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Dear colleagues,

Welcome to Chicago and thank you for attending SCA's 41st Annual Meeting & Workshops! We’re confident that this meeting will provide countless opportunities to enhance your knowledge and celebrate our specialty with your peers. The educational programming is full of research, recent advancements, and innovative content designed to explore contemporary care and examine the best pathways to advance care for the future.

The Scientific Program Planning Committee has created a program that will stimulate ideas, questions, discussion, and friendly debate. The conference features speakers who are anesthesiologists, surgeons, cardiologists, perfusionists, research scientists, and more; content-rich workshops that focus on skill building; daily Problem-Based Learning Discussions for small-group interaction; and over 450 scientific abstracts and challenging case presentations.

We hope that you will take advantage of every opportunity to expand your knowledge by attending a variety of sessions and networking with the field’s leading professionals.

We look forward to seeing you and hope you enjoy your time in Chicago!

Best wishes,

Michael P. Eaton, MD
Scientific Program Committee Chair, 2019–2020

Christopher A. Troianos, MD FASE
SCA President, 2017–2019
### Schedule at a Glance

**Saturday, May 18**

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<td>Fellow &amp; Resident Program</td>
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<td>Grand Ballroom B</td>
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<td>Atrial Fibrillation and Arrhythmia</td>
<td>Adult Cardiac Anesthesia Tasting Menu</td>
<td>Cardi thoracic Critical Care</td>
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<td>Grand Ballroom C–F</td>
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<td>Refresher Course Lectures</td>
<td>SCA/STS: Interventions for the Mitral Valve</td>
<td>Complicated Cases in Cardiac Coagulation</td>
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<td>Quality Safety</td>
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**Sunday, May 19**

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<td>Columbus A–D</td>
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<td>Workshop 5: Mechanical Circulatory Systems</td>
<td>Workshop 6: Interventional Workshop</td>
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<td>Perioperative Delirium in CT Surgery</td>
<td>Research: Frontiers of Knowledge</td>
<td>Best of Meeting Oral Abstracts 1</td>
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<td>Academic Anesthesia Session</td>
<td>EACTA Session</td>
<td>Rethinking the Unthinkable</td>
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General Information

CME Information
Attendees can review general continuing medical education (CME) information for the meeting, including learning objectives and faculty financial disclosures, by visiting www.scahq.org/AnnualMeeting.

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

Designation Statement
The Society of Cardiovascular Anesthesiologists designates this live activity for a maximum of 37 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

How to Claim Your CME
To claim CME credit, visit www.scahq.org/evaluations to complete your 2019 Annual Meeting evaluations. You must complete the evaluations by August 30, 2019, to claim credit. The deadline will not be extended.

Earn MOCA® Credit
The CME credits you earn at the Annual Meeting can help fulfill your ABA Maintenance of Certification in Anesthesiology™ Part II credit requirement. Now, you also can earn Patient Safety credits for select sessions. Part II Patient Safety sessions are identified by the MOCA icon in the schedule.

Please note: To qualify for MOCA credit, you must attend the full session and complete a session evaluation. SCA reports Society members’ Part II credits directly to ABA as a member benefit.

Maintenance of Certification in Anesthesiology™ program and MOCA® are registered trademarks of the American Board of Anesthesiology®.

This activity offers up to 37 CME credits, of which 3.5 credits contribute the patient safety CME component of the American Board of Anesthesiology’s redesigned Maintenance of Certification in Anesthesiology™ (MOCA®) program, known as MOCA 2.0®. Please consult the ABA website, www.theABA.org, for a list of all MOCA 2.0 requirements.

OnDemand Products
Annual Meeting OnDemand is an online library with more than 40 sessions from the meeting, including the Thoracic Anesthesia Symposium. Revisit sessions you attended and participate in those you missed—anytime, anywhere. Plus, earn additional CME credits. Visit the OnDemand sales desk located near the Grand Ballroom to purchase the product onsite for a discounted rate!

Disclaimer
The material presented in this activity represents the opinion of the speakers and not necessarily the views of SCA.
Media Use

Photography
Please be advised that throughout the meetings, photos may be taken for use in SCA marketing materials, including the e-newsletter and SCA Facebook and Twitter pages. If you do not consent to be photographed, please advise SCA management in writing at info@scahq.org.

Video Recording
By attending the SCA event or entering the event premises, you agree not to record or digitize any parts of the presentations.

Networking With Our Exhibitors
Annual Meeting exhibits will be located in Riverside East during the following hours:

Sunday, May 19 ........................................ 7 am–6:30 pm
Monday, May 20 ........................................ 7 am–1:30 pm

All attendees are invited to join our exhibitors and sponsors at the Opening Reception on Sunday evening from 5:30 to 6:30 pm in the exhibit hall. Light refreshments will be offered. Attendees will have the opportunity to network with colleagues and industry partners.

HOW TO CONNECT

You’re here. The content is great. You’re surrounded by the best and brightest from the field of cardiovascular anesthesiology and echocardiography. But are you getting the most from your attendance?

@scahq
#SCA2019

It’s time to connect.
Get up-to-date information on the meeting by following @scahq on Twitter or liking the SCA Facebook page.
SCA MEETING APP

Access the App

Abstracts, evaluations, and syllabi are available electronically. Attendees will have access to these materials before, during, and after the meeting on the meeting app. Access them two ways:

• Search SCA Meetings in your app store and download the app to your mobile device or tablet.
• Visit www.tripbuildermedia.com/apps/sca.

All preregistered attendees received meeting app login instructions prior to the start of the Annual Meeting. The meeting app can be accessed via a mobile device, tablet, or computer. Log in with the email you used to register and the password CHICAGO2019. Materials will be available through Fall 2019.

Session Engagement Tools

Polling allows speakers to ask the audience questions during their presentations and then display the responses in real time.

Use Social Q&A to submit your questions to the panelists during every presentation.

These engagement tools are found in the meeting app and will be used at nearly all sessions. Follow the steps below to access them.

• Click on the Schedule icon and select the session.
• Click on the Polling icon for both tools.
• Polling—When you see a question appear during the presentation, select the corresponding question under Polls to submit your response and watch as the votes come in!
• Social Q&A—Click the Ask button to submit a question. Did someone else already ask your question? Up-vote it by clicking the arrow icon.
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University of Texas Southwestern  
Dallas, TX

Ahmed Zaky, MD MPH  
University of Alabama at Birmingham  
Hoover, AL
Premier Lectures and Awards

**Keynote Lecture**

**David Lubarsky, MD MBA**

*New Technologies and Partnerships vs Old Behaviors*

David Lubarsky, MD MBA, is the vice chancellor of human health sciences and chief executive officer for UC Davis Health. He oversees UC Davis Health’s academic, research, and clinical programs, including the School of Medicine, the Betty Irene Moore School of Nursing, the 1,000-member physician practice group, and UC Davis Medical Center, a 625-bed acute-care hospital. With roughly 10,000 employees, nearly 800 students, an annual operating budget of $1.9 billion, and around 1 million outpatient visits each year, UC Davis Health is a major contributor to the health and economy of the Sacramento region and is a center of biomedical discoveries that help advance health around the world. Before joining UC Davis, Dr. Lubarsky served for 6 years as the chief medical officer and systems integration officer at the University of Miami Health System. UC Davis Chancellor Gary May calls him a problem solver and change maker. And if he has any free time, you can often find him on long rides around the region on his bike.

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**Earl Wynands Lecture**

**Annette Vegas, MDCM FASE FRCPC**

*Adult Congenital Heart Disease (ACHD): Past, Present, and Future*

Annette Vegas, MDCM FASE FRCPC, graduated from medical school at McGill University and completed her anesthesia residency at the University of Toronto. Following a cardiac anesthesia fellowship at Toronto General Hospital (TGH), Dr. Vegas became an attending staff anesthesiologist at TGH in 1994, where she continues to practice in the operating room and cardiovascular intensive care unit. She further trained in transesophageal echocardiography and is a former Director of Perioperative Echocardiography at TGH.

Dr. Vegas’s clinical interests include cardiac anesthesia, adult congenital heart disease, and transesophageal echocardiography. In her commitment to continuing education, she has authored and edited books on echocardiography and written several book chapters and papers. In addition, she serves as a developer of the TGH Department of Anesthesia Perioperative Interactive Education educational website and continues to deliver lectures at many international meetings. Dr. Vegas is a well-respected educator and has been honored with awards for continuing medical education and teaching.
**SATURDAY, MAY 18**

**6:30 am–6 pm**
Grand Ballroom Registration
Registration Open

**7–8 am**
**Problem-Based Learning Discussions (PBLDs)**
See page 35 for full schedule. Separate registration required.

**7–8 am**
Continental Breakfast

**8–10 am**
Refresher Course Lectures
Moderator: Michael Eaton, MD

- 8–8:25 am  Tricuspid Valve: What’s New in Imaging and Therapies
  **Michele Sumler, MD**
- 8:25–8:50 am  Ultrasound and the CV Anesthesiologist in 2019
  **Bruce Bollen, MD**
- 8:50–9:15 am  SCA Improving Quality of Care: The CPI Initiative
  **Nanette Schwann, MD**
- 9:15–9:40 am  It’s Not (Just) About the Money: What Every CV Anesthesiologist Must Know About Healthcare Finance
  **Gordon Morewood, MD**
- 9:40–10 am  Panel Discussion With Audience Participation

**9 am–Noon**
Morning Workshops
See page 32 for full schedule. Separate registration required.

**10–10:30 am**
Coffee Break

**10:30 am–Noon**
Atrial Fibrillation and Arrhythmia
Moderator: Jonathan Ho, MD

- 10:30–10:50 am  SCA Atrial Fibrillation Clinical Practice Improvement Update
  **J. Danny Muehlschlegel, MD**
- 10:50–11:10 am  Chronic Atrial Fibrillation
  **Christopher Madias, MD**
- 11:10–11:30 am  Post-Op A-Fib
  **Nathan Waldron, MD**
- 11:30–11:50 am  A Comprehensive Approach to Atrial Fibrillation
  **Lawrence Lee, MD**
- 11:50 am–Noon  Panel Discussion With Audience Participation
### SATURDAY, MAY 18 (continued)

**10:30 am–Noon**

**Grand Ballroom C–F**

SCA/STS: Interventions for the Mitral Valve

*Moderator: Charles Nyman, MBCh*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:30–10:50 am</td>
<td>Repair or Replace? What Echo Data the Surgeon Needs to Know <strong>Marc Pelletier, MSc</strong></td>
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<tr>
<td>10:50–11:10 am</td>
<td>Percutaneous Mitral Repair—Are We There Yet? <strong>G. Burkhard Mackensen, MD</strong></td>
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<tr>
<td>11:10–11:30 am</td>
<td>Echo Evaluation: Past, Present, Future <strong>Chirojit Mukherjee, MD</strong></td>
</tr>
<tr>
<td>11:30 am–Noon</td>
<td>Case Presentation: Heart Team—Secondary/Primary MR-Open vs Percutaneous <strong>Jenny Kwak, MD</strong></td>
</tr>
</tbody>
</table>

**11 am–Noon**

**Riverside East**

Complex Case Poster Presentations: Session 1

*See page 48 for full details.*

**Noon–1 pm**

Lunch Break

**1–3:30 pm**

**Grand Ballroom C–F**

Quick Communications and Complicated Cases in Cardiac Coagulation

*Moderators: James Abernathy, MD; Michael Eaton, MD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1–1:20 pm</td>
<td>Heparin Resistance: What to Do When the ACT Gets You Down <strong>Mike Mazzeffi, MD</strong></td>
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<tr>
<td>1:20–1:40 pm</td>
<td>Concentrated Factors: What’s There to Concentrate On? <strong>Kenichi Tanaka, MD</strong></td>
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<tr>
<td>1:40–2 pm</td>
<td>NOACs: Know What???? <strong>Jerrold Levy, MD</strong></td>
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<td>2–2:20 pm</td>
<td>OK, It’s Really HITT, Now WhatTT? <strong>Alycia Wanat-Hawthorne, MD</strong></td>
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<tr>
<td>2:20–2:40 pm</td>
<td>Clopidogrel Tuesday, Surgery Today: OK? <strong>Nadia Hensley, MD</strong></td>
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<tr>
<td>2:40–3:30 pm</td>
<td>Case Discussions With Audience Participation</td>
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</tbody>
</table>

**1–3:30 pm**

**Grand Ballroom B**

Adult Cardiac Anesthesia Tasting Menu—A Little Something for Everyone

*Moderator: Mary Beth Brady, MD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1–1:15 pm</td>
<td>Perioperative Care of the Morbidly Obese Cardiac Surgical Patient <strong>J. Mauricio Del Río, MD</strong></td>
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<tr>
<td>1:15–1:30 pm</td>
<td>Hypertrophic Cardiomyopathy—May the Force NOT Be With You! <strong>Wei Dong Gao, MD</strong></td>
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<tr>
<td>1:30–1:45 pm</td>
<td>Craftsmanship vs Automation in Cardiac Anesthesia <strong>Tjorvi Perry, MD</strong></td>
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<tr>
<td>1:45–2 pm</td>
<td>Airway Management for Patients With Significant Cardiac Disease <strong>Peter Slinger, MD</strong></td>
</tr>
<tr>
<td>2–2:15 pm</td>
<td>Team Planning for High Risk Lead Extractions <strong>Brandon Lebow, MD</strong></td>
</tr>
<tr>
<td>2:15–2:30 pm</td>
<td>Interventional Echocardiography—What Is It? And How Does It Impact Income and Resources? <strong>G. Burkhard Mackensen, MD</strong></td>
</tr>
</tbody>
</table>
2:30–2:45 pm  Pipes, Plumbing, and Knobs—Basic Refresher on VADs and ECMO \textit{Jacob Gutsche, MD}

2:45–3 pm  Cardiac Surgery and Barely an Opioid in Sight: Why? Who? How? \textit{Rafael Cabrales, MD}

3–3:30 pm  Panel Discussion With Audience Participation

\textbf{1–3:30 pm}  \textbf{Grand Ballroom A}

\textbf{Fellow and Resident Program}

\textit{See page 31 for full details.}

\textbf{2:30–5:30 pm}  \textbf{Afternoon Workshops}

\textit{See page 33 for full schedule. Separate registration required.}

\textbf{3:30–4 pm}  \textbf{Grand Ballroom Foyer}

\textbf{Coffee Break}

\textbf{4–5 pm}  \textbf{Grand Ballroom A}

\textbf{Complex Case Discussion With Expert Panel}

\textit{Moderators: Tara Brakke, MD; Jacques Neelankavil, MD}

\textit{See page 48 for full details.}

\textbf{4–5:30 pm}  \textbf{Grand Ballroom C–F}

\textbf{Quality Safety: Advancing Teamwork}

\textit{Moderators: James Abernathy, MD; Nadia Hensley, MD}

\begin{itemize}
  \item 4–4:25 pm  The Current State of Teamwork Science: How Teamwork Research in Real and Simulated Environments Can Advance the Safety Agenda \textit{Sarah Henrickson Parker, PhD}
  \item 4:25–4:50 pm  What Cardiothoracic Teams Can Learn From Elite Performers: A Perspective on High Performance/Preventing Harm From a Non-Healthcare Professional \textit{Brian Ferguson}
  \item 4:50–5:15 pm  Lessons Learned Observing the Natives: Impact of Interpersonal Communication Style on Teamwork and Engagement \textit{Emmilie Aveling, PhD}
  \item 5:15–5:30 pm  Panel Discussion With Audience Participation
\end{itemize}

\textbf{4–5:30 pm}  \textbf{Grand Ballroom B}

\textbf{Cardiothoracic Critical Care: Adding Value}

\textit{Moderator: J. Mauricio Del Rio, MD}

\begin{itemize}
  \item 4–4:18 pm  What's the Paradigm of the Contemporary CT Critical Care Physician \textit{J. Mauricio Del Rio, MD}
  \item 4:18–4:36 pm  CTICU in the Private Practice Environment \textit{Juan Pulido, MD}
  \item 4:36–4:54 pm  Teaching Residents and Fellows CCM in the CTICU \textit{Mike Mazzeffi, MD}
  \item 4:54–5:12 pm  Co-managing Patients in the CTICU: Surgeon's View \textit{Aaron Cheng, MD}
  \item 5:12–5:30 pm  Panel Discussion With Audience Participation
\end{itemize}

\textit{The Maintenance of Certification in Anesthesia™ (MOCA®) Program logo is a trademark of the American Board of Anesthesiology.}
SUNDAY, MAY 19

6:30 am–6:30 pm 
Grand Ballroom Registration
Registration Open

7–8 am 
Problem-Based Learning Discussions (PBLDs)
See page 35 for full schedule. Separate registration required.

7–8 am 
Riverside East
Continental Breakfast With Exhibitors

8–9 am 
Grand Ballroom C-F
Earl Wynands Lecture
Moderator: Michael Eaton, MD
Adult Congenital Heart Disease: Past, Present, and Future Annette Vegas, MDCM

9–10:30 am 
Grand Ballroom C-F
VAD 2019: VAD Care in the OR and Beyond
Moderator: Nelson Thaemert, MD

9–9:20 am 
Echo for VAD Surgery: What Am I Looking For? Jonathan Leff, MD

9:20–9:40 am 
Right Ventricular Failure in Patients With LVAD Support Daryl Oakes, MD

9:40–10:05 am 
What Could Possibly Go Wrong? Troubleshooting a VAD: Power, RPMs, Cardiac Output, and More Mike Mazzeffi, MD

10:05–10:30 am 
Interactive Scenarios With Audience Participation

9 am–Noon 
Morning Workshop
See page 33 for full schedule. Separate registration required.

10:30–11 am 
Riverside East
Coffee Break With Exhibitors

11 am–12:30 pm 
Grand Ballroom C-F
SOCCA Session: ECMO 2.0—Beyond Cannulation
Moderator: Shahzad Shaefi, MD

11–11:20 am 
Epidemiology and Outcomes in Contemporary ECMO Leora Balsam, MD

11:20–11:40 am 
Setting up ECMO Retrieval Programs: Pitfalls, Challenges, and Results Jacob Gutsche, MD
11:40 am–Noon Dollars and Cents: How Profitable is ECMO and for How Long?  
_J. Mauricio Del Rio, MD_

Noon–12:20 pm ECMO in 2040: Emerging Technologies and Expanding Uses?  
_Thomas Graetz, MD_

12:20–12:30 pm Panel Discussion With Audience Participation

11 am–12:30 pm  
_Columbus E–F_

Perioperative Delirium in CT Surgery: Mechanisms and Strategies  
*Moderator: Sreekanth Cheruku, MD*

11–11:25 am Who’s at Risk for Delirium? Risk Factors and Pathophysiology  
_Charles Brown, MD_

11:25–11:50 am Intraoperative Strategies to Reduce the Incidence of Delirium  
_Isaac Lynch, MD_

11:50 am–12:15 pm My Patient Has Delirium! Now What?  
_Rakesh Arora, MD_

12:15–12:30 pm Panel Discussion With Audience Participation

11 am–12:30 pm  
_Columbus I–L_

Academic Anesthesia Session  
*Moderator: Jenn Hargrave, DO*

11–11:15 am Managing Expectations for Academic Time and Clinical Productivity  
_Andrew Shaw, MB_

11:15–11:30 am Teaching the Next Generation: Adult Learning Theory  
_Carlos Trombetta, MD_

11:30–11:45 am Teaching the Next Generation: Theory vs Reality—Applying the Science of Adult Learning to GME  
_Natalia Ivascu, MD_

11:45 am–Noon What Does Success Look Like for the Clinician-Scientist in 2019?  
_Mihai Podgoreanu, MD_

Noon–12:30 pm Panel Discussion With Audience Participation

12:30–1:30 pm  
_Riverside East_

Lunch Break With Exhibitors

12:30–1:30 pm  
_Riverside East_

Scientific Program Poster Presentations: Session 1  
*See page 39 for full details.*

1:30–3 pm  
_Grand Ballroom C–F_

Anesthesia & Analgesia State of the Art  
*Moderator: Nikolaos Skubas, MD*

1:30–1:55 pm Strain as a Predictor of Outcome After Cardiac Surgery  
_Gregory Hans, MD_

1:55–2:20 pm Forced Vital Capacity to Predict Lung Compliance During Thoracic Surgery  
_Aman Mahajan, MD_

2:20–2:45 pm Pulmonary Artery Pulsatility as Predictor of RV Failure in LVAD Patients  
_Frederick Cobey, MD_

2:45–3 pm Panel Discussion With Audience Participation
1:30–3 pm  
**EACTA Session: Potpourri From Across the Sea**  
*Moderator: Donna Greenhalgh, MD*

- **1:30–1:55 pm** Low Platelet Count Post-Surgery: HITT or Not HITT? *Timothy Hayes, MBChB*
- **1:55–2:20 pm** All Centers Should Have Mechanical Support Available  
  - **Pro:** *Blanca Martinez, MD*  
  - **Con:** *Chirojit Mukherjee, MD*
- **2:20–2:45 pm** Challenging TAVR Case Discussions *Joerg Ender, MD*
- **2:45–3 pm** Panel Discussion With Audience Participation

1:30–3 pm  
**Research: Frontiers of Knowledge**  
*Moderator: J. Danny Muehlschlegel, MD*

- **1:30–1:50 pm** Big Data Science *Miklos Kertai, MD*
- **1:50–2:10 pm** Protecting the Heart *Jennifer Lawton, MD*
- **2:10–2:30 pm** Personalized Medicine *Louis Saddic, MD*
- **2:30–2:50 pm** Top 5 Scientific Articles of the Year *Jacques Neelankavit, MD*
- **2:50–3 pm** Panel Discussion With Audience Participation

2:30–5:30 pm  
**Afternoon Workshop**  
*See page 34 for full schedule. Separate registration required.*

3–3:30 pm  
**Coffee Break With Exhibitors**

3–5:30 pm  
**Best of Meeting Oral Abstract and Early Career Investigator Award Presentations**  
*Moderator: J. Danny Muehlschlegel, MD*  
*See page 37 for full details.*

3:30–5:30 pm  
**Intraoperative Thoracic Disasters**  
*Moderator: Wanda Popescu, MD*

- **3:30–4 pm** Air, Give Me Air! Intraoperative Management of Tracheal Trauma *Alessia Pedoto, MD*
- **4–4:30 pm** No One Said There’d Be Days Like These—Intraoperative Management of Pulmonary Hemorrhage *Heather Hayanga, MD*
- **4:30–5 pm** What’s Your Echo Probe Doing in My Field? Management of Esophageal Injury From TEE *Rebecca Klinger, MD*
- **5–5:30 pm** Hypoxemia During One Lung Ventilation—Current Strategies to Predict, Prevent, and Treat *Daryl Oakes, MD*
3:30–5:30 pm  
**Rethinking the Unthinkable: Ethical Issues in CT Anesthesia**

Moderators: Jenn Hargrave, DO; Yasdet Maldonado, MD

- 3:30–3:55 pm  
  Destination to Where? Ethical Dilemmas in Mechanical Circulatory Support  
  **Michael O’Connor, DO**

- 3:55–4:20 pm  
  Futile vs Failure—Recognizing When to Start and Stop Resuscitative Efforts  
  **Claudia Viens, MD**

- 4:20–4:45 pm  
  When Doctors Slam the Door—Addressing the Disruptive Physician in the Cardiac OR  
  **Natalia Ivascu, MD**

- 4:45–5:30 pm  
  Panel Discussion With Audience Participation

5:30–6:30 pm  
**Opening Reception**

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**MONDAY, MAY 20**

6:30 am–4 pm  
**Grand Ballroom Registration**  
Registration Open

7–8 am  
**Problem-Based Learning Discussions (PBLDs)**

See page 35 for full schedule. Separate registration required.

7–8 am  
**Riverside East**  
Continental Breakfast With Exhibitors

8–10 am  
**Grand Ballroom C–F**  
**When the Healer Is Sick: Personal Stories of Surviving Burnout**

Moderator: Candice Montzingo, MD

- 8–8:30 am  
  Why We Don’t Last Longer: Burnout in the CV Anesthesiologist  
  **Susan Martinelli, MD**

- 8:30–8:55 am  
  Where There Is Burnout There Is Fire  
  **Tjorvi Perry, MD**

- 8:55–9:20 am  
  Keeping It Together While I Fell Apart  
  **Sasha Shillcutt, MD**

- 9:20–10 am  
  Panel Discussion With Audience Participation

10–10:30 am  
**Riverside East**  
Coffee Break With Exhibitors

10:30–11 am  
**Grand Ballroom C–F**  
**ASA Update**

Moderator: Christopher Troianos, MD  
Kenneth Elmassian, DO, ASA Secretary

11 am–Noon  
**Grand Ballroom C-F**  
**Keynote Lecture**

Moderator: Christopher Troianos, MD  
New Technologies and Partnerships vs Old Behaviors  
**David Lubarsky, MD**
MONDAY, MAY 20 (continued)

Noon–12:30 pm  
**Business Meeting and Awards**  
Moderator: Christopher Troianos, MD

12:30–1:30 pm  
**Lunch With Exhibitors**

12:30–1:30 pm  
**Scientific Program Poster Presentations: Session 2**  
See page 42 for full details.

1:30–3 pm  
**Transfusion Issues in Cardiac Surgery**  
Moderators: Kamrouz Ghadimi, MD; Linda Shore-Lesserson, MD

- 1:30–1:55 pm  
  Hemoglobin Levels and Transfusion Thresholds: Insights From the TRICS III Trial Investigators  
  **Alexander Gregory, MD**

- 1:55–2:20 pm  
  Bypass Hacks to Maximize the Potential of Your Red Cell Mass: Ultrafiltration, RAP, Microplegia, Mini-Circuits, and More!  
  **Prakash Patel, MD**

- 2:20–2:45 pm  
  How to Manage Bleeding in the Cardiac Surgical Patient When Blood Transfusion Is Not an Option  
  **Nicole Guinn, MD**

- 2:45–3 pm  
  Panel Discussion With Audience Participation

1:30–3 pm  
**Bench to Bedside: Best Evidence About Risk, Mechanism, and Therapy of Organ Injury for the Clinician**  
Moderators: Frederic Billings, MD; Shahzad Shaefi, MD

- 1:30–1:50 pm  
  Reperfusion Injury and Oxidative Stress—The Translational Story  
  **Frederic Billings, MD**

- 1:50–2:10 pm  
  Key Clinical Trials and Promising Avenues for AKI  
  **Amanda Fox, MD**

- 2:10–2:30 pm  
  Best Evidence for Brain Protection  
  **Hilary Grocott, MD**

- 2:30–2:50 pm  
  Best Evidence for Heart Protection  
  **Mihai Podgoreanu, MD**

- 2:50–3 pm  
  Panel Discussion With Audience Participation

1:30–3 pm  
**Building Expertise in the Care of the Adult Congenital Patient**  
Moderator: Adriaan Van Rensburg, MD

- 1:30–1:55 pm  
  Surgical Considerations for Adults With Congenital Heart Disease—How to Become a “Surgeon Whisperer”  
  **Glen Van Arsdell, MD**

- 1:55–2:20 pm  
  Perioperative Echocardiography in the Adult With Congenital Heart Disease  
  **Annette Vegas, MDCM**

- 2:20–2:45 pm  
  Perioperative Management Concepts for Adults With Congenital Heart Disease—The Keys to Success  
  **Jochen Steppan, MD**

- 2:45–3 pm  
  Panel Discussion With Audience Participation

3–3:30 pm  
**Coffee Break**
3:30–5 pm
Pay-for-Performance Is Here! Performance, Outcomes, and Dollars for the Cardiac Anesthesiologist
Moderator: Laurent Glance, MD

3:30–3:55 pm
New Developments and Challenges of Using NACOR to Measure the Performance of Cardiac Anesthesiologists for MIPS
Richard Dutton, MD

3:55–4:20 pm
Is There a Role for Cardiac Anesthesiologists in Bundled Payments and Accountable Care Organizations?
Amanda Rhee, MD

4:20–4:45 pm
Report Card on Payment Reform: Does It Deliver on Its Promise to Reduce Costs and Improve Quality?
Laurent Glance, MD

4:45–5 pm
Panel Discussion With Audience Participation

3:30–5 pm
Focus on POCUS
Moderator: Jonathan Ho, MD

3:30–3:50 pm
POCUS Is Here (and Everywhere Else)—Why You Care and What to Do About It
Douglas Shook, MD

3:50–4:10 pm
TTE Is Not POCUS and POCUS Is Not TTE—How Far Beyond the Heart?
Davinder Ramsingh, MD

4:10–4:30 pm
Nuts and Bolts of Formalizing a POCUS Practice
Bradley Coker, MD

4:30–4:50 pm
POCUS Certification Is Needed to Ensure Adequate Technical Skill and Cognitive Competency
Pro: Tara Brakke, MD
Con: Feroze Mahmood, MD

4:50–5 pm
Panel Discussion With Audience Participation

3:30–5:30 pm
Best of Meeting Oral Abstract Presentations
Moderator: Sasha Shillcutt, MD
See page 38 for full details.

5–6:30 pm
Echo Jeopardy
Moderators: Feroze Mahmood, MD; Andrew Maslow, MD; Peter Panzica, MD
Panelists: Frederick Cobey, MD; Donna Greenhalgh, MD; Reed Harvey, MD; Heather Lander, MD; Laeben Lester, MD; Timothy Maus, MD; Alina Nicoara, MD; Jessica Spellman, MD; Annette Vegas, MDCM

TUESDAY, MAY 21

6:30 am–4 pm
Grand Ballroom Registration
Registration Open

7–8 am
Problem-Based Learning Discussions (PBLDs)
See page 36 for full schedule. Separate registration required.
7–8 am  Grand Ballroom Foyer
Continental Breakfast

8–10 am  Grand Ballroom C–F
Working in the Dark: Interventional Cardiology in 2019
Moderator: Frederick Cobey, MD
8–8:20 am  TAVR 2019: Do You Even Need an Anesthesiologist? Prakash Patel, MD
8:20–8:40 am  Mitrailclip: Functional vs Degenerative Uses Richard Sheu, MD
8:40–9 am  Chronic Total Occlusion Intervention: Why and How? Jayakar Guruswamy, MD
9–9:20 am  What’s New in Percutaneous Valve Care? Feroze Mahmood, MD
9:20–9:40 am  Emerging Technologies: Are They Just Toys? Himani Bhatt, DO
9:40–10 am  Panel Discussion With Audience Participation

10–10:30 am  Grand Ballroom Foyer
Coffee Break

10:30 am–Noon  Columbus E–F
Evidence-Based Best Practice for Transplant
Moderator: Nelson Thaemert, MD
10:30–10:50 am  Heart Transplantation in 2019—What Are the Best Practices? Brian Gelfand, MD
10:50–11:10 am  Lung Transplantation in 2019—What Are the Best Practices? Jeffrey Swanson, MD
11:10–11:30 am  Ex-Vivo Lung Perfusion—What, How, and Why? Peter Slinger, MD
11:30–11:50 am  High-Risk Donors—What’s the Big Deal? M. Megan Chacon, MD
11:50 am–Noon  Panel Discussion With Audience Participation

10:30 am–Noon  Grand Ballroom C–F
Comprehensive Perioperative Care for the Cardiac Surgical Patient
Moderators: Heather Lander, MD; Jacques Neelankavil, MD
10:30–10:55 am  A Cardiac Surgeon’s Vantage Point: ERACS—Good for One or Good for All? HelenMari Merritt, DO
10:55–11:20 am  ERACS P&L: Cost or Savings? David Reich, MD
11:20–11:45 am  Prehabilitation vs Rehabilitation: The Practicality and Feasibility of Pre- and Postoperative Interventions Jessica Rydingsward, DPT
11:45 am–Noon  Panel Discussion With Audience Participation

10:30 am–Noon  Columbus I–L
Providing Leadership in the EP Lab in 2019
Moderator: Sreekanth Cheruku, MD
10:30–10:50 am  Navigating the EP Lab Environment Alina Nicoara, MD
10:50–11:10 am  Anesthesia for SVT Ablation Emily Methangkool, MD
11:10–11:30 am  Anesthesia for A. Fibrillation and A. Flutter Ablation Himani Bhatt, DO
11:30–11:50 am Anesthesia for VT Ablation Miklos Kertai, MD
11:50 am–Noon Panel Discussion With Audience Participation

Noon–1 pm
Scientific Program Poster Presentations: Session 3
See page 45 for full details.

1–2 pm
Problem-Based Learning Discussions (PBLDs)
See page 36 for full schedule. Separate registration required.

1–2 pm
Fireside Chat: Promoting Women Leaders
Moderator: Daryl Oakes, MD
1–1:25 pm Closing the Gender Gap: Promoting Women Leaders in Medicine Sasha Shillcutt, MD
1:25–1:50 pm Transformative Leadership Skills Janet Shlaes, PhD
1:50–2 pm Panel Discussion With Audience Participation

1–2:30 pm
Super Echo Panel Discussion
Moderators: Kathy Glas, MD; Timothy Maus, MD
Panelists: Joerg Ender, MD; Vidya Rao, MD; Ratna Vadlamudi, MD
(SE01) Guess the Mass—A CMAC Story Elvera Baron, MD; Himani Bhatt, DO
(SE02) The Mitral/Aortic Flow Velocity Integral Ratio in Mitral Regurgitation John Fox, MD; Frederick Cobey, MD
(SE03) 3D Imaging of a Thrombus-in-Transit Across a PFO: Guiding Multidisciplinary Decision Making in a Challenging Case Thomas Krall, MD; Catherine Chiu, MD; Revati Nafday, MD
(SE04) Intraoperative Diagnosis and Anesthetic Management of Acute Prosthetic Complications in Transcatheter Mitral Valve Replacement Cheuk Yin Lai, MD; Himani Bhatt, DO
(SE05) Echocardiographic Evaluation of CorMatrix Extracellular Matrix Tricuspid Valve Replacement Yasmin Maisonave, MD; Alina Nicoara, MD; Benjamin Brockbank, MD
(SE06) Complicated Fibrosing Mediastinitis Jeffrey Songster, MD; Rebecca Aron, MD; Tara Brakke, MD
(SE07) Left and Right Coronary Artery Fistula Draining Into Coronary Sinus Eleanor Vega, MD

2–3:30 pm
Emerging Topics in Aortic Surgery: Congenital Aortic Syndromes
Moderator: James Anton, MD
2–2:25 pm Clinical Decision Making and Management of the Ascending Aorta in Patients With a Bicuspid Aortic Valve Michael Joynt, MD
2:25–2:50 pm Marfan Syndrome: Surgical Options and Anesthetic Considerations Gregory Janelle, MD
2:50–3:15 pm Evaluating and Treating Aortic Insufficiency in the Young Adult
Kathryn Rouine-Rapp, MD
3:15–3:30 pm Panel Discussion With Audience Participation

2–3:30 pm Trends in Heart Failure Management
Moderator: Jenny Kwak, MD
2–2:17 pm Current Medical Management of Heart Failure Himabindu Vidula, MD
2:17–2:34 pm Temporary Mechanical Circulatory Support Jessica Spellman, MD
2:34–2:51 pm Economics of Heart Failure and Its Treatment Erik Anderson, MD
2:51–3:08 pm Update on the Heart Allocation System Marat Fudim, MD
3:08–3:30 pm Panel Discussion With Audience Participation

2–5 pm Afternoon Workshop
See page 34 for full schedule. Separate registration required.

2:30–5:30 pm Fellow and Resident TEE Review
Moderators: Tara Brakke, MD; Jacques Neelankavil, MD

3:30–4 pm Coffee Break

4–5:30 pm Management of Incidental Aortic Stenosis During CABG in the TAVR Era
Moderator: Paul Lennon, MD
4–4:20 pm Case Presentation Paul Lennon, MD
4:20–4:40 pm Current Criteria for AVR at Time of CABG Georges Desjardins, MD
4:40–5 pm TAVR Indications Yasdet Maldonado, MD
5–5:20 pm Anatomical Contraindications for TAVR Ravi Joshi, MD
5:20–5:30 pm Panel Discussion With Audience Participation

4–5:30 pm Right Heart: Supporting the “Other” Ventricle
Moderator: Candice Montzingo, MD
4–4:25 pm Why is Pulmonary Hypertension Important in the Preoperative Period? Jochen Steppan, MD
4:25–4:50 pm Medical Management: Inhaled Pulmonary Vasodilator Therapies for Preoperative Right Heart Failure André Denault, MD
4:50–5:15 pm Surgical Management: Criteria for Insertion of RV Assist Devices Jessica Spellman, MD
5:15–5:30 pm Panel Discussion With Audience Participation
# Schedule: Fellow and Resident Program

Fellow and Resident Program Director: Jacques Neelankavil, MD

## SATURDAY, MAY 18

**6:45–7:55 am**

**Explore Your Future: Structured Networking Circles**

Moderator: Kathy Glas, MD

RSVP required. Visit the registration desk for more information.

**11 am–Noon**

**Complex Case Poster Presentations: Session 1**

**1–2 pm**

**A Career in Cardiothoracic Anesthesiology: Mission Possible**

Moderators: Tara Brakke, MD; Jacques Neelankavil, MD

- How to Succeed in Your First Job
  - 1–1:20 pm **Michele Sumler, MD**
  - 1:20–1:40 pm **Heather Lander, MD**
  - 1:40–2 pm **Bruce Bollen, MD**

**2–3:30 pm**

**PBLD: Aortic Dissection**

Moderators: James Anton, MD; Ioanna Apostolidou, MD; Dalia Banks, MD; Wendy Bernstein, MD; Susan Eagle, MD; John Fox, MD; Reed Harvey, MD; Ryan Hood, MD; Raj Modak, MD; Daryl Oakes, MD; Douglas Shook, MD; Jeffrey Songster, MD; Nelson Thaemert, MD; Annemarie Thompson, MD; J. Clint Tippett, MD; Daniel Tolpin, MD; Justin Wilson, MD

**4–5 pm**

**Complex Case Discussion With Expert Panel**

Moderators: Tara Brakke, MD; Jacques Neelankavil, MD

Panelists: Dalia Banks, MD; John Fox, MD; Gregory Janelle, MD

See page 48 for details.

**5–6 pm**

**Complex Case Poster Presentations: Session 2**

## TUESDAY, MAY 21

**2:30–5:30 pm**

**Fellow and Resident TEE Review**

Moderators: Tara Brakke, MD; Jacques Neelankavil, MD

- 2:30–3 pm Ultrasound Physics **Daryl Oakes, MD**
- 3–3:30 pm Artifacts and Pitfalls **Michele Sumler, MD**
- 3:30–4 pm Hemodynamic Calculations **Mary Beth Brady, MD**
- 4–4:30 pm Congenital Heart Defects **Tiffany Williams, MD**
- 4:30–5 pm Prosthetic Valve Evaluations **Jonathan Leff, MD**
- 5–5:30 pm Panel Discussion With Audience Participation
Schedule: Hands-On Workshops
Workshop Coordinator: Mary Beth Brady, MD
Separate paid registration required.

SATURDAY, MAY 18

9 am–Noon  Columbus A–F
(WS1) Advanced TEE—Incorporating Advanced Echo Concepts Into Practice
Moderators: J. Mauricio Del Rio, MD; Kimberly Howard-Quijano, MD

Presentations:
- Right Ventricle Quantification  Feroze Mahmood, MD
- Mitral Valve Measurements  Stanton Shernan, MD
- Cardiac Deformation  Kimberly Howard-Quijano, MD
- Hemodynamic Calculations  Alina Nicoara, MD

Station Faculty:
- Right Ventricle Quantification  Georges Desjardins, MD; Feroze Mahmood, MD
- Mitral Valve Measurements  Stanton Shernan, MD; Douglas Shook, MD
- Cardiac Deformation  Kimberly Howard-Quijano, MD; Nikolaos Skubas, MD
- Advanced Cases/Hemodynamics  Sharon McCartney, MD; Alina Nicoara, MD

9 am–Noon  Columbus GIJ
(WS2) ERACS: Design the System, Tailor the Anesthesia, and Enhance Your Patient’s Recovery
Moderators: James Anton, MD; Michael Grant, MD

Presentations:
- An Argument for ERACS  Andrew Shaw, MB
- The Anesthesiologist’s and Intensivist’s Role in ERACS  Michael Grant, MD
- Current State of the ERACS Movement  Alexander Gregory, MD

Station Faculty:
- Program Development and Implementation  Alexander Gregory, MD; Gregory Nelson, MD
- Opioid-Sparing/Free Anesthesia and Early Extubation  Rafael Cabrales, MD; Michael Grant, MD
- Prevention of Acute Kidney Injury—Goal-Directed Perfusion and Fluid Management  Viachaslau Barodka, MD; Michael Manning, MD
- Regional Analgesia Workstation  Jeff Gadsden, MD; JP Ouanes, DO
2:30–5:30 pm  Columbus A–F

(WS3) Perioperative Ultrasound: POCUS—It Seems to be EVERYWHERE! Here’s How to Use It
Moderators: Megan Kostibas, MD; Shahzad Shaefi, MD

Presentations:
- POCUS: The Present, the Future, and SCA Perioperative Ultrasound Program Bradley Coker, MD
- How POCUS and TTE Have Expanded My Practice Davinder Ramsingh, MD

Station Faculty:
- FAST Examination Ravi Joshi, MD; Laeben Lester, MD
- FOCUS Cardiac Examination M. Megan Chacon, MD; Georges Desjardins, MD
- CPR and TTE Massimiliano Meineri, MD; Walker Thomas, MHPTT
- Vascular Access Ricardo Cardenas, MD; Heather Hayanga, MD
- The Basic TTE Exam and Comparison TEE Views Bradley Coker, MD; Ashley Yager, MD
- Lung-Hypoxia/Dyspnea Davinder Ramsingh, MD; Vidya Rao, MD

2:30–5:30 pm  Columbus GIJ

(WS4) Electrophysiology—Making Sense of Pacemakers, ICDs, and Lead Extractions
Moderators: Jonathan Ho, MD; Candice Montzingo, MD

Presentations:
- Pacemaker Function and Programming Scott Streckenbach, MD
- Guidelines for Perioperative Management of Patients With a Cardiac Implantable Electrical Device Emily Methangkool, MD
- Establishing a Perioperative Device Management Service Ahmed Zaky, MD

Station Faculty:
- Pacemaker Mode Selection Emily Methangkool, MD; David Morgan, MD
- Perioperative ICD Therapy Management Scott Streckenbach, MD; Ahmed Zaky, MD
- Magnet Use Sreekanth Cheruku, MD; Eric Nelson, DO
- Lead Extractions Kimberly Howard-Quijano, MD; Timothy Maus, MD
SUNDAY, MAY 19

9 am–Noon Columbus A–D
(WS5) Mechanical Circulatory Systems—New Development and Emerging Technologies in Extracorporeal Life Support
Moderators: Jenny Kwak, MD; Laeben Lester, MD

Presentations:
- Configurations and Cannulation Strategies Eric Nelson, DO
- MCS and Echocardiography Michael Manning, MD
- New Emerging Technologies James Anton, MD

Station Faculty:
- LVAD I Austin Adams, MD; James Anton, MD
- LVAD II Antonio Hernandez, MD; Jenny Kwak, MD
- ECMO David Chabot, MS; Eric Nelson, DO
- Cardiopulmonary Bypass Ron Angona, MS; Michael Manning, MD

2:30–5:30 pm Columbus A–D
(WS6) Interventional Workshop—The Secrets of Percutaneous Procedures
Moderators: James Abernathy, MD; Nelson Thaemert, MD

Station Faculty:
- PBLD: Transcatheter Valves—Where Can We Put Them? James Abernathy, MD; Brandon Lebow, MD
- Left Atrial Occlusion Equipment and Imaging Erik Anderson, MD; Trevor Szymanski, MD
- TAVR Equipment Nadia Hensley, MD
- MitraClip PBLD David Morgan, MD; Carly Peterson, MD
- MitraClip 3D Analysis M. Megan Chacon, MD; Michele Sumler, MD
- MitraClip Equipment Charles Nyman, MBBCh

TUESDAY, MAY 21

2–5 pm Columbus A–D
(WS7) 3D TEE—Principles, Essentials, and So Much More
Moderators: Alina Nicoara, MD; Charles Nyman, MBBCh

Presentations:
- 3D: Modalities of Acquisition, Advantages, and Disadvantages Alina Nicoara, MD
- How Do I Incorporate 3D for Percutaneous Interventions? Charles Nyman, MBBCh
- How Do I Incorporate 3D in the Operating Room? Anne Cherry, MD

Station Faculty:
- Basic 3D TEE I Anne Cherry, MD
- Advanced 3D TEE I Emily Methangkool, MD
- Basic 3D TEE II Sharon McCartney, MD; Jeffrey Swanson, MD
- Advanced 3D TEE II Massimiliano Meineri, MD; Tjorvi Perry, MD
- Advanced 3D Quantification Michael Duggan, MD; Charles Nyman, MBBCh
- Advanced 3D TEE III Megan Krajewski, MD
## Schedule: Problem-Based Learning Discussions (PBLDs)

Thoracic Anesthesia Symposium PBLD Coordinator: Randal Blank, MD (PBLDs 1–6)
Annual Meeting & Workshops PBLD Coordinator: Mary Beth Brady, MD (PBLDs 7–29)

Breakfast will be available outside of the session rooms beginning at 6:30 am for all morning sessions. The session will begin promptly at the start time indicated in the schedule.

Separate registration required. Limited registration available.

### Saturday, May 18 | 7–8 am (Thoracic-Focused PBLDs)

| PBLD 1 | Lung Transplantation Management—Strategies, Tips, and Tricks  
*Peter Slinger, MD; Kenichi Ueda, MD* | Michigan 1A |
|---|---|---|
| PBLD 2 | ECMO in Thoracic Surgery  
*Rebecca Klinger, MD; Eleanor Vega, MD* | Michigan 1B |
| PBLD 3 | How to Design and Implement a Thoracic ERAS Program at Your Hospital  
*Amanda Kleiman, MD; Alessia Pedoto, MD* | Michigan 1C |
| PBLD 4 | Patient on LVAD for Thoracic Surgery  
*Wanda Popescu, MD; Diana Anca, MD* | Michigan 2 |
| PBLD 5 | Esophagectomy  
*Ju-Mei Ng, MD; Jagtar Singh Heir, DO* | Michigan 3 |
| PBLD 6 | Biventricular Dysfunction and Pulmonary Resection—Is There an EF Limit?  
*Randal Blank, MD; Ryan Lesh, MD* | Randolph 1A |

### Sunday, May 19 | 7–8 am

| PBLD 7 | Team Building in the Cardiac OR—There Is No “I” in TEAM  
*James Abernathy, MD; Emmilie Aveling, PhD* | Michigan 1A |
|---|---|---|
| PBLD 8 | Mitral Regurgitation: A Team-Based Approach to Decision Making  
*Douglas Shook, MD; Anne Cherry, MD* | Michigan 1B |
| PBLD 9 | Perfusion Secrets—What You Should Know, But Probably Don’t  
*Austin Adams, MD; Ron Angona, MS* | Michigan 1C |
| PBLD 10 | Factor Recombinants, Factor Concentrates, and Fibrinogen  
*Kenichi Tanaka, MD; Jerrold Levy, MD* | Michigan 2 |
| PBLD 11 | Perioperative Delirium—The Experts’ Opinions on This Everyday Concern  
*Charles Brown, MD; Shahzad Shaefi, MD* | Michigan 3 |
| PBLD 12 | Pitfalls and Solutions in Invasive Arterial Pressure Measurement  
*Jacob Gutsche, MD; Albert Perrino, MD* | Randolph 1A |
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
<th>Location</th>
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<tbody>
<tr>
<td>Monday, May 20</td>
<td>7–8 am</td>
<td>PBLD 13</td>
<td>Management of Spinal Cord Ischemia</td>
<td>Daryl Oakes, MD; Lindsay Raleigh, MD</td>
<td>Michigan 1A</td>
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<td>PBLD 14</td>
<td>Managing the Patient Taking the New Oral Anticoagulants</td>
<td>Michael Duggan, MD; Korrin Scott, MD</td>
<td>Michigan 1B</td>
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<td>PBLD 15</td>
<td>Severe Right Ventricular Dysfunction After Cardiac Surgery—Everyone’s Nightmare</td>
<td>Guatam Sreeram, MD; André Denault, MD</td>
<td>Michigan 1C</td>
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<td>PBLD 16</td>
<td>Renal Protection Strategies for Cardiac Surgery: What’s New? What’s Outdated?</td>
<td>Viachaslau Barodka, MD; Amanda Fox, MD</td>
<td>Michigan 2</td>
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<td>PBLD 17</td>
<td>Severe Pulmonary Hypertension and Noncardiac Surgery—No Need to Be Afraid</td>
<td>Jochen Steppan, MD; Jonathan Leff, MD</td>
<td>Michigan 3</td>
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<td>PBLD 18</td>
<td>Heparin-Induced Thrombocytopenia and Cardiopulmonary Bypass</td>
<td>Alycia Wanat-Hawthorne, MD; Michael Eaton, MD</td>
<td>Randolph 1A</td>
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<td>Tuesday, May 21</td>
<td>7–8 am</td>
<td>PBLD 19</td>
<td>Challenges of Ventricular Assist Device Placement</td>
<td>Ratna Vadlamudi, MD; HelenMari Merritt, DO</td>
<td>Michigan 1A</td>
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<td>PBLD 20</td>
<td>The Complex VT Ablation—Making It Easy</td>
<td>Diana Anca, MD; Linda Shore-Lesserson, MD</td>
<td>Michigan 1B</td>
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<td>PBLD 21</td>
<td>LVAD Patient With a Struggling RV: Do’s and Don’ts During Noncardiac Procedures</td>
<td>Jiapeng Huang, MD; Tara Brakke, MD</td>
<td>Michigan 1C</td>
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<td>PBLD 22</td>
<td>Managing the Adult Congenital Patient for Elective Noncardiac Surgery</td>
<td>Gregory Janelle, MD; Michael Joynt, MD</td>
<td>Michigan 2</td>
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<td>PBLD 23</td>
<td>Walking on a Wire: High-Risk TAVR Under Monitored Anesthesia Care</td>
<td>Jared Feinman, MD; Sharon McCartney, MD</td>
<td>Michigan 3</td>
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<td>PBLD 24</td>
<td>The Guidelines for Valvular Heart Disease—How to Make Sense of It All</td>
<td>Michele Sumler, MD; Stanton Shernan, MD</td>
<td>Randolph 1A</td>
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<td>Tuesday, May 21</td>
<td>1–2 pm</td>
<td>PBLD 25</td>
<td>Perioperative Management of a Patient With VA ECMO</td>
<td>Meena Bhatia, MD; Priya Kumar, MD</td>
<td>Michigan 1A</td>
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<td>PBLD 26</td>
<td>Still Bleeding: Tips and Tricks for Troubleshooting Perioperative Coagulopathy</td>
<td>Prakash Patel, MD; Megan Kostibas, MD</td>
<td>Michigan 1B</td>
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<td>PBLD 27</td>
<td>Jehovah Witness Patient? No Worries! Tricks of the Trade for Perioperative Management for Blood Conservation</td>
<td>Sanjay Dwarakanath, MD; Johannes Steyn, MD</td>
<td>Michigan 1C</td>
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<td>PBLD 28</td>
<td>Anesthetic Considerations for Robotic Mitral Valve Repair</td>
<td>Peter Neuburger, MD; Lisa Rong, MD</td>
<td>Michigan 2</td>
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<td>PBLD 29</td>
<td>Endocarditis—What You Don’t Know Can Hurt You</td>
<td>Heather Hayanga, MD; Bruce Bollen, MD</td>
<td>Michigan 3</td>
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</tbody>
</table>
Scientific Program Abstracts and Posters
Best of Meeting Oral Abstract and Early Career Investigator Award Presentations

SUNDAY, MAY 19 | 3–5:30 PM

(SCA001) Cortisol and ACTH Hormone Dynamics in the Critically Ill After Cardiac Surgery
Ben Gibbison, MD; Daniel Keenan, PhD; Ferdinand Roelfsema, MD; Jonathan Evans; Kirsty Stevenson, BSc; Chris Rogers, PhD; Gianni Angelini, MD; Stafford Lightman, MB BChir

(SCA002) ACT to Heparin Ratio as a Predictor of Coagulopathy During Deep Hypothermic Circulatory Arrest
Jan-Pablo Kollmar, MD; Adam Weinstein, MD; Dirk Varelmann, MD

(SCA003) Efficacy of an Analgesia Prescription Guideline in Reducing Unused Opioid Following Discharge From Cardiac Surgery
Joseph Pena, MD; Hugo Clifford, MD; Chung-Jen Chen, BS; Ruth Landau, MD; Marie-Louise Meng, MD

(SCA004) Preoperative Erector Spinae Plane (ESP) Blocks as Opioid-Sparing Analgesia for Cardiac Patients Undergoing Primary Sternotomy: Outcomes of a Pilot Project
Christopher Huber, MD; Candy Ezimora, MD; Lavinia Kolarczyk, MD; Monika Nanda, MBBS; Emily Teeter, MD; Meena Bhatia, MD

(SCA005) Venous Harmonics Are More Sensitive Than Central Venous Pressure for Detecting Acute Right Heart Failure in a Rat Model of Respiratory Arrest
Ryan Lefèvre, MD; Susan Eagle, MD; Claudius Balzer, MD; Matthias Riess, MD; Antonio Hernandez, MD; Franz Baudenbacher, PhD

(SCA006) Sirtuin-3 Mediates Cerebral Resilience to Both Warm and Cold Ischemia-Reperfusion Injury in the Rat
Qing Ma, MD; Zhiquan Zhang, PhD; Quintin Quinones, MD; Mihai Podgoreanu, MD; Michael Smith, MS

(SCA007) Risk Factors for Postoperative Reintubation After Coronary Artery Bypass Grafting: A Bi-Institutional Study
Ethan Brovman, MD; Sameer Hirji, MD; Andrea Axtell, MD; Kara Fields, MS; J. Danny Muehlschlegel, MD; Richard Urman, MD; Tsuyoshi Kaneko, MD; Sergey Karamnov, MD; George Tois, MD; Gaston Cudemus Deseda, MD

(SCA008) Impact of Left Ventricular Outflow Tract Flow Acceleration on Aortic Valve Area Calculation in Patients With Aortic Stenosis
Andaleeb Ahmed, MD; Robina Matyal, MD; Feroze Mahmood, MD; Ruby Feng, BA; Graham Berry, MD; Scott Gilleland, MD; Kamal Khambaz, MD

(SCA009) A Population-Based Analysis of Intraoperative Cardiac Arrest in the United States
Vikram Fielding-Singh, MD; Mark Willingham, MD; Matthew Fischer, MD; Tristan Grogan, MS; Jacques Neelankavil, MD

(SCA010) Tricuspid Regurgitation After Orthotopic Heart Transplantation: Trajectories and Association With Mortality
Kiran Belani, MD; Mary Cooter, MS; Alina Nicoara, MD; Priyesh Patel, MD; Jacob Schroder, MD; Madhav Swaminathan, MD; Sharon McCartney, MD

(SCA011) Investigating Cognitive Decline After Cardiac Surgery: A Magnetic Resonance Spectroscopy Approach
Igor Feinstein, MD; Maya Yutsis, PhD; Michael Fischbein, MD; Daryl Oakes, MD; Martin Angst, MD

EARLY CAREER INVESTIGATOR AWARD

(SCA007) Risk Factors for Postoperative Reintubation After Coronary Artery Bypass Grafting: A Bi-Institutional Study
Ethan Brovman, MD; Sameer Hirji, MD; Andrea Axtell, MD; Kara Fields, MS; J. Danny Muehlschlegel, MD; Richard Urman, MD; Tsuyoshi Kaneko, MD; Sergey Karamnov, MD; George Tois, MD; Gaston Cudemus Deseda, MD

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(SCA011) Investigating Cognitive Decline After Cardiac Surgery: A Magnetic Resonance Spectroscopy Approach
Igor Feinstein, MD; Maya Yutsis, PhD; Michael Fischbein, MD; Daryl Oakes, MD; Martin Angst, MD
Best of Meeting Oral Abstract Presentations

MONDAY, MAY 20 | 3:30–5:30 PM

(SCA012) Machine Learning Identifies Perioperative Variables Associated With Cardiac Surgery-Associated Acute Kidney Injury
Sreekanth Cheruku, MD; Rong Lu, PhD; Abu Minhajuddin, PhD; Javier Neyra, MD; Xiaowei Zhan, PhD; Michael Jessen, MD; Xie Yang, PhD; Amanda Fox, MD

(SCA013) Evaluation of Heparin Cryogels as Possible Cardiovascular Device Surface
Christoph Nabzdicky, MD; Michaela Farber, MD; Ting-Yu Shih, PhD; Cindy Huynh, MD; David Mooney, PhD; Leena Pradhan-Nabzdicky, PhD; Frank LoGerfo, MD

Nirvik Pal, MD; John Stansfield, PhD; Nitai Mukhopadhyay, PhD; Mark Nelson, MD

(SCA015) 3D Mitral Valve Quantification: A Comparison of Off-Line Analysis Software and Techniques
Yannis Amador, MD; Azad Mashari, MD; Wendy Tsang, MD; Massimiliano Meineri, MD

(SCA016) Feasibility of Echocardiographic Imaging of a Three-Dimensionally Printed Patient-Specific Mitral Valve
Feroze Mahmood, MD; Daawar Chaudhry, BA; Yanick Baribeau, BS; Faraz Mahmood, MD; Eitezaz Mahmood, BA; Ruby Feng, BA; Robina Matyal, MD; Kamal Khabbaz, MD; Shuo Liu, MD

(SCA017) Echocardiographic Evaluation in a Porcine Model of Donation after Circulatory Death and Normothermic Regional Perfusion Prior to Heart Transplant
Mbadjeu Hondjeu Arnaud Romeo, MD; Emanuela Paradiso, MD; Roberto Ribeiro, MD; J.S. Alvarez, MD; M. Badiwala, MD; V. Rao, MD; M. Meineri, MD

(SCA018) Intraoperative Transesophageal Echocardiography and Outcomes Among US Adults Undergoing Isolated Coronary Artery Bypass Graft Surgery
Emily Mackay, DO; Rachel Werner, MD; Peter Groeneveld, MD; Jacob Gutsche, MD; John Augoustides, MD; Mark Neuman, MD; Nimesh Desai, MD

(SCA019) The Platelet Activation Marker Mean Platelet Volume (MPV) as an Independent Predictor of Acute Kidney Injury After On-Pump Cardiac Surgery
Cathy Deng, MD; Miklos Kertai, MD; Matthew Fuller, MS; Jorn Karhausen, MD

(SCA020) Impact of Prosthetic Graft Replacement of the Ascending Aorta on Circumferential Strain in the Descending Aorta
Mudit Kaushal, MD; Lisa Rong, MD; Maria Chiara Palumbo, BMs; Kane Pryor, MD; Mario Gaudino, MD; Samantha Huynh, BS

(SCA021) Feasibility of Right Ventricular Pressure Volume Loops: A Physiological Exploration
Eckhard Mauermann, MD; Michael Vandenheuvel, MD; Stefaan Bouchez; Patrick Wouters, MD
ABSTRACTS/POSTERS

Basic Science, Cardiovascular Anesthesia

SUNDAY, MAY 19 | 12:30–1:30 PM

(SCA022) Metal 3D Printed Laryngoscope for Insertion of Double Lumen Endotracheal Tubes
Caroline Walker, MD; Luiz Maracaja, MD; Chase Culver, MD; Manuel Fontes, MD; Jean Charchaflieh, MD; William Rosenblatt, MD

(SCA023) Brachial Artery Flow-Mediated Dilation and Pulmonary Arterial Capacitance
Alexander Paladino, MD; Frederic Billings, MD; Marcos Lopez, MD

(SCA024) Mitochondrial Oxidative Phosphorylation-related Gene Expression Changes Induced by 48-Hour Epinephrine Exposure in Cultured Rat Cardiomyocyte
Henry Liu, MD; Kirsten Fill, MD; Rayhan Tariq, MD; Liang Huang, MD; Michael Green, DO

(SCA025) A Convolutional Neural Network to Classify Transthoracic Echocardiography Images
Joshua Oua Hiansen, MSc; Massimiliano Meineri, MD; Azad Mashari, MD

(SCA026) Peak Ejection Time as a Pressure-Independent Index of Contractility/Afterload Balance in Right Ventricular Hypertension
Caroline Walker, MD; Paul Heerdt, MD; Sofia Charania, BA

(SCA027) Intraoperative Cefazolin Concentrations for Patients Undergoing Cardiopulmonary Bypass (CPB) for Coronary Artery Bypass Graft Surgery (CABG): A Preliminary Analysis
Joseph Schwartz, MD; Gregory Kim, MD; David Nicolau, PharmD

(SCA028) The Development of a Canine Model of Endovascular Aortic Aneurysm Repair-Induced Ischemic Spinal Cord Damage and Paralysis
Hamdy Awad, MD; Hossam Elsayed, MD; Mostafa Eltogyb, MD; Hesham Kelani, MD; Gerard Nuovo, MD; Esmerina Tili, PhD

(SCA029) Platelet-Dependent Stimulation of Perivascular Mast Cells as a Source of Tissue Injurious and Systemic Inflammatory Responses to Cardiac Surgery
Jorn Karhausen, MD; Hae Woong Choi, PhD; Soman Abraham, PhD; Wolfgang Bergmeier; Robert Lee, PhD

(SCA030) Withdrawn

(SCA031) Determination of Spread of Injectate After Ultrasound-Guided Pecto-Intercostal Fascial Plane Block: A Cadaveric Study
Thomas Barefoot, MD; Michael Fiedorek, MD; Kevin Phelan, PhD; Gregory Mehaiffey, MD; Mark Stevens, MD; Charles Napolitano, MD

(SCA032) Chest Wall Blocks for Reducing Pain and Opioid Consumption After Minimally Invasive Cardiac Surgery
John Gamble, MD; Yi-Ju Li, PhD; Shuming Sun, Master of Statistics; Donald Glower, MD; Rebecca Klinger, MD

(SCA033) Association Between Intraoperative Hypotension and Postoperative Delirium in Patients Undergoing Cardiac Surgery
Valluvan Rangasamy, MD; Ariel Mueller, MA; Puja Shankar, MD; Balachundar Subramaniam, MD

(SCA034) Metabolomic Profiling of Remote Ischemic Preconditioning in Healthy Volunteers
Anushri Desai, MD; Nathan Clendenen, MD

(SCA035) Risk of Low Cardiac Output Syndrome After Isolated CABG
Rachel Diehl, MD; Andrea Duncan, MD

(SCA036) Feasibility of Tracking Pulmonary Vascular Resistance Using Pulmonary Artery Pulse Contour Analysis in Patients Undergoing LVAD Placement
Tjorvi Perry, MD; Belinda Lee, MD; Matthew Culling, MD; Daniela Orza, MD; Andrew Shaffer, MD

(SCA037) Relationship Between Performance Measurement of Intraoperative Mean Arterial Pressure and Mortality in Patients Undergoing Cardiac Surgery
Jinyoung Bae, MD; Susie Yoon, MD; Hyung-Chul Lee, MD; Yunseok Jeon, MD; Jae-Hyon Bahk, MD; Youn Young Cho, MD

(SCA038) Remote Ischaemic Preconditioning in Urgent Coronary Surgery Due to Acute Coronary Syndrome
Miomir Jovic, MD; Miroslav Milicic MD; Dragana Stojanovic, MD; Bato Korac, PhD; Aleksandra Jankovic, PhD

(SCA039) Comparison of Effects of Three Different Anaesthetic Induction Agents on Echocardiographic Parameters of Left Ventricular Systolic Function
Indranil Biswas, MD; Goverdhans D. Puri, MD; Komal Gandhi, MD

(SCA040) Frequency of Pump Thrombus After Factor Eight Inhibitor Bypass Activity (FEIBA) Administration During LVAD Implantation
Ashley Black, MD; Chris Rishel, MD; Vidya Rao, MD

(SCA041) Fluid Overload in Special Pediatric Cohorts With Anomalous Origin of the Left Coronary Artery From the Pulmonary Artery Following Surgical Repair
Yuelu Wang, MD; Chunjiong Wang, MD; Fuxia Yan, MD

(SCA042) Current Neuroprotection Practices in Cardiac Anesthesia—A Survey to the Membership of the Society of Cardiovascular Anesthesiologists
Joseph Morabito, DO; Karsten Bartels, MD; G. Burkhard Mackensen, MD; Tjorvi Perry, MD; Martin Krause, MD

(SCA043) The Relationship Between Transfusion and Adverse Outcomes in Cardiac Surgical Patients
Gavriel Ausubel, DO; Oonagh Dowling, PhD; Daniel Hart, MD; Chad Vitiello; Linda Shore-Lesserson, MD
(SCA044) ABO Blood Group and Transfusions During and After LVAD Implantation
Gina Sun; Claudia Bruguera, MD; David Moss, MD; Ian Welsby, MBBS; Frederick Cobey, MD

(SCA045) Coagulation Test Changes Associated With Acute Normovolemic Hemodilution in Cardiac Surgery
Bradford Smith, MD; Gregory Nuttall, MD; William Mauermann, MD; Mark Smith, MD

(SCA046) Comparison of Respiration Variation of Carotid Doppler Waveform to Pulse Pressure Variation
Davinder Ramsingh, MD; Taysir Awad, MD; Matthew Alschuler, BS; Matthew Holslaw, MD; Michael Benggon, MD; Seth White, MD; Benjamin Gow-Lee, BS; Ihab Borotta, MD

(SCA047) Association Between Perioperative Body Temperature and Long-term Mortality After Off-Pump Coronary Artery Bypass Graft Surgery: A Retrospective Observational Study
Tae Kyong Kim, MD

Michael Swong, MD; Tina Law, DO; Jennie Ngai, MD

(SCA049) Intraoperative Use of Hydromorphone Versus Sufentanil in Cardiac Surgery
Karen Singh, MD; Kenneth Brown, MD; Marcel Durieux, MD

(SCA050) Pulmonary Artery Pulsatility Index: A Look at Intraoperative Data to Predict Right Ventricular Failure After Left Ventricular Assist Device Insertion
Ben Jensen, MD; Nicholas Markin, MD; Jeffrey Songster, MD

(SCA051) Opioid Sparing Technique for Cardiac Surgery Patients Using Erector Spinae Plane Catheters
Jessica Broot, MD; Jean-Louis Horn, MD; Ashley Peterson, MD; Christian O'Donnell; Ban Tsui, MD

(SCA052) Pulse Wave Velocity Index: A New Measure for Real Time Arterial Stiffness
Ashley Taylor, MD; Yoshihisa Morita, MD

(SCA053) Withdrawn

(SCA054) Comparison of Preoperative Versus Intraoperative Diastolic Grading Systems in a Cohort of CABG Patients
Vivek Chellappa, MD; Sean Mofidi, MD; Jacques Neelankavil, MD; Reed Harvey, MD

(SCA055) Isoflurane and Propofol Have Different Effects on the Degree of Pre-existing Mitral Valve Regurgitation in Cardiac Surgery
Hyun Joo Ahn, MD

(SCA056) Dexmedetomidine and Impact on Mortality and Duration of Hospitalization
Eric Leendecker, MD; Nathaen Weitzel, MD; Nathan Clendenen, MD

(SCA057) The Feasibility of Anesthesiologist Performed Intraprocedural TTE During TAVR
Kaitlyn Hartman, MD; Christopher Tanaka, MD

(SCA058) Prediction of Left Ventricular Impairment After Mitral Valve Surgery Using a Noninvasive Pressure-Volume Analysis: A Pilot Study
Pietro Bertini, MD; Fabio Guaraccino, MD

(SCA059) Dynamic Blood Pressure Complexity Indices Add Predictive Value to the STS Cardiac Surgical Risk Prediction Index
Valluvan Rangasamy, MD; Teresa Henriques, PhD; Pooja Mathur, BS; Roger Davis, ScD; Murray Mittleman, MD; Balachundar Subramaniam, MD

(SCA060) Relationship Between Short-Term Outcome and Increase of Infusion Rate of Vasoactive-Inotropic Drugs After Weaning From Cardiopulmonary Bypass in Corrective Repair for Tetralogy of Fallot
Motoi Inoue, MD; Kazuza Tachibana, MD; Tomonori Yamashta, MD

(SCA061) Anesthetic Management of Transcatheter Tricuspid Valve Interventions: A Single Center Case Series
Thomas Graul, DO; Irene Kitromelides, BS; Harilkeh Subramanian, MBBS; Joseph Sanders, MD

(SCA062) Perioperative Outcomes of Patients With Pulmonary Hypertension Undergoing Noncardiac Surgery With General Anesthesia Versus Monitored Anesthesia Care
Monica Miller, MD; Tristan Grogan, MS; Theodora Wingert, MD; Emily Methangkool, MD; Louis A. Saddic, MD

(SCA063) The Effect of Anesthetic Techniques on Cardiac Troponin-T After Noncardiac Surgery
Jihye Kwon, MD; Ah Ran Oh, MD; Jungchan Park, MD; Jeong Jin Min, MD; Jongwhan Lee, MD

(SCA064) Incidence and Predictors of Acute Kidney Injury After Open Repair of Abdominal Aortic Aneurysm
Zdenko Povsic-Cevra, MD; Nikola Bradic, MD; Katarina Tomulic Brusich, MD

(SCA065) Frequency and Outcomes of Elevated Perioperative Lactate Levels in Adult Congenital Heart Disease Patients Undergoing Cardiac Surgery
Jeffrey Kim, MD; Andrew Wu, MD; Jacques Neelankavil, MD; Theodora Wingert, MD; Tristan Grogan, MS; Jennifer Scovotti, MA; Wolf Kratzert, MD

(SCA066) Ultrasound Assessment of Optic Nerve Sheath Diameter in Cardiac Surgical Patients—A Pilot Study
Shvetanik Agarwal, MD; Jose Puentes, Pharm D; Melissa Lamrissi, MD; Manuel Castresana, MD

(SCA067) Volatile Anesthetics for Cardioprotection During Coronary Artery Bypass Grafting
Nikola Bradic, MD; Zdenko Povsic-Cevra, MD
(SCA068) A Prospective Randomized Study of the Postoperative Outcomes of Thoracic Epidural Analgesia in Patients Undergoing Coronary Artery Bypass Graft Surgery
Reema Meena, MD

(SCA069) Evaluation of Transesophageal Echocardiography Findings to Predict Patients Hemodynamic Status on Cardiopulmonary Bypass
Melinda Eshelman, MD; Kelly Quatman, MD; Melissa McCabe, MD; Ryan Lauer, MD; Michael Benggon, MD; Matthew Alschuler, BS; Matthew Holsclaw, MD; Davinder Ramsingh, MD

(SCA070) Laryngeal Mask Airway for Transfemoral Transcatheter Aortic Valve Replacement
Shara Azad, MD; Frederick Cobey, MD; Ann Connors, RN; David Moss, MD; Andrew Weintraub, MD; Yong Zhan, MD; Hassan Rastegar, MD

(SCA071) Comparative Study of Sevoflurane Versus Desflurane on Hemodynamics in Coronary Artery Bypass Grafting
Indu Verma, MD
Scientific Program Poster Presentations: Session 2
Echocardiography, Perioperative Medicine, Quality Improvement

MONDAY, MAY 20 | 12:30–1:30 PM

(SCA072) Evaluation of Right Ventricular Systolic Function Acutely After Elective Cardiac Surgery: A 3D Echocardiography Feasibility Study
Lisa Rong, MD; Robert Sickeler, MD; Maria Chiara Palumbo, BMs; Mario Gaudino, MD

(SCA073) Feasibility of 3D Echocardiographic Assessment of Left Ventricular Dynamics in a Porcine Model of Ex Vivo Heart Perfusion
Mbajjeu Hondeu Amaud Romeo, MD; Roberto Roberto, MD; Joshua J. Hansen, MSC; Meineri Massimilian, MD

(SCA074) Structural Mitral Valve Reserve Function in Nonregurgilant Mitral Valves
Feroze Mahmood, MD; Robina Matyal, MD; Yanick Baribeau, BS; Eitezaz Mahmood, BA; Kamal Khabbaz, MD

(SCA075) Echocardiographic Assessment of Mitral Valve Opening Area During Percutaneous Mitral Valve Repair: Is There a Role for 3D Color?
Alina Khurgel; Kei Togashi, MD; Mark Reisman, MD; G. Burkhard Mackensen, MD

(SCA076) Two-Dimensional Versus Three-Dimensional Echocardiographic Assessment of Mitral Valve Area After Percutaneous MitraClip Procedure
Rishi Kumar, MD; Stanton Shernan, MD; Douglas Shook, MD; Charles Nyman, MBCh; Kara Fields, MS; Sergej Karamnov, MD

(SCA077) Echocardiographic Predictors of Intraoperative Right Ventricular Dysfunction: A 2D and Speckle Tracking Echocardiography Study
Ibrahim Warsame, MD; Lisa Rong, MD; Jiwon Kim, MD; Maria Chiara Palumbo, BMs; Gabriel Arguelles, BA; Mario Gaudino, MD; Christiane Abouzeid, MD; Brian Yum, MD

(SCA078) TEE Skill Acquisition Trajectories Among Cardiothoracic and Critical Care Anesthesiology Fellows
Molly Amin, MD; Benjamin Andrew, MHS; Anne Cherry, MD; Brandi Bottiger, MD; Alina Nicoara, MD

(SCA079) Automated Spectral Doppler Profile Tracing: Reliably Improving Efficiency in the Operating Room
Andre Gosling, MD; Jamel Ortoleva, MD; Frederick Cobey, MD

(SCA080) Intraoperative Use of 2D–Diastolic Speckle Tracking Echocardiography (STE) for Early Detection of Regional Diastolic Dysfunction Secondary to Segmental Coronary Artery Disease: The Correlation Between Early Diastolic Strain Rate Parameters, Including Peak Strain Rate (SRE) and Time to Peak (TPSRE), and the Severity of Coronary Artery Stenosis Measured by Coronary Artery Angiography in Patients Undergoing Coronary Artery Bypass Grafting
Farzad Ebrahimi, MD; Saman Ahmadi, MD; Vaheh Petrossian, MD; Joseph Capone, DO

(SCA081) Comparison of Transesophageal Echocardiography Artificial Intelligence Software Versus Computed Tomography for Measurement of Aortic Valve Annulus for Transcartheater Aortic Valve Replacement
Richard Thalappillili, MD; Yong Zhan, MD; Sophie Wells, MD; Feroze Mahmood; Frederick Cobey, MD

(SCA082) Evaluation of Right Ventricular Contraction Pattern in Patients Undergoing Pulmonary Thromboendarterectomy
Etienne Couture, MD; Vipin Mehta, MD

(SCA083) Diastolic Dysfunction and Postoperative Outcomes After Noncardiac Surgery
Mark Willingham, MD; Samir Al-Ayoubi, MD; Michael Doan, MD; Theodora Wingert, MD; Jennifer Scovotti, MA; Jacques Neelankavil, MD

(SCA084) Assessment of Left Ventricular Twist/Torsion During Perioperative Aortic Valve Replacement
David Kohanchi, MD; Stanton Shernan, MD; Gabriela Querejeta Roca, MD

(SCA085) Speckle-Tracking Based Assessment of Early Diastolic Mitral Annular Velocity
Eckhard Mauermann, MD; Michael Vandenheuvel, MD; Stefaan Bouchez, MD; Patrick Wouters, MD

(SCA086) Validating Transesophageal Echocardiographic Measurements of Right Ventricular Function
Adrian Fischl, MD; Theodore Cios, MD; John Klick, MD; Shayne Roberts, DO

(SCA087) TEE Image-Based Questions on Smartphone App Improves Resident TEE Knowledge
Regina Linganna, MD; Saumil Patel, MD; Jared Feinman, MD; Jeremy Kukafka, MD; Lourdes F. Al Ghofaily, MD; Audrey Spelde, MD; John Augoustides, MD; Elizabeth Zhou, MD; Stuart Weiss, MD; Emily Mackay, DO

(SCA088) Extrathoracic Hemorrhagic Shock Diagnosed by Rescue TEE: Case Series
Tomas Carvajal, MD; Nikhil Kumar, MD
(SCA089) Intraoperative Right Ventricle Free Wall Strain by Speckle Tracking Echocardiography: Comparison to Tricuspid Annular Plane Systolic Excursion and Fractional Area Change
Sanjay Dwarkanath, MD; Christopher Denny, MD; Harish Ram, MD; Kevin Hatton, MD; Arnold Stromberg, PhD; Leon Su, BS

(SCA090) Cardiac Output Response to Fluid in Elderly Surgical Patients With Left Ventriicular Diastolic Dysfunction
Sasha Shillcutt, MD; Thomas Schulte, MD; Chantal Mercier Laporte, MD; Tara Brakke, MD; Katie Goergen, MD; Walker Thomas, MPH; Lance Sildt, RN; Elizabeth Lyden, MS; M. Megan Chacon, MD

(SCA091) Focused Cardiac Ultrasound (FoCUS) Before and After a Transfemoral Transcatheter Aortic Valve Implantation (TF-TAVI)—A Case Series, Single-Center Observational Study
Sridhar Musuku, MD; Joanne Barlin, MD; Saroj Pani, MD; Asim Raja, MD

(SCA092) Transesophageal Echocardiography Evaluation of the Inspiris Resilia Aortic Valve
Adam Dalia, MD; Jerome Crowley, MD

(SCA093) Aortic Pseudoaneursym Coil Migration: A Case Report
Michael Moran, MD; Faraz Mahmood, MD; Robert Dematteo, MD; Sohilah Mahbobi, MD

(SCA094) Papillary Muscle Entrapment With Left Ventricular Outflow Tract (LVOT) Obstruction During Transseptal Valve in Ring Mitral Valve Replacement
Andaleeb Ahmed, MD; John Mitchell, MD; Roger Laham, MD; Feroze Mahmood, MD; Ruby Fong, BA

(SCA095) Intraoperative Echocardiography for the AccuChin: A Percutaneous Ventriculoplasty Device for Functional Mitral Regurgitation
Christopher Ma, MD; James Anton, MD

(SCA096) Transcatheter Pulmonic Valve-in-Valve Insertion With Embolisation to the Pulmonary Artery
Erin McCabe, MBBS

(SCA097) Insurance Status and Socioeconomic Markers Affect Readmission Rates in Cardiac Valve Surgeries
T. Robert Feng, MD; Marguerite Hoyler, MD; Xiaoyue Ma, MSc; Robert White, MD

(SCA098) Type 1 Diabetes Mellitus Is Associated With Chronic Postsurgical Pain Following Cardiac Surgery
Ian Kelly, BS; Amanda Fox, MD; Stanton Shernan, MD; Simon Body, MD; Jochen Muehlschlegel, MD

(SCA099) Persistent Opioid Use Following Cardiac Surgery
Jennifer Smith, MD; Ian Kelly, BS; Jochen Muehlschlegel, MD; Martin Sigurdsson, MD

(SCA100) Antiplatelet Therapy Early After CABG Surgery: How Surgical Culture Trumps Evidence-Based Medicine
Chase Culver, MD; Keith Warner, MD; Mabel Wai, PharmD; Robert Schonberger, MD; Michael Dewar, MD; Manuel Fontes, MD

(SCA101) Adherence to the Joint Commission and Centers for Medicare & Medicaid Services Guidelines for ACEI/ARBs Therapies in Cardiac Surgery
Keith Warner, MD; Chase Culver, MD; Robert Schonberger, MD; Mabel Wai, PharmD; Arnar Geirsson, MD; Manuel Fontes, MD

(SCA102) Incorporating Perioperative Point-of-Care Ultrasound as Part of the Anesthesia Residency Curriculum
Jose Navas, MD; Joseph Sanders, MD; Derrick Williams, MD; Jayakar Guruswamy, MD; Nicholas Yeldo, MD

(SCA103) Improved Outcomes Following Transversus Thoracis Plane Block in Cardiac Surgery Patients Undergoing Median Sternotomy: A Retrospective Study
Jeffrey Cardinale, MD; Ryan Latimer, MD; Yana Bukovskaya, PharmD; Jason Faletterman, MD; Jay Trusheim, MD

(SCA104) Diastolic Right Ventricular Pressure Gradient in Cardiac Surgery
Lars Groenlykke, MD; Etienne Couture, MD; Francois Haddad, MD; Myriam Amsallem, MD; Hanne Berg Ravn, MD; Meggie Raymond, MD; William Beaubien-Souilgny, MD; Philippe Demers, MD; Antoine Rochon, MD; Yoan Lamarche, MD; Georges Desjardins, MD; André Denault, MD

(SCA105) CT-Measured Psoas Muscle Density as a Predictor of Outcomes in Transcatheter Aortic Valve Replacement
Alberto Furzan, MD; Frederick Cobey, MD; Ann Connors, RN; Andrew Weintraub, MD; David Moss, MD; Yong Zhan, MD; Prakash Patel, MD; Hassan Rastegar, MD; Ruben Azocar, MD

Srinivas Mantha, MD; Sudha Lakshmi Tripuraneni, MD; Lee A Fleisher, MD; Michael Roizen, MD

(SCA107) Ultra Short Term Heart Rate Variability as a Predictor of Outcomes in Transcatheter Aortic Valve Replacement Outcomes: A Retrospective Case Controlled Study
Edward Hong, MD; Ebenzeer Tolman, BS; Eric Ursprung, MD; Frederick Cobey, MD

Daniel Haines, MD; Susheel Govindan, MD; Saijan Gayam, MD; Nirmal Veeramachaneni, MD; Fernando Mujica, MD
(SCA109) The Effects of Immediate Postoperative Extubation on the Incidence of Acute Kidney Injury in Cardiac Surgical Patients
Matthias Heringlake, MD; Hauke Benhöfer, MD; Christian Schmidt, MD; Simon Schmekel; Bence Bucky, MD; Astrid Ellen Berggreen, MD

(SCA110) Evaluation of Postoperative Outcomes in Patients with Preoperative Dental Clearance—An Observational Report
Jacob Lurie, MPH; Marc Casale, BSc; Maryna Khromava, BS; George Silvay, MD

(SCA111) Perioperative Statin Use in Smoking and Nonsmoking Patients
Danielle McGlynn, MD; Robert Schonberger, MD

(SCA112) Anesthesiologists’ Influence on Hemoglobin A1c Trajectory in Diabetic Coronary Artery Bypass Graft Patients
Nakul Kumar, MD; Nathaniel Borochov, BA; Singh Nair, PhD; David Adams, MD; Jonathan Leff, MD

(SCA113) Successful Management of Minimally Invasive Cardiac Surgery Without Re-expansion Pulmonary Edema
Takahiro Tamura, MD; Kimitoshi Nishiwaki, MD

(SCA114) Epidemiologic Study of Development of End-Stage Renal Disease After Cardiac Surgery
Zdenko Povsic Cevra, MD; Nikola Bradic, MD; Sandra Mihel, MD

(SCA115) Relationship Between Neighborhood Disadvantage and Coronary Artery Bypass Surgery Outcomes in a National Veterans Affairs Cohort
Eric JohnBull, MD; Marc Pepin, PharmD; William Bryan, PharmD; Robert Overman, PhD; Nazish Hashmi, MD; Karthik Raghunathan, MD; Attilio Barbeito, MD

(SCA116) Opioid Consumption by 187 Patients Following Cardiac Surgery
Hugo Clifford, MD; Joseph Pena, MD; Chen Chung-Jen, BS; Ruth Landau, MD; Marie-Louise Meng, MD

(SCA117) Single Unit RBC Transfusions in Cardiac Surgery: Where These “Near Misses” Occur and Some Associated Potentially Modifiable Factors
Roman Sniecinski, MD; William Ou, BA; Korrin Scott, MD; Brent Keeling, MD

(SCA118) The Representation of Women Lecturers at the SCA Annual Meeting 2015–2018
Sara Foulke, MD; Kristi Lorenzen, MD; Sasha Shillcutt, MD

(SCA119) International Survey on the Current Use of Cardiovascular Emergency Medications in Adult Cardiovascular Anesthesia
Victor Neira, MD; Derek Wong, MD; Vivian Wang, MD; Matthias Scheffler, MD

(SCA120) Can a Goal-Directed Transfusion Protocol Reduce Transfusion in Lung Transplantation With and Without Mechanical Circulatory Support? Preliminary Results
Angela Pollak, MD; Brandi Bottiger, MD; Mary Cooter, MS; Matthew Hartwig, MD; Jessica Poisson, MD; Jacob Klapper, MD; Benjamin Bryner, MD; Theresa Seay, MD; Ian Welsby, MBBS; Lorenzo Zaffiri, MD; Nazish Hashmi, MD

(SCA121) Abnormal Serum Phosphorus Level and Clinical Outcome of Coronary Artery Bypass Grafting
Jungchan Park, MD; Jong-Hwan Lee, MD; Ah Ran Oh, MD; Soo Jung Park, MD; Ji-Hye Kwon; Yoon Joo Chung

(SCA122) Patient Blood Management in Cardiac Surgery: Not Just in the Operating Room
Nadia Hensley, MD; Mereze Visagie, BA; Brian Cho, MD; Glenn Whitman, MD; Chun Choi, MD; Steven Frank, MD

(SCA123) Evaluation of Clinical Impact of Noninvasive Hemodynamic Monitoring to Optimize Preventative Care of Heart Failure Patients
Davinder Ramsingh, MD; Taysir Awad, MD; Jason Gatling, MD; Gerald Matthews, MD; Benjamin Herzel, MS; Matthew Holsclaw, MD; Steven Zane; Ryan Lauer, MD

(SCA124) Changing Trends in Blood Transfusion During Transcatheter Aortic Valve Replacement
Prakash Patel, MD; Jake Rosen, BA; Elizabeth Walsh, RN; John Augoustides, MD

(SCA125) Factors Decreasing ICU Handoff Efficiency Following Cardiac Surgery: An Observational Study
Tanya Richvalsky, DO; Saad Rasheed, MD; Jennie Ngai, MD

(SCA126) Creating a Relaxing Nook in a Busy Cardiovascular Anesthesia Office Suite to Combat Clinician Burnout
Rosanne Sheinberg, MD
Scientific Program Poster Presentations: Session 3
Case Reports, Coagulation, Critical Care, Structural Heart Disease

TUESDAY, MAY 21 | NOON–1 PM

(SCA127) Surgical Thrombectomy and Intraoperative tPA Administration for Thrombus-in-Transit Across a PFO
- Thomas Krall, MD; Catherine Chiu, MD; Revati Nafday, MD

(SCA128) A Ghost in the Heart
- Michael Beshara, MD; Shvetank Agarwal, MD

(SCA129) Anoxic Brain Injury Following Carotid Artery Puncture and Tricuspid Valve Repair
- Roshan Babu, MD; Carey Pilo, DO

- Jaeyoon Chung, MD; Mark Burgesson, MD; Andrew Mendelson, DO; Rebecca Barnett, MBChB; Eric Schwenk, MD; Nathaniel Evans, MD; Jordan Goldhammer, MD

(SCA131) TEE Guidance During Pulmonary Stenosis Veins Dilation in a Child With Previous Sutureless Pulmonary Vein Surgery
- Genevieve Cote, MD; Melissa Colizza, MD

(SCA132) A Novel Use of Intraoperative Transesophageal Echocardiography to Identify an Intra-aortic Foreign Body
- Annabelle Levine, MD; Aaron Hudson, MD

(SCA133) Transcatheter Caval Valve Implantation: A Novel Approach to Treatment of Severe Tricuspid Regurgitation
- Melissa Burger, MD; Albert Robinson, MD

(SCA134) Takotsubo Syndrome in a Young Girl Following Orthopedic Surgery
- Stefano Casella, MD; Carla Paolini, MD; Claudio Bilato, MD

(SCA135) A Case of Prosthetic Valve Endocarditis Complicated by Perivalvular Abscess and Left Ventricular Outflow Tract-Pseudoaneurysm Fistulization
- Annabelle Levine, MD; Suraj Parulkar, MD

(SCA136) Use of the Impella as an Adjunct in Transcatheter Aortic Valve Replacement for Patients With Significantly Compromised Left Ventricular Function
- Yi-Hsi Ching, MD

(SCA137) Tridimensional Preoperative Physiological Challenge and Anesthetic Management of Giant Ovarian Cystadenoma
- Lachlan Miles, MBBS; Sherwin Tofsi, MBBS; Chong Tan, MBBS; Michael Fink, MBBS; Laurence Weinberg, MD

(SCA138) Dilemma of High Gradients in a Normally Functioning Prosthetic Valve
- Feroze Mahmood, MD; Yanick Baribeau, BS; Daawar Chaudhry, BA; Ruby Feng, BA; Louis Chu, MD; Robina Matyal, MD

(SCA139) Aorto-Left Atrial Fistula—A Diagnostic and Therapeutic Challenge
- Tanaya Sparkle, MBBS; Muoi Trinh, MD

(SCA140) Carcinoid Heart Disease Requiring Tricuspid and Pulmonic Valve Replacement
- Edmond O'Brien, MD

(SCA141) Mechanical Circulatory Support With Impella Device in Patient With Severe Coronary Artery Disease and Cardiogenic Shock During High-Risk Coronary Artery Bypass Graft
- Ettore Crimi, MD

(SCA142) Lung Damage in Patients Resuscitated With LUCAS Device
- Stefano Casella, MD; Vito Cianci, MD; Maurizio Lestani, MD; Silvio Marafon, MD; Stephanie Simioni, MD

(SCA143) Successful Management of Malignant Hyperthermia After Orthotopic Heart Transplant—Atypical Presentation, Cardiomyopathy, and Rhabdomyolysis
- Giuseppe Helo, MD; Robert Brooker, MD; Lance Cohen, MD; Mark Korenje, MD; Frank Scholl, MD

(SCA144) Acute Pulmonary Embolism Leading to PEA Successfully Treated With TPA in a Liver Transplant Patient Undergoing ERCP
- Gloria Rodriguez, MD; Santiago Luis, MD; Meagan Babyak, CAA

(SCA145) Case Report of Intraoperative Hypoxemia Pre-bypass for AVR and CABG: Bronchoscopy Finds an Unusual Tumor
- Victor Neira, MD; Daniel Altman, MD

(SCA146) Anesthetic Considerations in a Patient With Mass Effect From Severe Native Lung Hyperinflation During Lung Transplantation
- Robert Morris, MD; Shonali Pawar, MD; Chad Talarek, MD

(SCA147) Unusual Location of Papillary Fibroelastoma in the Right Atrium: A Case Report
- Andrea Farela, MD; Rafael Cabrales, MD

(SCA148) The Effects of SANGUINATE® (PEGylated Carboxyhemoglobin Bovine) on Hemostasis
- Akeel Merchant, MD; Emily Gundert, MD; Nicole De Simone, MD; Steven Hill, MD
SCA149 Thromboelastographic Changes During Surgery for Malignant Pleural Mesothelioma
Devon Flaherty, MD; Ju-Mei Ng, MD

SCA150 Laboratory Tests and Thromboelastography as Predictors of Early Postoperative Bleeding Following CABG
Matthew Betz, DO; Stephanie Cha, MD; Vincent DeMario, BS; Elizabeth Uhlig, BA; Charlie Slowey, MBBC; James H. Abernathy III, MD; Steven Frank, MD; Brian Cho, MD

SCA151 Use of Solvent/Detergent-Treated Pooled Plasma for the Management of Pediatric Patients Who Require Replacement of Multiple Coagulation Factors
Trupti Shah, PharmD BCPS; Philip Spinella, MD; Santiago Borasino, MD; Jeffrey Aiten, MD

SCA152 The Association of Increased FFP: RBC Transfusion Ratio With Primary Graft Dysfunction in Bleeding Lung Transplantation Patients
Theresa Seay, MD; Yasmin Maisonneve, MD; Matt Fuller, MS; Jessica Poisson, MD; Angela Pollak, MD; Benjamin Bryner, MD; Jacob Klapper, MD; Matthew Hartwig, MD; Brandi Bottiger, MD; Nicole Guinn, MD

SCA153 Predictive Modeling of 30-Day Mortality Using Two Disseminated Intravascular Coagulation Scoring Systems After Extracorporeal Membrane Oxygenation and Cardiopulmonary Bypass
Robert Call, MD; Jerrold Levy, MD; Matthew Fuller, MS; Mani Daneshmand, MD; Ian Welsby, MBBS; Kamrouz Ghadimi, MD

SCA154 Case Report: Management of Heparin-Induced Thrombocytopenia for Inferior Vena Cava Thrombectomy Under Hypothermic Circulatory Arrest
Nicole Webb, MD; Rosaleen Chun, MD; MHSc, Farheen Manji, MD; Adrienne Lee, MD

SCA155 Plasma Exchange Therapy for Heparin Induced Thrombocytopenia in Cardiac Surgery: Outcomes
Ingrid Moreno Duarte, MD; Kamrouz Ghadimi, MD; Mary Cooter, MS; Ian Welsby, MBBS

SCA156 Increased Mean Platelet Volume, Thrombocytopenia, and Platelet Transfusions—A Retrospective Cohort Analysis Demonstrating Increased Mortality in High Risk Cardiac Surgery Patients
Joseph Morabito, DO; Nathan Clendenen, MD; Kevin Donnelly, MD

SCA157 The Difference of Coagulation Function by Administering FFP Before or After Separating From Cardiopulmonary Bypass
Takahiro Tamura, MD; Kimitoshi Nishiwaki, MD

SCA158 Preoperative Thromboelastography as a Predictor of Transfusion Requirements in the Cardiac Surgical Patient
Michael Grinn, MD; Claudia Komer, DO; Harish Nandigam, MD; Linda Hormoz, MD; Nilesh Patel, MD; John Klobus, CCP

SCA159 Determining the Utility of AT3 Assay in Era of Value-Based Service
Muhammad Salman Janjua, MD; Amanda Crosby, CCP; Vaibhav Bora, MBBS; Nadine Odo, BA; Arthur Mary, MD

SCA160 Comparison of INR Determined by Point-of-Care to Standard Laboratory Testing Before and After Reversal of Heparin in Cardiac Surgery
Miguel Abalo, MD; Michael Fabbro, DO

SCA161 Can Neutrophil Predict Bleeding in Patients Undergoing Coronary Artery Bypass Grafting?
Xiaojie Liu, MD; Wenyuan Zhang, MD; Lijuan Wang, MS; Sudena Wang, MD; Yang Yu, MD; Hushan Ao, MD

SCA162 Intraoperative Assessment of Coagulation During Cardiac Surgery Using the Quantra® System and QPlus® Cartridge
Todd Allen, BS; Francesco Viola, PhD; Deborah Winegar, PhD

SCA163 Use of Bivalirudin for Anticoagulation in a Patient With HIT Undergoing Pulmonary Thromboendarterectomy With Deep Hypothermic Circulatory Arrest
Karuna Puitur Rajkumar, MD; Felipe Edghill, MD; Amy Gorgy, MD

SCA164 Predicting Risk for Readmission to Cardiac Surgery Intensive Care: External Validation of the APPROACH Risk Prediction Model
Alexandra Fottinger, BM BCh; Hanah Lamothe Kipnes, Bsc; Vynka Lash, M

SCA165 Gender-Related Differences in Passive Leg Raise Prediction of Tolerance to Simulated Hemorrhage in Healthy Subjects
Hesham Ezz, MD; Aymen Alan, MD; Paul Heerdt, MD

SCA166 Vasodilatory Shock: Can Virtual Patient Simulation Improve Management?
Amy Larkin, PharmD; Stacey Hughes, PharmD; Martin Warters, CHSE MA; Gwen Littman, MD

SCA167 Predictors of Mortality in Central Line Associated Blood Stream Infection (CLABSI) Following Cardiothoracic Surgery
Kanagarajan Natarajan, MD

SCA168 A Pressure-Based Method for Estimation of Right Ventricular Ejection Fraction: Pilot Studies in Models of Pulmonary Arterial Hypertension and Pulmonic Stenosis
Paul Heerdt, MD; Sofia Charania, BA; Stephanie Thorn, PhD; Albert Sinussas, MD

SCA169 Percutaneous Closure of Left Atrial to Left Ventricular Fistula
Feroze Mahmood, MD; Faraz Mahmood, MD; Yanick Baribeau, BS; Daawar Chaudhry, BA; Roger Laham, MD; Robina Matyal, MD
(SCA170) Unique Presentation of a Gigantic Bronchogenic Cyst Causing Acute Coronary Syndrome
Chris Parsons, MD; Chen B. Zhao, DO; Victoria Knott, DO; Jiapeng Huang, MD

(SCA171) Improvement in Left Ventricular Global Longitudinal Strain After Percutaneous Ventriculoplasty in Patients With Heart Failure
Flora Li, MD; Mark Reisman, MD; Creighton Don, MD; G. Burkhard Mackensen, MD; Christina Tan, MD

(SCA172) Three-Dimensional Echocardiography for Sizing in Transcatheter Aortic Valve Replacement—A Systematic Review and Meta-analysis
Lisa Rong, MD; Irbaz Hameed, MD; Mohamed Rahouma, MD; Mario Gaudino, MD; Massimiliano Meineri, MD

(SCA173) Safety of Ketamine Use During Monitored Anesthesia Care for Transcatheter Aortic Valve Replacement
Brian Zhao, DO; Jiapeng Huang, MD; Victoria Knott, DO; Christopher Parsons, MD

(SCA174) Perioperative Cardiac Arrest in Transcatheter Aortic Valve Replacement
Victoria Knott, DO; Christopher Parsons, MD; Jiapeng Huang, MD; Brian Zhao, DO

(SCA175) Intraoperative Nasal, Bladder, and Blood Temperature Changes During Cardiac Surgery
Roshan Babu, MD; Jiapeng Huang, MD
Fellow and Resident Complex Case Presentations

COMPLEX CASE DISCUSSION WITH EXPERT PANEL

SATURDAY, MAY 18 | 4–5 PM

(F001) Cooler Than ICE: Right Atrial Epicardial Echocardiography for Atrial-Esophageal Fistula Repair
Jen Chang, MD, Per Wierup, MD, Anand Mehta, MD

(F002) Andexanet Alfa for Urgent Reversal of Apixaban Prior to Aortic Surgery Requiring Cardiopulmonary Bypass: A Case Report
Devon Flaherty, MD, Lauren Cornella, MD

(F003) Crashing Off Bypass: A Case Series of Oxygen Delivery Failure on Cardiopulmonary Bypass
Leigh Hickerson, MD, Natalia Martinez Acero, MD

(F004) Double-Chambered Right Ventricle, A Rare Disease but Commonly Missed Diagnosis
Amjad Najim, MD, John Stelb, DO, Daniel Wyler, MD

SATURDAY, MAY 18 | 11 AM–NOON

(F005) Three’s a Crowd: Acute Heart Failure Due to Late Transcatheter Aortic Valve Migration Into the Left Ventricular Outflow Tract Treated With a Valve-in-Valve-in-Valve Procedure
Kelly Tankard, MD; Raymond Malapero, MD; Tsuyoshi Kaneko, MD; Pinak Bipin Shah, MD; Lauren Cornella, MD

(F006) Anesthetic Management of Carcinoid Syndrome During Tricuspid Valve Repair
Tarek Radwan, DO; Joseph Schoenfeldt, MD; Meha Bhargava, MD; Michael Dishart, MD

(F007) Aortic Annulus Rupture and Iliac Artery Perforation Resulting in Intraoperative Death During TAVR
Graham Berry, MD; Feroze Mahmood, MD

(F008) Restrictive Cardiopulmonary Management: A Case of Degos Syndrome
Zuhair Siddiqui, MD; Jacob Schaff, MD; Aaron Mittel, MD

(F009) Right Subclavian Artery to Brachiocephalic Vein Arteriovenous Fistula Following Central Line Placement
Mohammed Al-Samrai, MD; Galina Levy, MD

(F010) Transesophageal Echocardiography for Thoracic Endovascular Aortic Repair of Stanford Type A Aortic Dissection
Vincent Reformato, MD; Michael Mazzefri, MD

(F011) Coronary Artery Bypass Grafting in the Setting of Massive Coronary Artery Aneurysms
Kevin Loh, MD; Anna Dubovoy, MD

(F012) Intraoperative V-V ECMO for Noncardiac Surgery
Nicholas Daprano, DO; Carlos Trombetta, MD

(F013) A Rapid Decline in Ejection Fraction: Unanticipated Progression of Severe Valvular Disease or Acute Physiologic Insult?
Nasir Khatri, MD; Alan Smeltz, MD; Lavinia Kolarczyk, MD; John Ikonomidis, MD; Hadley Wilson, MD

(F014) Cesarean Section in a Parturient With a Single Ventricle and Pulmonary Emboli
Jeremy Laney, MD; Susan Alvarez, MD; Joshua Ng, MD

(F015) Pulmonary Thromboendarterectomy Combined With Extensive Surgical Resection for Renal Cell Carcinoma
Muhammad Fayyaz Ahmed, MD; Matthew Troum, DO; Gordon Morewood, MD

(F016) Intraoperative Pulmonary Embolism Diagnosed by Rescue Transesophageal Echocardiography in a Morbidly Obese Patient Undergoing Orthopedic Surgery Following Motor Vehicle Crash
Patrick Lam, MD; Adam Milam, MD; Eric Ley, MD; Omar Durra, MD

(F017) Do We Need TEE Evaluation Before Decannulation of VV-ECMO?
Viachaslau Koushyk, MD; J. Ross Renew, MD; Eduardo Rodrigues, MD

(F018) Withdrawn

(F019) Anesthetic Management of a Parturient With a Mediastinal Mass
Brian Butala, DO; David Broadbent, MD; Rachael Gryta, DO
(F020) Post-Cardiopulmonary Bypass Ventricular Septal Defect After Aortic Valve, Ascending, and Aortic Arch Replacement in a Patient With Idiopathic Thrombocytopenopurpura, Bicuspid Aortic Valve, and Kommerell Diverticulum
Caitlin Bradley, MD; Andrea Corujo-Rodriguez, MD

(F021) Severe Mitral Valve Thrombosis Immediately Following Replacement After a Papillary Muscle Rupture
Sara Foulke, MD; M. Megan Chacon, MD; Kristi Lorenzen, MD

(F022) TPA Administration in LVAD Patient for Management of CVA Following VT Ablation
Daniel Garcia, MD; Sujatha Ramachandran, MD

(F023) The Use of Angiotensin II in a Jehovah’s Witness Undergoing Thoracic Surgery
Connie Lin, MD; Eric Heinz, MD; Kyung-Min Lee, MD candidate; Gregory Trachiotis, MD; Silviu Diaconu, MD

(F024) Transcatheter Aortic Valve Replacement: A Feasible Treatment for Aortic Insufficiency Associated With a Ventricular Assist Device
David Moore, MD; Adam Weinstein, MD

(F025) Malignant Middle Cerebral Artery Infarction Following Coronary Artery Bypass Grafting
Joseph Cody, DO; Daniel Cormican, MD

(F026) CSE for Cesarean Section in a Parturient with Ebstein’s Anomaly
Sultana Peffley, MD; Michelle Dacosta, MD

(F027) Impella Device as a Left Ventricular Vent During Peripheral Venoarterial Extracorporeal Membrane Oxygenation: Friend or Foe?
Ashley Budd, MD; Aaron Reynolds, MD

(F028) This Isn’t a Game: Mitral Arcade as an Etiology of Severe Valvular Disease
Ashley Fritz, DO; Archer Martin, MD

(F029) Rare Case of a Second Primary Cardiac Tumor in a 35-Year-Old Man
Hemanckur Makker, MD; Vanessa Moll, MD; Ratna Vadlamudi, MD

(F030) Transcatheter Tricuspid Repair—A Case Report and Overview of the First Tricuspid Cardioband Procedure in the United States
Christopher Racine, MD; Scott Lim, MD; John McNeil, MD

(F031) Intraoperative Diagnosis of Pulmonary Vein Torsion After Lung Transplantation
Jonathan Tang, MD; Galina Dimitrova, MD; Sujatha Bhanyard, MD

(F032) Transapical Cannulation for Type A Dissection
Marisa Pappas, MD; Jay Trusheim, MD

(F033) Repeat Atrial Septal Device Closure Attempt With Intraoperative TEE Guidance in a Transplanted Heart
Sophie Yang, MD; Mandinainasa Chinyadza, MD; Tiffany Otero, MD; Michelle Dacosta, MD MBA

(F034) Systolic Anterior Motion of the Mitral Valve Complicating Post-Lung Transplant Management
Revati Nafday, MD; Wendy Smith, MD; Kevin Thornton, MD

(F035) Aortic Regurgitation in the Setting of Sub-Aortic Membrane: A Clinical Quandary
Ashley Taylor, MD; Justice Mushonga, MD; Ahmad Itani, DO

(F036) Hybrid Management of a Type A Dissection in a Patient with Complex Cardiac Comorbidities
Allison Janda, MD; Jennifer Vance, MD

(F037) Iatrogenic Atrial Septal Defect Post MitraClip—A Case for Delayed Closure
Samantha Ali, MD; Ratna Vadlamudi, MD

(F038) Support of an Impella-Dependent Patient During Valve-in-Valve Transcatheter Mitral Replacement
Cole Helm, MD; Thuan Ho, MD

(F039) Transatrial Tricuspid Valve Replacement With the NaviGate Valved Stent in a Patient With a Dual-Chamber Pacemaker
Dillon Meier, MD; Andrej Alfievic, MD; Anand Mehta, MD

(F040) An Unexpected Unroofed Coronary Sinus Atrial Septal Defect Causing Right Ventricle Overload: Anesthetic Considerations
Ammar Siddiqui, MD; Sapan Shah, MD; Tarif Chowdhury, MD; Yefim Vilnits, MD

(F041) Mediastinal Mass With Tracheal Compression and Superior Vena Cava Infiltration
Sawyer Naze, MD; Aaron Reynolds, MD; Alexander Service, MD

(F042) Perioperative Management of a Patient With an Undiagnosed Ruptured Left Atrial Appendage Due to Blunt Trauma
Brittany Anderson, MD; Rohesh Fernando, MD

(F043) LVAD Positioned in Right Ventricular Apex Resulting in Ventricular Septal Defect
Luke Done, DO; Elizabeth Ungerman, MD; Theresa Gelzinis, MD; Kathirvel Subramani, MD; Raksh Hulimangala, MD

(F044) Right Ventricular Failure Relieved by Thoracic Suspension Using Syringe and Urinary Catheter Bag
Michael Sypert, DO; Hulimangala Rakesh, MD; Theresa Gelzinis, MD

(F045) VAD Implantation as Bridge to Transplantation for Congenitally Corrected Transposition of the Great Arteries After Extracardiac Fontan
Dylan Addis, MD; Benjamin Tuck, MD; Michelle Downing, MD

(F046) The Blowfish Aorta: A Giant Ascending Aorta Pseudoaneurysm
Jacqulin Cunningham, MD; Ovidiu Moise, MD; Stephanie Tran, MD
(F047) Hemodynamically Significant Systolic Anterior Motion of the Mitral Valve After Aortic Valve Replacement Treated With MitraClip
Danielle Laufer, MD; Jessica Tashjian, MD

(F048) HITing Into a Transcatheter AVR MVR Double Play
Matthew Dorazio, DO; Jordan Goldhammer, MD; Corey Herman, MD

(F049) Sinus of Valsalva Aneurysm as a Rare Cause of Perioperative Stroke: When to Proceed with Cardiopulmonary Bypass
Tarrah Folley, MD; Opal Raj, MD

(F050) Unrecognized Hypertrophic Obstructive Cardiomyopathy Diagnosed During Pulmonary Thromboendarterectomy Using Transesophageal Echocardiography
James Slotto, MD; Swapnil Khoche, MBBS

(F051) Atioventricular Dissociation in Patient Undergoing Coronary Artery Bypass Grafting, Mitral Valve Replacement, and MAZE Procedure
Brooke Leblanc, MD; Jay Trusheim, MD

(F052) Redo Aortic Root Replacement in a Congenital Heart Disease Patient With Complicated Infective Endocarditis
Patrick Harkins, MD; Blaine Farmer, MD

(F053) Tracheal Injury Complicating Mitral Valve Repair
Rachel Bandi, MD; Ryan Hood, MD

(F054) Iodinated Contrast Induced “Neuro”-toxicity—It’s Not a Humbug!
Jacob Whiting, MD; Archit Sharma, MBBS

(F055) Emergent Off-Pump Coronary Artery Bypass Grafting in a Patient With Polycythemia Vera
Miguel Abalo, MD; Gregory Mickus, MD; Gian Paparcuri, MD

(F056) Pseudoaneurysm of the Mitral-Aortic Intervalvalval Fibrosa Independent of Infective Endocarditis or Previous Cardiac Surgery
Ben Jensen, MD; Sean Leach, MD

(F057) Profound Hypotension During Orthotopic Heart Transplant Exacerbated by Riociguat, a Novel Pulmonary Vasodilator
Bennett Roman, MD; Meredith Kingeter, MD; Mias Pretorius, MBChB

(F058) Tricuspid and Mitral Valve Clip
Charles Warren, MD

(F059) Refractory Ventricular Fibrillation Treated With VA-ECMO and Bilateral VADs
Ryan Lefevre, MD; Bret Alvis, MD

(F060) Subvalvular Pseudoaneurysm: Transcatheter Paravalvular Leak Repair
Dan Jacobs, MD; Archit Sharma, MBBS

(F061) Perioperative Considerations for the Management of Complex Aortic Aneurysms
Tanya Richvalsky, DO; Jennie Ngai, MD; Marc Kanchuger, MD

(F062) A Clot to Remember—Diagnosis and Management of Pulmonary Venous Thrombosis in Lung Transplantation
Gregory Mickus, MD; Michael Fabbro, DO

(F063) The Observed Impact of Intraoperative Bivalirudin Based Anticoagulation on Thromboelastography Parameters Compared to Active Clotting Time During Left Ventricular Assist Device Placement
Sean DeGrande, MD; Jennifer Hargrave, DO

(F064) Intraoperative Management of Hyperacute Antibody-Mediated Rejection During Bilateral Lung Transplant
Alexander George, MD; Kelly Mishra, MD; Allyson Lemay, MD

(F056) The Utility of Transsthoracic Echocardiogram in a 40-Year-Old Female With Obstructive Hypertrophic Cardiomyopathy Under Neuroaxial Anesthesia for Cesarean Delivery
Mandina Chinyadza, MD; Tiffany Otero, MD; Yan Yang, MD; Michelle Dacosta, MD

(F057) Aortic Valve Leaflet Avulsion During Transcatheter Aortic Valve Implantation (TAVI): Intraoperative Management and Considerations
Francesca Betti, MD; Moody Makar, MD

(F066) Quadri-Valvular Carcinoid Heart Disease With Quadruple Valve Replacement
Austin Woolard, MD; Ryan Lefevre, MD; Meredith Kingeter, MD; Kara Siegrist, MD

(F067) Open Thoracoabdominal Aortic Aneurysm Repair With Acute on Chronic Dissection of Distal Aortic Arch
Brian Alexander, DO; Philip Krapchev, MD

(F069) Intraoperative Transesophageal Echocardiogram Findings and Anesthetic Management of an Ascending Aortic Thrombus
Matthew Gunst, MD; Mark Simpsen, MD; Daryl Reust, MD

(F070) Transesophageal Echocardiography in Diagnosing Complex Post-Myocardial Infarction Pseudoaneurysm and Ventricular Septal Defect
Charles Boland, MD; Jeffrey Green, MD; Samuel Gay, MD

(F071) Resection of a Large Adrenal Mass Extending Into the Right Ventricle With Cardiopulmonary Bypass
John Carey, MD; Yilam Rodriguez-Blanco, MD

(F072) Mold Where? Cunninghamella Epicardial Surface Mold in a Post-transplant Patient
Mrugesh Thakkar, MD; Edward McGough, MD

(F073) Intraoperative Recognition and Management of Left Atrial Dissection During Cardiac Surgery
Michael Gemma, MD; Elizabeth Ungerman, MD; Ricky Harika, MD
(F074) Cesarean Delivery in a Patient Status Post Fontan Procedure for Double Inlet Double Outlet Right Ventricle
Youn-Hoa Jung, MD; Wei Dong Gao, MD; Jochen Steppan, MD

(F075) Valve-in-Valve-in-Valve Rescue Following Embolized Transcatheter Aortic Valve Replacement
Robert Sand, DO MS; Sudhakar Subramani, MD

(F076) A Tale of Two Clots: Intraoperative TEE Finding of Unexpected Aortic Valve Thrombus in a Patient With Pulmonary Emboli
Emma Harmon, MD; Seema Deshpande, MBBS

(F077) Transcatheter Branch Pulmonary Artery Valve Implantation in a Patient With Carcinoid Heart Disease
Qianqian Xu, MD; Kunal Panda, MD; Frederick Ling, MD

(F078) Pre-emptive Alcohol Septal Ablation to Prevent Suicide Left Ventricle Following Transcatheter Aortic Valve Replacement in the Setting of Severe Mitral Stenosis
David Kam, MD; Michael Fabbro, DO; Pankaj Jain, MD

(F079) Cardiac Tamponade in the Setting of Severe Aortic Stenosis: Anesthesia for Pericardial Window
Elliot Harmon, MD; Eric Davies, MD; Sandeep Krishnan, MD

(F080) Christmas Disease and Cardiopulmonary Bypass: More Than Just Factor IX Replacements!
Laura Gonzalez, MD; Mark Chaney, MD

(F081) Pseudo-Cardiac Arrest: More Than One Cause for Loss of Palpable Pulses
Meha Bhargava, MD; Daniel Cormican, MD; Ali Abdullah, MD; Karthik Dwarki, MD; Tarek Radwan, DO

(F082) 3D Color Planimetry to Predict Mitral Stenosis After LVAD Implantation Post MitraClip: A Case Series
Quoc-Sy Nguyen, MD; Swapnil Khoche, MBBS

(F083) 3D Color Planimetry to Predict Mitral Stenosis After LVAD Implantation Post MitraClip: A Case Series
Quoc-Sy Nguyen, MD; Swapnil Khoche, MBBS

(F084) Eccentric Aortic Insufficiency Jet Induced Austin Flint Murmur
Daniel Haines, MD; Mark Simpsen, MD

(F085) What’s in That Syringe?
Laura Gonzalez, MD; Mark Chaney, MD

(F086) Pulmonary Thromboendarterectomy Requiring Cardiopulmonary Bypass and Deep Hypothermic Cardiac Arrest in a Patient with Congenital Atrial Septal Defect
Christine Choi, MD; Timothy Maus, MD

(F087) Secondary Cold Hemagglutinin Disease Requiring Cardiopulmonary Bypass for Repair of Severe Mitral Regurgitation
Kristin Swenson, DO; Eric Davies, MD; Erik Diaz, MD

(F088) Psychogenic Visual Loss After Coronary Artery Bypass Graft (CABG) Surgery
John Korona, MD; Rohesh Fernando, MD; Thomas Slaughter, MD

(F089) Psychogenic Visual Loss After Coronary Artery Bypass Graft (CABG) Surgery
John Korona, MD; Rohesh Fernando, MD; Thomas Slaughter, MD

(F090) Left Atrial Dissection in Marfan’s Patient Following Mitral Valve Replacement
Katherine Gordon, MD; Landon Farris, MD; Kirk Jackson, MD; Daniel Tolpin, MD

(F091) Arrhythmogenic Right Ventricular Dysplasia: A Cause of Perioperative Cardiac Arrest
Neil Patel, MD; Johnathan Renew, MD

(F092) Secondary Cold Hemagglutinin Disease Requiring Cardiopulmonary Bypass for Repair of Severe Mitral Regurgitation
Kristin Swenson, DO; Eric Davies, MD; Erik Diaz, MD

(F093) A Tale of Two Clots: Intraoperative TEE Finding of Unexpected Aortic Valve Thrombus in a Patient With Pulmonary Emboli
Emma Harmon, MD; Seema Deshpande, MBBS

(F094) Management of a Large Right Atrial Thrombus Found Incidentally on Echocardiography in a Patient Presenting With Back Pain
Vivian Doan, MD; Priya Kumar, MD

(F095) Eccentric Aortic Insufficiency Jet Induced Austin Flint Murmur
Daniel Haines, MD; Mark Simpsen, MD

(F096) Double Lung Transplantation in Patient With Combined Variable Immunodeficiency and Anti-IgA Antibodies
Sofiane Lazar, MD; Hulimangala Rakesh, MD; Joshua Knight, MD

(F097) An Uncommon Cause of Cardiovascular Collapse After Cardiac Surgery: Tension Pneumothorax Following the Use of an Airway Exchange Catheter
Mark Berguson, MD; Jordan Goldhammer, MD; Rehana Jan, MD; Rohinton Morris, MD

(F098) Inadequate Venous Flow Affecting Veno-Venous Bypass During Orthotopic Heart Transplantation
Carlos Perez-Ruiz, MD; Michael Busada, DO; Daniel Cormican, MD; Ali Abdullah, MD

(F099) Bicuspid Aortic Valvoplasty Complicated by Post-Repair Aortic Valve Stenosis
Junshi Kawakami, MD; Kenichi Ueda, MD

(F100) Atrioesophageal Fistula After Catheter Ablation of Atrial Fibrillation: Anesthetic Implications
Samuel Gay, MD; Aryn Rooney, DO; Michael Buxhoeveden, MD; Nirvik Pal, MD; Charles Boland, MD

(F101) When a Flap Is Not a Dissection
Jared McKinnon, MD; Loren Francis, MD
(F102) TAVR for Acute Aortic Regurgitation Following LVAD Implantation
Sean Dossett, DO; Matthew Hull, MD

(F103) Cross Clamp Gone Wrong—Echocardiographic Identification to Allow Endovascular Repair
David Lowery, MD; Donn Marciniak, MD

(F104) Intracardiac Thrombosis After Cardiopulmonary Bypass
Sin Yeong An, MD; Nicole Weiss, MD

(F105) Surgical Excision of a Left Atrial Myxoma During the Second Trimester of Pregnancy
John-Henry Harrison, MD; Jennifer Banayan, MD

(F106) Difficult Airway in Morbidly Obese Patient During Emergent Pulmonary Embolectomy
Michael Rubin, MD; Sean Philippo, MD; Brandon Lebow, MD; Wendy Bernstein, MD

(F107) Reporting the First Transcatheter Tricuspid Valve in Valve for Severe Bioprosthetic Tricuspid Stenosis in a Parturient
Mudit Kaushal, MD; Shanna Hill, MD

(F108) Intracardiac Thrombosis on Venoarterial Extracorporeal Membrane Oxygenation: Optimizing Outcomes
Katelyn Devine, MD; John Fox, MD

(F109) Emergent Novel Apical Approach to Pericardial Drain Placement With Real-Time Ultrasound Guidance in an Awake Patient With Postcardiomyotomy Tamponade
Shravan Cheruku, MD; Mariya Geube, MD; Aaron Douglas, DO

(F110) Unmasked Patent Foramen Ovale After Left Ventricular Assist Device Implantation and Its Sequelae
James Suggs, MD; Emily Teeter, MD; Alan Smeltz, MD; Mark Henry, MD; Lavinia Kolarczyk, MD

(F111) Gerbode Defect After Bioprosthetic Aortic Valve Replacement and Endocarditis
Lee Brewer, MD; T. Everett Jones, MD

(F112) Large Atrial Thrombus and Severe Rheumatic Mitral Stenosis Discovered in a 41-Year-Old Patient From a Developing Country
James Savage, MD; Brandon Smoller, MD

(F113) Intraoperative TEE Diagnosis of LVOT Obstruction and Severe Aortic Insufficiency in a Patient with Malposition of Mechanical Mitral Valve
Vy Tran, MBBS; Logan Kosarek, MD

(F114) Recognition and Evaluation of an Unusual Finding on Transesophageal Echocardiography
Jennifer Kaplan, MD; Patrick Odonkor, MB

(F115) Diagnosis of a Type A Aortic Dissection in a Patient Thought to Have a Chronic Pericardial Effusion Listed for Elective Pericardial Window
Ryan Kotecki, DO; Heather Hayanga, MD; Jeremiah Hayanga, MD; Eric Henrickson, MD; Jeffrey Puette, MD

(F116) Paradoxical Systemic Intravascular Air During a Hepatotomy Diagnosed by Transesophageal Echocardiography
Jerome Crowley, MD; Rachel Steinhorn, MD; Xiaodong Bao, MD; Alexander Kuo, MD

(F117) Perioperative Management of a Patient With Sickle Cell Beta Thalassemia for Aortic Valve Replacement on Cardiopulmonary Bypass
Michael Grinn, MD; Joseph Kimmel, MD

(F118) Retrograde, Misdirected Extracorporeal Life Support (ECLS) Inflow Cannula: A Rare or Underdiagnosed Complication?
Amir Elhassan, MD; Galina Dimitrova, MD; Stein Erina, MD; Flores Antolin, MD

(F119) Malignant Hyperthermia Management with Re-initiation of Cardiopulmonary Bypass
Gregory Blair, MD; Thomas Phillips, DO; Valerie Sera, MD

(F120) An Aortoesophageal Fistula From an Impacted Chicken Bone
Joseph Raab, MD; Ryan Hood, MD

(F121) Posteromedial Papillary Muscle Rupture After Transcatheter Mitral Valve Replacement in Prior Mitral Annuloplasty Ring
Johnny Nguyen, DO; Gregory Janelle, MD

(F122) Staged Repair of a Coronary Pseudoaneurysm at the Bifurcation of the Left Anterior Descending and Left Circumflex Coronary Arteries
Monica Miller, MD; Tiffany Williams, MD

(F123) A Case of Intraoperative CO2 Embolism During Cardiac Surgery With Endoscopic Venous Graft Harvest
Taylor Mann, MD; Stephanie Cha, MD

(F124) Pheochromocytoma and Severe Aortic Stenosis: What to Do?
Igor Feinstein, MD; Sameer Khan, MD; Natalia Martinez-Acero, MD; Lindsay Raleigh, MD; Fred Mihm, MD

(F125) Intraoperative Transesophageal Echocardiography for Placement of an Axillary Intra-aortic Balloon Pump as a Bridge to Heart Transplantation
Yoko Kagimoto, MD; Crystal Tan, MD; Jerome Crowley, MD

(F126) Hyperacute Lyme Carditis Mimicking Acute Coronary Syndrome
Justin Wendel, MD; Carlos Perez-Ruiz, MD; Daniel Cormican, MD
(F127) Left Ventricular Assist Device Implantation for Left Ventricular Noncompaction in the Setting of Glucose-6-Phosphate Dehydrogenase Deficiency
Wen Xu, MD; Elizabeth Ungerman, MD; Hulimangala Rakesh, MD; Theresa Gelzinis, MD

(F128) Tricuspid Valve Replacement for Candida Albicans Infective Endocarditis With Vegetation, Severe Tricuspid Regurgitation, Septic Emboli, and Large Pulmonary Artery Thrombus
Joanne Barlin, MD; Saroj Pani, MD

(F129) Ventricular Septal Rupture Complicating Myocardial Infarction
Kristin Burkhalter, MD; Cory France, MD; Benu Makkad, MD

(F130) Unusual Complications Due to Aortic Pseudoaneurysm Following Aortic Dissection Repair
Alexander Paladino, MD; Kara Siegrist, MD; Meredith Kingeter, MD

(F131) Orthotopic Heart Transplant, a Novel Treatment for Aortic Dissection Complicated by Cardiogenic Shock
Alex Stoker, MD; Octavio Pajaro, MD; Eric Steidley, MD; Lisa LeMond, MD; Ayan Sen, MD; Andrew Murray, MBCHB; Aaron Skolnik, MD; Arun Jayaraman, MD

(F132) Management of a Large Primary Malignant Cardiac Sarcoma Within the Left Ventricle Causing Left Ventricular Outflow Tract Obstruction in a Healthy 19-Year-Old Patient
Christy Slingwine, MD

(F133) Surgical Repair of an Acute Aortic Aneurysm Rupture of a Previously Repaired Coarctation of the Aorta
Carl Berasi, MD; Yong G. Peng, MD

(F134) Right Sinus of Valsalva Aneurysm Rupture in a 28-Year-Old Woman
Robert Hitchcock, DO; Johannes Steyn, MD

(F135) How Much is Too Much? Iatrogenic Ventricular Septal Defect During Septal Myectomy for Hypertrophic Cardiomyopathy
John Fan, MD; Christina Giblin, DO; Brian Bush, MD

(F136) Is That Blood Really Going From the Aorta to the Bowel?
Shayna Patel, MD; Laura Gonzalez, MD; Mark Chaney, MD

(F137) Complex Reoperation in a Patient With DiGeorge Syndrome
Danisa Daubenspeck, DO; John-Henry Harrison, MD; Richa Dhawan, MD

(F138) Perioperative Management of an Adult With Fontan Physiology
David Rudnick, MD; Abraham Sonny, MD

(F139) Transcatheter Tricuspid Valve Replacement With Sapien 3 Valve for Tricuspid Stenosis and Tricuspid Regurgitation
Jason Lang, MD; Michelle Shirak, MD

(F140) Spontaneous Coronary Artery Dissection in a 35-Year-Old Woman
Nicholas Eglitis, MD; Adam Dalia, MD

(F141) Acute Type A Aortic Dissection Complicating Transfemoral Transcatheter Aortic Valve Replacement
Nicholas Zimick, MD; Lauren Sutherland, MD; Steven Miller, MD

(F142) An Adherent Ascending Aortic Pseudoaneurysm: Surgical Planning and Intraoperative Management
Cory France, MD; Dustin Tsitouris, MD; John Shearer, MD

(F143) Management of Heart Transplantation in Adult With History of Propionic Acidemia
Daniel Mandell, MD; Hulimangala Rakesh, MD; Theresa Gelzinis, MD

(F144) Making Room for the Aortic Valve: The Konnor-Rastan Procedure to Improve Prosthesis-Patient Mismatch
Ana Acosta, MD; Jan-Pablo Kollmar, MD; John Fox, MD; Lauren Cornella, MD

(F145) Hyperlactatemia Following Orthotopic Heart Transplantation
Eric Simon, MD; Richard Wolman, MA

(F146) Hemodynamic Challenges in Peripartum Patient With Mediastinal Lymphoma
Asma Khan, MD; Yuliana Salamanca-Padilla, MD; Karuna Puttur Rajkumar, MD; Bradley Hammond, DO

(F147) Is It Too Late to Replace? A Case of Carcinoid Heart Disease
Andrew Wu, MD

(F148) Unexpected Aortic Valve Insufficiency and Dissection Flap After Aortic Surgery
Jonathan Rost, MD; Edward McGough, MD
Complex Case Poster Presentations: Session 2

SATURDAY, MAY 18 | 5–6 PM

(F149) Chronically Undetected Left Sinus of Valsalva Aneurysm
Yvonne Fetterman, MD; Yantu Shao, MD

(F150) Bilateral Laryngeal Nerve Palsy in Classic Elephant Trunk Procedure: A Case Report
Achillina Rianto, MD; Monica da Silva, MD; Megan Kostibas, MD

(F151) Ouch! It Hurts More Than Delivery!
Tina Law, DO; Robert Nampiaparampil, MD

(F152) Giant Aneurysm of the Right Coronary Artery With a Fistula to the Right Atrium
Danop Nanegrungsunk, MD; Irwin Brown, DO

(F153) Holodiastolic Flow Reversal in Descending Aorta With Right Coronary Artery to Coronary Sinus Fistula
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(F155) Endovascular Repair of a Type A Aortic Dissection
Francis Felice, MD

(F156) Delayed Downward Migration of an Edwards SAPIEN XT Valve
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Austin Henry, DO; Timothy Maus, MD

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Gloria Rodriguez, MD; Cherie Fisher, MD; Develasco George, MD; Santiago Luis, MD

(F159) When “Put A Ring On It” Causes Coronary Ischemia Diagnosed by Anesthesia
Tomas Carvajal, MD; Daniel Wyler, MD

(F160) Quadruple Valve Replacement in a Patient With Carcinoid Heart Disease
Robert Bellerose, MD; Hong Liu, MD; David Asseff, MD

(F161) Anesthetic Management of a Parturient With Repaired Anomalous Left Coronary Artery From the Pulmonary Artery After Takeuchi Procedure
Cindy Cheung, MD; Danielle McCullough, MD; Robert White, MD; Farida Gadalla, MD

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Megan Henley, MD; Bantayehu Sileshi, MD; Julie Anne Bishop, MD; Susan S. Eagle, MD

(F163) Percutaneous VSD Closure After Septal Myectomy
Allyson Lemay, MD; Susan Eagle, MD; Frederick Wilhelm Lombard, MBChB

(F164) Acute Type A Dissection Repair in a Patient With Suspected Pheochromocytoma
Sarah Alber, MD; Tracey Stevens, MD

(F165) Four Valve Involvement in Carcinoid Heart Disease: Optimal Conditions
Taylor Carter, MD; Sean Johnson, MD

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(F167) Assessment of Varying Grades of Mitral Regurgitation Under General Anesthesia Versus the Awake State: A Diagnostic Dilemma
Janna Taylor, MD; Peter Panzica, MD

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Joseph Schwartz, MD; Jonathan Leff, MD

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Katherine Williams, DO; Kara Siegrist, MD

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Elizabeth Magdycz, MD; Ethan Browman, MD; Douglas Shook, MD

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Alyssa Fazi, MD; Daniel Sloyer, MD

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Emily Xue, MD; Rishi Kumar, MD; Lauren Cornella, MD

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Kristi Pence, MD; Caroline Hunter, MD

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Meghan Daly, MD; Danielle McCullough, MD; Robert White, MD

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Brandon Alex, MD; M. Megan Chacon, MD

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Michael Morgan, MD; Marta Kela, MD

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Jordan Chiarchiaro, MD; Andrej Alfievic, MD FASE

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Kevin Donnelly, MD

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Joseph Holecko, MD; Kasey Fiorini, MD; Michael Essandoh, MD; Katja Turner, MD

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Paul Shih, MD; Wei Pan, MD

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Joseph Woo, MD; Jonathan Leff, MD; Galina Levyi, MD

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Esad Kiveric, DO; David Decresce, MD

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John Rossi, MD; Jennifer Hargrave, DO

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(F253) Ruptured Sinus of Valsalva Aneurysm, Ventricular Septal Defect, or Both?
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(F255) Intraoperative Vasoplegia Treatment With Methylene Blue Resulting in Severe Serotonin Syndrome
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Jenessa Job, MD; Sharon Abramovitz, MD; Nathan Liu, MD; Robert White, MD

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Ashley Dahl, MD; Allan Klompas, MBBSCh; Marissa Kauss, MD; Michelle Schmugge, MD

(F264) The Anesthetic Considerations of Video-Assisted Thoracoscopic Surgery in a Patient With Kartagener’s Syndrome
Lawrence Kopsick, DO; Kristine Pearson-Chauhan, DO

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Christopher Walsh, MD; Nicola D’Attellis, MD

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Mario Montealegre, MD; Kiran Belani, MD; Daawar Chaudhry, BA; Eltezaz Mahmood, BA; Jeffrey Bortman, BS; Roger Laham, MD; Feroze Mahmood, MD

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Jeremy Armbuster, MD; Lilitheth Fermi, MD

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(F278) Partial Anomalous Pulmonary Venous Connection and Persistent Left Superior Vena Cava in a Patient With Turner Syndrome: An Incidental Finding on Echocardiography
Robert Sickeler, MD; Sankalp Sehgal, MD
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Francis Chang, MD; Mir Ali Abbas Khan, MD; Nader Nader, MD

(F292) Management of Emergent Cardiopulmonary Bypass in a Patient With Heparin-Induced Thrombocytopenia
Thomas Wilson, MD; Rebecca Gerlach, MD
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Saturday, May 18 | Noon–1 pm  Columbus I–LL
Why Is My Patient Still Bleeding? Understanding the Final Stages of Hemostasis and the Fibrinogen/Platelet Interplay
Supported by Cerus Corp. Lunch provided.

Sunday, May 19 | 7–8 am  Grand Ballroom A
Enhanced Recovery After Cardiac Surgery
Supported by Edwards LifeSciences. Breakfast provided.

Sunday, May 19 | 12:30–1:30 pm  Grand Ballroom A
Smarter Together: Integration of ForeSight Elite Tissue Oximetry System With HemoSphere Advanced Monitoring Platform
Supported by Edwards LifeSciences. Lunch provided.

Monday, May 20 | 12:30–1:30 pm  Grand Ballroom A
Quantra-Directed Hemostasis Management in Cardiovascular Surgery
Supported by HemoSonics. Lunch provided.

The material presented in these symposia is not affiliated with the continuing education content of this meeting.
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