, New York, NY
Sheldon Cheskes, Toronto, ON

9:15  Intra-Arrest Physiologic Monitoring
Robert Sutton, Philadelphia, PA

9:30  The Role of Transthoracic and Transesophageal Ultrasound
Romolo Gaspari, Worcester, MA

9:45  Capnography During CPR
Claudio Sandroni, Rome, Italy

10:00  Near-Infrared Monitoring During CPR
Cornelia Genbrugge, Genk, Belgium

10:15  Discussion

10:30 – 10:45 a.m.
Break and Exhibits

10:45 – 11:45 a.m.
Oral Abstract Concurrent Session A: Epidemiologic and Outcomes-Based Resuscitation Science

10:45  Public Access Defibrillators: Sex-Based Inequities in Access and Application

Brian E Grunau, St Paul’s Hosp, Vancouver, BC, Canada; Emad Awad, Univ of British Columbia, Vancouver, BC, Canada; Takahisa Kawano, Univ of Fukui, Fukui, Japan; Frank Scheuermeyer, Univ of Fukui, Fukui, Japan, Vancouver, BC, Canada; Robert Stenstrom, Providence Health care, Vancouver, BC, Canada; Steven Brooks, Queen’s Univ, Kingston, ON, Canada; Sean Van Diepen, Univ of Alberta, Edmonton, AB, Canada; Karin H Humphries, Providence Healthcare Res Inst, Vancouver, BC,
11:00 Dispatched Citizen Responders Perform Three Out of Four of all Bystander Defibrillated Out-Of-Hospital Cardiac Arrests in Residential Areas

Linn Andelius, Carolina Malta Hansen, Freddy Lippert, Emergency Medical Services Copenhagen, Ballerup, Denmark; Christian Torp-pedersen, Dept of Cardiology, North Zealand Hosp, Hilleroed, Denmark; Lena Karlsson, Gunnar H Gislason, Dept of Cardiology, Copenhagen Univ Hosp Herlev and Gentofte, Hellerup, Denmark; Fredrik Folke, Emergency Medical Services Copenhagen, Ballrup, Denmark

11:15 Cognitive, Psychological, and Functional Limitations After Sudden Cardiac Arrest Among a Racially and Ethnically Diverse United States Population

Sachin Agarwal, Evie Sobczak, Columbia Univ Medical Ctr, New York, NY; Alex Presciutti, Univ of Colorado Denver, Denver, CO; David Roh, Soojin Park, Jan Claassen, Mitchell S Elkind, Donald Edmondson, Columbia Univ Medical Ctr, New York, NY

11:30 Trends in Median CPR Duration Over Time in Patients with and Without Return of Spontaneous Circulation

Katherine M Berg, Michael Donnino, Ari Moskowitz, Mathias J Holmberg, Beth Israel Deaconess Medical Ctr, Boston, MA; Sebastian Wiberg, Rigshospitalet Copenhagen Univ Hosp, Copenhagen, Denmark; Anne V Grossestreuer, Beth Israel Deaconess Medical Ctr, Boston, MA

10:45 – 11:45 a.m.
Oral Abstract Concurrent Session B: Laboratory and Translational Studies: Arrest and IR Injury

10:45 Ultra-Fast Cooling Induced by Total Liquid Ventilation Provides Neuroprotection Through a Delay in the Acute Systemic Inflammatory Response After Cardiac Arrest in Rabbits

Emilie Boissady, EnvA, Maisons Alfort, France; Matthias Kohlhauer, EnvA, Inserm U955, Maisons-Alfort, France; Fanny Lidouren, INSERM, U955, Ecole Natle Vétérinaire d'Alfort, Maisons-alfort, France; Bijan Ghaleh,
Peripheral Intravenous Analysis Detects Return of Spontaneous Circulation Without Interruption of Chest Compressions in a Rat Model of Cardiopulmonary Resuscitation

Claudius Balzer, Vanderbilt Univ Medical Ctr, Nashville, TN; Franz J Baudenbacher, Vanderbilt Univ, Nashville, TN; Antonio Hernandez, Michele M Salzman, Vanderbilt Univ Medical Ctr, Nashville, TN; Matthias L Riess, Anesthesiology, TVHS VA Medical Ctr, Nashville, TN; Susan S Eagle, Vanderbilt Univ, Nashville, TN

Effects of the Selective NLRP3-Inflammasome Inhibitor MCC950 on Post-Resuscitation Myocardial and Cerebral Function in a Rat Model of Cardiopulmonary Resuscitation

Guanghui Zheng, Jing Xu, Fenglian He, Weill Inst, Richmond, VA; Juntao Hu, Virginia Commonwealth Univ, Richmond, VA; Weiwei Ge, Virginia Commonwealth Univ, Richmond, VA, Richmond, VA; Xianfei Ji, Virginia Commonwealth Univ, Richmond, VA, Richmond, VA, Jinan; Jennifer Bradley, Virginia Commonwealth Univ, Richmond, VA; Mary Ann A Peberdy, Virginia Commonwealth Univ, Henrico, VA; Joseph P Ornato, Virginia Commonwealth Univ, Richmond, VA; Longyuan Jiang, Tong Wang, Sun Yat-Sen Univ, Guangzhou, China; Stefano Toldo, Virginia Commonwealth Univ, Glen Allen, VA; Wanchun Tang, Virginia Commonwealth Univ, Richmond, VA

Poloxamer 188 Protects Mouse Brain Microvascular Endothelial Cells in an in-vitro Traumatic Brain Injury Model

Felicia P. Lotze, Univsmedizin Greifswald, Greifswald, Germany; Michele M. Salzman, Vanderbilt Univ Medical Ctr, Nashville, TN; Johannes A. Pille, Univsmedizin Greifswald, Greifswald, Germany; Claudius Balzer, Vanderbilt Univ Medical Ctr, Nashville, TN; Josephine E. Hees, Univsmedizin Greifswald, Greifswald, Germany; William J. Cleveland, Vanderbilt Univ Medical Ctr, Nashville, TN; Matthias L. Riess, TVHS VA Medical Ctr, Nashville, TN
12:15 – 1:15 p.m.
Year In Review

Moderators:
Ken Nagao, Tokyo, Japan
Graham Nichol, Seattle, WA

11:45  Year In Review: Cardiac Arrest
Robert Neumar, Ann Arbor, MI

12:15  Special trial presentation(s)
TBD

1:15 – 2:30 p.m.
Plenary 4: Neurologic Monitoring and Prognostication

Moderators
David Greer, Boston, MA
John Bro-Jeppesen, Copenhagen, Netherlands

1:15  EEG for Post-Arrest Assessment
Jon Rittenberger, Pittsburgh, PA

1:30  Quantitative Pupillometry After Cardiac Arrest
Jonathan Elmer, Pittsburgh, PA

1:45  Brain Physiologic Data and Outcomes From Arrest
Soojin Park, New York, NY

2:00  Serologic Markers of Brain Injury
Katherine Berg, Boston, MA

2:15  Discussion

2:30 – 2:45 p.m.
Break and Exhibits
2:45 – 4 p.m.
Oral Abstract Concurrent Session A: Measuring Ischemia Reperfusion Injury and Prognostication

2:45 The Usefulness of Neuron-Specific Enolase in Cerebrospinal Fluid to Predict Neurological Prognosis in Cardiac Arrest Survivors Who Underwent Target Temperature Management: A Prospective Observational Study

Jung Soo Park, Chungnam Natl Univ, Daejeon, Korea, Republic of

3:00 Association Between Serum Lactate During Cardiopulmonary Resuscitation and Survival in Adult Out-Of-Hospital Cardiac Arrest: A Multicenter Cohort Study (The Critical Study in Osaka, Japan)

Norihiro Nishioka, Daisuke Kobayashi, Kyoto Univ, Kyoto, Japan; Junichi Izawa, Univ of Pittsburgh, Pittsburgh, PA; Takeyuki Kiguchi, Kyoto Univ, Kyoto, Japan; Tetsuhisa Kitamura, Osaka Univ, Suita, Japan; Takashi Kawamura, Taku Iwami, Kyoto Univ, Kyoto, Japan

3:15 Prognostic Role of NT-ProBNP in Out-Of-Hospital Cardiac Arrest

David E Hamilton, Bradley J Petek, Lindsay G Panah, Sean R Mendez, Philip E Dormish, Michael G Silverman, Massachusetts General Hosp, Boston, MA

3:30 Prevalence and Pattern of Myocardial Injury in Patients With Cardiac vs Non-Cardiac Cause of Out-Of-Hospital Cardiac Arrest: A One-Year Multicenter Clinical Experience With the High-Sensitivity Troponin T Assay

David E Hamilton, Bradley J Petek, Lindsay G Panah, Sean R Mendez, Philip E Dormish, Michael G Silverman, Massachusetts General Hosp, Boston, MA

3:45 Machine Learning Models for Outcome Prediction of Out-Of-Hospital Cardiac Arrest of Presumed Cardiac Cause Using the All-Japan Utstein Registry

Tomohisa Seki, The Univ of Tokyo Hosp, Tokyo, Japan; Tomoyoshi Tamura, Keio Univ Sch of Med, Tokyo, Japan; Kazuhiko Ohe, The Univ of Tokyo Hosp, Tokyo, Japan; Masaru Suzuki, Tokyo Dental Coll Ichikawa General Hosp, Ichikawa, Japan
2:45 – 4 PM
Oral Abstract Concurrent Session B: Interventions and Trials: Improving Arrest Outcomes

2:45 Feasibility and Safety of Pre-Hospital Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) in Non-Traumatic Out-Of-Hospital Cardiac Arrest

Jostein R Brede, Thomas Lafrenz, Pål Klepstad, Eivinn A Skjærseth, Trond Nordseth, Edmund Søvik, Andreas J Kruger, St. Olavs Hosp, Trondheim, Norway

3:00 Comparison of Amiodarone versus Lidocaine for Treatment of In-Hospital Cardiac Arrest

Deborah S Wagner, Coll of Pharmacy, Depts of Anesthesiology and Pharmacy Services, Univ of Michigan Medical Sch, Ann Arbor, MI; Humaira Nawer, CS Mott Children’s Hosp & Von Voitlander Women’s Hosp, Univ of Michigan, Ann Arbor, MI; Steven L Kronick, James A Cranford, Dept of Emergency Med, Michigan Ctr for Integrative Res in Critical Care, Univ of Michigan Medical Sch, Ann Arbor, MI; Steven M Bradley, Minneapolis Heart Inst, Minneapolis, MN; Robert W Neumar, Dept of Emergency Med, Michigan Ctr for Integrative Res in Critical Care, Univ of Michigan Medical Sch, Ann Arbor, MI

3:15 Targeted Temperature Management at 33 versus 36 Degrees: Outcomes After Real-World Implementation

Nicholas J Johnson, Univ of Washington, Seattle, WA; Kyle R Danielson, Airlift Northwest, UW Med, Seattle, WA; Catherine R Counts, Univ of Washington, Seattle, WA; Katelyn Ruark, Univ of North Dakota Sch of Med, Grand Forks, ND; Sue Scruggs, Seattle Fire Dept, Seattle, WA; Catherine L Hough, Univ of Washington, Seattle, WA; Charles Maynard, Univ Washington, Seattle, WA; Michael Sayre, David Carlbom, Univ of Washington, Seattle, WA

3:30 Low versus High Blood Pressure Targets After Out-Of-Hospital Cardiac Arrest

Pekka Jakkula, HUS Helsinki Univ Hosp, Helsinki, Finland; Koen Ameloot, Cathy De Deyne, Jo Dens, Ziekenhuis Oost-Limburg, Genk, Belgium; Matti Reinikainen, Kuopio Univ Hosp, Kuopio, Finland; Ville Pettilä, Johanna Hästbacka, Markus Skrifvars, HUS Helsinki Univ Hosp, Helsinki, Finland

3:45 Chest Compression Fraction Increased When Police Used AED That Analyses Heart Rhythm During CPR
Corina de Graaf, Stefanie G Beesems, Amsterdam UMC, location AMC, Amsterdam, Netherlands; Ronald E Stickney, Fred W Chapman, Stryker Emergency Care, Redmond, WA; Rudolph W Koster, Amsterdam UMC, location AMC, Amsterdam, Netherlands

4:00 – 5:30 p.m.
Poster Session 2 and Reception