SCA 38TH ANNUAL MEETING & WORKSHOPS
Clinical Decision Making in Cardiovascular Anesthesiology and Perioperative Medicine
April 2–6, 2016
Manchester Grand Hyatt
San Diego
San Diego, CA

WiFi Network Name: SCA2016
Password: SANDIEGO
www.scahq.org/2016AnnualMeeting
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General Information

Target Audience
The target audience for this educational activity includes physician anesthesiologists involved in the care of patients undergoing cardiovascular and thoracic surgery, critical care physicians, general anesthesiologists, nurses, perfusion professionals, and other allied health personnel. All staff involved in the care of cardiovascular and thoracic surgery patients will benefit from attending this meeting.

Statement of Need
Why You Should Attend
Cardiovascular and thoracic anesthesiology is a rapidly developing specialty that continues to evolve in line with the rest of the medical cardiovascular disciplines. Advances in the field include new percutaneous valve interventions, increased use of minimally invasive surgical techniques, novel heart failure devices and electrophysiology procedures with expanded indications, and an increasingly elderly surgical patient population. The 38th Society of Cardiovascular Anesthesiology (SCA) Annual Meeting & Workshops will include didactic lectures, pro-con debates, rapid-fire discussion sessions, problem-based learning discussions, and workshops organized by acknowledged experts centered on patient-oriented educational programs. These educational offerings will equip learners with the requisite skills and concepts necessary for competent and safe care of cardiovascular and thoracic surgical patients. The structure and format of the program ensures that learners are provided with state-of-the-art materials in a variety of teaching and learning environments, inclusive of the various adult learning styles.

What You Can Expect to Gain
The 38th SCA Annual Meeting & Workshops will provide attendees with information about current perioperative management of adult and pediatric patients undergoing cardiac and thoracic surgical procedures. In addition, this meeting will provide multiple workshops designed to give the learner more practical experience in ultrasound imaging, percutaneous valve surgery, transthoracic echocardiography, and extracorporeal support. The presentations in these sessions are designed to enhance the clinical knowledge, competence, and performance of those who attend and will feature content appropriate for professionals at several experience levels.

By participating in this meeting, attendees can expect to be able to
• describe the latest advances in perioperative cardiovascular medicine
• critique current trends in clinical and bench research pertinent to cardiovascular medicine
• evaluate new techniques and diagnostic and interventional procedures in cardiothoracic and vascular anesthesiology.

More specifically, this meeting will provide attendees with an opportunity to
• review more than 400 poster presentations to stay up to date with the latest developments in clinical care and future research direction
• ask questions, engage in debate regarding controversies, and pose questions to speakers
• interact with experts in all areas of adult and pediatric cardiovascular anesthesiology
• discuss issues related to quality of care, including database participation, as mechanisms to assist with quality improvement work within their own institutions
• debate the best way to translate scientific discoveries into clinical practice
• connect with colleagues in different practice settings at numerous networking events, including exhibitor and poster presentation sessions.

CME Accreditation
The Society of Cardiovascular Anesthesiologists (SCA) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Designation
The Society of Cardiovascular Anesthesiologists designates this live activity for a maximum of 34.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

WIRELESS CONNECTION
SSID (Network Name): SCA2016
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38th Annual Meeting

The registration fee includes continental breakfasts, coffee breaks, (1) lunch, (1) reception, and the electronic syllabus. The annual meeting is certified for a maximum of 34.00 credit hours.

Workshops

The registration fee includes workshops, continental breakfasts (morning workshops), coffee breaks, and the electronic syllabus. Each of the nine workshops is certified for a maximum of 3 credit hours.

Problem-Based Learning Discussions [PBLDs]

The registration fee includes a breakfast buffet and the electronic syllabus. Each of the sessions is certified for a maximum of 1.25 credit hours.

Disclaimer

The material presented in this activity represents the opinion of the speakers and not necessarily the views of the Society of Cardiovascular Anesthesiologists.

Claim Your CME

To claim CME credit, visit scahq.org/2016annualmeeting to complete your 2016 SCA Annual Meeting & Workshops evaluations. You must complete the evaluations to claim your CME credit.

Successful completion requires that participants register for the meeting, attend, participate, and complete an online evaluation. Participants will receive their CME certificates immediately after submitting the evaluation.

Syllabi and Learning Objectives

Session syllabi and learning objectives are provided to attendees through electronic media only. Visit www.scahq.org/2016annualmeeting to access the meeting handouts.

Committee Meeting Schedule

The schedule of SCA Committee Meetings can be found in your mobile app, at the registration desk, and on the hotel’s electronic signage.

Registration Desk

The registration desk will be in Grand Hall on the lobby level of the Manchester Grand Hyatt during the following hours:

- Thursday, March 31: 5–7 pm
- Friday, April 1: 7 am–5:30 pm
- Saturday, April 2: 7 am–5:30 pm
- Sunday, April 3: 6:45 am–5:30 pm
- Monday, April 4: 6:45 am–5:30 pm
- Tuesday, April 5: 6:45 am–5:30 pm
- Wednesday, April 6: 6:45–11 am

Networking Reception with Exhibitors

All attendees are welcome from 5:30–6:30 pm on Monday, April 4, in the Exhibit Hall. Join us in Grand Hall (Lobby Level) for light refreshments and opportunities to network with colleagues and industry partners.

Annual Meeting On-Demand

Upgrade your meeting experience and purchase access to continuing medical education credits from the SCA 38th Annual Meeting at home with SCA Annual Meeting On-Demand. Visit the Learner’s Digest booth in the Palm Foyer (2nd Level) to reserve your copy today!

Photography

Please be advised that throughout the SCA Annual Meeting & Workshops, photos may be taken for use in SCA marketing materials, including the e-newsletter and SCA Facebook and Twitter pages.

YOUR MOBILE MEETING

Use your mobile device to access information about the Annual Meeting and Workshops! Download the 2016 meeting mobile app to create a personalized meeting experience at your fingertips. Search SCA in your app store or visit www.tripbuildermedia.com/apps/sca.

JOIN THE CONVERSATION

Up-to-date information on the meeting can be easily found by following @scahq and our Scientific Program Committee Chair @andyshaw007 on Twitter or liking the SCA Facebook page.
Keynote Lecture: What Does Moving from Volume to Value Really Mean?

Joanne Conroy, MD
CEO, Lahey Hospital & Medical Center

Most of the articles on the impending transformation in health care focus on how we pay for care. Arguably that can be a very motivating factor for change, but do we know how we are going to deliver care differently?

Most economists would acknowledge that our health systems are currently not organized around assuming financial risk (capitation) or performance risk (caring for populations). Thus, we all need to be prepared for some dramatic changes in where and how we deliver care, where we put our resources, and how we measure our success.

The journey has just begun at several institutions nationally, and we will review the early challenges and victories with all the bumps, bruises, and heartburn! Joanne Conroy, MD, serves as CEO of Lahey Hospital & Medical Center, formerly known as Lahey Clinic, a physician-led, nonprofit, teaching hospital and the tertiary and quaternary care facility for Lahey Health System. Lahey Health includes sister hospitals in Winchester, Beverly, and Gloucester, MA; a network of physician practices across northern Massachusetts and southern New Hampshire; and rehabilitation, home care, elder care, and behavioral health facilities and services. Lahey Hospital & Medical Center’s campus also encompasses an ambulatory care center serving more than 3,000 patients each day and a Level II trauma center. The hospital, which includes more than 600 physicians, was ranked as one of the top five hospitals in Massachusetts by U.S. News & World Report in 2013-14. It also earned several awards from Healthgrades for 2014, including those for excellence in general surgery, stroke care, cardiac care and surgery, and overall clinical excellence.

SCA Distinguished Service Award Winner

Kenneth J. Tuman, MD

The Distinguished Service Award is given to an individual who has made significant contributions to the specialty of cardiovascular anesthesiology through research, education, service, or some combination of these activities.

Kenneth J. Tuman, MD, obtained his residency training in anesthesiology at Northwestern University and then completed fellowship training in cardiovascular anesthesiology and critical care medicine at Rush University Medical Center (RUMC). Subsequently, he remained at RUMC as a faculty member and quickly rose to the rank of professor. Dr. Tuman has contributed to the knowledge base of anesthesiology in the form of more than 100 peer-reviewed publications, more than 200 abstract presentations, 30 book chapters, and more than 100 invited lectures nationally, including numerous visiting professorships.

SCA John Hinckley Lifetime Outstanding Service Award Winner

Heather Austin Spiess

The John Hinckley Lifetime Outstanding Service Award will be given to a non-anesthesiologist who has made an outstanding contribution to the society. Heather Spiess is the former vice president and chief operating officer of Ruggles Service Corporation, a multiassociation management company in Richmond, VA. The company was established in 1974 by her father, John Hinckley, who passed away in 2006. Her employment at Ruggles began in 1999, and during her tenure she served as the executive director for the Society for Education in Anesthesia, the American Academy of Anesthesiologist Assistants, the Association of Cardiac Anesthesiologists, and the Society of Cardiovascular Anesthesiologists. Her service to SCA began shortly after joining Ruggles, when her father and the SCA president agreed to turn over the executive director duties to her. In 2016 after 24 years with Ruggles, Heather sold her shares to her brother and business partner, Stewart Hinckley.
Disclosures of Relevant Financial Relationships

Annual meeting attendees are urged to review general CME information for the conference, including disclosures of relevant financial relationships for all persons that affected the content of CME, by reading and/or downloading this information, which is available online at: www.scahq.org/2016annualmeeting.
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**Saturday, April 2**

7–8 am

**Light Continental Breakfast**

Seaport Foyer (2nd Level)

8–10 am

**Opening Session**

**Refresher Course Lectures: Making a Difference in...**

Moderator: Andrew D. Shaw, MB FCCM FFICM FRCA

- 8–8:20 am  Neuroprotection—Hilary P. Grocott, MD FASE FRCPC
- 8:20–8:40 am  Patient Safety—Jonathan B. Mark, MD
- 8:40–9 am  Perioperative 3D TEE—Stanton K. Sherman, MD FAHA FASE
- 9–9:20 am  Red Cell Transfusion—Keyvan Karkouti, MD MSc FRCP
c
- 9:20–10 am  Discussion

Seaport Foyer (2nd Level)

8–8:20 am  Neuroprotection—Hilary P. Grocott, MD FASE FRCPC
8:20–8:40 am  Patient Safety—Jonathan B. Mark, MD
8:40–9 am  Perioperative 3D TEE—Stanton K. Sherman, MD FAHA FASE
9–9:20 am  Red Cell Transfusion—Keyvan Karkouti, MD MSc FRCPc
9:20–10 am  Discussion

Grand Hall CD (Lobby Level)

10–10:30 am

**Coffee Break**

Seaport Foyer (2nd Level)

10:30 am–Noon

**Decision Making in Atrial Fibrillation**

Moderator: Jonathan Ho, MD

- 10:30–10:50 am  Clot or No Clot—How to Tell?—Mias Pretorius, MBChB MSCI
- 10:50–11:10 am  Post-Op Prophylaxis—Does Anything Work?—Joseph P. Mathew, MD
- 11:10–11:30 am  Surgical vs. Catheter Ablation—Which is Better?—Aman Mahajan, MD PhD
- 11:30 am–Noon  Discussion

Grand Hall CD (Lobby Level)

10:30–10:50 am  Clot or No Clot—How to Tell?—Mias Pretorius, MBChB MSCI
10:50–11:10 am  Post-Op Prophylaxis—Does Anything Work?—Joseph P. Mathew, MD
11:10–11:30 am  Surgical vs. Catheter Ablation—Which is Better?—Aman Mahajan, MD PhD
11:30 am–Noon  Discussion

Seaport GH (2nd Level)

10:30 am–Noon

**Ethics of Extracorporeal Membrane Oxygenation (ECMO)**

Moderator: Yasdet Maldonado, MD

- 10:30–10:55 am  A Bridge to What, Exactly? Decision-Making in ECMO—Jason D. Kennedy, MD
- 10:55–11:20 am  Can We Afford It? Does Payer Status Matter?—Jamie Ramsay, MD
- 11:20–11:45 am  ECMO for Organ Donors, Too?—Jacob Gutsche, MD
- 11:45 am–Noon  Discussion

Seaport AB (2nd Level)

10:55–11:20 am  Can We Afford It? Does Payer Status Matter?—Jamie Ramsay, MD
11:20–11:45 am  ECMO for Organ Donors, Too?—Jacob Gutsche, MD
11:45 am–Noon  Discussion

11 am–Noon

(Fellows) **Complex Case Presentations: Session 1**

Seaport GH (2nd Level)

12 pm–1 pm

**Lunch on Your Own**

1–3:30 pm

**Cerebral and Spinal Cord Protection During Complex Cardiac and Aortic Cases**

Moderator: Albert T. Cheung, MD

- 1–1:25 pm  Anesthetic Management for DHCA—Hilary P. Grocott, MD FASE FRCPC
- 1:25–1:50 pm  What’s the Role of NIRS?—Mark A. Taylor, MD FASE
- 1:50–2:15 pm  What’s the Role of Embolic Filters?—Hamdy M. Awad, MD
- 2:15–2:40 pm  What’s the Role of CSF Drainage?—James Anton, MD
- 2:40–3:05 pm  What Can the Surgeon Do?—Michael Fischbein, MD
- 3:05–3:30 pm  Discussion

Seaport GH (2nd Level)

1–1:25 pm  Anesthetic Management for DHCA—Hilary P. Grocott, MD FASE FRCPC
1:25–1:50 pm  What’s the Role of NIRS?—Mark A. Taylor, MD FASE
1:50–2:15 pm  What’s the Role of Embolic Filters?—Hamdy M. Awad, MD
2:15–2:40 pm  What’s the Role of CSF Drainage?—James Anton, MD
2:40–3:05 pm  What Can the Surgeon Do?—Michael Fischbein, MD
3:05–3:30 pm  Discussion

1–3:30 pm

**Decision Making in Perioperative Heart Failure**

Moderator: Sasha K. Shillcutt, MD FASE

- 1–1:25 pm  Intraoperative Heart Failure—Now Get Out of That—James Anton, MD
- 1:25–1:50 pm  Mechanical Assist for All Failing Hearts?—Annemarie Thompson, MD
- 1:50–2:15 pm  Case Presentations: Making the Diagnosis—Nicholas W. Markin, MD FASE
- 2:15–2:40 pm  Pro-Con Debate: LVADs for the Heart Failure Epidemic—Gert (Victor) D. Pretorius, MBChB
- 2:40–3:05 pm  Con: VADs Should Only Be Used as Bridge to Transplant—Srdjan Jelacic, MD
- 3:05–3:30 pm  Discussion

Grand Hall CD (Lobby Level)

1–1:25 pm  Intraoperative Heart Failure—Now Get Out of That—James Anton, MD
1:25–1:50 pm  Mechanical Assist for All Failing Hearts?—Annemarie Thompson, MD
1:50–2:15 pm  Case Presentations: Making the Diagnosis—Nicholas W. Markin, MD FASE
2:15–2:40 pm  Pro: DT is the Solution—Gert (Victor) D. Pretorius, MBChB
2:40–3:05 pm  Con: VADs Should Only Be Used as Bridge to Transplant—Srdjan Jelacic, MD
3:05–3:30 pm  Discussion
Schedule

1:15–2:15 pm
(Fellows) Complex Case Discussion with Expert Panel
Seaport C (2nd Level)

2:15–3:30 pm
(Fellows) Problem-Based Learning Discussion: Lung Transplantation
Seaport C (2nd Level)

3:30–4 pm
Coffee Break
Seaport Foyer (2nd Level)

4–5 pm
(Fellows) A Career in CT Anesthesiology: Mission Possible
Seaport C (2nd Level)

4–5:30 pm
Controversies in Vascular Surgery
Moderator: Wanda M. Popescu, MD
Grand Hall CD (Lobby Level)

4–4:20 pm
What's New in Endovascular Repair of a Thoracic Aortic Pathology?—Charles Acher, MD

4:20–4:40 pm
Spinal Cord Protection During TEVAR—Martha M. Wynn, MD

4:40–5 pm
Pro-Con Debate: The Best Surgical Option for an Abdominal Aortic Aneurysm Is an Endograft
Pro—Bart E. Muhs, MD PhD
Con—Sherif Assaad, MD

5–6 pm
(Fellows) Complex Case Poster Presentations: Session 2
Seaport AB (2nd Level)

6–7 pm
(Fellows) Optional Mentor Program
(For invited mentors and mentees only)
Old Town (2nd Level)

Sunday, April 3

7–8 am
Light Continental Breakfast
(Fellows) Complex Case Poster Presentations: Session 3
Seaport Foyer (2nd Level) & Seaport AB (2nd Level)

8–9 am
Earl Wynands Lecture
Moderators: Davy C.H. Cheng, MD MSc CCPE FCAHS FRCPC; Andrew D. Shaw, MB FCCM FFICM FRCA
Valve Sparing Aortic Surgical Procedures—Tirone E. David, MD

9–10:30 am
SCA/STS: An Update on Cardiac Surgery and Perioperative Echocardiography for Mitral Regurgitation
Moderator: Stanton K. Shernan, MD FAHA FASE
Grand Hall CD (Lobby Level)

9–9:20 am
The Cardiac Surgeon’s Dilemma for Ischemic Mitral Regurgitation: Coronary Revascularization With or Without Mitral Valve Repair or Replacement?—Tirone E. David, MD

9:20–9:40 am

9:40–10 am
Percutaneous Approaches in the Treatment of Functional Mitral Regurgitation—G. Burkhard Mackensen, MD PhD FASE

10–10:30 am
Discussion

10:30–11 am
Coffee Break
Seaport Foyer (2nd Level)

11 am–12:30 pm
Heparin and Protamine Shenanigans
Moderator: Priya A. Kumar, MD
Grand Hall CD (Lobby Level)

11–11:20 am
Alternatives to Heparin—Jerrold H. Levy, MD

11:20–11:40 am
Heparin-Induced Thrombocytopenia—Ian Welsby, MD MBBS BSc FRCA

11:40 am–Noon
Heparin Reversal and Protamine Reactions—Gregory A. Nuttall, MD

Noon–12:20 pm
Heparin Sensitivity and Resistance—Sophia Chew, MMED (Anaest) MBBS FANZCA

12:20–12:30 pm
Discussion
## Schedule

### Sunday, April 3 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
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<tr>
<td>11 am–12:30 pm</td>
<td>Seaport GH (2nd Level)</td>
<td>Demystifying the Electrophysiology (EP) Laboratory</td>
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<tr>
<td>Moderator:</td>
<td></td>
<td>Nelson Thaemert, MD</td>
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<tr>
<td>11–11:20 am</td>
<td></td>
<td>Anesthesia in the EP Lab: What Could Possibly Go Wrong?—Alina Nicoara, MD FASE</td>
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<tr>
<td>11:40 am–Noon</td>
<td></td>
<td>How Can Anesthesia Impact the Quality of Ablation?—Aman Mahajan, MD PhD</td>
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<tr>
<td>Noon–12:20 pm</td>
<td></td>
<td>Coming Soon to Your EP Lab: What’s New in the Pipeline?—Charles B. Nyman, MBBCh</td>
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<td>12:20–12:30 pm</td>
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<td>Discussion</td>
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<tr>
<td>11 am–12:30 pm</td>
<td>Seaport F (2nd Level)</td>
<td>What Causes End-Organ Dysfunction in Cardiac Surgery?</td>
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<tr>
<td>Moderator:</td>
<td></td>
<td>Frederic (Josh) T. Billings IV, MD</td>
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<tr>
<td>11–11:20 am</td>
<td></td>
<td>Is It the Pump or the Sternotomy?—Jochen (Danny) Muehlischlegel, MD FAHA</td>
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<tr>
<td>11:20–11:40 am</td>
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<td>Inflammation—Why Do Some People Mount More of a Response Than Others?—Quintin Quinones, MD PhD</td>
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<tr>
<td>11:40 am–Noon</td>
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<td>Ischemia Reperfusion Causes Both Local and Distant Injury—Karsten Bartels, MD</td>
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<tr>
<td>Noon–12:20 pm</td>
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<td>Does Preconditioning Work? Laboratory Data and Recent Clinical Trials of Remote Ischemic Preconditioning—Matthias L. Riess, MD PhD</td>
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<td>12:20–12:30 pm</td>
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<td>Discussion</td>
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<tr>
<td>12:30–1:30 pm</td>
<td>Seaport AB (2nd Level)</td>
<td>Lunch on Your Own</td>
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<td></td>
<td></td>
<td>Scientific Poster Session 1: Basic Science, Cardiovascular Anesthesiology, Case Reports, Coagulation</td>
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<tr>
<td>1:30–3 pm</td>
<td>Grand Hall CD (Lobby Level)</td>
<td>Heart, Lung, and Liver Transplantation Update</td>
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<tr>
<td>Moderator:</td>
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<td>C. David Collard, MD MS</td>
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<tr>
<td>1:30–1:50 pm</td>
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<td>Heart—How to Support a Failing Right Side—Marco A. Aguirre, MD</td>
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<td>1:50–2:10 pm</td>
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<td>Lung—Partial Lung Assist/ECMO Instead of CPB—Peter Von Homeyer, MD FASE</td>
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<td>2:10–2:30 pm</td>
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<td>Liver—Is ECHO Necessary in Every Case?—Nicholas W. Markin, MD FASE</td>
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<td>2:30–3 pm</td>
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<td>Discussion</td>
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<tr>
<td>1:30–3 pm</td>
<td>Seaport GH (2nd Level)</td>
<td>Society of Critical Care Anesthesiologists Session</td>
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<tr>
<td>Moderator:</td>
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<td>Laureen L. Hill, MD MBA</td>
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<td>1:30–1:45 pm</td>
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<td>Turning the Tide on Alert Fatigue—Using Data Efficiently to Improve Patient Outcomes—Brian W. Pickering, MBBCh BAO BA</td>
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<td>1:45–2 pm</td>
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<td>Enhanced Recovery in Cardiothoracic Surgery:</td>
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<td>2–2:15 pm</td>
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<td>What Patients? What Agents? What Techniques?—Brendan Sullivan, MD</td>
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<td>2:15–2:30 pm</td>
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<td>Improving In-Hospital Cardiopulmonary Resuscitation—James Blum, MD</td>
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<td>2:30–3 pm</td>
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<td>“Futility” and Resource Utilization in Cardiothoracic Critical Care—Michael A. Mazzeffi, MD MPH</td>
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<tr>
<td>1:30–3 pm</td>
<td>Seaport F (2nd Level)</td>
<td>A Practical Guide to Clinical Performance Measures in Cardiac Surgery</td>
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<td>Moderator:</td>
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<td>Tjorvi Perry, MD</td>
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<tr>
<td>1:30–1:50 pm</td>
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<td>Current State of Collecting and Reporting Clinical Performance Measures—Rebecca A. Schroeder, MD</td>
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<tr>
<td>1:50–2:10 pm</td>
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<td>How Can the STS/SCA Database Help Me With Quality?—Robert Farivar, MD PhD</td>
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<td>2:10–2:30 pm</td>
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<td>Does Everybody Need to Be Above Average? Unexpected Consequences of Performance Assessment—Laurent G. Glance, MD</td>
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<td>2:30–3 pm</td>
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<td>Discussion</td>
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<td>3–4 pm</td>
<td>Grand Hall AB (Lobby Level)</td>
<td>Opening of Exhibits and Coffee Break</td>
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<tr>
<td>4–5:30 pm</td>
<td>Seaport GH (2nd Level)</td>
<td>Anesthesia &amp; Analgesia State of the Art</td>
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<td>Moderator:</td>
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<td>Martin London, MD</td>
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<td>4–4:20 pm</td>
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<td>Frailty, Aging, and Cardiovascular Surgery—Charles Brown, MD</td>
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<td>4:20–4:40 pm</td>
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<td>New Innovations in VAD and ECMO Therapy—Robert N. Sladen, MBChB FCCM</td>
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</tbody>
</table>
**Schedule**

4:40–5 pm  Sedation After Cardiac Surgery—Is One Drug Better Than Another?—Hong Liu, MD
5–5:30 pm  Discussion

4–5:30 pm  Super Echo Panel Discussion
Moderators: Kathryn E. Glas, MD MBA FASE; Sasha K. Shillcutt, MD FASE
Panelists: Donna L. Greenhalgh, MBChB FFICM FRCA; Annemarie Thompson, MD; Christopher A. Troianos, MD FASE

(SE1) Transesophageal Echocardiographic Facilitation of Percutaneous Closure of a Large Paravalvular Mitral Defect—Paul Anderson, MD; Andra Duncan, MD MS; Anand Mehta, MD Cleveland Clinic
(SE2) Identification of an Anomalous Circumflex Coronary Artery During Intraoperative TEE in Patient Undergoing Mitral Valve Repair—Takumi Codere Maruyama, MD MSc; Surita Sidhu, MD FRCP; Joel Berube, MD FRCP; Masaru Yukawa, MD; John Mullen, MD FRCS; Mazankowski Alberta Heart Institute, University of Alberta Mazankowski Alberta Heart Institute
(SE3) Giant Right Atrial Diverticulum—Shihoko Iwata, MD; Sumire Yokokawa, MD; Futaba Daigo; Minoru Nomura, MD Tokyo Women’s Medical University
(SE4) Type B Aortic Dissection Caused By Intra-Aortic Balloon Counterpulsation: An Unexpected Finding During Emergency Coronary Artery Bypass Grafting—Lachlan Miles, MBBS FANZCA; Andrew Roscoe, FRCA Papworth Hospital NHS Foundation Trust
(SE5) Interpretation of Doppler Echocardiographic Findings: Unmasking of the Right Ventricle Dysfunction after Evacuation of Pericardial Effusion—Lisa Rong, MD; Nikolaos Skubas, MD DSc FACC FASE; Weill Cornell Medicine
(SE6) Intraoperative TEE and Treatment of a Paravalvular Aortic Insufficiency (PVAI) After a Transcatheter Aortic Valve Implantation (TAVI)—Sridhar Musuku, MD; Natalie Bruno, MD; Nathapong Arunakul, MD; Saroj Pani, MD FASE; Albany Medical Center
(SE7) Ruptured Congenital Sinus of Valsalva Aneurysm—Sarah Smith, MD; Jing Cui, MD; Jerri Chen, MD PhD Columbia University

4–6 pm  Best of Meeting Oral Abstract Presentations: Session 1
Moderator: Mark Stafford-Smith, MD CSM FACE FRCPC

6:30–9:30 pm  Gala Party
(This is a ticketed event. Please visit the registration desk for details.)

Monday, April 4

7–8 am  Light Continental Breakfast With Exhibitors

8–10 am  Acute and Chronic Right Heart Failure
Moderator: G. Burkhard Mackensen, MD PhD FASE
8–8:25 am  Right Heart Failure—Pharmacology—Georges Desjardins, MD FASE FRCPC
8:25–8:50 am  Right Heart Failure—Mechanical Assist Options—Manuel Fontes, MD
8:50–9:15 am  Perspectives of the Surgeon With Emphasis on Patient Selection and Intraoperative Technique—Michael M. Madani, MD FACS
9:15–9:40 am  Perspectives of the Anesthesiologist With Emphasis on Perioperative Management—Dalia A. Banks, MD FASE
9:40–10 am  Discussion

10–10:30 am  Coffee Break With Exhibitors

10:30–11:30 am  Keynote Lecture
Moderator: Linda Shore-Lesserson, MD FAHA FASE
  What Does Moving From Volume to Value Really Mean?—Joanne Conroy, MD

11:30 am–Noon  Annual Business Meeting and SCA Awards Presentations

Noon–12:30 pm  ASA Update
Speaker: Stanley W. Stead, MD
12:30–1:30 pm
Lunch With Exhibitors

Scientific Poster Session 2: Echocardiography–3D, Echocardiography–Other

1:30–3 pm
BOD TEE Pros/Cons
Moderator: Madhav Swaminathan, MD FASE
- 1:30–1:35 pm Introduction of Speakers, Topics, and Format—Madhav Swaminathan, MD FASE
- TEE for All?
  - 1:30–1:35 pm Introduction of Speakers, Topics, and Format—Madhav Swaminathan, MD FASE
  - 1:35–1:50 pm Pro—Albert C. Perrino, MD
  - 1:50–1:55 pm Con Cross-Examination—Stanton K. Sherman, MD FAHA FASE
  - 1:55–2:10 pm Con—Stanton K. Sherman, MD FAHA FASE
  - 2:10–2:15 pm Pro Cross-Examination—Albert C. Perrino, MD
- 3D TEE Changes Outcomes?
  - 2:15–2:20 pm Pro—G. Burkhard Mackensen, MD PhD FASE
  - 2:20–2:25 pm Con Cross-Examination—Kathryn E. Glas, MD MBA FASE
  - 2:25–2:50 pm Con—Kathryn E. Glas, MD MBA FASE
  - 2:50–2:55 pm Pro Cross-Examination—G. Burkhard Mackensen, MD PhD FASE
  - 2:55–3 pm Session Summary and Wrap-Up—Madhav Swaminathan, MD FASE

1:30–3 pm
What Does Elderly Mean for Cardiac Surgery in 2016?
Moderator: Donna L. Greenhalgh, MBChB FFICM FRCA
- 1:30–1:50 pm Physiology of Aging—Joerg Ender, MD
- 1:50–2:10 pm When Are You Too Old to Have Heart Surgery?—Fabio G. Guarracino, MD
- 2:10–2:30 pm Enough Already? When Is It Time to Change the Emphasis of Care in the ICU?—S. Nick Fletcher, MBBS FRCA
- 2:30–3 pm Discussion

1:30–3 pm
New Coagulation Factor Drugs (PCCs, Fibrinogen Concentrates, etc.)
Moderator: Roman M. Sniecinski, MD FASE
- 1:30–1:50 pm For Reversing NOACs—Ian Welsby, MD MBBS BSc FRCA
- 1:50–2:10 pm For Treating Bleeding—Kenichi Tanaka, MD
- 2:10–2:30 pm Economics—Gregory A. Nuttal, MD
- 2:30–3 pm Discussion

3–3:30 pm
Coffee Break With Exhibitors

3:30–5 pm
Acute Kidney Injury
Moderator: Andrew S. Weisinger, MD FASE
- 3:30–3:35 pm Welcome and Introduction—Andrew S. Weisinger, MD FASE
- 3:35–4 pm Acute Kidney Injury Following Cardiac Surgery: Pathobiology and Diagnosis—Frederic (Josh) T. Billings IV, MD
- 4–4:25 pm The Case of Acute Injury: Why an Ounce of Prevention is Worth a Pound of Cure—Mark Stafford-Smith, MD CSM FRCPC FASE
- 4:25–4:50 pm Why We are Unable to Show the Benefits of “Renoprotective” Agents?—Robert N. Sladen, MBChB FCCM
- 4:50–5 pm Discussion

3:30–5 pm
Do Cardiac Anesthesiologists Really Make a Difference and at What Cost?
Moderator: Tjorvi Perry, MD
- 3:30–3:50 pm What Is a Cardiac-Trained Anesthesiologist? Have We Lost Sight of the Floor?—Bryan G. Maxwell, MD
- 3:50–4:10 pm If Only Everyone Was as Well-Trained as Me: Exploring the Impact of Performance on Clinical Outcomes in the Cardiac Surgical Patient—Laurent G. Glance, MD
- 4:10–4:30 pm Reconciling the Cost of a Cardiac Anesthesiologist: How Much Is Too Much?—Christopher A. Troianos, MD FASE
- 4:30–5 pm Discussion
Schedule

3:30–5:30 pm Seaport F (2nd Level)
Best of Meeting Oral Abstract Presentations: Session 2
Moderator: Thomas Floyd, MD CM FRCPC

5:30–6:30 pm Grand Hall AB (Lobby Level)
Reception with Exhibitors

Tuesday, April 5

7–8 am Grand Hall AB (Lobby Level)
Light Continental Breakfast With Exhibitors

8–10 am Grand Hall CD (Lobby Level)
Town Hall Debate
Moderator: Scott T. Reeves, MD MBA FACC FASE
8–8:10 am Current State of Advanced Perioperative TEE Certification by the National Board of Echocardiography—Stanton K. Sherman, MD FAHA FASE
8:10–8:20 am Perioperative Ultrasound Training in Anesthesiology—A Call to Action—Feroze Mahmood, MD
8:20–8:30 am SCA Sponsored Subspecialty Certification in Cardiothoracic and Vascular Anesthesiology—Mark Stafford-Smith, MD CSM FASE FRCP C
8:30–10 am Training and Certification in Cardiothoracic and Vascular Anesthesiology—Solomon Aronson, MD MBA FACC FACC P FAHA FASE; Donna L. Greenhalgh, MBChB FFICM FRCA; Steven N. Konstadt, MD; Annemarie Thompson, MD; Michael S. Wall, MD FCCM; Andrew S. Weisinger, MD FASE

10–10:30 am Grand Hall AB (Lobby Level)
Coffee Break With Exhibitors

10:30 am–Noon Grand Hall CD (Lobby Level)
Red Cell Transfusion Controversies
Moderator: J. Mauricio Del Rio, MD
10:30–10:50 am Liberal and Conservative Transfusion Triggers—What Do They Mean?—C. David Mazer, MD
10:50–11:10 am The Storage Lesion—Real Threat or Mythical Beast?—Elliott Bennett-Guerrero, MD
11:10–11:30 am Preoperative Hemoglobin Management Strategies—Lon B. Heller, MD
11:30–Noon Discussion

10:30 am–Noon Seaport GH (2nd Level)
Focus on the Tricuspid Valve
Moderator: Tara R. Brakke, MD MBA FASE
10:30–10:50 am Structure and Function of the Tricuspid Valve—Sreekanth Cheruku, MD
10:50–11:10 am How to Assess Tricuspid Regurgitation?—Carlos Galhardo, MD
11:10–11:30 am What Causes Functional TR?—Nikolaos J. Skubas, MD DSc FACC FASE
Rapid Fire Pro-Con
11:30–11:45 am Pro: Don’t Touch It! It Will Get Better on Its Own—Chirojit Mukherjee, MD PhD
11:45 am–Noon Con: No It Won’t—Go Ahead and Fix It—Kent H. Rehfeldt, MD FASE

Noon–1:30 pm Grand Hall AB (Lobby Level) & Seaport AB (2nd Level)
Dessert With Exhibitors

Scientific Poster Session 3: Perioperative Medicine, Structural Disease, Thoracic Anesthesia

1:30–3 pm Seaport GH (2nd Level)
Navigating the Financial Minefield
Moderator: C. David Collard, MD MS
1:30–1:50 pm Evolving Bundled Payment Systems—Stanley W. Stead, MD
1:50–2:10 pm It’s a Dog-Eat-Dog World—What to Do if Your Group Gets Taken Over—Joseph W. Szokol, MD
2:10–2:30 pm Negotiating for a Slice of the Pie—Christopher A. Trojanos, MD FASE
2:30–3 pm Discussion
## Schedule

**Tuesday, April 5** (continued)

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<thead>
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<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Moderator(s)</th>
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<tbody>
<tr>
<td>1:30–3 pm</td>
<td>Grand Hall CD (Lobby Level)</td>
<td>Research Session: Outside-the-Box Ideas in Cardiovascular Medicine: Hormesis, Turtle Hearts, and Mathematical Models</td>
<td>Paul M. Heerdt, MD PhD FCCP&lt;br&gt;1:30–1:50 pm: A Little Bad May Be Good: Hormesis and Adaptive Responses in Health and Disease—Mihai V. Podgoreanu, MD FASE&lt;br&gt;1:50–2:10 pm: Turtle Hearts on YouTube? Lessons Learned from 3-Chambered Hearts—Paul M. Heerdt, MD PhD FCCP&lt;br&gt;2:10–2:30 pm: Practical Application of Cardiovascular Modeling and Simulation—Marc L. Dickstein, MD&lt;br&gt;2:30–3 pm: Discussion</td>
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<tr>
<td>1:30–3 pm</td>
<td>Seaport F (2nd Level)</td>
<td>Controversies in Interventional Cardiology</td>
<td>Wendy L. Pabich, MD&lt;br&gt;1:30–1:50 pm: TAVR vs. SAVR?—Lebron Cooper, MD&lt;br&gt;1:50–2:10 pm: PCI vs. CABG—Davy C.H. Cheng, MD MSc CCPE FCAHS FRCPC&lt;br&gt;2:10–2:30 pm: Lead Extractions—Where and How Should These Happen?—Nelson Thaemert, MD&lt;br&gt;2:30–3 pm: Discussion</td>
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<tr>
<td>3–3:30 pm</td>
<td>Seaport Foyer (2nd Level)</td>
<td>Coffee Break</td>
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<td>3:30–5 pm</td>
<td>Seaport GH (2nd Level)</td>
<td>Adult Congenital Heart Disease (ACHD): Special Considerations for Patients with CHD Surviving Into Adulthood</td>
<td>Gregory M. Janelle, MD FASE&lt;br&gt;3:30–3:50 pm: Current Outcomes and Expectations for Patients With Common Congenital Heart Lesions—Dean B. Andropoulos, MD&lt;br&gt;3:50–4:10 pm: Adults With CHD Presenting for Redo-Cardiac Surgical Procedures—Susan Eagle, MD&lt;br&gt;4:10–4:30 pm: Adults With CHD Presenting for Non-Cardiac Surgery—Andrew D. Pritkin, FRCA MRCP&lt;br&gt;4:30–4:50 pm: Adults With CHD Presenting to Labor and Delivery—Laurie R. Davies, MD&lt;br&gt;4:50–5 pm: Discussion</td>
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<tr>
<td>5–6 pm</td>
<td>Grand Hall CD (Lobby Level)</td>
<td>Echo Jeopardy!</td>
<td>Feroze Mahmood, MD; Andrew D. Maslow, MD; Peter J. Panzica, MD</td>
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</tbody>
</table>
Schedule: Workshops (Separate registration required.)

Saturday, April 2

8–11 am Seaport F (2nd Level)

Workshop 1: Advanced Transesophageal Echocardiography (TEE)
Moderators: Jonathan Ho, MD; Stanton K. Sherman, MD FAHA FASE
Right Ventricular Quantification—Feroze Mahmood, MD
Mitrail Valve Measurements—Stanton K. Sherman, MD FAHA FASE
Cardiac Deformation (Strain)—Kimberly Howard-Quijano, MD MS
Hands-On Stations
  Mitral Valve Measurements—Nelson Burbano, MD; George Gellert, MD
  Right Ventricular Quantification—Feroze Mahmood, MD; Gabriela Querejeta Roca, MD
  Cardiac Deformation—Kimberly Howard-Quijano, MD MS; Nikolaos J. Skubas, MD DSc FACC FASE
  Advanced Quantification Demo—Jacques (Prince) Neelankavil, MD; Madhav Swaminathan, MD FASE

8–11 am Seaport C (2nd Level)

Workshop 2: Coagulation and Transfusion
Moderators: Gregory A. Nuttall, MD; Mark A. Taylor, MD FASE
Point-of-Care Testing and Transfusion Algorithms in Cardiac Surgery—Keyvan Karkouti, MD MSc FRCPC
Massive Transfusion Protocols: Advantages and Complications—Michael A. Mazzeffi, MD MPH
Blood Conservation in Cardiac Surgery—The When and How—Aryeh Shander, MD
Hands-On Stations
  Point-of-Care Testing: Qualitative vs. Quantitative Platelet Analysis—Jason D. Kennedy, MD; Yasdet Maldonado, MD; Linda Shore-Lesserson, MD FAHA FASE
  Point-of-Care Testing: Anticoagulation Monitoring—Kamrouz Ghadimi, MD; Aryeh Shander, MD
  Point-of-Care Testing: Thromboelastography—Michael A. Mazzeffi, MD MPH
  Rapid Infusion—Ellen M. Dailor, MD; Daisuke Nonaka, MD
  Cell salvage—Harendra Arora, MD; C. David Mazer, MD

1–4 pm Seaport F (2nd Level)

Workshop 3: Non-Cardiac U/S: Lungs, Vascular Access, FAST, and More
Moderators: Achikam Oren-Grinberg, MD; Andrew S. Weisinger, MD FASE
Lung U/S for the Detection of Pneumothorax—Jacek Wojtczak, MD
The FAST Exam—Eric Ursprung, MD
Vascular Access—Ellen M. Dailor, MD
Hands-On Stations
  Lung Ultrasound—Amit Bardia, MBBS; Massimiliano Meineri, MD; Jacek Wojtczak, MD
  FAST—Robina Matyal, MD; Mario Montealegre, MD; Eric Ursprung, MD
  Vascular Access—Karsten Bartels, MD; Ellen M. Dailor, MD

1–4 pm Hillcrest (3rd Level)

Workshop 4: Case-Based TEE
Moderators: Yasdet Maldonado, MD; Alina Nicoara, MD FASE
Case-Based, Small-Group Discussions
Echo in the ICU: Role in the Patient With Hemodynamic Instability—J. Mauricio Del Rio, MD
High Gradient Prosthetic Valves: When to Return to CPB—Georges Desjardins, MD FASE FRCPC
Ischemic Mitral Regurgitation: When to Fix—Gary A. Monteiro, MD
Paravalvular Leaks: When to Return to CPB—Charles B. Nyman, MBBC
Mitrail Regurgitation in HOCM: When to Address the Mitral Valve—Kent H. Rehfeldt, MD FASE
Imaging in Devices (ECMO, VADS): What Is Real vs. Artifact?—Stephen A. Esper, MD MBA
Schedule: Workshops

(Separate registration required.)

Sunday, April 3

9 am–Noon

Workshop 5: Transthoracic Echocardiography
Moderator: Tara R. Brakke, MD FASE

- The Basic TTE Exam and Anatomy—Jonathan Ho, MD
- TEE to TTE Comparison Anatomy—Candice R. Montzingo, MD FASE
- How TTE Has Impacted My Management—Sasha K. Shillcutt, MD FASE

Hands-On Stations

Live Model—Jonathan Ho, MD; Candice R. Montzingo, MD FASE; Nicholas W. Markin, MD FASE; Sasha K. Shillcutt, MD FASE
Simulator—Julian S. Bick, MD; Megan Chacon, MD; Ravi Vivekanand Joshi, MD; Walker R. Thomas, BS RDCS FASE

1:30–4:30 pm

Workshop 6: Percutaneous Valve
Moderators: John (Yianni) G.T. Augoustides, MD FAHA FASE; Nelson Thaemert, MD

- State-of-the-Art TAVR: Where are we in 2016?—Tsuyoshi Kaneko, MD
- Complex Case Discussion: TAVR—John (Yianni) G.T. Augoustides, MD FAHA FASE
- Percutaneous Valve Repair—Tsuyoshi Kaneko, MD
- Complex Case Discussion: MitraClip—G. Burkhard Mackensen, MD PhD FASE

Hands-On Stations

Product Discussion: Technology Overview: What’s New?—Erik Anderson, MD; Tsuyoshi Kaneko, MD; Charles B. Nyman, MBBCh; Joseph D. Roberts, MD
Problem-Based Learning Discussion: TAVR Planning Sedation vs. GA—John (Yianni) G.T. Augoustides, MD FAHA FASE; Eric W. Nelson, DO; Mary Beth Brady, MD FASE
Hands-on Imaging Session: Manipulating 3-D Data Sets for Decision Making—Megan Chacon, MD; Brian J. Gelfand, MD; G. Burkhard Mackensen, MD PhD FASE; Nikolaos J. Skubas, MD DSc FASE

Wednesday, April 6

8–11 am

Workshop 7: Cardiopulmonary Bypass
Moderators: Eugene A. Hessel II, MD; Gregory M. Janelle, MD FASE

Hands-On Stations—Cory M. Alwardt, CCP; Ron Angona, MS CCP; Jonathan R. Bulatao; Kim De La Cruz, CCP FPP; Uriah Dudgeon, CCP MS

8–11 am

Workshop 8: 3D TEE
Moderators: Jonathan Ho, MD; Sasha K. Shillcutt, MD FASE

- Introduction to 3D Imaging Modalities and Live 3D Acquisition—Nicholas W. Markin, MD FASE
- Common Applications and 3D Work Flow in the OR—Jacques (Prince) Neelankavil, MD FASE
- Gated 3D Imaging: 3D Full Volume and Color Flow Imaging—Candice R. Montzingo, MD FASE

Hands-On Stations

Station 1: Basic System—Megan Chacon, MD
Station 2: Basic System—Peter Neuburger, MD
Station 3: Basic System—J. Mauricio Del Rio, MD
Station 4: Basic System—Erik Anderson, MD
Station 5: Intermediate System—Jacques (Prince) Neelankavil, MD FASE
Station 6: Intermediate System—Logan Kosarek, MD
Station 7: Intermediate System—Ricardo Cardenas, MD; Candice R. Montzingo, MD FASE
Station 8: Intermediate System—Walker R. Thomas, BS RDCS FASE
Station 9: Intermediate System—Nicholas W. Markin, MD FASE
Station 10: Advanced (off-cart laptop)—Georges Desjardins, MD FASE FRCPC
Schedule: Fellow/Junior Faculty Program

Saturday, April 2

11 am–Noon
Complex Case Presentations: Session 1
Moderators: Dalia A. Banks, MD FASE; Tara R. Brakke, MD FASE; Megan Chacon, MD; Albert T. Cheung, MD; Susan Eagle, MD; John A. Fox, MD; Jonathan D. Leff, MD; Eric W. Nelson, DO; Mark T. Nelson, MD MEd; Jennie Yee Ngai, MD; Yong G. Peng, MD PhD FASE; Nelson Thaemert, MD; Kevin C. Thornton, MD; Sudhakar Subramani, MD MMED; Daniel A. Tolpin, MD; Justin Wilson, MD

1:15–2:15 pm
Complex Case Discussion With Expert Panel
Moderators: William (Skip) Culp Jr., MD FASE; Roman M. Sniecinski, MD FASE
Panelists: John A. Fox, MD; Aman Mahajan, MD PhD; Scott T. Reeves, MD MBA FACC FASE
(F1) Transcaval Approach to Transcatheter Aortic Valve Replacement for Treatment of Prosthetic Aortic Stenosis in a Patient With Simultaneous Prosthetic Mitral Valve Stenosis Mark Henry, MD; Joseph Fredi, MD FACC FACFAP; Stephen Ball, MD; Mark Robbins, MD; Bantayehu Sileshi, MD; Vanderbilt University Medical Center
(F2) Uncommon Solution to Intractable Ventricular Tachycardia Meggie Raymond, MD FRCPC; Robert Lemery, MD FRCPC; Christopher Hudson, MD MPH FRCPC; University of Ottawa Heart Institute
(F3) Successful Use of Plasma Exchange in a Patient with Heparin-Induced Thrombocytopenia Thrombosis Undergoing Cardiopulmonary Bypass for Heart Transplantation Min Kim, MD; Steven Hill, MD; Nicole De Simone, MD MPH; Ravindra Sarode, MD; UT Southwestern Medical Center
(F4) Intraoperative Hyperacute Multi-Vessel Coronary Vasospasm in Cardiac Allograft: A Case Report Stephanie Jones, MD; Jay Pal, MD PhD; G. Burkhard Mackensen, MD PhD FASE; Richard Sheu, MD; University of Washington Medical Center

2:15–3:30 pm
Problem-Based Learning Discussion: Lung Transplantation
Facilitators: Ioanna Apostolidou, MD; Dalia A. Banks, MD FASE; Tara R. Brakke, MD FASE; Megan Chacon, MD; Albert T. Cheung, MD; William (Skip) Culp Jr., MD FASE; Michelle Downing, MD; Susan Eagle, MD; John A. Fox, MD; Brian J. Gelfand, MD; Jonathan Ho, MD; Jacques (Prince) Neelankavil, MD; Mark T. Nelson, MD MEd; Jennie Yee Ngai, MD; Prakash A. Patel, MD; Yong G. Peng, MD PhD FASE; Robert Savage, MD FACC; Jack S. Shanewise, MD FASE; Roman M. Sniecinski, MD FASE; Sudhakar Subramani, MD MMED; Michele Sumler, MD; Nelson Thaemert, MD; Kevin C. Thornton, MD; Jason Tippett, MD; Daniel A. Tolpin, MD; Matthew M. Townsley, MD; Justin Wilson, MD

4–5 pm
A Career in CT Anesthesiology: Mission Possible
Moderators: William (Skip) Culp Jr., MD FASE; Roman M. Sniecinski, MD FASE
Panelists: Kathryn E. Glas, MD MBA FASE; Lori B. Heller, MD; Madhav Swaminathan, MD FASE

5–6 pm
Complex Case Poster Presentations: Session 2
Moderators: Ioanna Apostolidou, MD; Dalia A. Banks, MD FASE; J. Mauricio Del Rio, MD; John A. Fox, MD; Jonathan D. Leff, MD; Eric W. Nelson, DO; Jacques (Prince) Neelankavil, MD; Prakash A. Patel, MD; Jack S. Shanewise, MD FASE; Jonathan Ho, MD; Sasha K. Shillcutt, MD FASE; Michele Sumler, MD; Nelson Thaemert, MD; Jason Tippett, MD; Matthew M. Townsley, MD; Ratna Vadlamudi, MD

6–7 pm
Optional Mentor Program
(For invited mentors and mentees only)

Sunday, April 3

7–8 am
Complex Case Poster Presentations: Session 3
Moderators: Ioanna Apostolidou, MD; Michelle Downing, MD; Brian J. Gelfand, MD; Nicholas W. Markin, MD FASE; Jacques (Prince) Neelankavil, MD; Jennie Yee Ngai, MD; Yong G. Peng, MD PhD FASE; Jason Tippett, MD; Daniel A. Tolpin, MD; Matthew Townsley, MD

Wednesday, April 6

8–11 am
Workshop 9: Fellow Transesophageal Echocardiography Review Session (Separate registration required.)
Moderators: William (Skip) Culp Jr., MD FASE; Roman M. Sniecinski, MD FASE

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8:30–8:45</td>
<td>Artifacts and Pitfalls—Nikolaos J. Skubas, MD DSc FASE</td>
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<tr>
<td>8:45–9:00</td>
<td>Ultrasound Physics—Kent H. Rehfeld, MD FASE</td>
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<td>9:00–9:15</td>
<td>Hemodynamic Calculations—Mary Beth Brady, MD FASE</td>
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<td>9:15–9:30</td>
<td>Break</td>
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<tr>
<td>9:30–9:45</td>
<td>Congenital Heart Defects—Kathryn Rouine-Rapp, MD</td>
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<td>9:45–10:15</td>
<td>Diastology—Wanda M. Popescu, MD</td>
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### Schedule: PBLDs

**Problem-Based Learning Discussions** *(Separate Registration Required)*

PBLD Coordinator: Michael P. Eaton, MD

Each table is limited to 15 participants and 2 faculty members to allow for small-group interaction, discussion, and exchange of ideas.

<table>
<thead>
<tr>
<th>Sunday, April 3, 2016 [6:45–8 am]</th>
<th>3rd Level</th>
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<tbody>
<tr>
<td><strong>PBLD 1</strong> Showing Value to Your Hospital as a Cardiovascular Anesthesiologist</td>
<td>Cortez Hill C</td>
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<tr>
<td>Steven N. Konstadt, MD; Joseph N. Szokol, MD</td>
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<tr>
<td><strong>PBLD 2</strong> Pitfalls and Solutions in Invasive Arterial Pressure Measurement</td>
<td>Hillcrest A</td>
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<tr>
<td>Hamdy M. Awad, MD; Jacek Wojtczak, MD</td>
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<tr>
<td><strong>PBLD 3</strong> Blood Management and Transfusion Avoidance</td>
<td>Hillcrest B</td>
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<tr>
<td>Lori B. Heller, MD; Keyvan Karkouti, MD MSc FRCPC</td>
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<tr>
<td><strong>PBLD 4</strong> Every Pressor I Can Think of and Still No BP! Managing Vasoplegia</td>
<td>Hillcrest C</td>
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<tr>
<td>Adam Evans, MD MBA; Matthew Levin, MD</td>
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<tr>
<td><strong>PBLD 5</strong> Prevention and Management of Atrial Fibrillation After CT Surgery</td>
<td>Hillcrest D</td>
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<tr>
<td>Noel G. Boyle, MD PhD; Aman Mahajan, MD PhD</td>
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<tr>
<td><strong>PBLD 6</strong> Hypertrophic Obstructive Cardiomyopathy</td>
<td>Golden Hill A</td>
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<tr>
<td>Jiapeng Huang, MD PhD; Thomas Maher, MD</td>
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<tr>
<td><strong>PBLD 7</strong> Perioperative Coagulopathy and Transfusion</td>
<td>Golden Hill B</td>
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<tr>
<td>Prakash A. Patel, MD; Kamrouz Ghadimi, MD</td>
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<th>Monday, April 4, 2016 [6:45–8 am]</th>
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<tr>
<td><strong>PBLD 8</strong> Lung Transplantation</td>
<td>Cortez Hill C</td>
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<tr>
<td>Dasuke Nonaka, MD; Mark Stafford-Smith, MD CM FASE FRCPC</td>
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<tr>
<td><strong>PBLD 9</strong> Avoiding Problems With Pacemakers and ICDs</td>
<td>Hillcrest A</td>
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<tr>
<td>Jonathan Ho, MD; Jacques (Prince) Neelankavil, MD</td>
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<td><strong>PBLD 10</strong> One-Lung Ventilation in a Patient With Fontan Circulation Undergoing Thoracoscopic Procedure</td>
<td>Hillcrest B</td>
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<td>Draginja R. Cvetkovic, MD; Galina Leyvi, MD</td>
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<td><strong>PBLD 11</strong> Preventing and Managing Perioperative Delirium</td>
<td>Hillcrest C</td>
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<tr>
<td>Hilary P. Grocott, MD FASE FRCPC; Srdjan Jelacic, MD</td>
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<tr>
<td><strong>PBLD 12</strong> Can You Be Too Cold? Temperature Management for DHCA</td>
<td>Hillcrest D</td>
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<tr>
<td>Albert T. Cheung, MD; Alexander Gregory, MD</td>
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<td><strong>PBLD 13</strong> ECMO: When to Start, When to Stop</td>
<td>Golden Hill A</td>
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<td>Jacob Gutsche, MD; Yassdet Maldonado, MD</td>
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<tr>
<td><strong>PBLD 14</strong> The Adult Patient With Congenital Heart Disease</td>
<td>Golden Hill B</td>
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<tr>
<td>Tara R. Brakke, MD FASE; Katie Goergen, MD</td>
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<th>Tuesday, April 5, 2016 [6:45–8 am]</th>
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<tr>
<td><strong>PBLD 15</strong> Trials and Tribulations of Initiating CPB</td>
<td>Hillcrest A</td>
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<tr>
<td>Eugene A. Hessel II, MD; Oksana Klimkina, MD</td>
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<tr>
<td><strong>PBLD 16</strong> Descending Thoracic Aortic Repair: Aortic Transection</td>
<td>Hillcrest B</td>
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<tr>
<td>Johannes Dorfling, MD; J. Thomas Murphy, MD</td>
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<tr>
<td><strong>PBLD 17</strong> Mitral Repairs: Minimally Invasive–Maximum Headache?</td>
<td>Hillcrest C</td>
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<tr>
<td>Ellen M. Dilor, MD; Ludmil (Lou) Mtrev, MD</td>
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<td><strong>PBLD 18</strong> LVAD Looks Great. Right Heart–Not so Much</td>
<td>Hillcrest D</td>
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<td>Theresa A. Gelzinis, MD; Erin A. Sullivan, MD</td>
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<td><strong>PBLD 19</strong> Pre-Op Clinic for SDA Cardiac Surgery: First Step Toward the Perioperative Surgical Home</td>
<td>Golden Hill A</td>
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<tr>
<td>Andrew Goldberg, MD; George Silvy, MD PhD</td>
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<td><strong>PBLD 20</strong> High-Risk Lead Extractions: Who, Where, and How?</td>
<td>Golden Hill B</td>
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<tr>
<td>Michael Barron, MD; Lilibeth Fermin, MD</td>
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<td><strong>PBLD 21</strong> Negotiating Payments for Anesthesia Services With Bundling and Capitation</td>
<td>Balboa C [2nd Level]</td>
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<tr>
<td>Solomon Aronson, MD MBA FACC FAHA FASE; Nelson Thaemert, MD</td>
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<th>Wednesday, April 6, 2016 [6:45–8 am]</th>
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<tr>
<td><strong>PBLD 22</strong> The Patient With Pulmonary Hypertension for Non-Cardiac Surgery</td>
<td>Hillcrest B</td>
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<tr>
<td>Mary Beth Brady, MD FASE; Jochen Steppan, MD</td>
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<td><strong>PBLD 23</strong> Secondary Tricuspid Regurgitation: Fix it or Leave it Alone?</td>
<td>Hillcrest C</td>
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<td>Ravi Vivekanand Joshi, MD; Kent H. Rehfeldt, MD FASE</td>
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<tr>
<td><strong>PBLD 24</strong> The Patient With LVAD for Non-Cardiac Surgery</td>
<td>Hillcrest D</td>
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<tr>
<td>Sheila Pai Cole, MD; Lindsay Raleigh, MD</td>
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<tr>
<td><strong>PBLD 25</strong> Fast Track and Enhanced Recovery in Cardiac Surgery</td>
<td>Golden Hill A</td>
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<tr>
<td>Joerg Ender, MD; Kathirvel Subramaniam, MD MPH</td>
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<td><strong>PBLD 26</strong> Managing the Patient Taking the New Oral Anticoagulants</td>
<td>Golden Hill B</td>
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<tr>
<td>Harendra Arora, MD; Gregory A. Nuttall, MD</td>
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Scientific Abstracts and Posters

Best of Meeting Oral Abstract Presentations: Session 1

Sunday, April 3, 4–6 pm

Seaport F (2nd Level)

SCA1: Myocardial Gene Expression Is Altered in Patients Developing Postoperative Atrial Fibrillation
Jelliffe Jeganathan, MD; Rabya Saraf, BA; Aaron Mittel, MD; Ruby Feng, BA; Feroze Mahmood, MD FASE; Manoj Bhasin, PhD; Kamal Khabbaz, MD; David Liu, MD; Venkatachalam Senthilnathan, MD; Robina Matyal, MD; Beth Israel Deaconess Medical Center1

SCA2: Remodeling in the Cardiac Nervous System Following Myocardial Infarction
Kimberly Howard-Quijano, MD MS1; Chen Gao, PhD1; Christopher Rau, PhD1; Tatsuo Takamiya, MD1; Wei Zhou, PhD FAHA1; Yiben Wang, PhD1; Aman Mahajan, MD PhD1; University of California, Los Angeles1

SCA3: Local Delivery of Nanoparticle-Tagged Neuropeptide Y Improves Functional Blood Flow in a Murine Model of Hind Limb Ischemia
Rabya Saraf, BA1; Derek Eshun, MD1; Jelliffe Jeganathan, MD1; Soochan Bae, PhD1; Feroze Mahmood, MD FASE1; Qingen Ke, MD1; Peter Kang, MD1; Robina Matyal, MD1; Beth Israel Deaconess Medical Center1

SCA4: Haptoglobin Polymorphism is Associated with Increased Risk for AKI and Mortality after CABG Surgery in Patients with Diabetes
Jacob Raphael, MD1; Chenzhuo Feng, MD1; Swapna Thamishetti, MD1; David Scalzo, MD1; Zhiyi Zuo, MD PhD1; University of Virginia1; Hangzhou Normal University2

SCA5: Decreased Preoperative Functional Status Is Associated With Increased Mortality Following Coronary Artery Bypass Surgery
Hanjo Ko, MD1; Julius Ejofor, MD1; Jessica Rydingsward, DPT1; James Rawn, MD1; Jochen Muehlschlegel, MD MMSc FAHA1; Kenneth Christopher, MD1; Brigham and Women’s Hospital1

SCA6: DNA Methylation Is Independently Associated With Postoperative Atrial Fibrillation
Matthew Fischer, MD1; Emma Monte, PhD1; Kimberly Howard-Quijano, MD MS1; Todd Kimball, BS1; Matteo Pellegrini, PhD1; Jennifer Scovotti, MA1; Yiben Wang, PhD1; Thomas Vondriska, PhD1; Aman Mahajan, MD PhD1; University of California, Los Angeles1

SCA7: Association Between Intraoperative Jugular Venous Congestion and Postoperative Delirium
Yafen Liang, MD1; Jennifer Morse, MS1; Matthew Shotwell, PhD1; Jason O’Neal, MD1; Andrew Shaw, MB FCCM FRCA1; Frederic Billings, MD1; Vanderbilt University Medical Center1

SCA8: New-Onset Atrial Fibrillation and Chronic Atrial Fibrillation, and the Risk of Stroke in Post-Cardiac Surgery Patients
Zongbin Li, MD; Weiling Liu, BSc1; Sophia Chew, MBBS MMED FANZCA2; Lian Kah Ti, MBBS3; National University of Singapore3; Singapore General Hospital3; National University Hospital3

Best of Meeting Oral Abstract Presentations: Session 2

Monday, April 4, 3:30–5:30 pm

Seaport F (2nd Level)

SCA9: Effects of Delayed, Remote Ischemic Preconditioning on Perioperative Myocardial Injury in Patients Undergoing Cardiac Surgery—A Randomized, Controlled Trial
Susie Yoon, MD1; Tae Kyong Kim, MD1; Ho-jin Lee, MD1; Jeong Jin Min, MD1; Youn Joung Cho, MD1; Deok Man Hong1; Yunseok Jeon, MD1; Jae-Hyon Bahk, MD1; Seoul National University Hospital1

SCA10: Comparison of Propofol/Opioid vs. Dexmedetomidine for Sedation in Transfemoral TAVI Regarding Perioperative Gas Exchange and Catecholaminergic Use
Patrick Mayr, MD1; Gunther Wiesner, MD PhD1; Thomas Ried, MD1; Jürgen Knorr, MD1; Peter Tassani-Prell, MD Prof1; Martin Klaus, MD PhD1; Deutsches Herzzentrum München, TUM1

SCA11: Comparing Preoperative Measures and Postoperative Outcomes in Diabetic versus Nondiabetic Cardiac Surgery Patients
Ziyad Knio, BS1; Eitezaz Mahmood, BA2; Mario Montealegre-Gallegos, MD1; Rabya Saraf, BA1; Robina Matyal, MD1; Feroze Mahmood, MD FASE1; Beth Israel Deaconess Medical Center1; Feinberg School of Medicine, Northwestern University2

SCA12: Tricuspid Annulus: a Geometric and Temporal Analysis
Ziyad Knio, BS1; Bilal Chaudary, MD MBA1; Jelliffe Jeganathan, MD1; Lu Yeh, MD1; Mario Montealegre-Gallegos, MD1; Rabya Saraf, BA1; Kamal Khabbaz, MD1; Robina Matyal, MD1; Feroze Mahmood, MD FASE1; Beth Israel Deaconess Medical Center1

SCA13: Risk Factors for Stroke Following Coronary Artery Bypass Graft Surgery
Eitezaz Mahmood, BA1; Ziyad Knio, BS1; Rabya Saraf, BA2; Mario Montealegre-Gallegos, MD1; Feroze Mahmood, MD FASE1; Robina Matyal, MD1; Feinberg School of Medicine, Northwestern University1; Beth Israel Deaconess Medical Center2

SCA14: Expression Quantifying Trait Loci Analysis of Genes and Variants Associated with Atrial Fibrillation
Martin Sigurdsson, MD PhD1; Mahyar Heydarpour, PhD1; Louis Saddic, MD PhD1; Tzau-Wang Chang, PhD1; Stanton Sherran, MD FAHA FASE1; Prem Shekar, MD1; Sary Aranki, MD1; Gregory Couper, MD1; Jochen Muehlschlegel, MD MMSc FAHA1; Simon Body, MBChB MPH FAHA1; Brigham and Women’s Hospital1

SCA15: Gender-Specific Cardioprotective Effects of Annexin-A1 Bioactive Peptide Involve the Sirtuin-3 Signaling Pathway
Zhiquan Zhang, PhD1; Qing Ma, MD1; Alina Nicoara, MD FASE1; Quentin Quinones, MD PhD1; Matthew Hirschey, PhD1; Mihai Podgoreanu, MD FASE1; Duke University Medical Center1
Seaport AB (2nd Level)

**SCA16:** Mast Cell Activation and Acute Kidney Injury Following Coronary Artery Bypass Grafting Requiring Cardiopulmonary Bypass
Bradford Berndt, MD; Miklos Kertai, MD PhD; Joseph Mathew, MD; Wenjing Qi, PhD; Yi-Ju Li, PhD; Jorn Karhausen, MD; Duke University Health System

**SCA17:** How Much Is a 14-Gauge Intravenous Catheter Worth? Micropuncture Kits for Peripheral Vein Access
Michael Bowman, DO; Luiz Maracaja Neto, MD; Olabode Ogunwole, MD; University of Texas Health Science Center, San Antonio

**SCA18:** Coactivation of Cardiac Mitochondrial Biogenesis after Syngeneic Heterotopic Mouse Heart Transplantation
Anne Cherry, MD; Kris Porter, BS; Hagir Suliman, DVM PhD; Jun Wang, MD PhD; Linda Cendales, MD; Allan Kirk, MD PhD; Claude Piantadosi, MD; Duke University Medical Center

**SCA19:** Thoracic Epidural Anesthesia Prevents Ventricular Arrhythmias by Reducing Dispersion of Repolarization and Electrical Restitution During Myocardial Ischemia
Kimberly Howard-Quijano, MD MS; Kentaro Yamakawa, MD; Tatsuo Takamiya, MD; Wei Zhou, PhD FAHA; Jeff Ardell, PhD; Kalyanam Shivkumar, MD PhD; Aman Mahajan, MD PhD; University of California, Los Angeles

**SCA20:** Incidence of Acute Kidney Injury Following Heart Transplantation
Adam Kretzer, MD; Mary Cooter, MSc; Mark Stafford-Smith, MD CM FASE FRCP; Raquel Bartz, MD; Chetan Patel, MD; Carmelo Milano, MD; Alina Nicoara, MD FASE; Duke University Medical Center

**SCA21:** Epinephrine Exposure May Enhance Inflammation Related Gene Expression Changes in Cultured Cardiomyocytes
Henry Liu, MD; Lisa Sangkum, MD; Geoffrey Liu, BA; Farshad Rashidian, DO; Waqas Anjum, MD; Rayhan Tariq, MD; Michael Green, DO; Marilyn Li, MD; Alan Kaye, MD PhD; Drexel University College of Medicine; University of Pennsylvania School of Medicine; LSU School of Medicine

**SCA22:** Heart-Specific Release of Immune Mediators During Surgical Ischemia-Reperfusion and Their Association with Postoperative Adverse Outcomes
Ying Hui Low, MD; Yi-Ju Li, PhD; Aslan Turer, MD; Jingzhu Zhou, BS; Quintin Quinones, MD PhD; Mihai Podgoreanu, MD FASE; Duke University Hospital; UT Southwestern

**SCA23:** Sirtuin-3 Ablation Results in Sexual Dimorphism of Cardiac Dysfunction Following Ischemia-Reperfusion
Qing Ma, MD; Alina Nicoara, FASE MD; Zhiqian Zhang, PhD; Quintin Quinones, MD PhD; Matthew Hirschey, PhD; Mihai Podgoreanu, MD FASE; Duke University Medical Center

**SCA24:** Propofol Confers Postconditioning Cardioprotection Against Myocardial Ischemia Reperfusion Injury via Modulation of Caveolin1/Endothelial Nitric Oxide Synthase Interaction
Xiaowen Mao; Gordon Wong, MBBS BSc Med MD; Michael Irwin, MD; Paul M. Vanhoutte; Qingquan Lian; Zhengyuan Xia, MD PhD; The Second Affiliated Hospital & Yuying Children’s Hospital of Wenzhou Medical University

**SCA25:** Proteomic Profiling and Multicolor Flow Cytometry Reveal Tissue Compartment Specific Differences in Innate Immunity, Susceptibility to Injury, and Response to Surgical Ischemia-Reperfusion Between Rats and Arctic Ground Squirrels
Quintin Quinones, MD PhD; Qing Ma, MD; Michael Smith, MS; Janet Staats, BS; Cliburn Chan, MBBS PhD; Kent Weinhold, PhD; Brian Barnes, PhD; Mihai Podgoreanu, MD FASE; Duke University Medical Center; University of Alaska

**SCA26:** Decreasing Force Development in Hypercontractile Cardiac Muscles by Propofol: Potential Implications to Treat Heart Diseases with Hypercontractile States
Xianfeng Ren; Tao Meng, MD; Kellie Wolf, BS; Weiming Bu, PhD; Xinzhong Chen, MD; Chenghui Li, MD; Theodore Abraham, MD; Roselle Abraham, MD; Roderic Eckenhoff, MD; Wei Dong Gao, MD; China-Japan Friendship Hospital; Huazhong University of Science and Technology, Union Hospital; University of Pennsylvania, School of Medicine; Johns Hopkins University

**SCA27:** Long Noncoding RNA Profile of the Acute Ischemic Human Heart
Louis Saddic, MD PhD; Tzuu-Wang Chang, PhD; Martin Sigurdsson, MD PhD; Mahyar Heydarpour, PhD; Stanton Sherman, MD FAHA FASE; Sary Aranki, MD; Christine Seidman, MD; Jon Seidman; Simon Body, MBChB MPH; Jochen Muehlischlegel, MD MMSc FAHA; Brigham and Women’s Hospital

**SCA28:** Expression of MicroRNA in the Left Atrium of Patients With and Without Post-Operative Atrial Fibrillation after Cardiac Surgery
Martin Sigurdsson, MD PhD; Mahyar Heydarpour, PhD; Louis Saddic, MD PhD; Tzuu-Wang Chang, PhD; Stanton Sherman, MD FAHA FASE; Prem Shekar, MD; Sary Aranki, MD; Gregory Couper, MD; Jochen Muehlischlegel, MD MMSc FAHA; Simon Body, MBChB MPH FAHA; Brigham and Women’s Hospital

**SCA29:** A Genome-Wide Association Study of Aortic Stenosis in Patients with Bicuspid Aortic Valve Disease
Jan Sliva, MD; Mahyar Heydarpour, PhD; Vanessa Monteiro-Vieira, BSc; Karam Habchi, BSc; Martin Sigurdsson, MD PhD; Jochen Muehlischlegel, MD MMSc FAHA; Peter Martin, BA; Prem Shekar, MD; Eric Isselbacher, MD; Thor Sundt, MD; Simon Body, MBChB MPH FAHA; Brigham and Women’s Hospital; Massachusetts General Hospital
SCA30: Systemic Inflammatory Response Following Percutaneous Coronary Intervention PCI: As a Part of Hybrid Procedure in Comparison to Primary Percutaneous Coronary Intervention Alone
Kumar Vivek, MD1; Galina Leyvi, MD1; Sankalp Sehgal, MD2; Kea Moncada, BA1; Nancy Shilian; Adrienne Warrick, MD2; Jonathan Leff, MD1; Montefiore Medical Center1; Hahnemann Hospital2; University of Florida3

SCA31: The Cost of a Cardiothoracic Surgery Team’s Presence during Transcatheter Aortic Valve Deployment
Jacob Martin, MD1; Alexander Mayhew, BS1; Ari Bensimhon, MD2; Borzoo Farhang, DO1; Mitchell Tsai1; University of Vermont Medical Center1

Wendy Gross, MD1; Charles Nyman, MBChB1; Margaret Stevenson, MD1; Alan Enriquez, MD1; Douglas Shook, MD FASE1; Brigham and Women’s Hospital1; Yale University2

SCA33: General Anesthesia vs. Local Anesthesia and Conscious Sedation for Transfemoral Aortic Valve Implantation: A British Single-Center Comparison
Lachlan Miles, MBBS1; Kaustuv Joshi, MBBS(Hons)2; Andrew Klein, MBBS FRCA FFICM2; Elizabeth Ogilvie, MBBS FRCA3; Guillermo Martinez, MD1; Joanne Irons, MBChB MRCP FRCA PG DipCU2; Papworth Hospital NHS Foundation Trust1; University of Cambridge2; Barts Heart Centre3

SCA34: Our Cath Lab Experience Using Monitored Anesthesia Care MAC: vs. General Anesthesia for Transfemoral Aortic Valve Replacement (TAVR)
Joseph Sanders, MD1; Lebron Cooper, MD1; Kimberly Nicol, DO1; Michael Isley, MD1; Vanda Amelitti, MSIE1; Seyed Mani Marashi, PhD Candidate1; Henry Ford Hospital1; University of Tennessee College of Medicine1; Wayne State University2

SCA35: Retrospective Comparison of Sedation vs. General Anesthesia in a Goal-Directed Transfemoral Transcatheter Aortic Valve Replacement Pathway
Huan Wang, MD1; Douglas Shook, MD FASE2; Pinak Shah, MD1; Tsuyoshi Kaneko, MD1; Stanton Shernan, MD FAHA FASE2; Wendy Gross, MD1; Chuan-Chin Huang, Sc D1; Charles Nyman, MBChB1; Brigham and Women’s Hospital1

SCA36: Ultrasound Imaging of Thoracic Duct in Patients with Different Levels of Left Ventricular Ejection Fraction
Nawar Al-Rawas, MD1; Alina Nicoara, MD1; Raquel Bartz, MD MMCI1; Duke University Medical Center1

SCA37: Aortic Root Rupture During Transcatheter Aortic Valve Replacement
Nikola Bradic, MD1; Daniel Unic, MD1; Andrej Sribar, MD1; University Hospital Dubrava1

SCA38: Intracardiac Metastasis of Germ Cell Tumor
Reginald Bulkley, MD1; Michael Kopec, MD1; Andrea Reidy, MD1; Southern Illinois School of Medicine1; Baylor College of Medicine2

SCA39: Synthetic Stimulants Reaching Epidemic Proportions: A Case of Flakka-Induced STEMI
Shane Cherry, MD1; Yliam Rodriguez-Blanco, MD2; University of Miami/JHS1; University of Miami2

SCA40: Anesthesia Considerations for Da Vinci CABG
Mark Davis, MD1; Danny Ramzy, MD PhD1; Manxu Zhao, MD1; Cedars Sinai Medical Center1

SCA41: When You Hear Hoofbeats and It Really Is a Unicorn: Evaluation of the Unicuspid Aortic Valve and Its Associated Anomalies
Meredith Degnan, MD1; Shane Cherry, MD1; Guillermo Garcia, MD1; University of Miami/JHS1; Miami Beach Anesthesiology Associates2

SCA42: Avoidance of Transfusion in Stanford Type A Dissection: The Role of Thromboelastography
Adam Eslick, MBBS(Hons) BMedSc FANZCA PGDipCU; Jonathan Trinh, BMBS(Hons) BMedSc; Monika Kenig, BMed FANZCA; Westmead Hospital1

SCA43: Influenza: Extra-Corporeal Membrane Oxygenation and Mechanical Circulatory Support: A Single Center; 2-Year Case Series
Shawn Hansberry, MD1; Quintin Quinones, MD PhD1; Nathan Waldron, MD1; Rachael Mintz Cole, MD PhD1; Mani Daneshmand, MD1; Cameron Wolfe, MBBS MPH1; Raquel Bartz, MD, MMC1; Mary Cooter, MSc1; Duke University Hospital1

SCA44: Circulatory Support for Ventricular Tachycardia Ablations: A Case Series
Walead Hessami, MD1; John Fox, MD1; James Abernathy, MD FAHA FASE MPH1; Timothy Heinke, MD1; George Whitener, MD1; Alan Finley, MD1; Eric Nelson, DO1; George Guldean, MD1; Medical University of South Carolina1

SCA45: Delayed Phrenic Nerve Palsy in Supracavitrical Block in a Patient with Chronic Heart Failure
Steven Miller, MD1; Albert Yen, MD1; Columbia University1; Columbia University Medical Center2

SCA46: Massive Cardiac Thrombosis: An Unusual Presentation of Disseminated Intravascular Coagulopathy
Basma Mohamed1; Laurie Davies, MD1; University of Florida1

SCA47: Intraoperative Transesophageal Echocardiography Identifies Nonseminomatous Germ Cell Tumor Thrombus Dislodged from Superior Vena Cava into Right Ventricle
Teresa Moon, MD1; Chuan-Chin Huang, Sc D1; Charles Nyman, MBChB1; Brigham and Women’s Hospital1

SCA48: Retrograde Aortic Dissection Progression after Discontinuation of Femoro-Femoral Cardiopulmonary Bypass
Mina Oftadeh, DO1; Pierre LeVan, MD1; Chad Talarek, MD1; Jenny Kwak, MD1; Jayanta Mukherji, MBBS1; Loyola University Medical Center1

SCA49: Device Embolization: A Rare Complication of Percutaneous Mitral Valve Edge-to-Edge Repair
Daniela Orza, MD1; Ernesto Ruiz-Rodriguez, MD2; Emil Missov, MD PhD1; Joanna Apostolidou, MD1; Gregory Helmer, MD2; Gladwin Das, MD2; University of Illinois at Chicago1; University of Minnesota2
SCA50: Surgical Revascularization after Myocardial Infarction Due to Coronary Artery Aneurysm Thromboembolism
Lindsay Raleigh, MD1; William Jun, MD MS1; Stanford Hospitals and Clinics1

SCA51: Spinal Cord Edema and Reversible Paralysis Following Open Thoracoabdominal Aortic Aneurysm Repair
Jasmine Ryu, DO1; Mohamed Elhab Ramadan, MD1; Esmerina Tili, PhD1; Juan Crestanell, MD1; Hamdy Awad, MD1; The Ohio State University, Wexner Medical Center1

SCA52: Perioperative Outcomes after Watchman Left Atrial Appendage Occlusion Device: A Case Series
Kara Siegrist, MD1; Robert Deegan, BCh MD PhD1; Mias Pretorius, MBCHB1; Jeremy Bennett, MD1; Vanderbilt University Medical Center1

SCA53: 3D Echocardiography Optimally Guides Pulmonary Vein Stenting in Acquired Adult Pulmonary Vein Stenosis
Jan Sliva, MD1; Piotr Sobieszczyn, MD1; Douglas Shook, MD FASE1; Dirk Varellmann, MD DESA EDIC1; Brigham and Women’s Hospital1

SCA54: Transthoracic Echocardiography for Evaluation of Aortic Insufficiency in Patients Undergoing Transcatheter Aortic Valve Replacement under Monitored Anesthesia Care
Rishi Vashishtha, MD1; Ryan Potosky, MD1; Peter Neuberger, MD1; NYU Langone Medical Center1

SCA55: Intracardiac Thrombosis Associated With Cardiopulmonary Bypass: Index Case and Review of Case Reports
Brittney Williams, MD1; Andrew Crabbe, MD1; Zachary Kon, MD1; Michael Mazzeffi, MD MPH1; Kenichi Tanaka, MD MSc1; University of Maryland1

SCA56: Elevated Transvalvular Gradients after Aortic Valve Replacement and the Utility of the Dimensionless Index
Greg Yerington, MD1; Katja Turner, MD1; Michael Essandoh, MD1; Ohio State University, Wexner Medical Center1

SCA57: Is Veno-Venous Extracorporeal Membrane Oxygenation Appropriate for Acute Respiratory Distress Syndrome Requiring Hemodynamic Support?
Jeongae Yoon, MD1; William Vernick, MD1; Jacob Gutsche, MD1; John Augoustides, MD1; FASE FAHA1; Ronak Shah, MD1; Hospital of the University of Pennsylvania1

SCA58: Do D-dimer Levels Predict Mortality in Patients with Mechanical Circulatory Support in the Cardiothoracic ICU?
Hassan Amhaz, MD MS1; Ian Welsby, MBBS1; Kamrouz Ghadimi, MD1; Rachel Bartz, MD MMS1; Jerrold Levy, MD FAHA FCCM1; Duke University Medical Center1

SCA59: High Ratios of Red Blood Cells to Fresh Frozen Plasma Are Associated With Increased Mortality in Massively Transfused Cardiac Surgery Patients
Evon Chriss, MD1; Kenichi Tanaka, MD MSc1; James Gammie, MD1; Michael Mazzeffi, MD MPH1; University of Maryland1

SCA60: Estimating Transfusion Risk in Patients Undergoing Aortic Valve Replacement: A Predictive Model
Hannah Dahn, BSc1; Karen Buth, MSc1; Jahanara Begum, MSc1; Jean-Francois Legare, MD1; Matthias Scheffler, MD1; Dalhousie University1

SCA61: The Use of Recombinant Factor VIIa in Congenital Cardiac Patients Increases Thromboembolic Risk: A Propensity-Matched Study
Laura Downey, MD1; Morgan Brown, MD1; David Faraoni, MD PhD1; David Zurakowski, PhD MS1; James DiNardo, MD1; Stanford University1; Boston Children’s Hospital2

SCA62: Outcomes in Blood Refusal Patients Undergoing Cardiac Surgery and Receiving Erythropoietin Compared to Patients who did not: A Case-Matched Study
Lois Duce, MD1; Mary Cooter, MSc1; Sharon McCartney, MD1; Frederick Lombard, MBChB FANZCA1; Nicole Guinn, MD1; Duke University1

SCA63: Fibrinogen Targets and Transfusion after Cardiopulmonary Bypass
W. Jonathan Dunkman, MD1; Kamrouz Ghadimi, MD1; Ishwori Dhakal, MS1; Jacob Schroder, MD1; Jerrold Levy, MD FAHA FCCM1; Ian Welsby, MBBS1; Duke University Medical Center1

SCA64: Can Prothrombin Time, Fibrinogen, and Platelet Values During Cardiopulmonary Bypass Be Used to Predict Postbypass Levels?
Eduardo Goenaga Diaz, MD1; Zachary Glicksman, MD1; Andrew Voris, MD1; Douglas Ririe, MD PhD1; Roger Royster, MD1; Wake Forest University Baptist Medical Center1

SCA65: Three Factor Prothrombin Complex Concentrates for Bleeding in Cardiac Surgery: A Novel Algorithmic Approach
Nazish Hashmi, MD1; Eric Ehieli, MD1; Kamrouz Ghadimi, MD1; Jacob Schroder, MD1; Jerrold Levy, MD FAHA FCCM1; Ian Welsby, MBBS1; Duke University Medical Center1

Simon Kigwana, BA1; Robert Schonberger, MD MHS1; Adambeke Nwozuzu, MD1; Miriam Mascarenhas Monteiro1; Dai Feng1; Daniel Kinney, MD1; Miklos Kertai, MD PhD1; Karen Conway, MBA BSN RN CCRP1; Michael Dewar, MD1; Susan Garwood, MD1; Roberta Hines; Manuel Fontes, MD1; Yale University1

SCA67: Pattern of Postoperative Nadir Hemoglobin; Recovery of Anemia; and Associated Transfusion in Off Pump CABG vs. Standard ONCAB Surgery
Simon Kigwana, BA1; Michael Dewar, MD1; Adambeke Nwozuzu, MD1; Miriam Mascarenhas Monteiro1; Dai Feng1; Daniel Kinney, MD1; Robert Schonberger, MD MHS1; Irena Vaitkeviciute, MD1; Karen Conway, MBA BSN RN CCRP1; Umer Darr, MD1; Roberta Hines; Manuel Fontes, MD1; Yale University1
SCA68: Supplemental Antithrombin is Effective in Achieving Adequate Anticoagulation in Infants and Children with an Inadequate Response to Heparin
Mathew Lopez, MD; Michael Eaton, MD; University of Rochester Medical Center

SCA69: Evaluation of Hemosep® Cell Salvage Device in Cardiac Surgical Patients
Roofa Mushtaq, MD FRCA; Vijay Jeganath; Adrian Levine; University Hospitals of North Midlands

SCA70: Extracellular Histones: Potential Implications in the Coagulopathy and Renal Dysfunction of Cardiopulmonary Bypass
Daryl Reust, MD; Ravi Keshari, PhD; Florea Lupu, PhD; Hayden Miller, CCP LP; University of Oklahoma Health Sciences Center; Oklahoma Medical Research Foundation

SCA71: Can the Dose of Heparin be Decreased in Obese and Morbidly Obese Patients for Cardiopulmonary Bypass?
Bassem Saad, MD; John Thurston; Jennie Ngai, MD; New York University Medical Center

SCA72: Thrombocytopenia as Etiology of Bleeding Associated with Veno-Venous ECMO
Ronak Shah, MD; Todd Miano, PharmD MSCE; Rebekah Williams, BS; Yianni Augoustides, MD FASE FAHA; Zev Noah Kornfield, MD; Jacob Gutsche, MD; Hospital of the University of Pennsylvania; WUSTL School of Medicine

SCA73: Perioperative Hypocoagulability as Assessed by ROTEM Test is an Independent Predictor of Adverse Outcome Following Off-Pump Coronary Bypass Surgery
Sarah Soh, MD; Jae Kwang Shim, MD PhD; Young Lan Kwak, MD PhD; Yonsei University College of Medicine

SCA74: The Effects of Two Different Red Blood Cell Transfusion Thresholds on Short-Term Clinical Outcomes of Patients Undergoing Aortic Surgery with Deep Hypothermic Circulatory Arrest
Yongyuan Wang, MD; Hongwen Ji, MD; Fu Wai Hospital

SCA75: Perioperative Hypocoagulability as Assessed by ROTEM Test is an Independent Predictor of Adverse Outcome Following Off-Pump Coronary Bypass Surgery
Sarah Soh, MD; Jae Kwang Shim, MD PhD; Young Lan Kwak, MD PhD; Yonsei University College of Medicine

SCA75: Postoperative Anticoagulation and Impact of Left Ventricular Assist Device Thrombosis Within 1 Year: A Single-Center, Retrospective, Observational Study
Sarah Witt, MD; Ian Welsby, MBBS; Ishwori Dhakal, MS; Chetan Patel, MD; Carmelo Milano, MD; Kamrouz Ghadimi, MD; Duke University Medical Center
Scientific Abstracts and Posters

Scientific Poster Session 2: Echocardiography-3D. Echocardiography-Other

Monday, April 4, 12:30–1:30 pm

Seaport AB (2nd Level)

SCA76: Comparison of Cardiac Output Measurement Using 2- and 3-Dimensional Transesophageal Echocardiography with Transpulmonary Thermodilution During Cardiac Surgery
David Canty, MD1; Colin Royse, MD2; Ranjan Guha, MBCHB FRCA1; Tuan Pham, MBBS BMedSc(Hons)2; Martin Kim, FANZCA Diplomate NBE1; Melbourne Hospitals University of Melbourne1; University of Melbourne2; Royal Melbourne Hospital3; Monash Health4

SCA77: Three-Dimensional vs. Two-Dimensional Echocardiographic Assessment of Mitral Valve Stenosis
Sergey Karamnov, MD1; Nelson Burbano-Vera, MD1; Rosemary Uzomba, MD MPH2; John Fox, MD1; Stanton Sherman, MD FAASE1; Brigham and Women’s Hospital1

SCA78: Does 3D TEE Offer an Advantage Over PA Catheter Thermodilution in Measuring Cardiac Output?
Daniel Kinney, MD1; Jamel Ortoleva, MD1; Manuel Fontes, MD1; Trevor Banack, MD1; Yale University1

SCA79: Hemodynamic Testing of Patient-Specific Mitral Valves Using a Pulse Duplicator: An Introduction to Technology
Ziyad Knio, BS1; Stefan Ianchulev, MD1; Fredrick Cobey, MD MPH1; Anthony Fotiadis, MD2; Brandon Bravo Bruinsma, MD PhD1; Wouter Jansen Klomp, MD1; Clinical Epidemiologist1

SCA80: Intraoperative Right Ventricular Ejection Fraction Measured by Three-Dimensional Echocardiography Predicts Mortality Following Tricuspid Valve Surgery
Gabriela Queirejeta Roca, MD1; Ross Hanson, MD1; Jamahal Luxford, MBChB1; Kerry Wilusz, BA1; Anna Purcell BS1; Carolyn Butler, MD1; Jochen Muehlschlegel, MD1; Melbourne Hospitals University of Melbourne1; University of California, Los Angeles1

SCA81: Dynamism of the Tricuspid Annulus
Alexander Woltersom, BS1; Ziyad Knio, BS1; Robina Matyal, MD1; Rabya Saraf, BA1; Jelliffe Jeganathan, MD1; Feroze Mahmood, MD FASE1; Robina Matyal, MD1; Kamal Khabbaz, MD1; Beth Israel Deaconess Medical Center1

SCA82: Three-Dimensional (3D) Transesophageal Echocardiographic TEE: Assessment of Mitral Valve Repair using a Simple-T Annuloplasty Band on Mitral Valve Annular Geometry: A Retrospective, Observational Study
Nayer Youssef, MD FRCP1; David Orlov, MD1; Paaladinesh Thavendiranathan, MD MSc FRCP2; Tirone David, MD1; Massimiliano Meineri, MD1; McMaster University1; University of Toronto1; Toronto General Hospital1

SCA83: Doppler and Strain Based Assessment of Diastolic Function in Cardiac Surgical Patients: Intraoperative Comparison of Transthoracic and Transesophageal Echocardiography
Christopher Aldrich, MD1; Reed Harvey, MD1; Kimberly Howard-Quijano, MD MS1; Einat Mazor, BA RDACS1; Jennifer Scovotti, MA1; Aman Mahajan, MD PhD1; University of California, Los Angeles1

SCA84: Differential Impact of Temporal Variation on Measurements of Effective Mitral Regurgitant Orifice Area in Functional vs. Degenerative Disease
Nelson Burbano, MD1; Tom Edrich, MD2; Phebe Ko, MD3; Chuan-Chin Huang, ScD1; John Fox, MD1; Douglas Shook, MD FASE1; James Hardy, MBBS1; Frederick Cobey, MD MPH FASE1; Stanton Sherman, MD FAHA FASE1; Brigham and Woman’s Hospital1; General Hospital Landkreis Erding2; California Pacific Medical Center1; Tufts Medical Center4

SCA85: Comparison of Practical and Interpretive Focused Cardiac Ultrasound Learning Outcomes Between a Self-Directed Simulator and Traditional Live Model Course
David Canty, MD1; Colin Royse, MD1; Jennifer Barth, MD1; Yang Yang, MBBS FCICM1; Martin Kim, MBBS FANZCA PETXAM PG Masters Echo2; Melbourne Hospitals University of Melbourne1; University of Melbourne3

SCA86: Use of Transesophageal Echocardiography for the Prediction of Severe Right Heart Failure Following LVAD Implantation
Brian Gebhardt, MD MPH1; Fredrick Cobey, MD MPH FASE1; Ankit Jain, MBBS1; Stefan Ianchulev1; Tufts Medical Center1

SCA87: Regional Alteration in Three Dimensional Left Ventricular Myocardial Deformation Following Cardiac Surgery Is Independent Predictor of Postoperative Outcomes
Andrew Ghobrial, MD1; Kimberly Howard-Quijano, MD MS1; Emily Methangkool, MD1; Einat Mazor, BA RDACS1; Jennifer Scovotti, MA1; Aman Mahajan, MD PhD1; University of California, Los Angeles1

SCA88: Right Ventricular Strain Associated with Failure to Separate from Cardiopulmonary Bypass
Ross Hanson, MD1; Gabriela Queirejeta Roca, MD1; John Fox, MD1; Jochen Muehlschlegel, MD MMS FASE1; Dirk Varelmann, MD1; MD DESA EDIC1; Brigham and Women’s Hospital1

SCA89: Left Ventricular Assist Devices Thrombosis is Associated with an Increase in the Systolic to Diastolic Velocity Ratio Measured at the Inflow and Outflow Cannulas Using Transesophageal Echocardiography
Ankit Jain, MBBS1; Brian Gebhardt, MD1; Benjamin Rohrer, MD1; Frederick Cobey, MD MPH FASE1; Tufts Medical Center1

SCA90: Effectiveness of the Implementation of Modified Transesophageal Echocardiography on Mortality and Stroke after Cardiac Surgery—A Large Cohort Study
Wouter Jansen Klomp, MD; Clinical Epidemiologist1; George Brandon Bravo Bruinsma, MD PhD1; Jan Grandjean, MD PhD2; Arnoud van’t Hof1; Arno Nierich, MD PhD2; Tom Edrich, MD1; Anto van’t Hof1; arno Nierich, MD PhD2; Isala, Zwolle, the Nether 1and1; University of Twente; the Netherlands2

SCA91: TransEsophageal Echocardiography TTE: demonstrating More Depression of Left Ventricular Systolic Function Than Right Ventricular Systolic Function Under General Anesthesia
Yenabi Keflemariam, MD1; Terrie Vasilopoulos, PhD2; Yong G. Peng, MD PhD FASE1; University of Florida1
SCA92: Left Atrial Membrane: Cor Triatriatum; Supravalvular Mitral Ring; or Artifact? Daniel Kinney, MD; Manuel Fontes, MD; Irena Vaitkeviciute, MD; Yale University

SCA93: Left Ventricular Twist is Not Immediately Affected by Aortic Valve Replacement Nikhil Kumar, MD; Andra Duncan, MD MS; Cleveland Clinic

SCA94: Evaluation of Echocardiographic Parameters in Patients with Hypertrophic Cardiomyopathy Undergoing Septal Myectomy With and Without Mitral Valve Intervention Oscar Lopez, MD; Spencer Drotman, MD; Robert Nampiaparampil, MD; New York University Langone Medical Center

SCA95: Layer Specific Longitudinal Strain is Superior to Circumferential Strain for Detection of Acute Ischemia Melissa McCabe, MD; Kimberly Howard-Quijano, MD MS; Wei Zhou, PhD FAHA; Alexander Cheng, MD; Jennifer Scovotti, MA; Einat Mazor, BA RDCS; Aman Mahajan, MD PhD; University of California, Los Angeles

SCA96: 3D-Printed, CT-Based, Low-Cost, Open-Source, Heart Model for Teaching Focused Cardiac Ultrasound Views Massimiliano Meineri, MD; Joshua Qua Hiansen, MSc; Stephanie Zhou, BSc; Eitan Aziza, MD Candidate; Matt Ratto, PhD; Azad Mashari, MD FRCP; University of Toronto

SCA97: Abbreviated Multimodal Point-of-Care Ultrasound Training in Surgery Interns Mario Montalegre-Gallegos, MD; Azad Mashari, MD FRCP; Lu Yeh, MD; Romina Ilic, MD; Ruma Bose, MD; Kiran Belani, MD; Vanessa Wong, BS; Tara Kent, MD FACS; John Mitchell, MD; Robinat Matyal, MD; Beth Israel Deaconess Medical Center; Toronto General Hospital

SCA98: As vs. TTE; TEE May Not Always Underestimate the Severity of Mitral Regurgitation Under Anesthesia Lateef Opabola, MD; Terrie Vasilopoulos, PhD; Yong Peng, MD PhD FASE; University of Florida

SCA99: Moderate Aortic Valvular Insufficiency Falsely Elevates Vortex Formation Time in Patients with Calcific Degenerative Aortic Stenosis Undergoing Aortic Valve Replacement Paul Pagel, MD PhD FACC; Julie Freed, MD PhD; Brent Boettcher, DO; Derek De Vry, MD; Clement J. Zablocki VA Medical Center

SCA100: Intraoperative Assessment of Myocardial Function by 2D Transesophageal Echocardiography Strain Imaging in Cardiac Patients Post-Chest Closure Ivana Radeva, MD; Kimberly Howard-Quijano, MD MS; Einat Mazor, BA RDCS; Jennifer Scovotti, MA; Aman Mahajan, MD PhD; University of California, Los Angeles

SCA101: Qualitative Evaluation of Right Ventricular Function by Cardiac Anesthesiologists: Are We Speaking the Same Language? Meggie Raymond, MD FRCP; Diem Tran, MD MSc; Stephane Lambert, MD FRCP; Bernard McDonald, MD PhD FRCP; Benjamin Sohmer, MD Med FRCP; University of Ottawa Heart Institute

SCA102: The Performance of Transesophageal Echocardiography on Patients with Esophageal Strictures Johnathan Renew, MD; Arun Subramanian, MD; William Mauer- mann, MD; Kent Rehfeldt, MD FASE; Mayo Clinic Florida; Mayo Clinic Rochester

SCA103: Postoperative Atrial Fibrillation: Predictive Value of Global Longitudinal Strain Obtained by Intraoperative TEE Tiffany Richburg, MD; Ryan Koneske, MD; Wengjing Qi, PhD; Cory Maxwell, MD; Yi-Ju Li, PhD; Attilio Barbieto, MD MPH; Duke University

SCA104: Intraoperative RV Function Before and After Cardiopulmonary Bypass in Patients Undergoing Pulmonary Endarterectomy for Chronic Thromboembolic Pulmonary Hypertension; Preliminary Results Natalie Silverton, MD; Wendy Tsang, MD; Karen McRae; Marc DePerrot, MD; Massimiliano Meineri, MD; University of Toronto

SCA105: The Value of Intraoperative Transesophageal Echocardiography Measures of Right Heart Function and Hemodynamic Variables in Predicting Postoperative Outcome in Patients Undergoing Pulmonary Thromboendarterectomy Bryan Simmons, MD; Timothy Tan, PhD MD FRACP FCSANZ FESC; Massachusetts General Hospital; University of Western Sydney

SCA106: Perioperative Echocardiographic Assessment of Right Ventricular Function: A National Survey William Simpson, MD; Donna Greenhalgh, MBChB FRCA FFICM; Andy Roscoe, MB ChB; Henry Skinner, MBChB FRCA; University Hospital of South Manchester; Papworth Hospital; Nottingham University Hospitals

SCA107: A Comparison of Speckle Tracking Echocardiography to Conventional Methods of Right Ventricular Assessment During General Anesthesia Using Transesophageal Echocardiography Greg Yerington, MD; Michael Essandoh, MD; Ohio State University

SCA108: Assessing Shared Mental Models Among Cardiac Surgery Disciplines: A Multi-Institutional Study Evans Brown, BA; Kathleen Harder, PhD; Joana Apostolidou, MD; Joyce Warh, MD; Douglas Shook, MD FASE; Robert Farivar, MD PhD; Tjorvi Perry, MD MMSc; Mojca Konja, PhD MD; University of Minnesota; Harvard Medical School; Minneapolis Heart Institute

SCA109: Use of Provider Debriefing to Improve Fast-Track Extubation Rates Following Cardiac Surgery at an Academic Medical Center Scott Davis, MD; Jillian Dashiel, MD; Jordan Goldhammer, MD; Thomas Jefferson University Hospital

SCA110: Impact of Cost Conscious Intraoperative Vasodilator Strategy W Jonathan Dunkman, MD; Doug Raiff, PharmD BCPS; Stephen Gregory, MD; Madhav Swaminathan, MD FASE FAHA; Cory Maxwell, MD; Duke University Medical Center
SCA111: Implementation of a Bleeding Management Program in Cardiac Surgery
Alan Finley, MD1; James (Jake) H. Abernathy, MD MPH FASE FAHA1; Eric Nelson, DO1; Timothy Heinke, MD1; George Guldan, MD1; George Whitener, MD1; Medical University of South Carolina1

SCA112: Bundled Care and Quality Improvement in Cardiac Surgery: Results of a Clinical Milestone Valve Pathway
Adam Kingeter, MD1; Chad Wagner, MD1; Fikki Lai, PhD1; Vanderbilt University Medical Center1

SCA113: Utilization of Cerebral and Tissue Oximetry during Transcatheter Aortic Valve Replacement
Paul Loubser, MD1; Ceferino Cruz, BS1; University of Texas Medical School1

SCA114: Regional Variations in Cardiopulmonary Bypass Practice: Results of the Global Cardiopulmonary Bypass Survey
Lachlan Miles, FANZCA MBBS1; Florian Falter, MD FRCA FFICM PhD1; Papworth Hospital NHS Foundation Trust1

SCA115: Postoperative Dysphagia Related to Transesophageal Echocardiography Use and Duration of Surgery
Joseph Miskulin, MD1; Mark Schmidt, MD1; Katie Goergen, MD1; Tara Brakke, FASE MD1; University of Nebraska Medical Center1

SCA116: Blood Transfusion Rate in Pediatric Congenital Cardiac Surgery Patients
Jennie Ngai, MD1; Thomas Beaulieu, CCP1; NYU Langone Medical Center1

SCA117: Imaging of the Superior Vena Cava for Central Line Catheter Positioning
Olabode Ogunwole, MD1; Steven Lindauer, MD1; Luiz Maracaja, MD1; University of Texas Health System Center1

SCA118: A Protective Association Between Aspirin and Acute Lung Injury: A Systematic Review and Meta-Analysis
Waire Oruru, MD MPH1; Rabya Saraf, BA1; Jeffrey Bortman, BS2017; Daawar Chaudhry1; Feroze Mahmood, MD FASE1; Daniel Talmor, MD1; Robina Matyal, MD1; Brigham and Women’s Hospital1; Beth Israel Deaconess Medical Center2

SCA119: The Heart of Education: What Cardiac Anesthesia Can Offer via a Community Outreach Program
Juan Perrone, MD1; Robert Hieronimus, MD1; Yvonne Lai, MD1; Michael Fitzsimons, MD1; Massachusetts General Hospital1

SCA120: Fast-Track General Anesthesia for Patients Undergoing Transfemoral Transcatheter Aortic Valve Replacement Results in Shorter Intensive Care Unit, Hospital Length of Stay, and Lower Cost
Tjorvi Perry, MD MMSc1; Andrew Wilkey, MD1; Matthew Sundblad, MD1; Paul Sorajja, MD1; Robert Farivar, MD PhD1; Craig Strauss, MD MPH1; Andrea Sweeney, MBA1; Abbott Northwestern; Hospital1; Northwest Anesthesia PA1; Minneapolis Heart Institute1

SCA121: A Cardiac Surgery-Specific, Goal-Directed Algorithm Using Stroke Volume Variation Results in Less Variability in Intraoperative Crystalloid Administration: A Pilot Study
Tjorvi Perry, MD MMSc1; Andrew Wilkey, MD1; Matthew Sundblad, MD1; Serina Brueggemann, CRNA1; Judah Askew, MD1; Robert Farivar, MD PhD1; Abbott Northwestern1; Northwest Anesthesia PA2; Minneapolis Heart Institute3

SCA122: Leveraging Rapid-Cycle Formative Assessment to Improve Intraoperative Glucose Control in Cardiac Surgical Patients
Tjorvi Perry, MD MMSc1; Matthew Sundblad, MD1; Andrew Wilkey, MD1; Serina Brueggemann, CRNA1; Robert Farivar, MD PhD1; Craig Strauss, MD MPH1; Pamela Rush, RN MS1; Katherine Foag, MPH1; Dirck Rilla, LP CCP1; Abbott Northwestern Hospital1; Northwest Anesthesia PA2; Minneapolis Heart Institute3; SpecialtyCare4

SCA123: Improving Clinical Performance Transparency in Cardiac Anesthesia
Tjorvi Perry, MD MMSc1; Maiva Lee, BS1; Jason Heuer, CRNA1; Andrew Wilkey, MD1; Matthew Sundblad, MD1; Katherine Foag, MPH1; Pamela Rush, MS RN1; Craig Strauss, MD MPH1; Robert Farivar, MD PhD1; Abbott Northwestern Hospital1; Northwest Anesthesia PA2; Minneapolis Heart Institute3

SCA124: Transesophageal Echocardiography Complications in Adult Cardiac Surgery: A Retrospective Cohort Study
Razvan Purza, BSc1; Subhamay Ghosh, MD PhD1; Chris Walker, MBCHB1; Brett Hibbert, MSc2; Lillian Koley, RN BHScN3; Hilary Grocott, MD FASE FRCP1; College of Medicine, University of Manitoba; Glangwili General Hospital1; Southern District Health Board; Winnipeg Regional Health Authority4

SCA125: Preventing Hypothermia in Transcatheter Aortic Valve Replacement
Benjamin Rohrer, MD1; Brian Kelly, DO1; Hocine Tighiouart, MS1; Fred Cobey, MD MPH FASE1; Stefan Ianchulev, MD1; Tufts Medical Center1

SCA126: Obesity and Positioning-Related Neuropathies in Cardiac Surgery Patients
Mark Schmidt, MD1; Katie Goergen, MD1; Joseph Miskulin, MD1; Tara Brakke, MD FASE1; University of Nebraska1

SCA127: Enhanced Recovery in Cardiac Surgery Leads to Shorter Post-Operative Hospital Length of Stay
Thomas Varughese, FFICM FRCA MBBS1; Gillian Hardman, MRCS MBBS BSc1; Helen Saunders, MBCHB FRCA1; Amal Bose, MD1; Antony Walker, MD MBCh FRCSCTh1; South Manchester University Hospital National Health Service Foundation1; Health Education Northwest; Lancashire Cardiac Centre; Blackpool NHS Foundation Trust1; National Health Service5

SCA128: Implementation of a Bleeding Management Program in Cardiac Surgery
Alan Finley, MD1; James (Jake) H. Abernathy, MD MPH FASE FAHA1; Eric Nelson, DO1; Timothy Heinke, MD1; George Guldan, MD1; George Whitener, MD1; Medical University of South Carolina1

SCA129: Bundled Care and Quality Improvement in Cardiac Surgery: Results of a Clinical Milestone Valve Pathway
Adam Kingeter, MD1; Chad Wagner, MD1; Fikki Lai, PhD1; Vanderbilt University Medical Center1

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Paul Loubser, MD1; Ceferino Cruz, BS1; University of Texas Medical School1

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Lachlan Miles, FANZCA MBBS1; Florian Falter, MD FRCA FFICM PhD1; Papworth Hospital NHS Foundation Trust1

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Jennie Ngai, MD1; Thomas Beaulieu, CCP1; NYU Langone Medical Center1

SCA134: Imaging of the Superior Vena Cava for Central Line Catheter Positioning
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SCA135: A Protective Association Between Aspirin and Acute Lung Injury: A Systematic Review and Meta-Analysis
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SCA136: The Heart of Education: What Cardiac Anesthesia Can Offer via a Community Outreach Program
Juan Perrone, MD1; Robert Hieronimus, MD1; Yvonne Lai, MD1; Michael Fitzsimons, MD1; Massachusetts General Hospital1

SCA137: Fast-Track General Anesthesia for Patients Undergoing Transfemoral Transcatheter Aortic Valve Replacement Results in Shorter Intensive Care Unit, Hospital Length of Stay, and Lower Cost
Tjorvi Perry, MD MMSc1; Andrew Wilkey, MD1; Matthew Sundblad, MD1; Paul Sorajja, MD1; Robert Farivar, MD PhD1; Craig Strauss, MD MPH1; Andrea Sweeney, MBA1; Abbott Northwestern; Hospital1; Northwest Anesthesia PA1; Minneapolis Heart Institute1

SCA138: A Cardiac Surgery-Specific, Goal-Directed Algorithm Using Stroke Volume Variation Results in Less Variability in Intraoperative Crystalloid Administration: A Pilot Study
Tjorvi Perry, MD MMSc1; Andrew Wilkey, MD1; Matthew Sundblad, MD1; Serina Brueggemann, CRNA1; Judah Askew, MD1; Robert Farivar, MD PhD1; Abbott Northwestern1; Northwest Anesthesia PA2; Minneapolis Heart Institute3

SCA139: Leveraging Rapid-Cycle Formative Assessment to Improve Intraoperative Glucose Control in Cardiac Surgical Patients
Tjorvi Perry, MD MMSc1; Matthew Sundblad, MD1; Andrew Wilkey, MD1; Serina Brueggemann, CRNA1; Robert Farivar, MD PhD1; Craig Strauss, MD MPH1; Pamela Rush, RN MS1; Katherine Foag, MPH1; Dirck Rilla, LP CCP1; Abbott Northwestern Hospital1; Northwest Anesthesia PA2; Minneapolis Heart Institute3; SpecialtyCare4

SCA140: Improving Clinical Performance Transparency in Cardiac Anesthesia
Tjorvi Perry, MD MMSc1; Maiva Lee, BS1; Jason Heuer, CRNA1; Andrew Wilkey, MD1; Matthew Sundblad, MD1; Katherine Foag, MPH1; Pamela Rush, MS RN1; Craig Strauss, MD MPH1; Robert Farivar, MD PhD1; Abbott Northwestern Hospital1; Northwest Anesthesia PA2; Minneapolis Heart Institute3

SCA141: Transesophageal Echocardiography Complications in Adult Cardiac Surgery: A Retrospective Cohort Study
Razvan Purza, BSc1; Subhamay Ghosh, MD PhD1; Chris Walker, MBCHB1; Brett Hibbert, MSc2; Lillian Koley, RN BHScN3; Hilary Grocott, MD FASE FRCP1; College of Medicine, University of Manitoba; Glangwili General Hospital1; Southern District Health Board; Winnipeg Regional Health Authority4

SCA142: Preventing Hypothermia in Transcatheter Aortic Valve Replacement
Benjamin Rohrer, MD1; Brian Kelly, DO1; Hocine Tighiouart, MS1; Fred Cobey, MD MPH FASE1; Stefan Ianchulev, MD1; Tufts Medical Center1

SCA143: Obesity and Positioning-Related Neuropathies in Cardiac Surgery Patients
Mark Schmidt, MD1; Katie Goergen, MD1; Joseph Miskulin, MD1; Tara Brakke, MD FASE1; University of Nebraska1

SCA144: Enhanced Recovery in Cardiac Surgery Leads to Shorter Post-Operative Hospital Length of Stay
Thomas Varughese, FFICM FRCA MBBS1; Gillian Hardman, MRCS MBBS BSc1; Helen Saunders, MBCHB FRCA1; Amal Bose, MD1; Antony Walker, MD MBCh FRCSCTh1; South Manchester University Hospital National Health Service Foundation1; Health Education Northwest; Lancashire Cardiac Centre; Blackpool NHS Foundation Trust1; National Health Service5
SCA128: Cost Changes and Its Influencing Factors of Patients undergoing Coronary Artery Bypass Graft in 5 Years of a Cardiovascular Institute in China
Mingya Wang, Postgraduate Candidate1; Hushan Ao1; Xin Zhang1; Fu Wai Hospital, Chinese Academy of Medical Sciences1

SCA129: Perioperative Pain Control for Transapical Transcatheter Aortic Valve Replacement Using Single-Shot Paravertebral Nerve Blocks
Andrew Wilkey, MD1; Matthew Sundblad, MD1; Gregory Morrisette, MD2; Gerald Holguin, MD3; John Mrachek, MD1; Paul Sorajja, MD3; Vibhu Kshettry, MD1; Thomas Flavin, MD1; Tjorvi Perry, MD MMSc1; Northwest Anesthesia1; Minneapolis Heart Institute3

SCA130: Patients Undergoing Trans-Apical Mitral Valve Device Placement Benefit From a Combined Fast-Track General Endotracheal and Thoracic Epidural Anesthetic Approach
Tjorvi Perry, MD MMSc1; Andrew Wilkey, MD2; Matthew Sundblad, MD2; Tory McGrath, MD2; Jonathan Cohen, MD2; Andrea Sweeney, MBA3; Benjamin Sun, MD3; Paul Sorajja, MD3; Robert Farivar, MD PhD3; Abbott Northwestern Hospital1; Northwest Anesthesia2; Minneapolis Heart Institute3

SCA131: The Conundrum of Upper Extremity Neuropathies After Cardiac Surgery: A Case Control Study of Its Characteristics; Risk Factors; and Time Course
Emily Williams, MD1; Chen Chau, MD1; Gabriel Loor, MD1; Megan Lanigan, MD1; Mojca Konia, MD PhD1; Jacob Hutchins, MD1; Richard Prielipp, MD MBA FCCM1; Ioanna Apostolidou, MD1; University of Minnesota1
## Scientific Abstracts and Posters

### Scientific Poster Session 3: Perioperative Medicine, Structural Heart Disease, Thoracic Anesthesia

**Tuesday, April 5, Noon–1:30 pm**

SCA151: Measuring Intraoperative Blood Pressure Variability with the Coefficient of Variation to Assess Cardiac Surgical Outcomes
Albert Ha, BS¹; Vareesh Prasad, BSE²; Fernando Mujica, MD³; Ariel Mueller, MA⁴; Pooja Mathur, BS⁵; Victor Novack, MD PhD⁶; Kamal Khabbaz, MD⁷; Thomas Heldt, PhD⁸; Balachundhar Subramaniam, MD MPH⁹; Harvard Medical School¹⁰; Massachusetts Institute of Technology¹¹; Beth Israel Deaconess Medical Center¹²

SCA152: The Intraoperative Renal Resistant Index and Early Mortality following Cardiac Surgery
Jennifer Hauck, MD¹; Anne Cherry, MD¹; Yi-Ju Li, PhD¹; Benjamin Andrew, RD BS¹; Lakshmi Kartha, MD¹; Ryan Konosuke, MD¹; Cory Maxwell, MD¹; Alina Nicoara, FASE MD¹; Mark Stafford-Smith, MD¹; Duke University Medical Center¹²; Humana, Inc.²

SCA153: Complexity of Preoperative Blood Pressure Dynamics: Possible Utility in Cardiac Surgical Risk Assessment
Teresa Henriques, PhD¹; Madalena Costa, PhD²; Pooja Mathur, BS³; Kamal Khabbaz, MD⁴; Roger Davis, ScD⁵; Murray Mittleman, MD DrPh⁶; Ary Goldberger, MD⁷; Balachundhar Subramaniam, MD MPH⁸; Beth Israel Deaconess Medical Center⁹; Harvard School of Public Health¹⁰

SCA154: High Sensitive Troponin T for Risk Stratification in Cardiac Surgical Patients
Matthias Heringlake, MD¹; Jan Käbler, MD¹; Anna Beilharz, MD¹; Astrid Berggreen, MD¹; Efstratios Charitos, MD PhD¹; Hauke Paarmann, MD¹; University of Luebeck¹²; Martin-Luther University Halle²

SCA155: Does the Type of Anesthetic Technique Affect In-Hospital and One-Year Outcomes After Off-Pump coronary Arterial Bypass Surgery?
Kwanyoung Hong¹; Dae Kyun Ryu, MD¹; Jeong Jin Min, MD¹; Jong-Hwan Lee, MD PhD¹; Sangmin Maria Lee, MD PhD¹; Samsung Medical Center; Sungkyunkwan University School of Medicine¹

SCA156: Risk Factors and Maternal Outcomes in Pregnant Women with Pulmonary Hypertension at Delivery: A National Inpatient Sample Study
Aaron Hudson, MD¹; Mohammed Minhasj, MD MBA¹; Avery Tung, MD¹; Ariel Mueller, MA²; Sajid Shahul, MD MPH²; University of Chicago²; Beth Israel Deaconess Medical Center²

Hideaki Kawanishi, Clinical Engineering¹; Hironobu Hayashi, MD¹; Masahiro Okamoto, MD¹; Masahiko Kawaguchi, MD¹; Nara Medical University¹

SCA158: Pre-Operative Neural Network Analysis in the Development of a Post-Operative Risk INDEX in Cardiac Surgery
Keshar Kubal, MD¹; Suryanarayana Pothula, MD¹; Rocco LaFaro, MD¹; Christopher Devlin, MS IV¹; David Betancourt, BS¹; Yelena Krasnozhen, BA¹; Mario Inchiosa, PhD²; Mario Inchiosa, PhD²; New York Medical College¹; Microsoft²

SCA159: Application of Vancomycin Paste and the Effect on the Incidence of Surgical Site Infection at a Single Center
Heather Lander, MD¹; Julius Ejiofor, MD¹; Siobhan McGurk, BS¹; Tsuyoshi Kaneko, MD¹; Prem Shekar, MD¹; Simon Body, MBChB MPH FAHA¹; Brigham and Women's Hospital/Harvard Medical School¹

SCA160: Paravertebral Continuous Bloc Improve Active Pain Score and Lower Narcotic Consumption After Minimally Invasive Mitral Surgery
Jean-Sebastien Lebon, MD FRCPC¹; Chantal Mercier Laporte, MD¹; Alain Deschamps, MD PhD¹; Pierre Couture, MD¹; Antoine Rochon, MD FRCPC¹; Georges Desjardins, FASE FRCPC MD¹; Marie-Eve Chamberland, MD¹; Claudia Viens, MD¹; Jennifer Cogan, MD¹; André Denault, MD PhD FASE¹; Christian Ayoub, MD BPharm¹; Denis Bouchard¹; Michel Pellerin¹; Montreal Heart Institute, Universite de Montreal¹; Universite de Montreal²

SCA161: Effect of Desflurane-Remifentanil vs. Propofol-Remifentanil on Arterial Oxygenation During One-Lung Ventilation: A Prospective Randomized Study
Ho-Jin Lee, MD¹; Susie Yoon, MD¹; Youn Joung Cho, MD¹; Tae Kyong Kim, MD¹; Deok Man Hong¹; Jeong-Hwa Seo, MD¹; Yun-seok Jeon, MD¹; Jae-Hyon Bahk, MD¹; Seoul National University Hospital¹

SCA162: The Effect of Dexametodimine on Outcomes of Cardiac Surgery in Elderly Patients
David Li, MD¹; Hong Liu, MD¹; Hao Cheng Professor¹; University of California Davis Health System¹; First Hospital of Soochow University²

SCA163: Association Between Intraoperative Cerebral Hypo-Perfusion and Postoperative Delirium
Yafen Liang, MD¹; Jennifer Morse, MS¹; Matthew Shotwell, PhD¹; Jason O'Neal, MD¹; Andrew Shaw, FCCM FRCA MB¹; Frederic Billings, MD¹; Vanderbilt University Medical Center¹

SCA164: Preoperative Transthoracic Echocardiograms Ordered by Perioperative Physician Anesthesiologists: By Guidelines and Impacting Care!
Kate Liberman, MD¹; John Fox, MD¹; Stanton Sherman, MD FAHA FASE¹; Jochen Muehlschlegel, MD MMSc FAHA¹; David Hepner, MD MPH¹; Angela Bader, MD MPH¹; Brigham and Women's Hospital¹

SCA165: Exogenous Creatine Phosphate Combined with Compound Coenzyme Administered During Cardiac Surgery Does Not Improve Long Term Outcomes in Chinese Patients: A Retrospective Cohort Study
Tian Lijuan, Master of Medicine¹; Hushan Ao³; Chinese Academy of Medical Sciences Fu Wai Hospital¹

SCA166: Effects of Metabolic Syndrome With or Without Obesity on Pneumonia in Patients Undergoing Coronary Artery Bypass Graft
Lin Lizu, MD¹; Sipeng Chen, MS¹; Hushan Ao³; The First People’s Hospital of Qinzhou¹; Capital Medical University²
SCA167: Aminocaproic Acid is Associated with Higher Incidence of Early Postoperative Cognitive Dysfunction after Cardiac Surgery Than Tranexamic Acid
Ying Hui Low, MD; Mary Cooer, MSc; Niccolo Terando, PhD; Miles Berger, MD PhD; Mihai Podgoreanu, MD FASE; Mark Stafford-Smith, CM FASE FRCP; Mark Newman, MD; Rebecca Klinger, MD; Joseph Mathew, MD; Duke University Hospital

SCA168: Preoperative Diastolic Dysfunction Assessed by E/e' is Associated with Worse 1-Year Survival in Transcatheter Aortic Valve Replacement Patients
Jeffrey Lyvers, MD; Benjamin Rohrer, MD; Andrew Weintraub, MD; Frederick Cobey, MD MPH; Tufts Medical Center

SCA169: Choice of Perioperative Crystalloids Around Cardiac Surgery
Karthik Raghunathan, MD MPH; Sharon McCartney, MD; Attilio Barbeito, MD MPH; Victor Khangulov, PhD; Fred Peyerl, PhD; Andrew Shaw, FCCM; Duke University Medical Center; Boston Strategic Partners; LLC

SCA170: Utilization of Intraoperative Transeosophageal Echocardiography TEE: in Trauma and Emergency Surgery at a Level I Trauma Center
Samhati Mondal, MD; Karl Wagner, MD; Charles Smith, MD; Metrohealth Medical Center

SCA171: Intraoperative Beat-by-Beat Blood Pressure vs. 15-Sec Sampling Variability: Does Resolution Matter?
Fernando Mujica, MD; Albert Ha, BS; Varesh Prasad, BSE; Ariel Mueller, MA; Priyam Mathur, MS; Adam Lerner, MD; Kamal Khabbaz, MD; Thomas Heldt, PhD; Balachundhar Subramaniam, MD MPH; Beth Israel Deaconess Medical Center; Harvard University; Massachusetts Institute of Technology; Harvard Medical School; Beth Israel Deaconess Medical Center

SCA172: Interrelationship of Preoperative Anemia, Postoperative Anemia, Acute Kidney Injury and Mortality After Coronary Artery Bypass Grafting Surgery
Patrick Nailer; Manuel Fontes, MD; Ishwori Dhakal, MS; Jorn Karhausen, MD; Mihai Podgoreanu, MD FASE; Mark Stafford-Smith, MD CM FASE FRCC; Miklos Kertai, MD PhD; Duke University Medical Center; Yale School of Medicine

SCA173: Outcome and Cost Analysis of Postoperative Renal Failure in Elective Cardiac Surgery Patients
Tariq Naseem, MD; Edward O'Brien; Dalia Banks, MD FASE; Ulrich Schmidt, MD PhD; University of California, San Diego

SCA174: Success Rates of Monitored Anesthesia Care in Transcatheter Aortic Valve Replacement at a High-Volume Academic Center
Prakash Patel, MD; William Vernick, MD; David Jones, MSN CRNP BC; Jeremy Kukafka, MD; Jared Feinman, MD; Wilson Szeto, MD; Howard Herrmann, MD; Robert Li, MD; Saif Anwaruddin, MD FACC FSCAI; Nimesh Desai, MD; Jay Giri, MD; Neha Quatromoni, MD; Stuart Weiss, MD PhD; John Augoustides, MD FASE FAHA; Jacob Gutsche, MD; University of Pennsylvania

SCA175: Implementation of a Moderate Sedation Protocol for Transfemoral Transcatheter Aortic Valve Replacement: A Review at 12 Months
Ryan Potosky, MD; Mathew Williams, MD; Binita Shah, MD MS FACC FSCAI; Marc Kanchuger, MD; Scott Maddalo, MD MSc; Peter Neuburger, MD; NYU Langone Medical Center

SCA176: Measuring Intraoperative BP Variability via Poincare Plots to Assess Cardiac Surgical Outcomes
Varesh Prasad, BSE; Albert Ha, BS; Teresa Henriques, PhD; Victor Novack, MD PhD; Ariel Mueller, MA; Priyam Mathur, MS; Fernando Mujica, MD; Kamal Khabbaz, MD; Thomas Heldt, PhD; Balachundhar Subramaniam, MD MPH; Massachusetts Institute of Technology; Harvard Medical School; Beth Israel Deaconess Medical Center

SCA177: Performance of Closed Loop Anesthesia Delivery in Patients with Moderate to severe LV Dysfunction Undergoing Open Cardiac Surgery
Goverdhan Puri, MD PhD; Varun Mahajan, MBBS; Tanvir Samra, MD; Postgraduate Institute of Medical Education and Research

SCA178: Risk Factors for Mortality After Neonatal Blalock-Taussig Shunt Procedure
Goverdhan Puri, MD PhD; Ajay Kumar, MD; Vikas Dutta, MD; Shyam Kumar Thingnum, MS MCh; Alok Kumar; PGIMER

SCA179: Anesthetic Management of Patients Undergoing Transapical Implantation of Artificial Chordae to Correct Mitral Regurgitation
Robertas Samalavicius, MD; Ieva Norkiene, MD PhD; Vilius Janusauskas, MD; Diana Zakarkaite, MD PhD; Karolis Urbonas, MD; Audrius Aidietis, MD PhD; Kestutis Rucinskas, MD; Vilnius University Hospital Santariskiu

SCA180: Duration of Post-Operative Atrial Fibrillation Affects Long-Term Survival After Cardiac Surgery
Martin Sigurdsson, MD PhD; Nicholas Longford, PhD; Mahyar Heydarpour, PhD; Louis Saddic, MD PhD; Tzuu-Wang Chang, PhD; Stanton Sherran, MD FAHA FASE; Jochen Muehlschlegel, MD MMSc FAHA; Simon Body, MBChB MPH FAHA; Brigham and Women's Hospital; Imperial College, London

SCA181: Wider Perioperative Glycemic Fluctuations Increase Risk of Postoperative Atrial Fibrillation
Ming Ann Sim, MBBS; Weiling Liu, Bsc; Lian Kah Ti, MBBS; Sophia Chew, MBBS MMED FANZCA; National University of Singapore; National University Hospital System; Singapore General Hospital

SCA182: Effect of Perioperative Sodium Bicarbonate on Postoperative Acute Kidney Injury in Infective Endocarditis Patients
Sarah Soh, MD; Jin Sun Cho, MD; Soo Jung Park, MD; Jae Kwang Shim, MD PhD; Young Lan Kwak, MD PhD; Yonsei University College of Medicine
Scientific Abstracts and Posters

SCA183: The Minimal Oxygen Delivery During Cardiopulmonary Bypass To Maintain Cellular Brain Integrity
Iehab Talukder, MD PhD1; Viachaslau Barodka, MD1; Charles Hogue, MD1; Johns Hopkins Hospital1

SCA184: Dexmedetomidine Administered During Cardiac Surgery Does Not Improve Long Term Outcomes in Chinese Patients. A Cohort and 1-Year Study
Fei Xu, MD1; Hushan Ao1; Jun Ma, PhD MD1; Cardiovascular Institute and Fu Wai Hospital1; Beijing Anzhen Hospital1

SCA185: Does The Ornim c-FLOW™ Perfusion Monitor Produce A Signal Reading From Non-biological Materials?
Dmitriy Yukhvid, MD1; Enrique Pantin, MD1; Brian Raffel, MD1; Rutgers - Robert Wood Johnson University Hospital1

SCA186: Effects of Metabolic Syndrome With Obesity on Outcomes and Costs After Coronary Artery Bypass Graft
Yu Zhang, Master1; Hu Shan Ao1; Fu Wai Hospital1
Resident/Fellow Complex Case Presentations

**Complex Case Poster Presentations: Session 1**

**Saturday, April 2, 11 am–Noon**

**Seaport AB (2nd Level)**

**F5:** Post-TAVR Ventricular Septal Defect During Transfemoral Edwards SAPIEN Valve Implantation

Aaron Dahl, MD; Carli Hoaglan, MD; James Helman, MD; Virginia Mason Medical Center

**F6:** Constrictive Pericarditis: Echocardiographic Diagnosis

Nathanial Smith, MD; University of Utah

**F7:** Unsuccessful Redo MitraClip Procedure Leading To Acute Right Ventricular Failure In a Patient With Homozygous Familial Hypercholesterolemia And Preexisting Atrial Secundum Defect

Poovendran Satthasivam; Elizabeth Herrera, MD; University of Texas at Houston Health Science Center; Houston Methodist

**F8:** A Case Report: Esophageal Perforation after Radiofrequency Ablation RFA: for Atrial Fibrillation

Jay Chan, MD; Jeffrey McMurray, MD; Medical University of South Carolina

**F9:** Endovascular Stent Exclusion of a Pedunculated Aortic Thrombus Using TEE Guidance

John McDonald, MD; George Gulden, MD; Medical University of South Carolina

**F10:** The Use of Intraoperative 2D And 3D Transesophageal Echocardiography for Guiding Surgical Resection of a Right Lung Tumor Invading the Left Atrium Through the Right Superior Pulmonary Vein

Phuong Bui, MD; Oscar Aljure, MD; Nestor Villamizar, MD; Tao Nguyen, MD; Yilam Rodriguez-Blanco MD; University of Miami, Miller School of Medicine

**F11:** Concurrent Transapical Native Aortic and Bioprosthesis Mitral Valve-in-Valve Replacement

Kara Siegrist, MD; Mias Pretorious, MBChB; Yafen Liang, MD; Vanderbilt University Medical Center

**F12:** Contained Coronary Sinus Rupture in a Redo-Cardiac Surgery Patient

Sridhar Musuku, PhD; Jazelle Mealing, MD; Asim Raja, MD; Albany Medical Center

**F13:** Left Heart Metastatic Carcinoid: Atypical Echocardiographic Appearance

Kiri Mackrsey, MBChB; Lisa Rong, MD; Nikolaos Skubas, MD FASE FCCM; Weill Cornell Medical Center at NYP

**F14:** Retrieving Iatrogenic Foreign Body, Surgical Scalpel, In the Right Bronchus with Coinciding Difficult Airway

Gianna Casini, MD; Enrique Pantin, MD; Orlando Gomez, DNAP CRNA; Rutgers Robert Wood Johnson Medical School

**F15:** Emergent Transvenous, Transseptal Mitral Valve Replacement: a High Risk Patient With a Success Story

Amelia Fiastro, MD; Michelle Downing, MD; James Davies, MD; University of Alabama at Birmingham

**F16:** Novel Repair of an Annular Rupture After TAVR Via Valve-in-Valve Deployment

Meredith Herzog, MD; Jeremy Bennett, MD; Vanderbilt University

**F17:** Post-Partum Type A Aortic Dissection in a Patient with Marfan’s Syndrome

Tera Cushman, MD MPH; Michael Manning, MD PhD; Duke University Hospital

**F18:** Ruptured Sinus of Valsalva Aneurysm

Jing Cui, MD; Jerri Chen, MD PhD; NY Presbyterian—Columbia

**F19:** Left Circumflex Artery Injury During Left Atrial Appendage Ligation with Codominant Coronary Circulation

Nawar Al-Rawas, MD; Mani Daneshmand, MD; Todd Kiefer MD; Kamrouz Ghadimi, MD; Duke University Medical Center

**F20:** Adult Presentation of Cor Triatriatum

Brad Meers, MD; Bradley Coker, MD; James Kirklin, MD; University of Alabama at Birmingham

**F21:** Cardiac Mucomycosis Mimicking Acute Pulmonary Embolism

Nelson Burbano, MD; Jochen Muehlschlegel, MD MMSc FAHA; Brigham and Women’s Hospital

**F22:** Dynamic Mitral Regurgitation Complicating Transcatheter Aortic Valve Replacement

June Chan, FANZCA MBBS; Nikolaos Skubas, MD FASE FCCM; New York-Presbyterian Hospital-Cornell

**F23:** Cesarean Delivery in a Patient with Severe Aortic Stenosis

Elliot Kay, MD; Andrea Girnius, MD; Benu Makkkad, MD; Lesley Gilbertson, MD; University of Cincinnati Medical Center

**F24:** Massive Arterial Air Embolism Detected by TEE After Initiation of Cardiopulmonary Bypass

Matthew Culling, MD; Sudarshan Setty, MD; Mojca Konja, MD PhD; Michael Wall, MD FCCM; Joanna Apostolidou, MD; University of Minnesota

**F25:** Left Ventricular Assist Device Insertion in a Patient with Biventricular Noncompaction Cardiomyopathy, Ebstein’s Anomaly, and a Left Atrial Mass: Anesthesia Management & Challenges

Nikhil Kumar, MD; Christopher Trojanos, MD; Joshua Baisden, MD; Christopher Ahrens, DO; Allegheny Health Network

**F26:** An Anti-Coagulation Conundrum: Implantation of Total Artificial Heart in a Patient with Heparin-Induced Thrombocytopenia Type II

Yidy Salamanca, MD; Theodore Cios, MD MPH; Behzad Soleimani, Assistant Professor; Natalia Martinez-Acero, Anesthesiology Resident; Dimitri Guvakov, MD; Penn State Milton S. Hershey Medical Center

**F27:** A Case of Unidentified Left Atrial Appendage Thrombus

David Lin, MD; John Apostolakis, MD; Cleveland Clinic
Resident/Fellow Complex Case Presentations

F28: A Rare Case of an Acquired Gerbode Defect in Pregnancy
McKenzie Hollon, MD; Gautam Sreeram, MD; Emory University

F29: PA Catheter Entrapment in Intracardiac Suture After MVR Requiring Surgical Removal
Andrea Sandoval, MD; Rush University Medical Center

F30: Ventricular Assist Device Placement in a Patient with D-Transposition of the Great Vessels Following Mustard Procedure
Landon Farris, MD; Aaron Reynolds, MD; Northwestern University Feinberg School of Medicine

F31: Pulmonary Vein Stenosis Following Pulmonary Vein Isolation and the Use of 2D and 3D Transesophageal Echocardiography to Facilitate Transcatheter Pulmonary Vein Angioplasty
Colin Nabb, MD; Feroze Mahmood, MD FASE; Beth Israel Deaconess Medical Center

F32: Percutaneous Placement of Multiple Amplatzer Devices to Reduce Severe Paravalvular Mitral Regurgitation in a Non-surgical Candidate
Paul Anderson, MD; Andra Duncan; MD MS; Anand Mehta, MD; Cleveland Clinic

F33: An Epicardial Mass of Unlikely Etiology
Julio Benitez-Lopez MD; Naaman Abdullah MD; Yilliam Rodriguez Blanco MD; Jackson Memorial Hospital; University of Miami

F34: Transfemoral Transcatheter Tricuspid Valve-in-Valve Replacement in a Patient with Recurrent Carcinoid Heart Disease
Andrea Reidy, MD; Zeena Husain, MD; Samuel Hanks, MD; Texas Heart Institute

F35: Intraoperative Echocardiography and Management of a 68-Year-Old Woman with a Rare Case of Anomalous Left Coronary Artery from the Pulmonary Artery Bland-White-Garland Syndrome
Shayne Roberts, DO; Anand Mehta, MD; Cleveland Clinic

Andrew Gentilin, MD; Theresa Gelzinis, MD; University of Pittsburgh Medical Center

F37: Intraoperative use of Avalon Elite® Catheter During Lung Transplantation
Sandra Goyal, MD; Mark Chaney, MD; Jennifer Banayan, MD; University of Chicago

F38: Placement of Left Ventricular Assist Device in Patient with Family History of Malignant Hyperthermia
Andrew Maresch, MD; Sasha Shillcutt, MD FASE; University of Nebraska Medical Center

F39: Dual Chamber Pacing Without an Atrial Lead Results in R-on-T Phenomenon and Cardiac Arrest
Lisa Martinez, MD; Joel Grigsby, MD; University of Kansas Medical Center

F40: Treatment of a Biventricular Assist Device Outflow Graft Obstruction with Percutaneous Stenting
Daniel Ford, MD; Theresa Gelzinis, MD; University of Pittsburgh Medical Center

F41: 2-Dimensional and 3-Dimensional TEE Guidance for Transcatheter Correction of Commisural Mitral Regurgitation Using Mitral Valve Clip and Amplatzer Occluder Device
Brian Telesz, MD; Rebecca Aron, MD; Antonio Hernandez Conte, MD MBA; Ying Zeng, MD; Cedars-Sinai Medical Center

F42: A Late Complication of ASO for Transposition of the Great Arteries
Amy He, MD; Michael Majewski, MD; Loyola University Medical Center

F43: Transcatheter Aortic Valve Replacement While On Extra-corporeal Membrane Oxygenation for Severe Decompensated Heart Failure
Justin Farmer, MD; Shiva Sale, MD; Cleveland Clinic

F44: Rescue TEE and Pharmacological Management of a Cardiac Arrest in a Patient with a Heart Transplant
Timothy Rohman, MD; Emily Teeter, MD; Harendra Arora, MD; University of North Carolina

F45: Diffuse Intramyocardial Air after David-V Aortic Root Reconstruction
Joshua Kohtz, MD; Andrew Bowdle, MD PhD FASE; Weill Cornell Medical Center; University of Washington

F46: TEE Evaluation of an Investigational LVAD: The HeartMate 3 LVAS
Dan Cormican, MD; Brian Butala, DO; Christopher Ahrens, DO; Matthew McConnell, MD; Joshua Baisden, MD; Allegheny General Hospital

F47: Timely TEE Diagnosis of Fontan Defect Circumvents Need for VV ECMO
Fatemah Mamdani, MD MPH; Teresa Mulaikal, MD; New York Presbyterian Hospital—Columbia University Medical Center

F48: Vasoplegia During Pulmonary Thromboendarterectomy in Patient on Remodulin Therapy for Chronic Thromboembolic Pulmonary Hypertension
Nicoile Imbrieale-Townsend, DO; Ali Hamadani, DO; Matthew McConnell, MD; Allegheny Health Network

F49: Perioperative management of In Hospital Cardiac Arrest with Percutaneous Coronary Intervention and Rapid-Response ECMO
Jason Johnson, MD; Cornel Mihalache, MD; Northwestern Memorial Hospital
F50: Percutaneous Laser Lead Extraction with Large Intracardiac Vegetation: An Increasingly Common Difficult Risk Stratification Decision
Joe Mahoney, MD; Ferenc Puskas, MD PhD; Bryan Ahlgren, DO; University of Colorado Hospital

F51: Paravalvular Leak with Unusual Eccentric Jet Post Aortic Valve Replacement
Bradford Cardonell, MD1; Xiaren Wu, MD; Joseph Stemm, MD; Barry Marks, DO; Geisinger Medical Center

F52: Is It Under-Sizing or Is It Faulty Bio Prosthesis?
Sridhar Musuku, PhD; Marcela Hanakova, MD FASE; Kareem Kassel, MD; Joseph Mossad, BS; Albany Medical Center

F53: MTHFR Deficiency, Factor V Leiden, And Anomalous Venous Return for Redo-aortic Valve Replacement
Andrew Mortenson, MD MBA; Matthew Ritter, MD; Mark Smith, MD; Mayo Clinic Rochester

F54: Anterior Mediastinal Mass Causing Cardiac and Airway Compression: Anesthetic Considerations
Michael Evans, MD; Igor Zhukov, MD; Emory University School of Medicine

F55: Anesthetic Management of a Patient with Pulmonary Artery Sarcoma Causing Luminal Obstruction
Adam Kingeter, MD; Vanderbilt University Medical Center

F56: Cesarean Section for Eisenmenger’s Syndrome with Severe Pulmonary Hypertension
Seri Carney MD; Mark Smith, MD; William Mauermann, MD; Katherine Arendt, MD; Thomas Stewart, MD; Mayo Clinic Rochester

F57: Anesthetic Considerations for Percutaneous Extraction of Pulmonary Valve Mass Using the AngioVac Cannula and Circuit
Kevin Marcus, MD; Swapnil Khoche, MD; University of California, San Diego

F58: Transesophageal Echocardiography TEE: as a Diagnostic Modality for Coronary Artery Aneurysms (CAA) and Coronary Arteriovenous Malformations (CAVM)
Brian Raffel, MD; Dmitriy Yukhvid, MD; Antonio Chiricolo, MD; Rutgers University Robert Wood Johnson Medical School

F59: Valve-in-Valve-in-Homograft: A Case of a Repeat Transcatheter Aortic Valve Replacement in a Patient with an Aortic Homograft
Kimberly Hollander, MD; Mario Montealegre-Gallegos, MD; Feroze Mahmood, MD FASE; Beth Israel Deaconess Medical Center

F60: Large Bioprosthetic Tricuspid Valve Mass Filling Right Ventricle in a Patient with Prior Endocarditis
Stephen Evans, MD; Michelle Downing, MD; James Davies, MD; University of Alabama at Birmingham Hospital

F61: Transcatheter Aortic Valve Replacement in a patient with Left Atrial Appendage Clot
Stephen Au, MD; Swapnil Khoche, MD; Dalia Banks, MD FASE; University of California, San Diego

F62: Orthotopic Heart Transplantation in a Patient with Suspected Mullbrey Nanism
Suri Pillai, MD; Andrej Alfircivic, MD FASE; Cleveland Clinic Foundation

F63: Traumatic Left Ventricular Pseudoaneurysm: An Anesthetic Challenge
Samhati Mondal, MD; Matthew Joy, MD; Charles Smith, MD; Metrohealth Medical Center

F64: High Spinal for Tricuspid Valve Replacement Due to Carcinoid Heart Disease
George Gilkey, MD; Matthew Ritter, MD; Mayo Clinic Rochester

F65: The Use of Bivalirudin During Cardiopulmonary Bypass in a Patient with Previous Heparin Induced Thrombocytopenia Presenting for Combined Cardiac and Renal Transplant
Ankeet Choxi, MD; Julio Benitez-Lopez, MD; Yilian Rodriguez-Blanco, MD; Michael Fabbrro, DO; Kevin Nemeth MD; University of Miami/Jackson Memorial Hospital

F66: Nonfatal Traumatic Right Ventricle Rupture in Patient with Previous Open Heart Procedure
Grace Bednar, MD; Christopher McQuitty, MD; The University of Texas Medical Branch

F67: Perioperative Coronary Thrombosis in Second-Generation Drug-Eluting Stents: Is It Time for a Dual Antiplatelet Therapy Paradigm Shift?
Adam Dalia, MD MBA; Michael Essandoh, MD; Antolin Flores, MD; The Ohio State University Wexner Medical School; The Ohio State University

F68: Magic Bullet for Cardiopulmonary Bypass-Induced Vasoplegic Syndrome
Kaitlin Herald, DO; Daniel Tolpin, MD; Baylor College of Medicine

F69: Systolic Anterior Motion of the Mitral Valve with Left Ventricular Outflow Tract Obstruction: a Rare Cause of Hypotension After Lung Transplantation
Thomas Hertel, MD; Jennifer Banayan, MD; Mark Chaney, MD; University of Chicago

F70: Percutaneous LVAD Exclusion Following Recurrent LVAD Thrombosis
Brian O’Hara, MD1; Kelly Kohorst, MD; Joseph Fredi, MD FACC FACP; Robert Deegan, BCh MD PhD; Vanderbilt University Medical Center

F71: Valve-in-Valve-in-Valve Transcatheter Aortic Valve Replacement for Two Prior Prosthesis Failures
Ronak Shah, MD; Bonnie Milas, MD; Prakash Patel, MD; Hospital of the University of Pennsylvania
Resident/Fellow Complex Case Presentations

F72: Right Coronary Artery Dissection Following Aortic Valve Replacement: An Uncommon Etiology of Right Ventricular Failure
William McKinney, MD; Michael Duggan, MD; Emory University School of Medicine1

F73: Acute Development of Aorta-to-Left Atrium Fistula After Mitral Valve Replacement for Mitral Valve Endocarditis: An Anomalous Complication
Nana Benneh, MD; Igor Zhukov, MD; Emory University Hospital1

F74: Intraoperative Three Dimensional Transesophageal Echocardiography to Diagnosis the Source of a Right to Left Interalratial Shunt
Travis Schisler, MD; Kathirvel Subramaniam, MD MPH; University of Pittsburgh Medical Center1

F75: There is a Fracture... A Case of Traumatic Aortic Rupture in the Setting of Polytrauma
Heather Lander, MD; Dean Arnaoutakis, MD; Martin Zammert, MD; Brigham and Women's Hospital1

F76: Anomalous Origin of the Left Coronary Artery from the Pulmonary Artery Presenting as a Cardiac Arrest in a Teenager
Susan Cosgrove, MD; Riva Ko, MD; Columbia University Medical Center1

F77: Redo Mitral Valve Replacement in Hemophilia a and Factor V deficiency
John Baer, DO; Joel Grigsby, MD; University of Kansas Medical Center1

F78: Unusual Interventricular Septal Movement that Demonstrates the Physiology of Ventricular Coupling in Constrictive Pericarditis
Jeffrey Kim, MD; Kevin Thornton, MD; University of California, San Francisco1

F79: 70-Year-Old with Severe Pulmonary Hypertension Undergoing Spinal Fusion
Yian Chen, MD; Mary Brady, MD; Johns Hopkins University School of Medicine1

F80: Misadventures of a Retrograde Cardioglena Catheter
Corey Herman, MD; Baskaran Sundaram, MD; Jordan Goldhammer, MD; Thomas Jefferson University Hospital; Sidney Kimmel Medical College2

F81: Epicardial Echocardiogram of the Pulmonic Valve Guiding Surgical Plan on a Patient with Severe Carcinoid Heart Disease
Kathy Zhang, MD; Nelson Burbano-Vera, MD; Luiginio Nascimben, MD PhD; Brigham and Women's Hospital1

F82: Noninfective Endocarditis of Bioprosthetic Mitral Valve Posterior Strut
Jesse Kiefer, MD; Reney Henderson, MD; Wendy Bernstein, MD MBA; University of Maryland School of Medicine1

F83: Perioperative Management of the Patient with Mitochondrial Myopathy Presenting for Coronary Artery Bypass Grafting
Melanie Liu, MD; James Anton, MD; Cesar Castillo, MD; Texas Heart Institute1

F84: Ventricular Assist Devices VADs: as a Bridge in Single Ventricle SV Patients
Michelle DaCosta, MD; Mark Shepard, RN CCP; James Fehr, MD; Jacob Christensen, MD; Washington University in St Louis; Barnes Jewish Hospital2

F85: Left Atrial Thrombus During Left Atrial Appendage Ligation: TEE Findings Change Operative Course
Ameeka Pannu, MD; Ruma Bose, MD; Feroze Mahmood, MD FASE; Beth Israel Deaconess Medical Center1

F86: Non Hemorrhagic Complication During Trans Catheter Aortic Valve Implantation
Bryan Hierlmeier, MD; Ben Morris; Wake Forest Baptist Medical Center1

F87: 3-Dimensional Transesophageal Echocardiography to Diagnose a Malfunctioning Mechanical Valve in the Mitral Position Due to Severe Mitral Annular Calcification
Amar Bhatt, MD; Manoj Iyer, MD; The Ohio State University1

F88: Management of a Patient with Kartagener's Disease for Bilateral Orthotopic Lung Transplantation
Andrew Karenz, MD; Emily Teeter, MD; Brian Barrick, MD; Priya Kumar, MD; Benjamin Haithcock, MD; Susan Martinelli, MD; University of North Carolina1

F89: Endocarditic Aorto-Right Atrial Fistula in a Setting of Unrestrictive ASD: Diagnostic Considerations
David Christianson, MD; Igor Zhukov, MD; Emory University School of Medicine1

F90: Dual Chamber Defibrillator Placement in a Duchenne's Muscular Dystrophy Patient with CHF Secondary to Cardiomyopathy
Jamel Ortoleva, MD; James Freeman, MD MPH MS; Susan Garwood, MD; Peter Mancini, MD; Yale University School of Medicine1

F91: Acute Type B Aortic Dissection During the Second Trimester of Pregnancy in a Patient with Marfan Syndrome
Jeeongae Yoon, MD; Prakash Patel, MD; Jacob Gutsche, MD; Jared Feinman, MD; Onyi Onuoha, MD MPH; Stuart Weiss, MD PhD; John Augoustides, MD FASE FAHA; Hospital of the University of Pennsylvania1

F92: Cardiac Surgery for the Voice Professional
Christopher Owen, MD; Jason Falterman, MD; Ochsner Clinic Foundation1

F93: Point of Care Ultrasonography: An Essential Skill in the Operating Room
Raiyah Sheriffdeen, MD; Arvind Rajagopal, MD; Rush University Medical Center1

F94: Thoracotomy Approach to Avoid Fourth Sternotomy for Repeat Tricuspid Valve Replacement
Karl Takabayashi, MD; Jenny Kwak, MD; Loyola University Chicago1

F95: Tricuspid Valve Replacement for Carcinoid Heart Disease Complicated by Right Heart Dysfunction and Atrial Standstill
Kelly Kohorst, MD; Adam Kingeter, MD; Brian O’Hara, MD; Andrew Shaw, FCCM FRCA MB; Vanderbilt University Medical Center1
### Resident/Fellow Complex Case Presentations

**Complex Case Poster Presentations: Session 1**

**F96:** Transfemoral Aortic Valve Replacement Complicated by Subaortic Valve Mass—An Unusual Presentation
Adrienne Samar, MD; Sudhakar Subramani, MD MMED; University of Iowa Hospitals and Clinics

**F97:** Bystander Cardiopulmonary Resuscitation, Refractory Cardiogenic Shock, and 3 Days of Veno-Arterial Extracorporeal Membrane Oxygenation: An Unexpected Survival Story
Alexandra Fox, MD; Kai Schoenhage, MD; Samata Paidy MD; University of Arizona

**F98:** Veno-Arterial and Veno-Venous Extracorporeal Membrane Oxygenation in a Patient with Situs Inversus
David Parisian, MD; Gregory Weiss, MD; Barbara Wilkey, MD; University of Colorado

**F99:** Acute Systolic Anterior Motion of the Mitral Valve Following Aortic Valve Replacement Utilizing Intraoperative Echocardiography and Esmolol Infusion
Nathan Belt, MD; Rana Badr, MD; University of Massachusetts Medical School

**F100:** Pulmonary Cement Embolism after Vertebroplasty Resulting in PFO Flow Reversal and Mitral Valve Destruction
Mary Matyi, MD; Peter Gerst, DO; Christopher Ahrens, DO; Ricardo Cardenas, MD; Allegheny Health Network

**F101:** Acute Aorto-Right Ventricular Outflow Tract Fistula after Deployment of Edwards Intuity Valve
William Navarre, MD; Andrew Baudo, MD; Andrew Feider, MD; Northwestern University

**F102:** Multifactorial Late Onset Pulmonic Stenosis After Arterial Switch Procedure for D-Transposition of the Great Arteries
Robert Hieronimus, MD; Greg Koski, PhD MD; Massachusetts General Hospital

**F103:** Post Aortic Valve Replacement Severe High Gradients in a Patient with Vasoplegic Syndrome
Luis Enríquez, MD; Felipe Muriel, Cardiovascular Anesthesiologist; Javier Osorio, Cardiovascular Anesthesiologist; Jaime Rodriguez, MD; Camilo Roa Amaya, MD; Mauricio Abello, MD, Cardiovascular Anesthesiologist; Universidad El Bosque y Fundación Clínica Shaio; Fundación Clínica Shaio

**F104:** Placement of Veno-Arterial Extracorporeal Membrane Oxygenation for a Patient with Neurogenic Cardiomyopathy in Status Epileptics
Deena Perotti, MD; Cedars Sinai Medical Center

**F105:** Perioperative Management of Giant Coronary Artery Aneurysm Resection: A Case Report
Samiya Saklayen, MD; Oksana Klimkina, MD; University of Kentucky

**F106:** Severe Peripartum Cardiomyopathy Complicated by Sepsis Requiring Left Ventricular Assist Device Implantation
Andrea Girnius, MD; Gregory Stecker, MD; Erin Grawe MD; University of Cincinnati Medical Center

**F107:** A Novel Sternotomy-sparing Configuration for Implantation of a Ventricular Assist Device
Jacob Evers, MD; Angela Lee, MD; Columbia-Presbyterian

**F108:** TEE Assisted Location of Foreign Body Following LVAD Implantation
Michael Foley, MD; Saadia Sherwani, MD; Andrew Feider, MD; Aaron Reynolds, MD; Northwestern Memorial Hospital

**F109:** Transesophageal Echocardiography of Aortic Valve Reconstruction with Autologous Pericardium
Robert Kong, MD; Peter Fu, MD; Sansan Lo, MD; Columbia University

**F110:** Harlequin Syndrome Associated With Multi Level Intercostal Nerve Block
Jarrod Wilson, MD; Frederick Hasty, MD; Mount Sinai Medical Center of Florida
**Resident/Fellow Complex Case Presentations**

**Complex Case Poster Presentations: Session 2**

**Saturday, April 2, 5–6 pm**

**Seaport AB (2nd Level)**

F111: The Novel Use of a Percutaneous Right Ventricular Assist Device in a Patient with Right-Heart Failure Undergoing Tricuspid Valve Replacement  
Bryan Simmons, MD; Michael Fitzsimons, MD; Gaston Cudemus, MD; Massachusetts General Hospital

F112: A Mobile Left Ventricular Mural Thrombus Detected by Transesophageal Echocardiography During Coronary Artery Bypass Surgery  
Khan Chaichana, MD; Yafen Liang, MD; Massachusetts General Hospital

F113: Surgical Retrieval of Retained RCA Rotablator Burr and Stent  
Alexander Shapeton, MD; Fernando Mujica, MD; Ruma Bose, MD; Beth Israel Deaconess Medical Center

F114: von Willebrand Disease and Aortic Valve Replacement on Cardiopulmonary Bypass Using Thromboelastograph to Guide Intra-operative Decision Making  
Sherry Chang, MD; Beth Israel Deaconess Medical Center

F115: Two-In-One Using 3D: Mitral Paravalvular Leak Closure with Concomitant Transcatheter Valve-In-Valve Implantation  
Andreas Schuler, MD; Thomas Jones, MD; Elizabeth Perpetua, DNP ARNP BC; Gabriel Aldea, MD FACC; Mark Reisman, MD; G. Burkhard Mackensen, MD PhD FASE; University of Washington; Seattle Children’s Hospital

F116: Successful Repair of Mixed Atrial Septal Defect Diagnosed in an Adult Patient  
Travis Steinke, MD; Michele Sumler, MD; Emory

F117: Back from the Edge: Successfully Treated Hyperacute Rejection Following Orthotopic Heart Transplant using Extracorporeal Membrane Oxygenation and Plasmapheresis  
Clifford Cutchins, MD; Albert Robinson, MD; University of Florida

F118: 46 Year Old with Complex Acute Stanford Type B Aortic Dissection Requiring Rescue Thoracic Endovascular Stent Graft and Subsequent Definitive Elephant Trunk Repair  
Alex Leone, MD; Anand Mehta, MD; Cleveland Clinic Foundation

F119: Transcatheter Aortic Valve Replacement for Aortic Regurgitation in patient with Erythropoietic Protoporphyria  
Shea Stoops, DO; Jason Mensch, MD; University of Kansas Medical Center

F120: Tricuspid Valve Replacement and Atrial Septal Defect Repair in Patient with Carcinoid Syndrome  
Mark Schmidt, MD; Sasha Shillcutt, MD FASE; University of Nebraska

F121: Treatment of Mechanical Valve Thrombosis With Intravenous Thrombolytic Therapy  
Nayan Patel, MD; Carole Freiberger-O’Keefe, DO; University of Missouri Kansas City

F122: Intraoperative Rescue Transesophageal Echocardiogram Revealing Cardiac Standstill and Thrombosis Formation  
Gene Paek, MD; David Smith, MD; University of Utah

F123: Recurring Pulmonary Emboli in Patient on Therapeutic Anticoagulation  
Benjamin Lippert, DO; Brendan Dewan, MD; Brett Reece, MD; Karsten Bartels, MD; University of Colorado Denver School of Medicine

F124: Mitral Valve Annuloplasty Ring Dehiscence Associated with Fenfluramine-Phentermine Usage in the Setting of Recent Tricuspid Valve Replacement  
Joseph Miskulin, MD; Nicholas Markin, MD FASE; University of Nebraska Medical Center

F125: Patent Foramen Ovale Closure in a Professional Diver status post Decompression Illness  
Patrick Kinnaird, MD; Pete Panzica, MD; Colin Nabb, MD; Beth Israel Deaconess Medical Center

F126: Misplaced Suture Detected by Intraoperative Transesophageal Echocardiography  
Benjamin Randall; Kenichi Ueda, MD; University of Iowa

F127: Acute Retrograde Type A Aortic Dissection Developed After a Thoracic Endovascular Repair of Type B Aortic Dissection—A Case Report  
Jessica Lumsden, MD; Yafu Shao, MD; Temple University Hospital; Temple University Health System

F128: Dynamic Left Ventricular Outflow Tract Obstruction Caused By Preserved Mitral Valve Anterior Leaflet—Assessment Using Three-Dimensional Transesophageal Echocardiography  
Yi McWhorter; Kunal Desai, MD; Steven Haddy, MD; Mark Cunningham, MD; University of Southern California

F129: Complex Cardiac Surgery in a Patient with Dextrocardia and Situs Inversus  
Frederick Isaacson, DO; Logan Kosarek, MD; Ochsner Health System

F130: A Case of Open Mitral Valve-in-Valve Replacement  
Kimberly Nicol, DO; Joseph Sanders, MD; Henry Ford Hospital

F131: Aluminum Toxicity from Combination Therapy of Sucralfate and Citric Acid in a Cardiac Surgery Patient  
Andrea Newsome, PharmD; Emily Higdon, PharmD; Mohamed Gaber, MD; Vikas Kumar, MD; Georgia Regents Medical Center

F132: Venovenous ECMO Placement in a Patient with Severe ARDS Complicated by Intrathoracic Hemorrhage  
David Garcia, DO MS; Pierre LeVan, MD; Jenny Kwak, MD; Loyola University Medical Center
Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 2

Saturday, April 2, 5–6 pm (continued)

F133: Right Femoral to Right Atrial Arteriovenous Graft Using Novel Trans-hepatic Approach Under Transesophageal Echo Guidance
John Blackburn, MD; Vikas Kumar, MD; Taylor Mueller, BS; Georgia Regents University

F134: Anesthetic Monitoring Directly Impacts Patient Outcome During Novel Suprasternal TAVR Approach
Dan Rosenkranz, MD; Emily Teeter, MD; Thomas Caranasos, MD; Robert Kyle, DO; University of North Carolina Hospitals

F135: Successful Transcarotid Approach for Endovascular Stent Placement to Treat a High-Risk Stanford Type A Dissection
Christopher Press, MD; Christina Greene, MD; Jack Boyd, MD; Ehab Sorial, MD; Manuel Garcia-Toca, MD; Sheela Pai Cole, MD; Stanford University Medical Center

F136: Multi Vessel Coronary Artery Bypass Graft on a Patient with a V-A ECMO
Victor Enoh, MD; Emory University School of Medicine

F137: Atrial Myxoma Removal Complicated by Postoperative Right Heart Failure
Gregory Stecker, MD; University of Cincinnati

F138: Reexpansion Pulmonary Edema Following Cardiopulmonary Bypass
Ian Miller, MD; Yasdet Maldonado, MD; Allegheny Health Network

F139: Acute Non-Cardiogenic Pulmonary Edema Following Cardiopulmonary Bypass and Review of Management Strategies
Brittney Williams, MD; Reney Henderson, MD; Patrick Odonkor MD; University of Maryland

F140: Catastrophic Aortic Valve Failure Requiring Emergent Femoral Bypass
Leah Geyer, MD; Andrea Giriannis, MD; Ping Wang, MD; University of Cincinnati Hospital

F141: Unexpected Left Atrial Thrombus After Aortic Valve Replacement and Left Atrial Ligation with AtriClip AtriCure: Device; Should Transesophageal Echocardiography be Routinely Used After AtriClip Device Deployment?
Jon Rost, MD; Kirjal Patel, MD; Ronak Desai, DO; Ahmed Awad, MD; Cooper University Hospital/CMSRU

F142: Anesthetic Considerations for a Large Rare Invasive Right Atrial Mass
Julie DeVore, DO MPH; Wendy Haft, MD; University of Pittsburgh Medical Center

F143: Intraoperative Anticoagulation in a Patient with Protein S Deficiency Undergoing Cardiopulmonary Bypass
Hanjo Ko, MD; Sary Aranki MD; Rosemary Uzomba, MD MPH; Brigham and Women’s Hospital

F144: A Case of a MitraClip with an Iatrogenic Atrial Septal Defect
Fernando Mujica, MD; Azad Mashari, MD; Feroze Mahmood, MD FASE; Beth Israel Deaconess Medical Center

F145: Left Atrial Dissection from Left Atriotomy Incision During Mitral Valve Repair: Diagnosis and Treatment
Elizabeth Zhou, MD; Jared Feinman, MD; University of Pennsylvania

F146: Misadventures of a Pigtail: Intraoperative Management of a Chest Tube Placed into the Left Atrium
Jonathan Chow, MD; Brittney Williams, MD; Seema Deshpande, MD; University of Maryland School of Medicine

F147: Iatrogenic Aortic Pseudoaneurysm After Aortic Valve Replacement Requiring Emergency Reoperation
Suraj Parulkar, MD; Himani Bhatt, DO MFA FASE; Icahn School of Medicine at Mount Sinai

F148: Suicide Left Ventricle Following Aortic Valve Replacement for Aortic Stenosis
Stephanie Willet, MD; June Chan, FANZCA MBBS; Nikolaos Skubas, MD FASE FACC DSc; Weill Cornell Medical College-New York Presbyterian Hospital

F149: TAVR via Laparotomy and Direct Catheterization of the Abdominal Aorta
Ethan Brovman, MD; Sergey Karamnov, MD; Annette Mizuguchi, MD; Agnieszka Trzcinka, MD; Brigham and Women’s Hospital

F150: Failure of Intraoperative Imaging to Detect Aortic Root Rupture Associated With TAVR
Meredith Whitacre, MD; Brian Gelfand, MD; University of Florida

F151: Deployment of Two AMPLATZER® Vascular Plug 14-mm Devices for the Closure of Significant Aortic Paravalvular Leaks Post-Transaortic Valvular Repair
Emily Anton, MD; Raj Makkar, MD; Antonio Conte, MD; Moody Makar, MD; Cedars Sinai Medical Center

F152: Combined Open Mitral Valve Replacement and Transfemoral Aortic Valve Replacement for Severe Mitral Stenosis, and Severe Aortic Stenosis with Porcelain Aorta
Kevin Nemeth, MD; Michael Fabbro, DO; Yiliam Rodriguez-Blanco, MD; Julio Benitez Lopez, MD; Ankeet Choxi, MD; Indiana University; University of Miami Hospital

F153: Non-Invasive Minute Ventilation Monitoring in a Post-Operative Sternotomy Patient
Sarah Robison, MD; John Moss, MD; Mayo Clinic Florida
Resident/Fellow Complex Case Presentations

F154: Transcatheter Aortic Valve Prosthesis in Mixed Native Mitral Valve Disease. How Far Should We Push?  
Heather Reed, MD; Andreas Schuler, MD; Elizabeth Perpetua, DNP ARNP BC; Thomas Jones, MD; Gabriel Aldea, MD FACC; Mark Reisman, MD; G. Burkhard Mackensen, FASE MD PhD; University of Washington; Seattle Children’s Hospital

F155: Regional Anesthesia for Non-Cardiac Surgery in a Patient with a Left Ventricular Assist Device  
Lacey Straube, MD; David Hardman, MD MBA; Emily Teeter, MD; University of North Carolina Hospitals

F156: Anesthetic Implications of the Saber Sheath Trachea  
Pankaj Jain, MD; Andrej Alfrevic, MD FASE; Cleveland Clinic Foundation

F157: Therapeutic Hypothermia after Intraoperative PEA with BioGlue  
Patricia Nwajuaku, MDMPH; Huong Le, MD; William Smith, MD; Brian Gelfand, MD FACS; University of Florida

Benjamin Atwood, MD; Agnieszka Lesicka, MD; Michael Andrawes, MD; Massachusetts General Hospital

F159: Stenosis of Superior Vena Cava Requiring Intraocular Jugular to Right Atrium Bypass  
Ryan Neal, MD; Jiapeng Huang, MD PhD; University of Louisville Hospital and Jewish Hospital

F160: Pulmonary Artery Stenosis After Cardiac Massage in a Trauma Patient  
Cheen Alkhatib, MD; Ann Bingham, MD; Izumi Harukuni, MD; Oregon Health and Science

F161: Rupture of Non-Coronary Sinus of Valsava Aneurysm into the Right Atrium  
Daniela Iolanda, Ion, MD; Jennifer Cogan, MD; Nicolas Rousseau-Saine, MD; Georges Desjardins, MD FASE FRCPc; Pierre Emmanuel Noly, MD MSc; Philippe Demers, MD MSc FRCSC; Heart Institute of Montreal; University of Montreal

F162: Left Ventricular Free Wall Rupture Following Induction for Elective Coronary Artery Bypass Graft  
Joseph Schoenfeldt, MD; Matthew McConnell, MD; Rachel Gryta, DO; Allegheny Health Network; Allegheny General Hospital

F163: BioGlue®-Associated Loss of Aortic Valve Leaflet Motility Sonographically Masked by Newly Replaced Mechanical Mitral Valve  
Alan Smeltz, MD; Emily Teeter, MD; Thomas Caranasos, MD; UNC Hospital

F164: Transcatheter Aortic Valve Replacement in the Setting of Severe Aortic Stenosis and Basal Septal Hypertrophy  
Warren Choi, MD; Amanda Fox, MD MPH; Aylcia Wanat-Hawthorne, MD; University of Texas Southwestern

F165: Emergency Coronary Artery Bypass Graft in an 18-Year-Old Male with Anomalous Coronary Artery Origin  
Jackson Condry, MD; Eric Nelson, DO; Valerian Fernandez, MD; Medical University of South Carolina

F166: Combined Carotid and Coronary Revascularization in a Patient with High-Grade Asymptomatic Unilateral Carotid Stenosis Presenting with Non-ST-Segment Elevation Myocardial Infarction  
Maurice Davis, MD; Benu Makkad, MD; University of Cincinnati Medical Center

F167: Recurrent Hemorrhagic Pericardial Effusions Resulting from an Unrecognized Right Atrioventricular Tumor Discovered by Transesophageal Echocardiography (TEE)  
Yenabi Keflemariam, MD; Yong Peng, FASE MD PhD; University of Florida

F168: Long-Term Surgical Management in a Patient with a Partial Atrioventricular Septal Defect  
Jesse Morrison, MD; Bryant Wu, MD; University of Michigan

F169: A Rare Complication During Percutaneous Mitral Clippping and its Anesthesia Consideration  
Ghaida Abdulkarim, MD; Jacob Clark, MD; Galal Gargodhi, MD; St Elizabeth Medical Center, Boston, MA; Lahey Medical Center

F170: A Case of Acute Necrotizing Eosinophilic Myocarditis with a Fulminant Course and Successful Management with Biventricular Mechanical Support and Heart Transplantation  
Juan Perrone, MD; Serguei Melnitchouk, MD MPH; David D’Alessandro, MD; Sunu Thomas, MD; Stephanie Moore, MD; Gaston Cudemus, MD; Massachusetts General Hospital

F171: Paravalvular Regurgitation Through Left Atrial Appendage Fistula After Mitral Valve Replacement  
Luke Liang, MD; Andrew Feider, MD; McGaw Medical Center of Northwestern University

F172: A Single Immobile Leaflet Following Placement of a Mechanical Bileaflet Mitral Valve Prosthesis  
Justin Tong, MD; Antonio Conte, MD; Rebecca Aron, MD; Alfredo Trento, MD; Cedars Sinai Medical Center

F173: The Perioperative Management of a Rare Case of Idiopathic Mediastinitis  
Charles Minh, MD; Samuel DeJoy, MD; Case Western Reserve/MetroHealth

F174: Cold Agglutinins: A Chilling Tale  
Kate Liberman, MD; Nicole Tomasello, CCP LP; John Fox, MD; Brigham and Women’s Hospital

F175: Right Ventricular Failure Due to RCA Ostial Thrombus After Aortic Valve Replacement  
Ying Hui Low, MD; Frederick Lombard, MBChB FANZCA; Duke University Hospital

F176: A 3-Year-Old with Aortopulmonary Window and Moyamoya Disease: A Genetic Connection  
Ashley Gabrielsen, DO; Eric Ursprung, MD; University of Massachusetts

F177: Catastrophic Idiopathic Spontaneous Coronary Artery Dissection in an Athletic Young Woman Requiring Staged VA- ECLS Configuration Changes as Bridge to Transplant  
Nathaniel Brown, MD PhD; Gregory Weiss, MD; University of Colorado Hospital
Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 2

Saturday, April 2, 5–6 pm

F178: Bilateral Impella Insertion for Refractory Biventricular Failure
Walead Hessami, MD; James Abernathy, FAHA FASE MD MPH; Medical University of South Carolina

F179: Management of Noncardiac Surgery in Patients with Ventricular Assist Devices
Jasmine Ryu, DO; Antolin Flores MD; The Ohio State University

F180: Aorta-Right Ventricular Fistula in Recurrent Infective Endocarditis
Samira Sihabdeen, MD; Pierre LeVan, MD; Jenny Kwak, MD; Loyola University Medical Center

F181: Impella Assisted Valvuloplasty as a Bridge to Transcatheter Aortic Valve Replacement (TAVR)
Sapna Govindan, MD; Amit Bardia, MBBS; Mario Montealegre-Gallegos, MD; Colin Nabb, MD; Robert Leckie, MD; Beth Israel Deaconess Medical Center

F182: Imaging of the Superior Vena Cava for Central Line Catheter Positioning
Olabode Ogunwole, MD; Steven Lindauer, MD; Luiz Maracajá Neto, MD; University of Texas Health Science Center, San Antonio

F183: 3D Transesophageal Echocardiography Evaluation of an Improperly Positioned Impella Device
Courtney Castoro, MD; Sarah Armour, MD; Mayo Clinic

F184: Pericardial Tamponade-Induced Right Ventricular Free Wall Rupture: Echocardiographic Diagnosis
Peter Gerst, DO; Joshua Baisalen, MD; Matthew McConnell, MD; Daniel Cormican, MD; Allegheny Health Network

F185: Valve Thrombosis in an On-X Valve in the Aortic Position: A Case Report
Melissa Lamrissi, MD; Eric Ursprung, MD; Modupeola Diyaolu, BA; UMass Memorial Medical Center; University of Massachusetts Medical School

F186: Extracorporeal Membrane Oxygenation Cannula Associated Thrombus Removal Using an AngioVac Cannula
Oswaldo Razo Vazquez, MD; Nichlesh Patel, MD; University of California, San Francisco

F187: Postoperative ST Elevation Myocardial Infarction STEMI: After Removal of Pericardial Cyst
Scott Korfhagen, MD; Benu Makkad, MD; University of Cincinnati Medical Center

F188: Type A Dissection and Aortic Root Rupture After Endovascular Repair of Type B Dissection
Tyson Smith, MD; Matthew McConnell, MD; Joshua Baisalen, MD; Allegheny Health Network

F189: A Case of Bialtrial Thrombi
Mabel Chung, MD; Timothy Tan, MD PhD FRACP FCSANZ FESC; George Tolis, MD; Massachusetts General Hospital

F190: Anesthetic Concerns for Reoperative Ascending Aortic Aneurysm Repair and Aortic Valve Replacement in a Patient with Vascular Ehlers Danlos Syndrome
Joshua Augustin; Cleveland Clinic

F191: Esophageal Perforation During TEE: Two Cases; Two Clinical Presentations
Belinda Lee, MD; Ioanna Apostolidou, MD; Michael Wall, MD FCCM; Daniela Orza, MD; University of Minnesota

F192: Treatment of LVAD Associated Severe Aortic Insufficiency with Percutaneous Aortic Valve Closure
Richard Webb, MD; Daniel Castillo, MD; University of Mississippi

F193: Pre-Incision Transesophageal Echocardiographic Detection of Absence of Aortic Valve Mass Resulting in Avoidance of Cardiac Surgery
Lance Doeden, MD; Tara Brakke, FASE MD; University of Nebraska Medical Center

F194: Open Rescue for an Embolized Left Ventricular TAVR Valve
Lateef Opabola, MD; Albert Robinson, MD; University of Florida

F195: Intermittent Right to Left Shunting After a Right Pneumonectomy Presenting as Platypnea-Orthodeoxia
Agnieszka Lesicka, MD; Andreas Mauer, MD; Igor Palacios, MD; Gaston Cudemus, MD; Massachusetts General Hospital

F196: Anesthetic Considerations for Aortic Root Replacement with a Valve-Graft in a Patient with Loeys-Dietz Syndrome
Mallikarjun Reddy, MD MPH; Richard Webb, MD; Massachusetts General Hospital

F197: Coagulation Assessment After Plasmapheresis Prior to Lung Transplantation
Andrew Grabbe, MD; Kenichi Tanaka, MD MS; Seema Deshpande, MD; John McNeil, MD; University of Maryland School of Medicine

F198: Transesophageal Echocardiography TEE: Used to Guide Therapy in Peripartum Pulmonary Embolism
Ryan Parker, MD; Huong Le, MD; Brian Gelfand, MD FACS; University of Florida

F199: Redo Sternotomy for Late Pseudoaneurysm and Right Ventricular Compression Following Total Aortic Arch Replacement for Luetic Aortopathy
Robert Ginnebaugh, MD; Ross Hanson, MD; Levi Bassin, MD PhD; Hari Mallidi; Agnieszka Trzcinka, MD; Brigham and Women’s Hospital

F200: Case Series of Hypertrophic Cardiomyopathy
Sarah Burke, MD; Hung Nguyen, MD; University of California, San Francisco
Resident/Fellow Complex Case Presentations

F201: Percutaneous Tricuspid Valve-in-Valve Replacement
Kinza Sentissi, MD; Sergey Karamnov, MD; K. Annette Mizuguchi, MD PhD MMSc; Dirk Varelmann, MD DESA EDIC; Douglas Shook, MD FASE; Pinak Shah, MD; Brigham and Women's Hospital

F202: Unrecognized Cold Agglutinins and a Stenotic Coronary Sinus: The Perfect Storm
Suraj Yalamuri, MD; Sharon McCartney, MD; Tera Cushman, MD MPH; Michele Heath, CCP; Cory Maxwell, MD; Duke University Medical Center; Durham Veterans Affair Medical Center

F203: Left Heart Bypass and Lumbar Drain Help Preserve Motor Function in Open Thoracoabdominal Aortic Aneurysm Repair Under Total Intravenous Anesthesia
Jeffrey Olech, MD; Joseph Sanders, MD; Henry Ford Hospital

F204: Operative Intervention for Right Ventricular Failure from High-Grade Spindle Cell Sarcoma Metastatic to the Main Pulmonary Artery
Thomas Kral, MD; James Ramsay, MD; University of California, San Francisco

F205: Broken Heart Syndrome After Fixing Thoracic Aortic Aneurysm
Vaibhav Bora, MD; Negmeldeen Mamoun, MD PhD; Cleveland Clinic

F206: Use of Ultrasound—Tagged Near-Infrared Spectroscopy and Near-Infrared Spectroscopy in a Patient Undergoing Deep Hypothermic Circulatory Arrest
Bradlee Bachar, MD; Neal Fleming, MD PhD; Tzu-Ang (Leon) Li, BS; UC Davis Health System; University of California, Davis

F207: Transhepatic Atrial Septal Defect and Patent Foramen Ovale Closure in a Patient with Platypnea-Orthodeoxia Syndrome and Interrupted Inferior Vena Cava
Kristi Lorenzen, MD; Katie Goergen, MD; University of Nebraska Medical Center

F208: Elective Extra Corporeal Membrane Oxygenation Cannulation for Cesarean Section in a Patient with Severe Pulmonary Hypertension and Right Ventricular Dysfunction
Santiago Rojas Paez; Charles Hill, MD; Stanford University Hospital and Clinics

F209: Intravenous Epoprostenol in a Patient with Heparin Induced Thrombocytopenia for Cardiopulmonary Bypass
Tarang Safi, MD; Jim Wong, MD MS; Stanford University

F210: Right Heart Failure from a Right Coronary Artery Infarct from an Acute Formation of an Aortic Root Thrombosis Following Left Ventricular Assist Device Implantation
Brian Gebhardt, MD MPH; Stefan Ianchulev, MD; Ankit Jain, MBBS; Fredrick Cobey, MD MPH FASE; Tufts Medical Center

F211: Intraoperative Evaluation of the Mitral Valve in Dextrocardia
Sara Nikravan, MD; Albert Cheung, MD; Stanford University

F212: A Breath of Fresh Air—Managing a Veno-Venous ECMO Bridge to Bilateral Lung Transplantation
Gregory Mickus, MD; Archer Martin, MD; Mayo Clinic Florida

F213: Nonfloatable Swan…Look at the Anatomy!
Lakshmi Penugonda, MD; Ranjani Venkataramani, MD FRCA; Mauricio Garrido, MD; Rohinton Morris, MD; Engy Hanna, MD; Hahnemann University Hospital, Drexel University College of Medicine; Abington-Jefferson Health

F214: Do I Need Lung Protection or Lung Isolation? A Case Report and Review of Literature for One-Lung Ventilation Guidelines
Jian Azimi-Bolourian, MD; John Zaki, MD; University of Texas at Houston

F215: Resection of a Large Vertebral Artery Aneurysm with Cardiopulmonary Bypass and Deep Hypothermic Circulatory Arrest: Considerations and Challenges
Nazish Hashmi, MD; Nathan Waldron; Nicole Guinn, MD; Mani Daneshmand, MD; Ali Zomorodi, MD; Brandi Bottiger, MD; Duke University Medical Center

F216: The Importance of a Thoughtful Approach to a Complicated Post-Pneumonectomy Case
Wendy Smith, MD; Jessica Tashjian, MD; University of California at San Francisco
Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 3

Sunday, April 3, 7–8 am

Seaport AB (2nd Level)

F217: Pacemaker Lead Perforation Presenting as Chest Wall Pulsation
Brandon Smoller, MD; Stephanie Cintora, MD; University of Massachusetts

F218: Postoperative Hemodynamic Instability in the Setting of a Right Atrial Hematoma After Combined a Coronary Artery Bypass Graft, Tricuspid Valve Repair and Cox-Maze Procedure
Brent Barta, DO; Donn Marciniak, MD; Cleveland Clinic Foundation

F219: "The PA Just Exploded!": Adventures in the Adult Congenital Cardiac OR
Alina HULSEY, MD; Michael Plakke, MD; Cory Maxwell, MD; Duke University Medical Center

F220: Transesophageal Echocardiography Aides in Intraoperative Decision Making During Resection of Renal Cell Carcinoma with Inferior Vena Cava Extension
Meghan Brennan, MD; Jonathan Hadaway, MD; Albert Robinson, MD; University of Florida

F221: Extracorporeal Membrane Oxygenation Support for Percutaneous Coronary Intervention in the Post-Cardiac Arrest Patient
Kevin Wang, MD; John Lawrence, MD MED; Benu Makkad, MD; University of Cincinnati College of Medicine

F222: Incidental Aortic Valve Mass: A Fibroelastoma or a Septic Thrombus?
Waqas Anjum, MD; Sankalp Sehgal, MD; Hahnemann University Hospital

F223: Hybrid TEVAR Procedures in Thoracic Aortic Aneurysms: A Promising Approach
Gerald Rosen, MD; Jonathan Howard, MD; Jayanand D’Mello, MD; S. Howard Wittels, MD; Mount Sinai Medical Center of Florida

F224: Transapical Transcatheter Tricuspid Valve-In-Ring Implantation in a Patient with History of D-Transposition of the Great Arteries Status Post Mustard Procedure
Ivana Radeva, MD; Jamil Aboulhosn, MD FACC FSCAI; Brian Reemtsen, MD; Johanna Schwarzenberger, MD; University of California, Los Angeles

F225: Cardiac Tamponade During Percutaneous Mitral Valve Repair
Austin Adams, MD; M. Megan Chacon, MD; University of Nebraska Medical Center

F226: Severe Hemodynamic Instability from Loss of Atrioventricular Synchrony After Composite Aortic Valve Graft Replacement
Dean Bowker, MD; Jessica Brodt, MD; Stanford University Medical Center

F227: Left Atrial Membrane: Cor Triatriatum; Supravalvular Mitral Ring; or Artifact?
Daniel Kinney, MD; Manuel Fontes, MD; Irena Vaitkeviciute, MD; Yale University

F228: Convergent Procedure—New Challenge to Cardiac Anesthesiologists in Electrophysiology Labs: A Case Report and Anesthetic Management
Fadi Farah, MD; Sohail Mahboobi, MD; Lahey Clinic Medical Center

F229: Intracardiac Thrombus Formation with Subsequent Left Ventricular Dysfunction in a Patient Undergoing Aortic Valve Replacement for Aortic Stenosis
Barden Berry, MD; Morgan Marino, MD; Priya Kumar, MD; Susan Martinelli, MD; University of North Carolina Hospitals

F230: Fatal Cardiac Thrombosis Following Factor VII Administration During Postoperative Extracorporeal Membrane Oxygenation Support
Bradley Hammond, DO; Gordon Morewood, MD MBA FASE; Marshall Lee, MD; Akira Shiose, MD PhD; Temple University Hospital System

F231: Anesthetic Considerations for Cardiopulmonary Bypass in a Malignant Hyperthermia Susceptible Patient
Purav Patel, MD; Melissa Burger, MD MS; Bill Rippe, DO; JL Reeves-Viets, MD MBA; University of Missouri, Columbia

F232: Retained AICD Lead after Failed Laser Extraction Causing Persistent Vancomycin-Resistant Enterococcus Bacteremia
Michael Plakke, MD; Jonathan Mark, MD; Duke University Medical Center

F233: Immediate Left Ventricular Outflow Tract Obstruction Caused by Native Anterior Mitral Leaflet After Mitral Valve Replacement
Hussam Nagm, MD; Sohail Mahboobi, MD; St. Elizabeth’s Medical Center/ Tufts University School of Medicine; Lahey Clinic Medical Center

F234: An Unusual Finding of Mediastinal Lymphadenopathy by TEE in an Emergent Pericardial Window for Iatrogenic Ventricular Puncture
Blake Moore, MD; Chandrika Garner, MD; Wake Forest University Health System

F235: The Significance of Sudden Increase of Mixed Venous Oxygen Saturation in a Patient on ECMO
Cornel Mihalache, MD; Jason Johnson; Northwestern University

F236: Refractory Hypotension on Cardiopulmonary Bypass in a Patient with Kartagener Syndrome Undergoing Bilateral Lung Transplant
Chad Talarek, MD; Mina Ofiadeh, DO; Pierre LeVan, MD; Jenny Kwak, MD; Loyola University Medical Center
Resident/Fellow Complex Case Presentations

F237: Acute Cor Pulmonale following Pulmonary Embolectomy in Transplanted Lung
Wesley Allen, MD\(^1\); Danny Ramzy, MD PhD\(^1\); Antonio Conte, MD\(^1\); Diba Daneshrad, MD\(^1\); Cedars-Sinai Medical Center\(^1\)

F238: Stepwise Intraoperative Management of Renal Cell Carcinoma with IVC Thrombosis
Matthew Troum, MD\(^1\); Gordon Morewood, MD MBA FASE\(^2\); Andreas Karachristos, MD\(^1\); Marc Smaldone, MD MSHP\(^1\); Temple University Hospital\(^1\)

F239: Global Hypokinesis after Placement of Ascending Aortic Graft Utilizing del Nido Cardioplegia
Matthew Engel, MD\(^1\); Cleveland Clinic Foundation\(^1\)

F240: Unexplained Intraoperative Hyperkalemia During Elective Cardiac Surgery
Blake Perkins, MD\(^1\); Mark Chaney, MD\(^1\); University of Chicago\(^1\)

F241: Bivalirudin for Off-Pump Coronary Artery Bypass Grafting in a Patient with a Reported History of Heparin Anaphylaxis
Suzana Zorca, MD\(^1\); Virginia Commonwealth University Hospitals\(^1\);

F242: Right Ventricular Cardiac Calculified Amorphous Tumor an Outflow to Inflow Problem Outlining the Utility of Multi-Modal Echocardiographic Imaging
Paul Su, MD\(^1\); Oswaldo Razo Vazquez, MD\(^1\); Victor Ng, MD\(^1\); University of California, San Francisco\(^1\)

F243: Hypertension on Bypass: A Sign of Cerebral Air Embolism
Jacob Schaff\(^1\); Robert Kong, MD\(^1\); Paul Weyker, MD\(^1\); Bessie Kachulis, MD\(^1\); Columbia University Medical Center—NYP\(^1\)

F244: Pulmonary Hemorrhage and Bronchopleural Fistula Formation Complicating Open Repair of a Thoracoabdominal Aortic Aneurysm
Justin Carbonello, MD\(^1\); Montefiore Medical Center\(^1\)

F245: Pulmonary Artery Kinking Causing Acute Right Ventricular Failure after Heart Transplantation
Marya Leahy, MD\(^1\); Andrew Baudo, MD\(^1\); Northwestern University\(^1\)

F246: Large Unruptured Sinus of Valsalva Aneurysm Presenting as NSTEMI
Michael Dorbad, DO\(^1\); Bradford Cardonell, MD\(^1\); Barry Marks, DO\(^1\); Geisinger Medical Center\(^1\)

F247: Management of Acute Right Ventricular Failure and the Benefits of Temporary Mechanical Support Following Emergent Pulmonary Artery Embolectomy
Oscar Lopez, MD\(^1\); Spencer Drotman, MD\(^1\); Jennie Ngai, MD\(^1\); NYU Langone Medical Center\(^1\)

F248: Severe, Unexplained Lactic Acidosis during Cardiopulmonary Bypass
Sean Claar, MD\(^1\); Ryan Bialas, MD\(^1\); Lavinia Kolarczyk, MD\(^1\); E. Willis Weyers, MD\(^1\); Emily Teeter, MD\(^1\); University of North Carolina, Chapel Hill\(^1\)

F249: Continuous Spinal Anesthesia for the Management of Pregnant Patient with Pulmonary Hypertension and Severe Right Ventricular Dilation
Hector Casiano, MD\(^1\); Manuel Torres, MD\(^1\); Marcelle Hernandez, MD DABA\(^1\); University of Puerto Rico\(^1\)

F250: Persistent Mitral Regurgitation and Systolic Anterior Motion After Edge-to-Edge Repair and Mitral Valve Annuloplasty
Shaconda Junious, MD\(^1\); Jeffrey Gaca, MD\(^1\); Nazish Hashmi, MBBS\(^1\); Brandi Bottiger, MD\(^1\); Duke University Medical Center\(^1\)

F251: Acute Right Ventricular Failure after Orthotopic Liver Transplant Treated With Percutaneous Right Ventricular Assist Device: An Ethics Discussion
Ryan Noska, MD\(^1\); Breck Finzer, MD\(^1\); Ping Wang, MD\(^1\); University of Cincinnati Medical Center\(^1\)

Daniel Castillo, MD\(^1\); Rene Hulet, DO\(^1\); Christian Oliver, MD\(^2\); University of Florida\(^1\); University of Mississippi Medical Center\(^2\)

F253: Tracheal Sternal Fistula after Cardiac Surgery
Reny Henderson, MD\(^1\); Wendy Bernstein, MD MBA\(^1\); University of Maryland School of Medicine\(^1\)

F254: A Patient with Severe Hemophilia a Going for Cardiac Surgery Leads to a Protocol Driven Approach for Hemostasis
R. Scott Medearis, DO\(^1\); Mohamed Gaber, MD\(^1\); Vikas Kumar, MD\(^1\); Medical College of Georgia\(^1\)

F255: Immobility of Mechanical Mitral Valve Leaflet Due to Residual Subvalvular Apparatus Detected By Intraoperative TEE
Morgan Marino, MD\(^1\); Emily Teeter, MD\(^1\); Barden Berry, MD\(^1\); University of North Carolina Hospitals\(^1\)

F256: Massive Thrombosis after Prothrombin Complex Concentrate Administration in a Patient Undergoing Orthotopic Heart Transplantation
Joseph Gallombardo\(^1\); Himani Bhatt, DO MPA FASE\(^1\); Mt. Sinai Medical Center\(^1\)

F257: Repeated Resection of Intracardiac and Inferior Vena Cava Leiomyomas in a Patient with Intravenous Leiomyomatosis
Joshua Knight, MD\(^1\); Stephen Esper, MD\(^1\); Kathirvel Subramaniam, MD MPH\(^1\); University of Pittsburgh Medical Center\(^1\)

F258: Anesthetic Considerations in a Patient with Dextrocardia Complete Situs Inversus Undergoing Coronary Artery Bypass Graft
Alex Wakshinsky, MD\(^1\); Rana Badr, MD\(^1\); University of Massachusetts Medical School\(^1\)

F259: High Pressure Gradient After Aortic Valve Replacement; Is It Real?
Jiten Patel, DO\(^1\); Frederick Cobey, MD MPH FASE\(^1\); Stefan Ianchulev, MD\(^1\); Tufts Medical Center\(^1\)

F260: The Successful Anesthesia of Aortic Surgical Emergencies under Deep Hypothermic Circulatory Arrest in Young Children with Loeys-Dietz Syndrome
Yu Zhang, Master\(^1\); Lei Chen, MD\(^1\); Fu Wai Hospital\(^1\)
### Resident/Fellow Complex Case Presentations

#### Complex Case Poster Presentations: Session 3

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<td>Marissa Kauss, MD; Shane Gillespie, DO; David Barbara, MD; Sameh Said, MD; Mayo Clinic</td>
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<td>Transesophageal Echocardiographic Diagnosis of Tandem Heart Transplant Migration in the Operating Room</td>
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<td>Mitral Clipping and the Critical Role of the Cardiac Anesthesiologist</td>
<td>Sarah Arnold, MD; Gian Paparcuri, MD; Jackson Memorial Health System; University of Miami Health System</td>
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<td>Ryan Potosky, MD; Jenny Ngai, MD; NYU Langone Medical Center</td>
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<td>Management of a Patient with a Biventricular Assist Device with Subdural Hematoma</td>
<td>Anubhav Kapoor, MD; John McNeil, MD; Daniel Nyhan, MD; Johns Hopkins School of Medicine; University of Maryland Medical Center</td>
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<td>Tariq Naseem, MD; Justin Pollock, MD; Swapnil Khoche, MD; Dalia Banks, MD; University of California San Diego</td>
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<td>Muki Muthuswami, MD; University of Michigan</td>
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<td>Jordan Fennema, MD; Amy Young; University of Michigan</td>
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<td>Novel Approach to LVAD Outflow Tract Obstruction: Stenting of an LVAD Outflow Tract</td>
<td>Rachel Austin, MD; M. Megan Chacon, MD; University of Nebraska Medical Center</td>
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<td>Anesthetic Management of a Pediatric Patient on Paracorporeal Lung Assist Device Therapy; Undergoing Heart-Lung Transplantation</td>
<td>Clair Secomb, MD; Danton Char, MD; Stanford University, School of Medicine; Stanford University</td>
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<td>F271</td>
<td>Unilateral Pulmonary Edema Following Robotic Mitral Valve Repair Treated With Venoarterial Extracorporeal Support</td>
<td>Paul Villalba, MD; Ahmad Adi, MD; Balaram Anandamurthy, MD; Cleveland Clinic Foundation</td>
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<td>Third Time’s A Charm: The Utility of TEE to Guide the Third Operative Repair of a Recurrent and Massive Left Ventricular Pseudoaneurysm in a 33-Year-Old Patient with Behcet’s Disease</td>
<td>Lee Goeddel, MD; Mary Beth Brady, MD; Wei Dong Gao, MD; Johns Hopkins University School of Medicine</td>
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<td>Rohesh Fernando, MD; Saumil Patel, MD; Prakash Patel, MD; University of Pennsylvania</td>
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<td>Camellia Asgarian, MD; Jennifer Hargrave, DO; Cleveland Clinic</td>
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<td>F275</td>
<td>Preoperative Diagnosis is Not Always Straightforward: A Case of a Double Interatrial Septum Appearing as an Atrial Myxoma</td>
<td>Julie Wyrobek, MD; Charles Brown, IV; Megan Kostibas, MD; Susan Mayer, MD; Duke Cameron, MD; Heather Hayanga, MD; Johns Hopkins Hospital; University of Pittsburgh Medical Center</td>
</tr>
<tr>
<td>F276</td>
<td>Bird-in-Cage Phenomenon Following Pericardectomy in a Severe Case of Constrictive Pericarditis</td>
<td>Elliott Woodward, MD; Nelson Burbano, MD; Lauren Cornella, MD; Brigham and Women’s Hospital</td>
</tr>
<tr>
<td>F277</td>
<td>Caseous Calcification of the Mitral Annulus: An Unusual Finding During Mitral Valve Repair</td>
<td>Suzana Zorca, MD; Genevieve Staudt, MD; Marco Zenati, MD; Rithy Srey, MS; Patrick Treanor, CCP; VA Boston Healthcare System; Massachusetts General Hospital</td>
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Exhibits Schedule

<table>
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<tr>
<th>Sunday, April 3</th>
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<tbody>
<tr>
<td><strong>Exhibits Open</strong></td>
<td>3–4 pm</td>
</tr>
<tr>
<td>Coffee with Exhibitors</td>
<td>3–4 pm</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Monday, April 4</th>
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<tbody>
<tr>
<td><strong>Exhibits Open</strong></td>
<td>7 am–3:30 pm and 5:30–6:30 pm</td>
</tr>
<tr>
<td>Breakfast with Exhibitors</td>
<td>7–8 am</td>
</tr>
<tr>
<td>Coffee with Exhibitors</td>
<td>10–10:30 am</td>
</tr>
<tr>
<td>Lunch with Exhibitors</td>
<td>12:30–1:30 pm</td>
</tr>
<tr>
<td>Coffee with Exhibitors</td>
<td>3–3:30 pm</td>
</tr>
<tr>
<td>Reception in Exhibit Hall</td>
<td>5:30–6:30 pm</td>
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<tr>
<th>Tuesday, April 5</th>
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<tbody>
<tr>
<td><strong>Exhibits Open</strong></td>
<td>7 am–1:30 pm</td>
</tr>
<tr>
<td>Breakfast with Exhibitors</td>
<td>7–8 am</td>
</tr>
<tr>
<td>Coffee with Exhibitors</td>
<td>10–10:30 am</td>
</tr>
<tr>
<td>Dessert with Exhibitors</td>
<td>12–1:30 pm</td>
</tr>
</tbody>
</table>

Exhibitors
3M Health Care
Accriva Diagnostics
American Society of Anesthesiologists
Anesthesiology News
Biomed Simulation
Cerus
Curbell Medical
ECOM Medical
Elsevier
GE Healthcare
Grifols
HAEMONETICS®
Helena Point of Care
Hitachi Aloka Medical
Karl Storz Endoscopy-America, Inc.

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Mennen Medical
Mylan
National Board of Echocardiography, Inc.
NorthStar Anesthesia
Ornim, Inc.
Philips Healthcare
Pikeville Medical Center
Preferred Physicians Medical
rEVO Biologics, Inc.
Siemens Healthcare USA
TEM Systems
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May 1–6, 2016
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Atlanta, GA

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**Advanced PTEeXAM and ReAPTE** .......... Monday, July 11, 2016  
**Basic PTEeXAM** ................................................. Monday, July 18, 2016

**Deadlines to Submit Applications — Advanced PTEeXAM and ReAPTE**  
Early Registration ........................................ Mon., March 14, 2016 before 12:00pm EST  
Late Registration ........................................ Mon., May 16, 2016 before 12:00pm EST

**Deadlines to Submit Applications — Basic PTEeXAM**  
Early Registration ........................................ Mon., March 21, 2016 before 12:00pm EST  
Late Registration ........................................ Mon., May 16, 2016 before 12:00pm EST

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Grocott et al. Perioperative increase in global blood flow to explicit defined goals and outcomes after surgery: a Cochrane systematic review. Br J Anaesth 2013

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