



# Resuscitation Science Symposium 2022

## ReSS Preliminary Program Agenda

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Friday, November 4

3:00 PM

Registration Opens

*Regency Ballroom Foyer, West Tower, Ballroom Level*

6:30–9:30 PM

Young Investigator Event

Saturday, November 5

7:00 AM

Registration / Exhibits / Continental Breakfast

*Regency Ballroom Foyer, West Tower, Ballroom Level*

8:00–8:30 AM

Symposium Opening: Welcome and Introduction

*Crystal Ballroom BC, West Tower, Lobby Level*

8:30–9:45 AM

Plenary Session 1: Resuscitation Ethics: Challenges and Controversies

*Crystal Ballroom BC, West Tower, Lobby Level*

Moderators

TBD

8:30 The Bystander Experience  
Katie N. Dainty, PhD, MSc, University of Toronto

8:45 Challenges in Consent in Acute Care Research  
Jonathan D. Casey, MD, MSCI, Vanderbilt University Medical Center

9:00 From Resuscitation to Organ Donation: How Do We Approach?  
Ashish S. Shah, MD, Vanderbilt University

9:15 Equity with High-resource Interventions  
Laurie J. Morrison, MD, MSc, FRCPC, University of Toronto

9:30 Discussion

9:45-10:30 AM

Presentation of the 2022 Awards for Lifetime Achievement in Cardiac Resuscitation Science, the Ian G. Jacobs Award for International Group Collaboration to Advance Resuscitation Science, and the Resuscitation Science Champion Award  
*Crystal Ballroom BC, West Tower, Lobby Level*

Moderators

TBD

9:45 Lifetime Achievement Award in Cardiac Resuscitation Science Recipient  
TBD

10:00 Ian G Jacobs Award for International Group Collaboration to Advance Resuscitation Science  
TBD

10:15 ReSS Champion Award  
TBD

10:30 – 11:00 AM

Break / Networking / Exhibits

*Regency Ballroom Foyer, West Tower, Ballroom Level*

11:00-12:00 PM

Best of the Best Oral Abstract Presentations

*Crystal Ballroom BC, West Tower, Lobby Level*

Moderators

TBD

11:00	Diagnostic Yield, Safety, And Outcomes with Head-to-Pelvis Sudden Death Computed Tomographic Imaging After Idiopathic Out-of-Hospital Cardiac Arrest: The CT First Cohort Study  Kelley R Branch, UNIVERSITY OF WASHINGTON, Seattle, WA; Medley Gatewood, North Bend, WA; Peter Kudenchuk, Univ of Washington; Charles Maynard, Univ of Washington, Seattle, WA; Michael R Sayre, UNIVERSITY OF WASHINGTON, Seattle, WA; David Carlbom, UNIVERSITY OF WASHINGTON, Seattle, WA, Seattle, WA; Rachael Edwards, UNIVERSITY OF WASHINGTON, Seattle, WA, Seattle, WA, Normandy Park, WA; Aris Karatasakis, Catherine Counts, Univ of Washington, Seattle, WA; Martin Gunn	01
11:15	Intravenous Oxygen Microparticles as Resuscitative Fluid Improves Outcomes in A Swine Model of Asphyxial Cardiac Arrest  Julia Garcia Mancebo, Kristen Sack, Boston Children's Hosp, Boston, MA; Jay Hartford, Saffron Dominguez, Arthur Nedder, Michelle Barcarcel-Monzon, John Kheir, Boston Children's Hosp, Boston, MA; Yifeng Peng, Boston, MA	02
11:30	Early Post-Cardiac Arrest Blood Pressure Thresholds Associated with Outcomes: A Secondary Analysis Of The ICU-Resuscitation Trial  Monique M Gardner, Children's Hosp of Philadelphia, Philadelphia, PA; David Hehir, Wilmington, DE; Ron Reeder, Wilmington, DE, Salt Lake City,	03

	UT; Robert A Berg, Children's Hospital of Philadelphia, Philadelphia, PA; Ericka L Fink, Children's Hospital Pittsburgh, Pittsburgh, PA; Stuart Friess, Washington Univ St Louis, Saint Louis, MO; Kathryn Graham, Washington Univ St Louis, Saint Louis, MO, Philadelphia, PA; Monica L Harding, Univ of Utah, Salt Lake City, UT; Ryan W Morgan, Children's Hosp of Philadelphia, Philadelphia, PA; Vinay M Nadkarni, 1957, Philadelphia, PA; Heather A Wolfe, Children's Hospital of Philadelphia, Philadelphia, PA; Robert M Sutton, Children's Hosp of Philadelphia, Philadelphia, PA; Alexis A Topjian, CHILDRENS HOSPITAL PHILADELPHIA, Wynnewood, PA	
11:45	Chest Compressions Superimposed with Sustained Inflations Compared to Continuous Chest Compressions with Asynchronized Ventilation During Cardiopulmonary Resuscitation In Asphyxiated Pediatric Piglets - A Randomized Controlled Animal Study  Chelsea Morin, Univ of Alberta, Edmonton, AB, Canada; Po-yin Cheung, Royal Alexandra Hospital, Edmonton, AB, Canada; Tze Fun Lee, Megan O'Reilly, Univ of Alberta, Edmonton, AB, Canada; Georg Schmolzer, Univeristy of Alberta, Edmonton, AB, Canada	04

12:00 – 12:45 PM

Lunch Break on your own

12:45 – 1:45 PM

Concurrent Session A

Women in Resuscitation Networking Meeting

*Crystal Ballroom BC, West Tower, Lobby Level*

12:45 – 1:45 PM

Concurrent Session B

Joint Session: Japanese Circulation Society / American Heart Association

*Crystal Ballroom A, West Tower, Lobby Level*

1:45 – 3:15 PM

Poster Session 1

*Regency Ballroom, West Tower, Ballroom Level*

3:15 – 4:30 PM

Plenary Session 2: The Future of Defibrillation

*Crystal Ballroom BC, West Tower, Lobby Level*

Moderators

TBD

3:15 Lay Defibrillation in the Home: Can Innovation and/or Technology Deliver  
Ruud Koster, MD, PhD, Amsterdam University Medical Center

3:30 Multi-Modal Approach to Defibrillation  
Marcus Ong, MBBS, MPH, Singapore General Hospital

- 3:45 Drone Delivery and AEDS  
Sofia Schierbeck, MD, Karolinska Institute
- 4:00 Disparities in AED Placement, Access, and Training  
Ryan Huebinger, MD, UT Health of Houston
- 4:15 Discussion

4:30 – 5:00 PM

Break / Networking / Exhibits

*Regency Ballroom Foyer, West Tower, Ballroom Level*

5:00 – 6:15 PM

Plenary Session 3: Neuroprognostication

*Crystal Ballroom BC, West Tower, Lobby Level*

Moderators

TBD

- 5:00 Challenging the 72-hour Window  
Alexandra Stillman, MD, Beth Israel Deaconess Medical Center
- 5:15 Neuroprognostication in eCPR  
Jason Bartos, MD, PhD, University of Minnesota
- 5:30 Promise of Better Prediction Models? AI and Future Approaches  
Ziad Obermeyer, MD, MPhil, University of California Berkeley
- 5:45 Nuances in Pediatric Neuroprognostication  
Ericka Fink, MD, MS, UPMC Children's Hospital of Pittsburgh
- 6:00 Discussion

7:00 PM

3CPR Council Networking Event

*(Ticketed event)*

*Plaza Ballroom, East Tower, Lobby Level*

## Sunday, November 6

7:00 AM

Registration / Exhibits / Continental Breakfast

*Regency Ballroom Foyer, West Tower, Ballroom Level*

7:30 – 8:15 AM

Implementation Updates in Post-arrest Care

Sponsored by Penn TTM Academy

8:15 – 9:30 AM

Optimizing Intra-arrest Outcomes Oral Abstract Session and  
Presentation of the Max Harry Weil Award  
*Crystal Ballroom BC, West Tower, Lobby Level*

Moderators  
TBD

Oral Abstract Presentations

8:15	Hospital Variation in Epinephrine Administration Prior To Defibrillation for Cardiac Arrest Due to Shockable Rhythm  Colten Stewart, Univ of Iowa Hosp and Clinics, Iowa City, IA; Paul S Chan, Mid America Heart Institute, Kansas City, MO; Kevin Kennedy, St. Luke's Hosp, Kansas City, MO; Morgan Swanson, St. Luke's Hosp, Kansas City, MO, Des Moines, IA; Saket Girotra, Univ of Iowa, Iowa City, IA	05
8:30	Feasibility Of Accelerated Code Team Activation with Code Button Triggered Smartphone Notifications  Cody Couperus, Zach Dezman, Rebekah Friedrich, Samuel Gurmu, Dan Lemkin, Nicholas Morris, Univ of Maryland Medical Ctr, Baltimore, MD	06
8:45	Percutaneous Ventricular Assist Devices in Refractory Cardiac Arrest: The Role of Chest Compressions  Adam L Gottula, The Univ of Michigan, Ann Arbor, MI; Brendan McCracken, Takahiro Nakashima, Univ of Michigan, Ann Arbor, MI; Nicholas Greer, Traci Cramer, The Univ of Michigan, Ann Arbor, MI; Nadia R Sutton, UNIVERSITY MICHIGAN, Ann Arbor, MI; Kevin R Ward, UNIVERSITY OF MICHIGAN, Ann Arbor, MI; Robert H Neumar, The Univ of Michigan, Ann Arbor, MI; Cindy H Hsu, Univ of Michigan, Ann Arbor, MI; Mohamad H Tiba, The Univ of Michigan, Ann Arbor, MI	07
9:00	Computed Tomography Perfusion of Cerebral Blood Flow During Open Cardiac Massage for Hypovolemic And Normovolemic Cardiac Arrest In Swine  Rebecca N Treffalls, R. Adams Cowley Shock Trauma Ctr, Baltimore, MD; David P Stonko, Johns Hopkins Hosp, Baltimore, MD; Neerav Patel, R. Adams Cowley Shock Trauma Ctr, Baltimore, MD; Joseph Edwards, Hossam Abdou, R. Adams Cowley Shock Trauma Ctr, Baltimore, MD; Noha Elansary, Patrick Walker, R. Adams Cowley Shock Trauma Ctr, Baltimore, MD; Jonathan J Morrison, R. Adams Cowley Shock Trauma Ctr, Baltimore, MD	08

Max Harry Weil Award Presentation

9:15 Monitoring the Tissue Perfusion During Hemorrhagic Shock and Resuscitation: Tissue-to-arterial Carbon Dioxide Partial Pressure Gradient in a Pig Model  
Yusuke Endo, Feinstein Institutes for Medical Research, Port Washington, NY

9:30 – 10:45 AM

Plenary 4: Bench to Bedside: Metabolism and Arrest

*Crystal Ballroom BC, West Tower, Lobby Level*

Moderators

TBD

9:30 Nitric Oxide and Sulfide Metabolism in Cardiac Arrest

Cameron Dezfulian, MD, Texas Children's Hospital

9:45 Role of Calcium in Cardiac Arrest

Mikael F. Vallentin, MD, Prehospital Emergency Medical Services, Central Denmark Region

10:00 Beta Blockers During or After Arrest

TBD

10:15 New Insights into Mitochondrial Metabolism

Thomas Sanderson, PhD, University of Michigan

10:30 Discussion

10:45 – 11:15 AM

Break / Networking / Exhibits

*Regency Ballroom Foyer, West Tower*

11:15 – 12:15 PM

Concurrent Session A: Disparities

*Crystal Ballroom BC, West Tower, Lobby Level*

Moderators

TBD

11:15	Readmission Risk and The Role of Racial Residential Segregation Following Out-of-hospital Cardiac Arrest Among Medicare Beneficiaries  Ethan Abbott, David Buckler, Icahn Sch of Med at Mount Sinai, New York, NY; Jesse Hsu, Benjamin Abella, Univ of Pennsylvania, Philadelphia, PA; Brendan G Carr, alexis zebrowski, Icahn Sch of Med at Mount Sinai, New York, NY	09
11:30	Association Of Race and Medical Emergency Team Evaluations Prior To In Hospital Cardiac Arrest  Cody-Aaron Gathers, Ryan W Morgan, Children's Hosp of Philadelphia, Philadelphia, PA; Jessica Alvey, Ron Reeder, Univ of Utah, Salt Lake City, UT; Zachary D Goldberger, Univ of Wisconsin-Madison, Madison, WI; Jessica Fowler, Maryam Naim, Amanda O'Halloran, Children's Hosp of Philadelphia, Philadelphia, PA; Raina Merchant, Univ of Pennsylvania, Philadelphia, PA; Martha Kienzle, Vinay M Nadkarni, Children's Hosp of Philadelphia, Philadelphia, PA; Robert A Berg, CHILDRENS HOSPITAL OF PHILADELPHIA, Philadelphia, PA; Robert M Sutton, Children's Hosp of Philadelphia, Philadelphia, PA	10

11:45	<p>Community Interventions to Improve Out-of-hospital Cardiac Arrest Survival: Targeting Public Housing Could Be a Solution</p> <p>Anne Juul Joergensen, Res department, Ballerup, Denmark; Julie S Kjoelbye, Mads Christian Tofte Gregers, Louise K Jakobsen, Copenhagen EMS, Ballerup; Astrid Rolin Kragh, EMS Copenhagen, 2750, Denmark; Florian Ettl, Medical Univ of Vienna, Vienna, Austria; Konstantin Krychtiuk, Medical Univ of Vienna, Vienna; Patrick Sulzgruber, Medical Univ of Vienna, Vienna, Austria; Mario Krammel, EMS Vienna, Vienna, Austria; Christian Torp-Pedersen, Gentofte Univ Hosp, Copenhagen; Annette Kjær Ersbøll, Res department, Ballerup, Denmark; Fredrik Folke, Carolina Malta Hansen, Copenhagen EMS, Ballerup</p>	11
12:00	<p>Identifying Emergency Medical Service Agencies in Black and Hispanic Communities with High Cardiac Arrest Survival Rates</p> <p>Anezi Uzendu, Mid America Heart Inst, Kansas City, MO; Philip Jones, SAINT LUKES MID AMERICA HEART INST, Kansas City, MO; John Spertus, Saint Luke's Mid America Heart Inst, Kansas City, MO; Paul S Chan, MID AMERICA HEART INSTITUTE, Kansas City, MO</p>	12

11:15 – 12:15 PM

Concurrent Session B: Basic Science

*Crystal Ballroom A, West Tower, Lobby Level*

Moderators

TBD

11:15	<p>Myocardial Metabolic and Electrolyte Derangements Linked To PEA Rearrest</p> <p>Laken Irish, The MetroHealth System, Case Western Reserve Univ, Cleveland, OH; Bisan Abboud, Northeast Ohio Medical Univ, Rootstown, OH; Lydia Akino, Soufian Almahameed, Ohad Ziv, The MetroHealth System, Case Western Reserve Univ, Cleveland, OH; Steven Poelzing, Virginia Tech, Roanoke, VA; Joseph S Piktel, Kenneth R Laurita, Lance D Wilson, The MetroHealth System, Case Western Reserve Univ, Cleveland, OH</p>	13
11:30	<p>A Novel Pharmacologic Peptide Improved Survival and Neurologic Outcomes After Swine PEA</p> <p>Matt T Oberdier, Johns Hopkins Univ, Baltimore, MD; Jing Li, UNIVERSITY ILLINOIS AT CHICAGO, Chicago, IL; Daniel Ambinder, JOHNS HOPKINS, Baltimore, MD; Masahito Suzuki, Johns Hopkins Univ, Baltimore, MD; Ethan Tumarkin, Johns Hopkins Hosp, Odenton, MD; Sarah Fink, Johns Hopkins Univ, Baltimore, MD; Xiangdong Zhu, Univ of Illinois at Chicago, Chicago, IL; CODY JUSTICE, Univ of Illinois at Chicago, Chicago, IL, Chicago, IL; Terry L Vanden Hoek, UNIVERSITY ILLINOIS CHICAGO, Chicago, IL; Henry R Halperin, JOHNS HOPKINS HOSPITAL HALSTED 571, Baltimore, MD</p>	14
11:45	<p>Hypoxia As Therapy for Mitochondrial Injury Following Cardiac Arrest</p> <p>Lin Piao, UNIVERSITY CHICAGO, Chicago, IL; Yong-hu Fang, UNIVERSITY OF CHICAGO, Chicago, IL; Rongxue R Wu, Univeristy of Chicago, Chicago, IL; Stephen L Archer, Queen's Univ, Kingston, ON, Canada; Willard W Sharp, UNIVERSITY OF CHICAGO, Chicago, IL</p>	15

12:00	<p>Cardiac Mitochondrial Transcription Factor A Overexpression Protects Against Stunning And Improves Mortality In A Mouse Model Of Cardiac Arrest Protects Against Stunning And Improves Mortality In A Mouse Model Of Cardiac Arrest</p> <p>Cody A Rutledge, Sam Duvall, Univ of Pittsburgh, Pittsburgh, PA; Kevin Redding, Pittsburgh, PA; Cameron Dezfulian, Texas Children's Hosp, Houston, TX; Brett A Kaufman, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA</p>	16
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12:15 – 1:00 PM  
Lunch Break

1:00 – 2:00 PM  
Plenary Session 5: Year In Review  
*Crystal Ballroom BC, West Tower, Lobby Level*

Moderators:  
TBD

1:00 Year in Review: Adults  
Gavin Perkins, MB, MD, University of Warwick

1:30 Year in Review: Pediatrics  
Melissa Parker, MD, MSc, McMaster University

2:00 – 3:15 PM  
Plenary 6: Cutting Edge Trials and Late Breaking Resuscitation Science  
*Crystal Ballroom BC, West Tower, Lobby Level*

Moderators  
TBD

3:15 – 4:45 PM  
Poster Session 2 and Reception  
*Regency Ballroom, West Tower, Ballroom Level*

4:45 PM  
Symposium Adjourns