### Schedule at a Glance

#### Saturday, April 22

<table>
<thead>
<tr>
<th>ROOM</th>
<th>6 AM</th>
<th>7 AM</th>
<th>8 AM</th>
<th>9 AM</th>
<th>10 AM</th>
<th>11 AM</th>
<th>12 PM</th>
<th>1 PM</th>
<th>2 PM</th>
<th>3 PM</th>
<th>4 PM</th>
<th>5 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various (see page 26)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 1–3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Complex Case Posters No. 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 6–7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Exhibit Hall</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 8–10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Workshop 2: ECMO/VADs</td>
<td>Workshop 4: Perc Valve</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 11–12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Workshop 1: Hands-on TTE</td>
<td>Workshop 3: Periop US</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 1–6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Refresher Courses</td>
<td>Right Heart Failure</td>
<td>Heart Team</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 8–10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>F/R Town Hall</td>
<td>F/R Program</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 11–12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Endovascular</td>
<td>Mechanical Support</td>
<td>Atrial Fibrillation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Sunday, April 23

<table>
<thead>
<tr>
<th>ROOM</th>
<th>6 AM</th>
<th>7 AM</th>
<th>8 AM</th>
<th>9 AM</th>
<th>10 AM</th>
<th>11 AM</th>
<th>12 PM</th>
<th>1 PM</th>
<th>2 PM</th>
<th>3 PM</th>
<th>4 PM</th>
<th>5 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various (see page 26)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 1–3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Scientific Program Poster Presentations: Session 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 6–7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Exhibit Hall</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 11–12</td>
<td></td>
<td></td>
<td>Workshop 5: EP/Pacer</td>
<td></td>
<td></td>
<td>Workshop 6: Adv TEE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 1–6</td>
<td></td>
<td></td>
<td>Earl Wynands Lecture</td>
<td>SCA/STS: Aortic Valve</td>
<td>Transplantation</td>
<td>Coagulation</td>
<td>Electrophysiology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 8–10</td>
<td></td>
<td></td>
<td>Data &amp; Quality</td>
<td>Healthcare Finance</td>
<td>Super Echo</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 11–12</td>
<td></td>
<td></td>
<td>SOCCA Session</td>
<td>Research Session</td>
<td>Oral Abstract Presentations: Session 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Monday, April 24 | Annual Meeting Schedule at a Glance

<table>
<thead>
<tr>
<th>ROOM</th>
<th>6 AM</th>
<th>7 AM</th>
<th>8 AM</th>
<th>9 AM</th>
<th>10 AM</th>
<th>11 AM</th>
<th>12 PM</th>
<th>1 PM</th>
<th>2 PM</th>
<th>3 PM</th>
<th>4 PM</th>
<th>5 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various (see page 26)</td>
<td>PBLDs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 1–3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 6-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 1–6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 8-10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 11–12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Tuesday, April 25 | Annual Meeting Schedule at a Glance

<table>
<thead>
<tr>
<th>ROOM</th>
<th>6 AM</th>
<th>7 AM</th>
<th>8 AM</th>
<th>9 AM</th>
<th>10 AM</th>
<th>11 AM</th>
<th>12 PM</th>
<th>1 PM</th>
<th>2 PM</th>
<th>3 PM</th>
<th>4 PM</th>
<th>5 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various (see page 26)</td>
<td>PBLDs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 1–3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 1–6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 8-10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceana 11–12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Wednesday, April 26 | Annual Meeting Schedule at a Glance

<table>
<thead>
<tr>
<th>ROOM</th>
<th>6 AM</th>
<th>7 AM</th>
<th>8 AM</th>
<th>9 AM</th>
<th>10 AM</th>
<th>11 AM</th>
<th>12 PM</th>
<th>1 PM</th>
<th>2 PM</th>
<th>3 PM</th>
<th>4 PM</th>
<th>5 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various (see page 26)</td>
<td>PBLDs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 8–10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacifica 11–12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SCA Leadership

Officers

Linda Shore-Lesserson, MD FAHA FASE
President

Christopher A. Troianos, MD FASE
President-Elect

Stanton K. Shernan, MD FAHA FASE
Secretary-Treasurer

Scott T. Reeves, MD MBA FACC FASE
Immediate Past President

Board of Directors

George E. Burgess III, MD
Michael P. Eaton, MD
Amanda Fox, MD MPH
Kathryn E. Glas, MD MBA FASE

Glenn P. Gravlee, MD
Hilary P. Grocott, MD FASE FRCPC
Gregory M. Janelle, MD FASE

G. Burkhard Mackensen, MD PhD FASE
Robert J. Marino, MD
C. David Mazer, MD

Albert C. Perrino Jr., MD
Bodil Steen Rasmussen, MD PhD
David L. Reich, MD
Douglas C. Shook, MD FASE

Scientific Program Committee

Amanda A. Fox, MD MPH
Chair

Michael P. Eaton, MD
Vice-Chair

Sasha K. Shillcutt, MD MS FASE
Workshop and PBLD Coordinator

J. Mauricio Del Rio, MD
Jonathan K. Ho, MD FASE
Gregory M. Janelle, MD FASE
Priya A. Kumar, MD
G. Burkhard Mackensen, MD PhD FASE
Yasdet Maldonado, MD
Ludmil (Lou) Mitrev, MD
Tjorvi E. Perry, MD MMSc

Donna L. Greenhalgh, MB ChB FRCA FFICM
EACTA Liaison
Paul M. Heerdt, MD PhD FCCP
Research Liaison
Laureen L. Hill, MD MBA SOCJA Liaison
Stanton K. Shernan, MD FAHA FASE
STS Liaison
Ferenc Puskas, MD PhD
TAS Liaison
James (Jake) H. Abernathy, MD MPH FAHA FASE
James M. Anton, MD
Frederic (Josh) T. Billings IV, MD MSc
Bruce A. Bollen, MD
Mary Beth Brady, MD FASE
Tara R. Brakke, MD FASE

William (Skip) C. Culp Jr., MD FASE
Director, Fellow and Junior Faculty Program

Wanda M. Popescu, MD
David M. Roth, MD PhD
Nelson Thaemert, MD
Andrew S. Weisinger, MD FASE
General Information

The Society of Cardiovascular Anesthesiologists (SCA) Annual Meeting & Workshops is a unique educational activity that provides anesthesiologists and other perioperative physicians and providers from around the world an opportunity to come together and discuss key issues involved in delivering care to patients undergoing cardiovascular and thoracic surgeries.

CME Accreditation

SCA is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Designation

SCA designates this live activity for a maximum of 39.75 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclaimer

The material presented in this activity represents the opinions of the speakers and not necessarily the views of SCA.

Claim Your CME

To claim CME credit, you must complete your evaluations for the Annual Meeting at www.scahq.org/2017annualmeeting.

Annual Meeting On Demand

SCA Annual Meeting On Demand is an online library with more than 60 hours of educational content 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 SCA Annual Meeting On Demand sales booth located in the Oceana Foyer to purchase your copy at special attendee discounts only available during the meeting.

Workshops

Separate paid registration is required for workshops. This registration fee includes light breakfast for morning workshops, coffee breaks, and electronic syllabi. Each workshop is certified for a maximum of 3 credit hours.

Problem-Based Learning Discussions (PBLDs)

Separate paid registration is required for PBLDs. This registration fee includes breakfast and electronic syllabi. Each session is certified for a maximum of 1.25 credit hours.

Problem-Based Learning Discussions (PBLDs)

Separate paid registration is required for PBLDs. This registration fee includes light breakfast for morning workshops, coffee breaks, and electronic syllabi. Each workshop is certified for a maximum of 3 credit hours.

Problem-Based Learning Discussions (PBLDs)

Separate paid registration is required for PBLDs. This registration fee includes light breakfast for morning workshops, coffee breaks, and electronic syllabi. Each workshop is certified for a maximum of 3 credit hours.

Network Reception with Exhibitors

All attendees are welcome to join our exhibitors and sponsors in the exhibit hall from 5:30 to 6:30 pm on Sunday, April 23. Light refreshments will be offered, and attendees will have the opportunity to network with colleagues and industry partners.

Registration

The registration desk will be located just outside the Pacifica Ballroom during the following hours:

- Thursday, April 20: 4–7 pm
- Friday, April 21: 6:15 am–7:30 pm
- Saturday, April 22: 6:15 am–6 pm
- Sunday, April 23: 6:15 am–7:30 pm
- Monday, April 24: 6:15 am–6 pm
- Tuesday, April 25: 6:15 am–6 pm
- Wednesday, April 26: 6:15–11 am

Photography

Throughout the meeting, 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, advise the SCA staff in writing at info@scahq.org.

Syllabi and Learning Objectives

Session syllabi and learning objectives are provided to attendees through electronic media only. Learning objectives are available at www.scahq.org/2017annualmeeting. Any syllabi or handouts provided by speakers are available via the meeting mobile app.

Committee Meetings

The schedule of SCA committee meetings can be found in the meeting mobile app and at the registration desk.
General Information (continued)

Speaker Ready Room
Bring your final presentation(s) to Hibiscus 1 the day before your presentation during the following hours:

- Thursday, April 20: 4–7 pm
- Friday, April 21: 6:30 am–5:30 pm
- Saturday, April 22: 6:30 am–5:30 pm
- Sunday, April 23: 6:30 am–5:30 pm
- Monday, April 24: 7 am–4 pm
- Tuesday, April 25: 7 am–4 pm

SCA thanks the joint sponsors of educational sessions during the 2017 Annual Meeting:
Disclosures of Relevant Financial Relationships: Attendees are urged to visit www.scahq.org/2017annualmeeting to review general CME information for the conference, including disclosures of relevant financial relationships for all persons who have affected the content of CME.
Faculty

Mabel Chung, MD
Instructor in Anesthesia
Massachusetts General Hospital
Boston, MA

C. David Collard, MD MS
Professor, Division of Cardiovascular
Anesthesiology
Texas Heart Institute
Houston, TX

Stephen R. Collins, MD
Associate Professor, Anesthesiology
University of Virginia Health System
Charlottesville, VA

William (Skip) C. Culp Jr., MD FASE
Professor, Anesthesiology
Texas A&M University
Temple, TX

Draginja Cvetkovic, MD
Assistant Professor of Anesthesiology
New York Medical College/Westchester Medical Center
Valhalla, NY

Ellen M. Dailor, MD
Associate Professor, Anesthesiology
University of Rochester Medical Center
Rochester, NY

André Y. Denault, MD PhD FASE
Professor of Anesthesia and Critical Care
University of Montreal
Montreal, QC, Canada

Georges Desjardins, MD FASE FRCP
Montreal Heart Institute
Montreal, QC, Canada

Philip (PJ) Devereaux, MD PhD
Cardiologist
Population Health Research Institute
Hamilton, ON, Canada

James A. DiNardo, MD
Chief, Division of Cardiac Anesthesia
Boston Children’s Hospital
Boston, MA

Andra E. Duncan, MD MS
Associate Professor of Anesthesiology
Cleveland Clinic
Cleveland, OH

Susan Eagle, MD
Associate Professor
Vanderbilt University
Nashville, TN

Michael P. Eaton, MD
Professor and Chair, Anesthesiology
University of Rochester
Rochester, NY

Joerg Ender, MD
Director
Heartcenter Leipzig
Leipzig, Germany

Stephen A. Esper, MD MBA
Assistant Professor
University of Pittsburgh
Pittsburgh, PA

Lilibeth Fermin, MD MBA
Clinical Assistant Professor, Anesthesiology
University of Miami
Miami, FL

Alan C. Finley, MD
Associate Professor, Anesthesia and Perioperative Medicine
Medical University of South Carolina
Charleston, SC

Meghann M. Fitzgerald, MD
Assistant Professor of Clinical Anesthesiology
New York Presbyterian Hospital/Weill Cornell Medicine
New York, NY

Michael G. Fitzsimons, MD
Director, Cardiac Anesthesia
Massachusetts General Hospital
Boston, MA

Nick Fletcher, FRCA MBBS
Consultant in Cardiac Anaesthesia and Intensive Care
St. George’s University Hospital
London, United Kingdom

Thomas F. Floyd, MD
Professor
SUNY Stony Brook
Stony Brook, NY

Amanda A. Fox, MD MPH
Associate Professor of Anesthesiology
University of Texas Southwestern Medical Center
Dallas, TX

John A. Fox, MD
Director of Intraoperative Ultrasound
Brigham and Women’s Hospital
Boston, MA

Gyorgy Frendi, MD PhD
Associate Professor, Director of Critical Care Translational Research
Brigham and Women’s Hospital/Harvard Medical School
Boston, MA

Carlos Galhardo, MD
Director of Heart Transplant Anesthesia
National Institute of Cardiology
Rio De Janeiro, Brazil

Kamrouz Ghadimi, MD
Assistant Professor, Anesthesiology
Duke University Medical Center
Durham, NC

Kathryn E. Glas, MD FASE MBA
Professor, Anesthesiology
Director of Professional Development
Emory University School of Medicine
Atlanta, GA

Glenn P. Gravlee, MD
Professor, Vice Chair for Faculty Affairs
University of Colorado Denver
Aurora, CO

Donna L. Greenhalgh, MB ChB FRCCA FFICM
Consultant in Anaesthesia and Intensive Care
University Hospital of South Manchester
Manchester, United Kingdom

Philip E. Greilich, MD
Professor, Anesthesiology and Pain Management
University of Texas Southwestern Medical Center
Dallas, TX

Hilary P. Grocott, MD FRCP FASE
Professor of Anesthesiology
University of Manitoba
Winnipeg, MB, Canada

Wendy L. Gross, MD
Assistant Professor of Anesthesiology
Brigham and Women’s Hospital
Boston, MA

Jacob T. Gutsche, MD
Assistant Professor, Anesthesiology and Critical Care
Perelman School of Medicine, University of Pennsylvania
Philadelphia, PA

Nina A. Guzzetta, MD
Professor of Anesthesiology
Emory University School of Medicine, Children’s Healthcare of Atlanta
Atlanta, GA

Rebecca T. Hahn, MD
Associate Professor of Medicine
Columbia University Medical College
New York, NY

Jennifer Hargrave, DO
Program Director CTA fellowship
Cleveland Clinic
Cleveland, OH

Philip M. Hartigan, MD
Director of Thoracic Anesthesia Service
Assistant Professor of Anesthesia
Brigham and Women’s Hospital
Boston, MA

Reed E. Harvey, MD
Assistant Professor of Anesthesiology
University of California, Los Angeles
Los Angeles, CA

Laura Hastings, MD
Associate Professor of Anesthesia and Pediatrics, USC Children’s Hospital Los Angeles
Los Angeles, CA

Paul M. Heerd, MD PhD FCCP
Professor, Anesthesiology
Yale University School of Medicine
New Haven, CT

Antonio Hernandez, MD MSCI FCCM
Associate Professor of Anesthesiology
Vanderbilt University
Nashville, TN

Laureen L. Hill, MD MBA
Professor & Chair of Anesthesiology
Emory University School of Medicine
Atlanta, GA

Jonathan K. Ho, MD FASE
Assistant Clinical Professor
University of California, Los Angeles
Los Angeles, CA

Charles W. Hogue, MD
Professor of Anesthesiology
Northwestern University Feinberg School of Medicine
Chicago, IL
Faculty

Kimberly Howard-Quijano, MD MS
Assistant Professor-in-Residence, Cardiopulmonary Anesthesiology
University of California, Los Angeles
Los Angeles, CA

Nian-Chih NC Hwang, FFARCSI MBBS
Senior Consultant/Professor, Anesthesiology
SingHealth
Singapore

Stefan A. Ianchulev, MD
Clinical Associate Professor, Anesthesiology
Tufts Medical Center
Boston, MA

Natalia S. Ivascu, MD
Associate Professor of Clinical Anesthesiology
Weill Cornell Medical College
New York, NY

Jeffrey P. Jacobs, MD FACC FCCP
Chief Cardiovascular Surgeon
Johns Hopkins All Children’s Heart Institute
Saint Petersburg, FL

Gregory M. Janelle, MD FASE
Associate Chair of Clinical Affairs
University of Florida College of Medicine, Department of Anesthesiology
Gainesville, FL

Arun Jayaraman, MD PhD
Senior Associate Consultant
Anesthesiology and Critical Care
Mayo Clinic Arizona
Phoenix, AZ

Ravi Vivekanand Joshi, MD
Associate Professor of Anesthesiology
University of Texas Southwestern Medical Center
Dallas, TX

William Katsiyannis, MD
Electrophysiologist/President and Chairman of Cardiology
Minneapolis Heart Institute
Minneapolis, MN

Jonathan Kay, MD
Attending Anesthesiologist
St. Luke’s Medical Center
Milwaukee, WI

Rebecca Y. Klinger, MD MS
Assistant Professor, Anesthesiology
Duke University Medical Center
Durham, NC

Charles T. Klodell Jr., MD
Professor of Surgery
University of Central Florida/North Florida Regional Medical
Gainesville, FL

Hanjo Ko, MD
Assistant Professor, Department of Anesthesiology and Critical Care
University of Pennsylvania Health System
Philadelphia, PA

Steven N. Konstad, MD MBA FACC
Professor and Chairman, Anesthesiology
Maimonides Medical Center
Brooklyn, NY

Priya A. Kumar, MD
Professor, Anesthesiology
University of North Carolina, Chapel Hill
Chapel Hill, NC

Giovanni Landoni, MD
Associate Professor, Anesthesia and Intensive Care
Vita-Salute San Raffaele University
Milan, Italy

W. Travis Lau, MD
Physician, Anesthesia
The Queen’s Medical Center
Honolulu, HI

Jonathan D. Leff, MD
Associate Professor, Anesthesiology
Montefiore Medical Center
New York, NY

Laeben C. Lester, MD
Assistant Professor, Department of Anesthesiology and Critical Care Medicine
Johns Hopkins School of Medicine
Baltimore, MD

Jerrold H. Levy, MD FAHA FCCM
Professor of Anesthesiology & Co-Director CT ICU
Duke University Medical Center
Durham, NC

Kevin J. Lilly, CCP
Cardiovascular Perfusionist
Brigham and Women’s Hospital/Cape Cod Hospital
Boston, MA

Jens Lohser, MD MSC FRCPA
Clinical Associate Professor of Anesthesiology
University of British Columbia
Vancouver, BC, Canada

Michael J. Mack, MD
Medical Director of Cardiovascular Surgery
Baylor Scott & White Health
Plano, TX

G. Burkhard Mackensen, MD PhD FASE
Professor of Anesthesiology
University of Washington
Seattle, WA

Aman Mahajan, MD PhD
Professor and Chair, Anesthesiology and Bioengineering
UCLA Health
Los Angeles, CA

Feroze Mahmood, MD FASE
Director, Cardiac Anesthesia
Beth Israel Deaconess Medical Center
Boston, MA

George Maksidis, MD MPH
Surgeon, Cardiothoracic Tampa General Hospital
Tampa, FL

Yasdet Maldonado, MD
Residency Program Director
Allegheny Health Network
Pittsburgh, PA

Nicholas W. Markin, MD FASE
Assistant Professor, Anesthesiology
University of Nebraska
Omaha, NE

Andrew D. Maslow, MD
Associate Professor of Anesthesiology
Warren Alpert Medical School, Brown University
Providence, RI

Joseph P. Mathew, MD
Professor of Anesthesiology
Duke University Medical Center
Durham, NC

Bryan G. Maxwell, MD MPH
Medical Director, Cardiac Anesthesia
Oregon Anesthesiology Group
Portland, OR

C. David Mazer, MD
Professor, Anesthesia
University of Toronto
Toronto, ON, Canada

Yatin Mehta, MD FRCA MNAMS
Chairman, Institute of Critical Care and Anesthesiology
Medanta - The Medicity
Gurgaon, India

Massimiliano Meineri, MD
Associate Professor of Anesthesia
University of Toronto
Toronto, ON, Canada

Emily Methangkool, MD
H5 Assistant Clinical Professor
Department of Anesthesiology and Perioperative Medicine
University of California, Los Angeles
Los Angeles, CA

Steven Miller, MD
Assistant Professor at Columbia University Medical Center
Columbia University
New York, NY

Wanda C. Miller-Hance, MD FACC FASE FAAP
Professor of Pediatrics and Anesthesiology
Baylor College of Medicine/Texas Children’s Hospital
Houston, TX

Ludmil (Lou) Mitrev, MD
Director of Research
Department of Anesthesiology
Cooper University Hospital
Camden, NJ

Alexander Mittnacht, MD FASE
Professor, Anesthesiology
Icahn School of Medicine at Mount Sinai
New York, NY

Candice R. Montzingo, MD FASE
Associate Professor of Clinical Anesthesiology
University of Utah Medical Center
Salt Lake City, UT

J. Danny Muehlschlegel, MD MSC FAHA
Associate Professor of Anesthesia
Brigham and Women’s Hospital
Boston, MA

Bart Muhs, MD PhD
Middlesex Hospital
Middletown, CT

Peter Nagele, MD
Associate Professor, Anesthesiology
Washington University
St. Louis, MO

Aymen Naguib, MD
Director of Cardiac Anesthesia
Nationwide Children’s Hospital
Columbus, OH
Faculty

Viviane Nasr, MD
Assistant Professor, Anesthesiology, Perioperative and Pain Medicine
Boston Children's Hospital
Boston, MA

Jacques (Prince) Neelankavil, MD
Director, Perioperative Echocardiography
University of California, Los Angeles
Los Angeles, CA

Eric W. Nelson, DO
Associate Professor, Anesthesiology and Perioperative Medicine
Medical University of South Carolina
Charleston, SC

Arne Neyrinck, MD PhD
University Hospitals Leuven
Leuven, Belgium

Ju-Mei Ng, MD
Assistant Professor in Anesthesia
Brigham and Women's Hospital
Boston, MA

Antigone Sebastakis, MD PhD
Professor of Anesthesiology, Critical Care and Pain Medicine
University of California, Los Angeles
Los Angeles, CA

Anita Dwyer, MD
Assistant Professor of Anesthesiology
Brigham and Women's Hospital
Boston, MA

Alina Nicoara, MD FASE
Assistant Professor of Anesthesiology
NYU Langone Medical Center
New York, NY

Alina Nicoara, MD FASE
Assistant Professor of Anesthesiology
Duke University Medical Center
Durham, NC

Daisuke Nonaka, MD
Assistant Professor, Anesthesiology
University of Texas Southwestern
Dallas, TX

Charles B. Nyman, MBBS Ch
Clinical Instructor, Anesthesiology
Brigham and Women's Hospital
Boston, MA

E. Andrew Ochroch, MD
Professor of Anesthesiology, Critical Care and Surgery
University of Pennsylvania School of Medicine
Philadelphia, PA

Peter J. Panzica, MD
Vice-Chair Clinical Anesthesia and Network Operations
Beth Israel Deaconess Medical Center
Boston, MA

Prakash A. Patel, MD
Assistant Professor, Anesthesiology and Critical Care
University of Pennsylvania
Philadelphia, PA

Sharon E. Peach, MD
Physician, Anesthesiology and Critical Care
Missoula Anesthesiology
Missoula, MT

Alessia Pedoto, MD
Associate Attending Anesthesiologist
Memorial Sloan Kettering Cancer Center
New York, NY

Yong G. Peng, MD PhD FASE
Professor and Chief of Cardiothoracic Anesthesia
University of Florida
Gainesville, FL

Albert C. Perrino Jr., MD
Professor of Anesthesiology
Yale University
North Haven, CT

Tjorvi E. Perry, MD MMSc
Director of Cardiac Anesthesia
Abbott Northwestern Hospital
Minneapolis, MN

Jeffrey Plagenhoef, MD
Chairman, Department of Anesthesiology
Baylor Scott & White Hillcrest Medical Center
Waco, TX

Mihai V. Podgoreanu, MD FASE
Chief, Cardiothoracic Anesthesiology and Critical Care
Duke University
Durham, NC

Wanda M. Popescu, MD
Associate Professor of Anesthesiology
Yale University School of Medicine
New Haven, CT

Suryanarayan Pothula, MD
Associate Professor of Clinical Anesthesiology
Westchester Medical Center
Valhalla, NY

Ferenc Puskas, MD PhD
Associate Professor of Anesthesiology
University of Colorado Denver Hospital
Aurora, CO

Isma Quasim, MBChB
Consultant Cardiothoracic Anaesthetist
Golden Jubilee National Hospital
Glasgow, Scotland

Tara Quasim, MD
Senior Lecturer and Honorary Consultant, Anaesthesia and Critical Care
University of Glasgow
Glasgow, Scotland

Vidy K. Rao, MD MBA
Clinical Assistant Professor
Anesthesiology, Perioperative and Pain Medicine
Stanford University
Stanford, CA

Scott T. Reeves, MD MBA FACC FASE
Professor & Chair of Anesthesiology
Department of Anesthesia and Perioperative Medicine
Medical University of South Carolina
Charleston, SC

Kent H. Rehfeldt, MD FASE
Associate Professor of Anesthesiology
Mayo Clinic
Rochester, MN

Mark Reisman, MD
Section Head, Interventional Cardiology
University of Washington
Seattle, WA

Amanda J. Rhee, MD
Associate Professor, Medical Director of Patient Safety Anesthesiology and Office for Excellence in Patient Care
Mount Sinai Medical Center
New York, NY

Kristin L. Richards, MD
Assistant Professor, Anesthesiology and Critical Care Medicine
University of Southern California/Children's Hospital LA
Los Angeles, CA

Alec Rooke, MD PhD
Professor, Anesthesiology and Pain Medicine
University of Washington
Seattle, WA

David M. Roth, MD PhD
Professor, Anesthesiology
University of California, San Diego
San Diego, CA

Kathryn Rouine-Rapp, MD
Professor of Anesthesia
University of California, San Francisco
San Francisco, CA

Colin F. Royse, MD FANZCA MBBS
Director, Ultrasound Education Group
The University of Melbourne
Melbourne, Australia

Michael Sander, MD
Professor of Anesthesiology, Head of the Department of Anesthesiology and Intensive Care Medicine
Universitätsklinikum Gießen-Marburg GmbH
Giessen, Germany

Nicholas Sadovnikoff, MD FCCM
Director, Critical Care Anesthesia
Brigham and Women's Hospital
Boston, MA

Annette Y. Schure, MD
Senior Associate in Cardiac Anesthesia
Boston Children's Hospital
Boston, MA

Nanette M. Schwann, MD
Professor and Vice Chair of Education & Research
Lehigh Valley Health Network USF College
Allentown, PA

Shahzad Shaefi, MD
Adult Cardiothoracic Anesthesia Fellowship Program Director
Beth Israel Deaconess Medical Center
Boston, MA

Sajid S. Shahul, MD
Associate Professor, Anesthesia & Critical Care
University of Chicago Hospitals
Chicago, IL

Ahmed Shalabi, MD
Assistant Professor, Anesthesia and Perioperative Care
Chief of Vascular Anesthesia
University of California, San Francisco
San Francisco, CA

Andrew D. Shaw, MB FCCM FFICM FRCA
Executive Vice Chair, Anesthesiology
Vanderbilt University Medical Center
Nashville, TN
Faculty

Stanton K. Shernan, MD FAHA
Professor of Anesthesia
Brigham and Women’s Hospital
Boston, MA

Sasha K. Shillcutt, MD MS FASE
Associate Professor, Anesthesiology
University of Nebraska
Omaha, NE

Douglas C. Shook, MD FASE
Chief, Division of Cardiac Anesthesia
Department of Anesthesiology
Brigham and Women’s Hospital
Boston, MA

Linda Shore-Lesserson, MD FAHA
Professor, Anesthesiology
Hofstra Northwell School of Medicine
Manhasset, NY

David A. Silver, MD
Director of Education, Anesthesiology, Perioperative, & Pain Medicine
Brigham and Women’s Hospital
Boston, MA

Jagtar Singh Heir, DO
Assistant Professor of Anesthesiology & Perioperative Medicine
University of Texas MD Anderson Cancer Center
Houston, TX

Nikolaos J. Skubas, MD DSc FACC
Professor/Chief, Cardiac Anesthesia
Weill Cornell Medicine
New York, NY

Peter D. Slinger, MD FRCPC
Professor, Anesthesia
University of Toronto
Toronto, ON, Canada

W. Brit Smith, MD
Staff Anesthesiologist
Anesthesiology Associates of North Florida
Gainesville, FL

Mark Stafford-Smith, MD CM FRCPC FASE
Professor and Vice Chair of Education, Anesthesiology
Duke University Medical Center
Durham, NC

Michele Sumler, MD
Assistant Professor, Anesthesiology
Emory University
Atlanta, GA

Madhav Swaminathan, MD FASE
Professor of Anesthesiology
Duke University Medical Center
Durham, NC

Christopher Y. Tanaka, MD
Attending Anesthesiologist/Assistant Professor
Montefiore Medical Center/Albert Einstein College of Medicine
New York, NY

Kenichi Tanaka, MD
Professor, Director of Cardiovascular Anesthesia
University of Maryland
Baltimore, MD

Mark A. Taylor, MD FASE
Department Chair, Regional Practice Anesthesia
Cleveland Clinic Foundation
Cleveland, OH

Elrod Teo, MD FASE
Assistant Professor, Anesthesiology and Critical Care
Emory University
Atlanta, GA

Nelson Thaemert, MD
Assistant Fellowship Director
Brigham and Women’s Hospital
Boston, MA

Walker R. Thomas, BA FASE RDCS
Instructor, Anesthesiology
University of Nebraska
Omaha, NE

Annemarie Thompson, MD
Professor of Anesthesiology and Medicine
Duke University
Durham, NC

Jason (Clint) Tippett, MD
Assistant Professor of Anesthesiology
Baylor Scott & White/Texas A&M Temple, TX

Daniel A. Tolpin, MD
Associate Program Director Cardiothoracic Anesthesia
Texas Heart Institute at Baylor St. Luke’s Medical Center
Bellaire, TX

Matthew Townsley, MD FASE
Associate Professor, Department of Anesthesiology and Perioperative Medicine
University of Alabama at Birmingham
Birmingham, AL

Christopher A. Troianos, MD FASE
Chair, Cleveland Clinic Anesthesiology Institute
Cleveland Clinic
Cleveland, OH

Dirk J. Varelmann, MD
Instructor of Anesthesiology
Brigham and Women’s Hospital
Boston, MA

Jeffery S. Vender, MD
Clinical Professor, Anesthesiology
Northshore University Health System
Evanston, IL

Menachem M. Weiner, MD
Associate Professor, Anesthesiology
Icahn School of Medicine at Mount Sinai
New York, NY

Andrew S. Weisinger, MD FASE
Cardiothoracic and Vascular Anesthesiologist
Providence Hospital
Columbia, SC

Nathaen S. Weitzel, MD
Associate Professor of Anesthesiology
University of Colorado Health Sciences Center
Aurora, CO

Ian J. Welsby, MD BSc FRCA MBBS
Associate Professor, Anesthesiology and Critical Care
Duke University Medical Center
Durham, NC

Duminda N. Wijeysundera, MD PhD FRCP
Associate Professor, Anesthesia
University of Toronto
Toronto, ON, Canada

Andrew Wilkey, MD
Abbott Northwestern Hospital
Minneapolis, MN

Justin W. Wilson, MD
Assistant Professor of Anesthesiology
University of Texas Health Science Center at San Antonio
San Antonio, TX

Lisa Wise-Faberowski, MD
Assistant Professor, Anesthesiology
Stanford University
Stanford, CA

Isaac Wu, MD
Assistant Professor of Anesthesiology
Columbia University Medical Center
New York, NY

Igor Zhukov, MD
Assistant Professor, Division of Cardiothoracic Anesthesiology
Emory University
Atlanta, GA

David A. Zvara, MD
Professor and Chair, Anesthesiology
University of North Carolina at Chapel Hill
Chapel Hill, NC
Keynote Lecture

Michael J. Mack, MD

Dr. Michael Mack is a past president of the Society of Thoracic Surgeons (STS), the Thoracic Surgery Foundation for Research and Education, and the International Society for Minimally Invasive Cardiothoracic Surgery. He was the first chair of the STS/ACC National Transcatheter Valve Therapy (TVT) Registry Steering Committee and is the liaison to the TVT Registry from the American College of Cardiology Foundation. Dr. Mack has been integrally involved in the scientific query that has led to an explosion in the delivery of transcatheter aortic valve replacement (TAVR) procedures. In his keynote address, he will review the history of TAVR, the evidence to support its use as an interventional therapy, and the economic and political issues that surround its continued implementation.

SCA Distinguished Service Award Winner

Steven N. Konstadt, MD MBA FACC

The Distinguished Service Award is given to an individual who has made significant contributions to the specialty of cardiovascular anesthesiology through research, education, service, or some combination of these activities. With more than 30 years of experience as a cardiac anesthesiologist, Dr. Steven N. Konstadt was drawn to anesthesiology because it combined three things he particularly enjoyed: pharmacology, physiology, and the camaraderie present in the intense environment of the operating room. He is a pioneer in the use of transesophageal echocardiography (TEE) and a proponent of the safest, customer-friendly anesthesia that minimizes postoperative pain and nausea and improves recovery.

Dr. Konstadt has written numerous peer-reviewed publications and has co-authored and edited several textbooks pertaining to anesthesia and cardiac anesthesia, including the first interactive multimedia TEE Atlas, Self-Assessment, and Textbook. He has organized many scientific programs and served as president of SCA. In recent years, he has focused on international collaboration promoting the use of perioperative TEE in cardiac surgical patients.

For the past 12 years, Dr. Konstadt has been the chair of the department of anesthesiology at Maimonides Medical Center in Brooklyn, NY.

ASA Update

Jeffrey S. Plagenhoef, MD

Dr. Jeffrey Plagenhoef, chairman of the department of anesthesiology at Baylor Scott & White Hillcrest Medical Center in Waco, TX, is president of the American Society of Anesthesiologists (ASA). He was elected for a 1-year term in October 2016. Dr. Plagenhoef has held numerous leadership positions within ASA, including serving on the ASA Executive Committee as president-elect and first vice president. He has served on numerous ASA committees, task forces, and workgroups. Most notably, he was appointed the inaugural chair of the Anesthesia Quality Institute’s board of directors and chair of ASA’s Committee on Anesthesia Care Team. For his leadership on the ASA political action committee’s executive board and exemplary advocacy efforts, he was the recipient of the ASA Excellence in Government Award.

An influential leader of the Alabama State Society of Anesthesiologists (ASSA) for 2 decades, Dr. Plagenhoef served as ASSA’s president, payer liaison, and legislative liaison and on ASSA’s executive committee and board of directors. Additionally, he was president of the Houston County Medical Society and held leadership positions within the Medical Association of the State of Alabama.

Dr. Plagenhoef resides in Texas with his wife, Deborah Plagenhoef, MD, also a physician anesthesiologist and current president of the Texas Society of Anesthesiologists. They have six children: Nick, Madelin, Alex, Drew, Kenzie, and Sydney.

Earl Wynands Lecture

P.J. Devereaux, MD PhD FRCP(c)

Dr. Devereaux is a full professor and university scholar in the departments of health research methods, evidence, and impact and medicine at McMaster University. The focus of his clinic research is vascular complications around the time of surgery. He is undertaking several large international randomized clinical trials and observational studies addressing this issue. He is supported by a Tier 1 Canada Research Chair in Perioperative Medicine, and he also holds the Yusuf Chair in Cardiology at McMaster University.

Dr. Devereaux is the director of the division of cardiology at McMaster University. He also is the scientific leader of the Anesthesiology, Perioperative Medicine, and Surgical Research Group at the Population Health Research Institute.
## Schedule

**Saturday, April 22**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:15 am–6 pm</td>
<td>Registration Open</td>
</tr>
<tr>
<td>6:45–8 am</td>
<td><strong>Problem-Based Learning Discussions (PBLDs)</strong>&lt;br&gt;See page 26 for full schedule. Separate registration required.</td>
</tr>
<tr>
<td>7–8 am</td>
<td><strong>Light Breakfast</strong></td>
</tr>
<tr>
<td>8–10 am</td>
<td><strong>2017 Updates in Cardiac Anesthesiology—Refresher Course Lectures</strong>&lt;br&gt;<strong>Moderator:</strong> Fox, A.&lt;br&gt;See page 24 for full schedule. Separate registration required.</td>
</tr>
<tr>
<td>10–10:30 am</td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td>10–11 am</td>
<td><strong>(Fellow/Resident) Town Hall Discussion (Non-CME)</strong>&lt;br&gt;See page 27 for full schedule of Fellow/Resident programming.</td>
</tr>
<tr>
<td>10:30 am–Noon</td>
<td><strong>New Devices and Approaches in Endovascular Surgery</strong>&lt;br&gt;<strong>Moderators:</strong> Kumar; Popescu&lt;br&gt;See pages 40–45 for full abstract list.</td>
</tr>
<tr>
<td>11 am–Noon</td>
<td><strong>(Fellow/Resident) Complex Case Poster Presentations: Session 1 (Non-CME)</strong>&lt;br&gt;See pages 40–45 for full abstract list.</td>
</tr>
</tbody>
</table>
Schedule

Noon–1 pm
Lunch with Exhibitors

1–2 pm
(Fellow/ Resident) A Career in CT Anesthesiology: Mission Possible
See page 27 for full schedule of Fellow/ Resident programming.

1–3:30 pm
Evolutions in Mechanical Circulatory Support
Moderator: Janelle
1:10–1:20 pm Temporary Support: Percutaneous Devices as a Bridge to Decision or Recovery—Hernandez
1:20–1:40 pm In the Heart of Life: Destination Therapy Ventricular Assist Devices—Maldonado
1:40–2:20 pm Expanding the Use of ECMO After the H1N1 Era—Smith
2–2:20 pm Interventions on ECMO: Do They Make a Difference? Proning, Bronchoscopy, and Thoracotomy: Indications, Feasibility, and Problems—Ashworth
2:20–2:40 pm Pediatric Mechanical Circulatory Support Systems (ECMO and VADs): One Size Does Not Fit All—Burch
2:40–3 pm ECMO and Ex-Vivo: A New Era of Lung Transplantation—Neyrinck
3–3:30 pm Panel Discussion and Audience Q&A

1–3:30 pm
Heart Team Approach: Ischemic Mitral Valve Regurgitation
Moderator: Brakke
1–1:15 pm What Makes a Successful Heart Team?—Shook
1:15–1:30 pm TEE Assessment of Ischemic Mitral Regurgitation (MR)—Markin
1:30–1:45 pm Role of MitraClip in Ischemic MR—Mackensen
1:45–2 pm Surgical Intervention: CABG and Mitral Valve Repair (MVR)—Badhwar
2–2:15 pm Surgical Intervention: CABG Without MVR or Percutaneous Coronary Intervention and Aggressive Medical Therapy—Reisman
2:15–3:30 pm Pro-Con Debate: Therapeutic Decision Making—Panel Discussion

1–4 pm
Afternoon Workshops
See pages 24–25 for full schedule. Separate registration required.

2–3:30 pm
(Fellow/ Resident) Problem-Based Learning Discussion (PBLD): Ventricular Assist Devices (VADs)
See page 27 for full schedule of Fellow/ Resident programming.

3:30–4 pm
Coffee Break with Exhibitors

4–5 pm
(Fellow/ Resident) Complex Case Discussion with Expert Panel
The top four Complex Cases submitted to the Fellow/ Resident Program will be presented orally at this special session. All Annual Meeting attendees are invited to attend! CME will be offered for this session.

4–5:30 pm
Considerations of Aortic Root, Ascending, and Arch Surgery
Moderator: Anton
4–4:20 pm Valve Sparing Aortic Root Surgery: Reimplantation, Remodeling, or Replacement?—Weitzel
4:20–4:40 pm Evolving Approaches to Acute Stanford Type A Dissections—Cheung
4:40–5 pm Cerebral Protection in Aortic Arch Surgery—Grocott
5–5:20 pm Anesthetic Considerations for Hybrid Approaches to the Aortic Arch—Collard
5:20–5:30 pm Panel Discussion and Audience Q&A
### Saturday, April 22 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>4–5:30 pm</td>
<td>Oceana 11–12</td>
<td><strong>Prevention and Treatment of Perioperative Atrial Fibrillation</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Moderator:</strong> Ho</td>
</tr>
<tr>
<td>4–4:20 pm</td>
<td></td>
<td>Overview of Work to Date by the SCA Clinical Practice Improvement</td>
</tr>
<tr>
<td>4:20–4:40 pm</td>
<td>Subcommittee Working Group on Atrial Fibrillation—Muehlschlegel</td>
<td></td>
</tr>
<tr>
<td>4:40–5 pm</td>
<td></td>
<td>What Are the Real Clinical Consequences and Costs of Atrial Fibrillation in Cardiac Surgery—Mahajan</td>
</tr>
<tr>
<td>5–5:20 pm</td>
<td></td>
<td>Risk Models for Postoperative Atrial Fibrillation: Which to Use—Matthew</td>
</tr>
<tr>
<td>5:20–5:30 pm</td>
<td>Prevention and Management of Atrial Fibrillation in Cardiac Surgical Patients—Gutsche</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>5–6 pm</td>
<td>Pacifica 1–3</td>
<td>(Fellow/Resident) Complex Case Poster Presentations: Session 2 (Non-CME)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See pages 46–51 for full abstract list.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>6–7 pm</td>
<td>Promenade Deck</td>
<td><strong>Fellow and Resident Mentor Reception</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For invited mentors and mentees only.</td>
</tr>
</tbody>
</table>

### Sunday, April 23

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:45–8 am</td>
<td>Pacifica 6–7</td>
<td><strong>Problem-Based Learning Discussions (PBLDs)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>See page 26 for full schedule. Separate registration required.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8–9 am</td>
<td>Oceana 1–6</td>
<td><strong>Earl Wynands Lecture</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Moderator:</strong> Fox, A.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Myocardial Injury After Noncardiac Surgery: What Will It Take to Improve?—Devereaux</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 am–Noon</td>
<td>Oceana 1–6</td>
<td><strong>Morning Workshop</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>See page 25 for full schedule. Separate registration required.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9–10:30 am</td>
<td>Oceana 1–6</td>
<td><strong>SCA/STS Joint Session: Aortic Valve Disease: New Concepts in Diagnostic Imaging, Interventional, and Surgical Approaches</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Moderator:</strong> Sherman</td>
</tr>
<tr>
<td>9–9:20 am</td>
<td></td>
<td>Repair vs Replace—Badhwar</td>
</tr>
<tr>
<td>9:20–9:40 am</td>
<td>TAVR Update: Where Are We Today and What Is Ahead?—Hahn</td>
<td></td>
</tr>
<tr>
<td>9:40–10 am</td>
<td></td>
<td>New Concepts in Echocardiographic Imaging of the Aortic Valve—Sherman</td>
</tr>
<tr>
<td>10–10:30 am</td>
<td>Panel Discussion and Audience Q&amp;A</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30–11 am</td>
<td>Pacifica 6–7</td>
<td><strong>Coffee Break with Exhibitors</strong></td>
</tr>
</tbody>
</table>
11 am–12:30 pm  
**Big Data and Quality**  
*Oceana 8–10*

**Moderator: Bollen**

- 11–11:15 am  
  Databases and Quality: Yesterday, Today, and Tomorrow—*Abernathy*

- 11:15–11:30 am  
  The STS Database: Surgical and Cardiac Anesthesiology Components—*Mathew*

- 11:30–11:45 am  
  The SCA Clinical Practice Improvement Subcommittee—*Schwann*

- 11:45 am–Noon  
  Quality Improvement Program Implementation—*Mahajan*

- Noon–12:15 pm  
  Big Data, Quality, and Reimbursement—*Troianos*

- 12:15–12:30 pm  
  Panel Discussion and Audience Q&A

11 am–12:30 pm  
**Transplantation: No Risk, No Reward! But When Are the Stakes Too High?**  
*Oceana 1–6*

**Moderator: Maldonado**

- 11–11:20 am  
  Frailty in Transplantation: Fit or Fail?—*Ghadimi*

- 11:20–11:40 am  
  Liver-Thoracic Transplantation: A Practice in Principles—*Neyrinck*

- 11:40 am–Noon  
  Let’s Add Some Beans to the Mix: Kidney-Thoracic Transplantations—*Fitzsimons*

- Noon–12:20 pm  
  Controlling the Coagulation Cascade During Multiple Organ Transplants—*Esper*

- 12:20–12:30 pm  
  Panel Discussion and Audience Q&A

11 am–12:30 pm  
**Society of Critical Care Anesthesiologists (SOCCA) Session**  
*Oceana 11–12*

**Moderator: Hill**

- 11–11:20 am  
  Carbon Dioxide and the Heart—*Gutsche*

- 11:20–11:40 am  
  Goal-Directed Therapy and Preventing Kidney Injury: Which Goals?—*Shaefi*

- 11:40 am–Noon  
  Transitions in Care: Achieving High Reliability—*Bhatia*

- Noon–12:20 pm  
  Vasoplegia and Resuscitation in the Cardiac Surgery Patient—*Shahul*

- 12:20–12:30 pm  
  Panel Discussion and Audience Q&A

12:30–1:30 pm  
**Lunch with Exhibitors**  
*Pacifica 1–3 and 6–7*

**Scientific Program Poster Presentations: Session 1 (Non-CME)**

**Basic Science, Case Report, Structural Heart Disease**

See pages 29–31 for full abstract list.

1:30–3 pm  
**Healthcare Finances**  
*Oceana 8–10*

**Moderators: Mitrev; Panzica**

- 1:30–1:55 pm  
  Negotiations 101—*Vender*

- 1:55–2:15 pm  
  Negotiating With the Hospital for Anesthesia’s Share of Bundled Payments for Cardiovascular Procedures—*Konstadt*

- 2:15–2:35 pm  
  The Economics of Structural Heart Procedures: The Bottom Lines of Your Hospital and Society—*Mackensen*

- 2:35–2:50 pm  
  Update on Billing for TEE and Cardiac Anesthesia: New CPT and ICD 10 Codes—*Troianos*

- 2:50–3 pm  
  Panel Discussion and Audience Q&A

1:30–3 pm  
**Coagulation Management in Cardiovascular Surgery**  
*Oceana 1–6*

**Moderator: Kumar**

- 1:30–1:50 pm  
  The Anticoagulated Patient: Challenges and Strategies for Reversal—*Welsby*

- 1:50–2:10 pm  
  Point of Care Coagulation Management. Is It Best Practice?—*Tanaka, K.*

- 2:10–2:30 pm  
  Heparin Resistance: Diagnosis and Management—*Finley*

- 2:30–2:50 pm  
  Handling Heparin-Induced Thrombocytopenia (HIT) in Cardiac Surgery—*Greilich*

- 2:50–3 pm  
  Panel Discussion and Audience Q&A
## Schedule

### Sunday, April 23 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 1:30–3 pm        | Oceana 11–12    | **SCA Research Session 2017: Chips, SNPs, and Heat Maps:** Demystifying Perioperative Genomics  
**Moderator:** Heerdt  
1:30–1:55 pm  
1:55–2:20 pm  
2:20–2:45 pm  
2:45–3 pm  
The Basics I: Measurement and Quantification—Muehlschlegel  
The Basics II: Interpreting the Data—Podgoreanu  
Putting It Together Into Something Useful: Big Data and the Prospect of Personalized Medicine—Body |
| 1:30–4:30 pm     | Pacifica 6–7    | **Afternoon Workshop**  
See page 25 for full schedule. Separate registration required. |
| 3–3:30 pm        | Pacifica 6–7    | **Coffee Break with Exhibitors** |
| 3:30–5 pm        | Oceana 1–6      | **Electrophysiology Lab: Interventions for Cardiac Arrhythmias**  
**Moderator:** Ho  
3:30–3:50 pm  
3:50–4:10 pm  
4:10–4:30 pm  
4:30–4:50 pm  
4:50–5 pm  
Therapeutic Strategies for Managing Cardiac Arrhythmias—Mittnacht  
Anesthesia, Ablation, and Autonomic Modulation—Howard-Quijano  
Black Box Explained, What Exactly Are Those Tracings and Maps?—Katsiyiannis  
Atrial Appendage Closure Devices and Procedures—Nyman  
Panel Discussion and Audience Q&A |
| 3:30–5 pm        | Oceana 8–10     | **Super Echo Panel**  
**Co-Organizers:** Brady; Glas  
**Moderator:** Glas  
**Panelists:** Bollen; Markin; Nicoara  
(SE1) Percutaneous Closure of Complex Membranous Ventricular Septal Defect Under Transesophageal Echocardiographic Guidance—Shvetank Agarwal, MD FASE1; Nitin Anand, MD1; Augusta University, Medical College of Georgia1  
(SE2) Ruptured Sinus of Valsalva Aneurysm With Dynamic Aortic Insufficiency—Eleanor Vega, MD1; Sarah Witt, MD1; Matthew Bean, DO2; Duke University1; Duke University Medical Center2  
(SE3) Transesophageal Echocardiographic Interrogation of an Atrial Septal Pouch With Thrombosis—Emily Williams, MD1; Andra Duncan, MD MS1; David Anthony, MD1; Cleveland Clinic1  
(SE4) Hypotension and Aggravated Mitral Regurgitation (MR) Due to Air During a Mitral Clip Procedure—Sridhar Musuku, MD FRCA1; Nathapong Arunakul, MD1; Natalie Bruno, MD1; Saroj Pani, MBBS1; Albany Medical Center1  
(SE5) HeartMate III LVAD Implantation in Kawasaki Disease-Induced Cardiomyopathy—Kara Siegrist, MD1; Mias Pretorius, MBCHB1; Vanderbilt University Medical Center1  
(SE6) Hypotension and Aggravated Mitral Regurgitation (MR) Due to Air During a Mitral Clip Procedure—McKenzie Hollon, MD1; Michele Sumler, MD1; Elrond Teo, MBBS FCCP FASE1; Emory University1 |
| 3:30–5:30 pm     | Oceana 11–12    | **Best of Meeting Oral Abstract Presentations: Session 1**  
**Moderator:** Roth  
See page 28 for full abstract list. |
| 5:30–6:30 pm     | Pacifica 6–7    | **Reception with Exhibitors** |
Schedule

7–10 pm
SCA Foundation “Back to Our Future” Gala Event
Join your SCA and SCA Foundation (SCAF) colleagues as we celebrate 9 years of partnership in raising funds for Research, Education, and Leadership Development for cardiac anesthesiologists. Hear from past research grantees and Kaplan Leadership Development Award winners to understand just how critical your support has been in establishing their careers and expanding knowledge and enhancing patient care within cardiac anesthesiology. Visit the registration desk to purchase your ticket in support of the future of our specialty!

Monday, April 24

6:15 am–6 pm
Registration Open

6:45–8 am
Problem-Based Learning Discussions (PBLDs)
See page 26 for full schedule. Separate registration required.

7–8 am
Light Breakfast With Exhibitors

8–8:10 am
SCA Research Grant and Kaplan Leadership Award Presentation
Shore-Lesserson

8:10–10 am
Transfusion Management in Cardiac Surgery
Moderator: Mazer
8:10–8:30 am  The Transfusion-Anemia Balance: Best Practice in 2017—Lau
8:30–8:50 am  The Anemic Patient and Preoperative Optimization—Sander
8:50–9:10 am  When Transfusion Is Not the Answer: Red Blood Cell (RBC) Dysfunction, Immunomodulation, and Outcomes—Blumberg
9:10–9:30 am  Minimizing Hemodilution on Cardiopulmonary Bypass—Hwang
9:30–9:50 am  Lysine Analogues in Cardiac Surgery: Risks and Benefits—Shore-Lesserson
9:50–10 am  Panel Discussion and Audience Q&A

10–10:30 am
Coffee Break With Exhibitors

10:30–10:40 am
SCA Distinguished Service Award Presentation
Shore-Lesserson

10:40–11:10 am
ASA Update
Moderator: Shore-Lesserson
Speaker: Plaggenhoef

11:10 am–12:10 pm
Keynote Lecture
Moderator: Shore-Lesserson
Innovations in the Treatment of Structural Heart Disease: Impact on Cardiac Surgery and Anesthesiology—Mack
Monday, April 24 (continued)

12:10–12:30 pm  
SCA Annual Business Meeting  
Shore-Lesserson

12:30–1:30 pm  
Lunch (on own)

Scientific Program Poster Presentations: Session 2 (Non-CME)  
Cardiovascular Anesthesia, Coagulation, Echocardiography, Thoracic Anesthesia  
See pages 32–35 for full abstract list.

1:30–3 pm  
Cardiac Protection: From Caves to the Arctic to the OR  
Moderator: Billings  
1:30–1:50 pm  
Ischemia Reperfusion Injury During Cardiac Surgery: Effects in Humans and Lessons from Hibernating Mammals—Podgoreanu  
1:50–2:10 pm  
Small Caves (Caveolae) and Cardiac Protection—Roth  
2:10–2:30 pm  
Volatile Anesthetics and Cardiac Protection—Landoni  
2:30–2:50 pm  
Propofol and Cardiac Protection—Ansley  
2:50–3 pm  
Panel Discussion and Audience Q&A

1:30–3 pm  
Anesthesia & Analgesia State of the Art: Cardiac Biomarkers  
Moderator: Beattie  
1:30–1:50 pm  
Epidemiological Considerations for the Clinical Use of Cardiac Biomarkers—Wijeysundera  
1:50–2:10 pm  
Controversies Around Perioperative Troponin Measurements—Nagele  
2:10–2:30 pm  
Perioperative Utility of B-Type Natriuretic Peptide—Biccard  
2:30–3 pm  
Audience Q&A with speaker panel

1:30–3 pm  
EACTA Outcomes: What Happens After Surgery?  
Moderator: Greenhalgh  
1:30–1:50 pm  
Do Any Interventions Decrease or Increase Mortality in Critically III Patients?—Landoni  
1:50–2:10 pm  
Cognitive Decline Postcardiac Surgery: What Is the Incidence and How Can We Address It?—Fletcher  
2:10–2:30 pm  
Rehabilitation Post-Prolonged ICU Stay: Intensivist and Patient Perspectives—Quasim, T.; Quasim, I.  
2:30–3 pm  
Panel Discussion

3–3:30 pm  
Coffee Break

3:30–5 pm  
Real-Life Challenges for Maintaining a Safe Cardiac Operating Room  
Moderator: Abernathy  
3:30–3:50 pm  
Resiliency in Teams and in Organizations: What It Takes to Have High Reliability in Medicine—Catchpole  
3:50–4:10 pm  
A Practical Guide to TEAM Building: Taking the First STEPPS—Rhee  
4:10–4:30 pm  
4:30–5 pm  
Panel Discussion
Schedule

3:30–5 pm

**Percutaneous Valve Care: The Role of Cardiac Anesthesia**

**Moderators:** Thaemert

3:30–3:50 pm  
TAVR: Do We Really Need General Anesthesia?—Brady

3:50–4:10 pm  
MitraClip for Degenerative Mitral Regurgitation—Wu

4:10–4:30 pm  
Mitral Replacement: Where Are We Now?—Shook

4:30–5 pm  
Tricuspid Valve: What Is the Future?—Augoustides

3:30–5:30 pm

**Best of Meeting Oral Abstract Presentations: Session 2**

**Moderator:** Eaton

See page 28 for full abstract list.

5–6 pm

**The Kaplan Leadership Award: Stories of Two Previous Recipients**

**Moderators:** Perry; Rhee

**Speakers:** Maxwell; Wilkey

Tuesday, April 25

6:15 am–6 pm

**Registration Open**

6:45–8 am

**Problem-Based Learning Discussions (PBLDs)**

See page 26 for full schedule. Separate registration required.

7–8 am

**Light Breakfast**

8–10 am

**Global Engagement in Cardiac Surgery**

**Moderators:** Cheng; Reeves

8–8:30 am  
Scope of Practice and Outcomes in Cardiac Surgery and Anesthesia: East Meets West—Hwang; Reeves

8:30–9 am  
Global Practice and Perioperative Management in OPCAB Versus On-Pump CABG Surgery: Long-Term Outcomes and Cost Implications—Cheng; Mehta

9–9:30 am  
Global Practice and Ultra-Fast Track Management in TAVR Surgery: Devices, Approaches, Long-Term Outcomes, and Cost Implications—Bainbridge; Ender

9:30–10 am  
Panel Discussion and Audience Q&A

10–10:30 am

**Coffee Break**

10:30 am–Noon

**Left Heart Failure**

**Moderator:** Mitrev

10:30–10:50 am  
Advances in Pharmacologic Management of Acute Left Heart Failure—Duncan

10:50–11:10 am  
Mechanical Circulatory Support for Advanced Left Heart Failure Patients: What's on the Horizon?—Makdisi

11:10–11:30 am  
Perioperative Management and Outcomes of Patients With Hypertrophic Obstructive Cardiomyopathy (HOCM)—Brady

11:30–11:50 am  
Anything New in the Management of Diastolic Heart Failure?—Nicoara

11:50 am–Noon  
Panel Discussion and Audience Q&A
**Schedule**

**Tuesday, April 25 (continued)**

### 10:30 am–Noon

**Echo in the Noncardiac Surgical Patient**

*Moderators: Greenhalgh, Shernan*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30–10:50 am</td>
<td>Preoperative Echo Assessment of the Noncardiac Surgical Patient—Royse</td>
</tr>
<tr>
<td>10:50–11:10 am</td>
<td>Postoperative Echo Assessment of the Noncardiac Surgical Patient in the ICU—Fletcher</td>
</tr>
<tr>
<td>11:10–11:30 am</td>
<td>Perioperative TEE for the Noncardiac Surgical Patient—Bainbridge</td>
</tr>
<tr>
<td>11:30 am–Noon</td>
<td>Panel Discussion and Audience Q&amp;A</td>
</tr>
</tbody>
</table>

### Noon–1 pm

**Lunch (on own)**

**Scientific Program Poster Presentations: Session 3 (Non-CME)**

**Perioperative Medicine, Quality Improvement**

*See pages 36–39 for full abstract list.*

### 1–2:30 pm

**Best Practices for Cardiopulmonary Bypass Management**

*Moderators: Barodka, Brady*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–1:20 pm</td>
<td>Warm, Cold, or In Between? Temperature Management During CPB—Grocott</td>
</tr>
<tr>
<td>1:20–1:40 pm</td>
<td>Flow or Pressure: What Determines Organ Perfusion During CPB?—Lilly</td>
</tr>
<tr>
<td>1:40–2:20 pm</td>
<td>Pro-Con Debate: Monitoring Perfusion: NIRS Is Standard of Care for CPB</td>
</tr>
<tr>
<td></td>
<td>Pro: Taylor</td>
</tr>
<tr>
<td></td>
<td>Con: Hogue</td>
</tr>
<tr>
<td>2:20–2:30 pm</td>
<td>Panel Discussion and Audience Q&amp;A</td>
</tr>
</tbody>
</table>

### 1–2:30 pm

**New Ventilation Strategies During Cardiopulmonary Bypass**

*Moderator: Popescu*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–1:20 pm</td>
<td>Mechanisms of Pulmonary Injury in Cardiac Surgery—Cereda</td>
</tr>
<tr>
<td>1:20–1:40 pm</td>
<td>The Utility of Ventilation and Lung Perfusion During Cardiopulmonary Bypass—Carmona</td>
</tr>
<tr>
<td>1:40–2:20 pm</td>
<td>Pro-Con Debate: 100% Oxygen Is Always Best!</td>
</tr>
<tr>
<td></td>
<td>Pro: Roth</td>
</tr>
<tr>
<td></td>
<td>Con: Billings</td>
</tr>
<tr>
<td>2:20–2:30 pm</td>
<td>Panel Discussion and Audience Q&amp;A</td>
</tr>
</tbody>
</table>

### 1–2:30 pm

**Controversies in Cardiac Surgery–Associated Acute Kidney Injury (CSA-AKI)**

*Moderator: Ao; Weisinger*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–1:20 pm</td>
<td>Diagnosis of Acute Kidney Injury Following Cardiac Surgery—Wijeysundera</td>
</tr>
<tr>
<td>1:20–1:40 pm</td>
<td>Clinical Trials in CSA-AKI: Important Interventions and Endpoints—Shaw</td>
</tr>
<tr>
<td>1:40–2 pm</td>
<td>Continuous Renal Replacement Therapy and ECMO: Good Idea or Dangerous Combination?—Silver</td>
</tr>
<tr>
<td>2–2:20 pm</td>
<td>Is the Incidence of CSA-AKI Influenced by the Choice of Procedure?</td>
</tr>
<tr>
<td></td>
<td>On-Pump vs Off-Pump CABG and SAVR vs TAVR—Stafford-Smith</td>
</tr>
<tr>
<td>2:20–2:30 pm</td>
<td>Panel Discussion and Audience Q&amp;A</td>
</tr>
</tbody>
</table>

### 2:30–3 pm

**Coffee Break**
Schedule

3–4:30 pm Oceana 8–10

Hot Topics in Thoracic Anesthesiology

Moderator: Puskas

3–3:20 pm
Morbidity After Thoracic Surgery: Is There Prevention?—Puskas

3:20–3:40 pm
Preventing Chronic Pain After Thoracic Surgery—Ochroch

3:40–4 pm
Pulmonary Hypertension Due to Lung Disease vs Heart Disease—Slinger

4–4:20 pm
Lower Airway Trauma, Management, and Consequences—Popescu

4:20–4:30 pm
Panel Discussion and Audience Q&A

3–4:30 pm Oceana 11–12

SCA/CCAS Session: Update on Pediatric Cardiac Anesthesiology

Moderators: Wise-Faberowski

3–3:10 pm
Introductory Comments from CCAS—Guzzetta

3:10–3:25 pm
Anatomy of Hypoplastic Left Heart Syndrome—Miller-Hance

3:25–3:55 pm
Surgical Management of Hypoplastic Left Heart Syndrome—Jacobs

3:55–4:10 pm
Anesthesia Debate: I’d Rather Care for a....

Sano: Eaton
Norwood: Schure
Hybrid: Naguib

4:10–4:30 pm
Panel Discussion and Audience Q&A

3–4:30 pm Oceana 1–6

Perioperative Care of the Morbidly Obese Cardiac Surgical Patient

Moderator: Brakke

3–3:25 pm
Pathophysiology and Clinical Implications of Morbid Obesity in Cardiac Surgery—Cheruku

3:25–3:50 pm
Airway Management for the Obese Cardiac Surgical Patient—Lester

3:50–4:15 pm
Perioperative Management of Morbidly Obese Patients in Cardiac Surgery—Chacon

4:15–4:30 pm
Panel Discussion and Audience Q&A

4:30–6 pm Oceana 1–6

Echo Jeopardy!

Moderators: Mahmood; Maslow; Panzica

Wednesday, April 26

6:15–11 am
Registration Open

6:45–8 am
Problem-Based Learning Discussions (PBLDs)

See page 26 for full schedule. Separate registration required.

7–8 am
Light Breakfast

8–11 am
Morning Workshop

See page 25 for full schedule. Separate registration required.

8–11 am
(Fellow/Resident) Perioperative TEE Review Session

See page 27 for full schedule of Fellow and Resident programming. Separate registration required.
Schedule: Workshops

Workshop Coordinator: Shillcutt
Separate registration required.

Saturday, April 22

8–11 am

Workshop 1: Hands-On TTE
Moderators: Brakke; Janelle
Presentations:
- Comparison Views: TTE vs TEE—Montzingo
- The Basic Exam—Ho
- How TTE Has Expanded My Practice—Markin
Hands-On Stations:
- Subcostal Window—Meineri; Thomas
- Parasternal Window—Hernandez; Teo
- Apical Window—Desjardins; Ho
- Hemodynamic Assessments—Markin; Montzingo

8–11 am

Workshop 2: ECMO and Percutaneous VADs
Moderators: Anton; Thompson
Presentations:
- Physiology of Continuous Flow Circulation and Long-Term VAD Support—Rao
- Hemodynamic Management of Patients With LVAD Support—Taylor
- Functional and Long-Term Outcomes in Patients After ECMO Support—Shaefi
- Understanding VAD Systems and Alarms—Thompson
- Advantages and Disadvantages of ECMO Configurations and Cannulation Strategies—Silver
- New Developments and Emerging Technologies—Cheruku
Hands-On Stations:
- Left Ventricular Assist Devices I—Rao
- Percutaneous Ventricular Assist Devices—Taylor
- Left Ventricular Assist Devices II—Thompson
- Intra-Aortic Balloon Pumps—Shaefi
- Extracorporeal Mechanical Support Systems—Silver
- Percutaneous Partial Circulatory Assist Devices—Reisman

1–4 pm

Workshop 3: Perioperative Ultrasound
Moderators: Bollen, Weisinger
Presentations:
- A Call to Action: Where We Are Going?—Shernan
Hands-On Stations:
- Ultrasound for Evaluation of Hypoxia/Dyspnea—Montzingo; Rao
- FAST Examination—Joshi; Peach
- FOCUS Cardiac Examination—Cheruku; Teo
- CPR and TTE—Meineri; Thomas
- Vascular Access—Dailor; Lester

Pacifica 11–12

Pacifica 8–10

Pacifica 11–12
Schedule: Workshops

1–4 pm Pacifica 8–10

Workshop 4: Percutaneous Valves

Moderators: Augoustides; Thaemert

Hands-On Stations:
- TAVR Problem-Based Learning Discussion—Abernathy; Augoustides
- TAVR Imaging—Chacon; Skubas
- TAVR Product Discussion—Anderson
- MitraClip Problem-Based Learning Discussion—Cardenas; Wu
- MitraClip Imaging—Desjardins; Hahn
- MitraClip Product Discussion—Nyman

Sunday, April 23

9 am–Noon Pacifica 11–12

Workshop 5: EP/Pacemaker

Moderators: Ho, Perry

Presentations:
- Pacemaker Function and Programming—Neelankavil
- Guidelines for Perioperative CIED Management—Thompson
- Lessons Learned from Establishing a Periop PM/ICD Service—Rooke
- EP Perspectives on Perioperative CIED Service—Katsiyiannis

Hands-On Stations:
- Pacemaker Mode Selection—Howard-Quijano; Montzingo
- Perioperative ICD Therapy Management—Mittnacht; Thompson
- Magnet Use—Leff; Rooke
- Rate Adaptive Features—Katsiyiannis; Neelankavil

1:30–4:30 pm Pacifica 11–12

Workshop 6: Advanced TEE

Moderators: Brady, Sherman

Presentations:
- Right Ventricle Quantification—Mahmood
- Mitral Valve Measurements—Sherman
- Cardiac Deformation—Howard-Quijano

Hands-On Stations:
- Mitral Valve Measurements—Desjardins; Shook
- Right Ventricle Quantification—Mackensen; Mahmood
- Cardiac Deformation—Howard-Quijano; Skubas
- Advanced Quantification—Neelankavil; Swaminathan

Wednesday, April 26

8–11 am Pacifica 11–12

Workshop 7: 3D TEE

Moderators: Nicoara; Perry

Presentations:
- Live 3D Acquisition: Advantages, Disadvantages, When Do I Use It?—Desjardins
- Gated 3D Acquisition: Advantages, Disadvantages, When Do I Use It?—Nyman
- How I Use 3D in the Operating Room: Proposed Workflow—Neelankavil

Hands-On Stations:
- Basic 3D TEE I—Leff
- Advanced 3D TEE I—Ho
- Basic 3D TEE II—Markin; Nicoara; Perry
- Advanced 3D TEE II—Cardenas; Thomas
- Advanced 3D Quantification—Desjardins; Nyman
- Advanced 3D TEE III—Neelankavil
### Schedule: PBLDs

**PBLD Coordinator:** Shillcutt

Separate registration required. Breakfast for all sessions provided in South China Sea.

Each session is limited to 17 participants and two faculty members to enable small-group interaction, discussion, and exchange of ideas.

#### Saturday, April 22 (6:45–8 am)

<table>
<thead>
<tr>
<th>PBLD</th>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBLD 1</td>
<td>Optimal Pain Management for VATS—Campos; Pedoto</td>
<td>Banda Sea 1</td>
</tr>
<tr>
<td>PBLD 2</td>
<td>The Patient With Cardiac Disease Undergoing Thoracic Surgery—Anca; Popescu</td>
<td>Banda Sea 2</td>
</tr>
<tr>
<td>PBLD 3</td>
<td>Lung Transplantation: Management Decisions—Klinger; Slinger</td>
<td>Timor Sea 1</td>
</tr>
<tr>
<td>PBLD 4</td>
<td>Massive Hemoptysis—Loher; Zhukov</td>
<td>Java Sea 2</td>
</tr>
<tr>
<td>PBLD 5</td>
<td>The Afib Problem With Thoracic Surgery—Frendl; Heir</td>
<td>Java Sea 1</td>
</tr>
<tr>
<td>PBLD 6</td>
<td>Carinal Resection: Nuts &amp; Bolts—Hartigan; Ng</td>
<td>Java Sea 2</td>
</tr>
<tr>
<td>PBLD 7</td>
<td>Robotic Thymectomy in a Myasthenic—Blank; Collins</td>
<td>Coral Sea 1</td>
</tr>
<tr>
<td>PBLD 8</td>
<td>Ethical Conundrums in Thoracic Anesthesia—Ochroch; Sadovnikoff</td>
<td>Coral Sea 2</td>
</tr>
</tbody>
</table>

#### Sunday, April 23 (6:45–8 am)

<table>
<thead>
<tr>
<th>PBLD</th>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBLD 9</td>
<td>Pitfalls and Solutions in Invasive Arterial Pressure Measurement—Gutsche; Perrino</td>
<td>Banda Sea 1</td>
</tr>
<tr>
<td>PBLD 10</td>
<td>Managing the Adult Congenital Patient for Elective Surgery—Burch; Mittnacht</td>
<td>Banda Sea 2</td>
</tr>
<tr>
<td>PBLD 11</td>
<td>Secondary Tricuspid Regurgitation: Fix it or Leave It Alone?—Hahn; Meineri</td>
<td>Timor Sea 1</td>
</tr>
<tr>
<td>PBLD 12</td>
<td>Stop the Bleeding: Tips and Tricks for Troubleshooting Perioperative Coagulopathy—Ghadimi; Patel</td>
<td>Timor Sea 2</td>
</tr>
<tr>
<td>PBLD 13</td>
<td>Anesthesia for Thoracic Endovascular Aortic Repair and Rapid Right Ventricular Pacing—Bokoch; Shalabi</td>
<td>Java Sea 1</td>
</tr>
<tr>
<td>PBLD 14</td>
<td>STS: Transarterial Aortic Valve Implantation—Badhwar; Sherman</td>
<td>Java Sea 2</td>
</tr>
<tr>
<td>PBLD 15</td>
<td>How to Build a Structural Heart Program—Mackensen; Reisman</td>
<td>Coral Sea 1</td>
</tr>
<tr>
<td>PBLD 16</td>
<td>Intraoperative Diagnosis of Severe Low-Flow, Low-Gradient Aortic Stenosis—Tanaka, C.; Zvara</td>
<td>Coral Sea 2</td>
</tr>
</tbody>
</table>

#### Monday, April 24 (6:45–8 am)

<table>
<thead>
<tr>
<th>PBLD</th>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBLD 17</td>
<td>Converting from VA ECMO to BiVAD: Anesthetic Considerations—Chung; Markin</td>
<td>Banda Sea 1</td>
</tr>
<tr>
<td>PBLD 18</td>
<td>Mitral Repairs: Minimally Invasive, Maximum Headache?—Dailor; Mitrev</td>
<td>Banda Sea 2</td>
</tr>
<tr>
<td>PBLD 19</td>
<td>High-Risk Lead Extractions: Who, Where, and How?—Ferin; Joshi</td>
<td>Timor Sea 1</td>
</tr>
<tr>
<td>PBLD 20</td>
<td>Managing the Patient Taking the New Oral Anticoagulants—Arora; Gravlee</td>
<td>Timor Sea 2</td>
</tr>
<tr>
<td>PBLD 21</td>
<td>Pulmonary Hypertension in Interventional Radiology: To Tube or Not to Tube?—Gross; Varelmann</td>
<td>Java Sea 1</td>
</tr>
<tr>
<td>PBLD 22</td>
<td>Challenges of Ventricular Assist Device Placement—Mahmood; Hao</td>
<td>Java Sea 2</td>
</tr>
<tr>
<td>PBLD 23</td>
<td>This Heart Transplant Is Ruining My Laparotomy—Hastings; Richards</td>
<td>Coral Sea 1</td>
</tr>
<tr>
<td>PBLD 24</td>
<td>Aortic Valve Repair: What to Know—Augoustides; Ko</td>
<td>Coral Sea 2</td>
</tr>
</tbody>
</table>

#### Tuesday, April 25 (6:45–8 am)

<table>
<thead>
<tr>
<th>PBLD</th>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBLD 25</td>
<td>Right Heart Failure After Heart Transplantation: Help!—Chacon; Janelle</td>
<td>Banda Sea 1</td>
</tr>
<tr>
<td>PBLD 26</td>
<td>Heparin-Induced Thrombocytopenia and Cardiopulmonary Bypass—Taylor; Weiner</td>
<td>Banda Sea 2</td>
</tr>
<tr>
<td>PBLD 27</td>
<td>VT Storm: Coming to a Cath Lab Near You—Howard-Quijano; Methangkool</td>
<td>Timor Sea 1</td>
</tr>
<tr>
<td>PBLD 28</td>
<td>What Should I Know About Hypertrophic Obstructive Cardiomyopathy?—Brakke; Tse</td>
<td>Timor Sea 2</td>
</tr>
<tr>
<td>PBLD 29</td>
<td>Preventing and Managing Perioperative Delirium—Cheruku; Grocott</td>
<td>Java Sea 1</td>
</tr>
<tr>
<td>PBLD 30</td>
<td>Anesthetic Management for Combined Heart/Liver Transplantation—Cvetkovic; Pothula</td>
<td>Java Sea 2</td>
</tr>
<tr>
<td>PBLD 31</td>
<td>Can You Be Too Cold? Temperature Management for DHCA—Cheung; Leff</td>
<td>Coral Sea 1</td>
</tr>
<tr>
<td>PBLD 32</td>
<td>Minimally Invasive Surgery—Maximally Monitoring: Monitoring Considerations in Total Endoscopic Robotic Cardiac Surgery (TERCS)—Fitzgerald; Skubas</td>
<td>Coral Sea 2</td>
</tr>
</tbody>
</table>

#### Wednesday, April 26 (6:45–8 am)

<table>
<thead>
<tr>
<th>PBLD</th>
<th>Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBLD 33</td>
<td>Emergent Initiation and ICU Management for Peripheral Mechanical Circulatory Support—Jayaraman; Nonaka</td>
<td>Banda Sea 1</td>
</tr>
<tr>
<td>PBLD 34</td>
<td>Factor Recombinants, Factor Concentrates, and Fibrinogen—Greilich; Levy</td>
<td>Banda Sea 2</td>
</tr>
<tr>
<td>PBLD 35</td>
<td>Assessment and Management of Right Ventricular Dysfunction for LVAD Placement: Can the RV Handle an LVAD?—Ianchulev; Burbano</td>
<td>Timor Sea 1</td>
</tr>
<tr>
<td>PBLD 36</td>
<td>Severe Pulmonary Hypertension and Noncardiac Surgery—Kay; Leff</td>
<td>Timor Sea 2</td>
</tr>
<tr>
<td>PBLD 37</td>
<td>Adult Patient With a &quot;Failing&quot; Fontan for Emergency Exploratory Laparotomy—Dinardo; Nasr</td>
<td>Java Sea 2</td>
</tr>
</tbody>
</table>
Schedule: Fellow/Resident Program

**Saturday, April 22**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10–11 am</td>
<td>Town Hall Discussion (Non-CME)</td>
<td>Oceana 8–10</td>
</tr>
<tr>
<td></td>
<td><em>Moderators: Culp; Neelankavil</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Join SCA leaders to discuss important issues relating to society membership, benefits, and value, and to answer the question of how we can best serve you. Light refreshments will be served.</td>
<td></td>
</tr>
<tr>
<td>11 am–Noon</td>
<td>Complex Case Poster Presentations No. 1 (Non-CME)</td>
<td>Pacifica 1–3</td>
</tr>
<tr>
<td>Noon–1 pm</td>
<td>Lunch with Exhibitors</td>
<td>Pacifica 6–7</td>
</tr>
<tr>
<td>1–2 pm</td>
<td><strong>A Career in CT Anesthesiology: Mission Possible</strong></td>
<td>Oceana 8–10</td>
</tr>
<tr>
<td></td>
<td><em>Moderators: Culp; Neelankavil</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Life as a Private Practice Anesthesiologist—Perry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Life as an Academic Anesthesiologist—Thompson</td>
<td></td>
</tr>
<tr>
<td></td>
<td>What I Really Need to Do When I Start My First Job—Zvara</td>
<td></td>
</tr>
<tr>
<td>2–3:30 pm</td>
<td>Problem-Based Learning Discussion: Ventricular Assist Devices (VADs)</td>
<td>Oceana 8–10</td>
</tr>
<tr>
<td></td>
<td><em>Speakers: Anton; Apostolidou; Banks; Bernstein; Cheung; Eagle; Fox, J.; Hargrave; Harvey; Ho; Methangkool; Miller; Nelson, E.; Ngai; Peng; Sumerl; Tippett; Tolpin; Townsley; Wilson</em></td>
<td></td>
</tr>
<tr>
<td>4–5 pm</td>
<td>Complex Case Discussion With Expert Panel</td>
<td>Oceana 7</td>
</tr>
<tr>
<td></td>
<td><em>Moderators: Culp; Neelankavil</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Panelists: Fox, J.; Shillcutt; Swaminathan</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The top four Complex Cases submitted to the Fellow/Resident Program will be presented orally at this special session. All Annual Meeting attendees are invited to attend! CME will be offered for this session.</td>
<td></td>
</tr>
<tr>
<td>5–6 pm</td>
<td>Complex Case Poster Presentations No. 2 (Non-CME)</td>
<td>Pacifica 1–3</td>
</tr>
<tr>
<td>6–7 pm</td>
<td>Fellow and Resident Mentor Reception</td>
<td>Promenade Deck</td>
</tr>
<tr>
<td></td>
<td><em>Invited mentors and mentees only.</em></td>
<td></td>
</tr>
</tbody>
</table>

**Wednesday, April 26**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8–11 am</td>
<td><strong>Perioperative TEE Review Session</strong></td>
<td>Pacifica 8–10</td>
</tr>
<tr>
<td></td>
<td><em>Moderators: Culp, Neelankavil</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Artifacts &amp; Pitfalls—Bainbridge</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hemodynamic Calculations—Brady</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diastology—Popescu</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Congenital Heart Defects—Rouine-Rapp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ultrasound Physics—Royse</td>
<td></td>
</tr>
</tbody>
</table>
Scientific Abstracts and Posters

Best of Meeting Oral Abstract
Presentations: Session 1

Sunday, April 23, 3:30–5:30 pm

(SCA1) Neuropeptide Y3-36 Incorporated Into PVAX Nanoparticle Improves Angiogenesis in a Murine Model of Myocardial Ischemia
Maria Saraf, BA1; Jelliffe Jeganathan, MBBS1; Feroze Mahmood, MD FASE2; Arash Khamooshian, MD3; Robina Matyal, MD4; Beth Israel Deaconess Medical Center1; University Medical Center Groningen2

(SCA2) SIRT3 Ablation Exacerbates Neuroinflammation After Deep Hypothermic Circulatory Arrest Via NLRP3 Inflammasome Activation in the Rat
Zhiquan Zhang, PhD1; Bijal Shah, MS1; Michael Smith, MS1; Quintin Quinones, MD PhD1; Niccolo Terrando, BSc (hons) DIC PhD1; Mihai Podgoreanu, MD FASE2; Duke University Medical Center3; Duke University4

(SCA3) Myocardial Injury Leads to Remote Transcriptome Remodeling of the Cardiac Nervous System in a Large Animal Model
Louis Saddic, MD PhD1; Kimberly Howard-Quijano, MD MS1; Chen Gao, PhD1; Tatsuo Takamiya, MD1; Christoph Rau, PhD2; Yibin Wang, PhD1; Aman Mahajan, MD PhD1; UCLA3

(SCA4) Perioperative Markers of Brain Injury and the Risk of Delirium Following Cardiac Surgery
Jason O’Neal, MD1; Yafen Liang, MD1; Brennan McNeil2; Andrew Shaw, FCCM FRCA MB1; Frederic Billings, MD MSCI1; Vanderbilt University Medical Center1

(SCA5) Static and Dynamic Gene Expression Signatures in Left and Right Atrial Myocardium of Patients Undergoing Cardiac Surgery and Their Association With Atrial Fibrillation
Martin Sigurdsson, MD PhD1; Nathan Waldron, MD MHS2; Michael Manning, MD PhD1; Quintin Quinones, MD PhD1; Miklos Kertai, MD PhD1; Joseph Mathew, MD1; Mihai Podgoreanu, MD FASE2; Duke University Medical Center1; Duke University Medical Center2

(SCA6) Use of a Simulation Algorithm to Model Complex LV Contractility and Energetics from Common Hemodynamic Monitors and Echocardiography
Scott Koffman, MD1; Paul Heerdt, MD PhD FCCP2; Manuel Fontes, MD1; Yale University1; Yale University School of Medicine2

(SCA7) Genome-Wide Association Study of Thrombocytopenia After Coronary Artery Bypa...
Scientific Abstracts and Posters

Scientific Program Poster Presentations: Session 1 (Non-CME)
Basic Science, Case Report, Structural Heart Disease

Sunday, April 23, 12:30–1:30 pm

(SCA17) Withdrawn

(SCA18) Effects of Epinephrine Exposure on Vascular Irritability-Related Gene Expressions in Cultured Cardiomyocytes
Rayhan Tariq, MD1; Geoffrey L. Liu, BA1; Michael Green, DO2; Henry Liu, MD1; Drexel University College of Medicine1; Hahnemann Hospital/Drexel University College of Medicine2

(SCA19) Peripheral Venous Waveform Analysis for Evaluating Volume Responsiveness in Patients with Distributive Shock
Kelly Kohorst, MD1; Bret Alvis, MD1; Kyle Hocking, PhD1; Irida Nikolla, MD1; Franz Baudenbacher; Susan Eagle, MD1; Vanderbilt University Medical Center1; Vanderbilt University2

(SCA20) Cerebral Oxygenation and Quantified Neurological Outcomes After Coronary Bypass Surgery
Joanna Semrau, BSc1; Michael Wood, BA1; Stephen Scott, PhD1; Tarit Saha, MBBS FRCPC1; G. Andrew Hamilton, MD1; Dimitri Petsikas, MD2; Darrin Payne, MD MSC FRCS1; J. Gordon Boyd, MD PhD1; Queen’s University1; Kingston General Hospital2; Queen’s University/Kingston General Hospital3

(SCA21) Right Ventricular Dysfunction After Left Ventricular Assist Device Implantation
Mina Oftadeh, DO1; Jayanta Mukherji, MD1; Pierre LeVern, MD1; Loyola University Medical Center1

(SCA22) Vascular Occlusion Tests as a Marker of Microvascular Dysfunction in Cardiopulmonary Bypass
Christopher Paterno, DO MPH1; Margarita Nieto; Ricardo Martinez-Ruiz, MD1; Jackson Memorial Hospital/University of Miami1; VA Medical Center/ Jackson Memorial Hospital2

(SCA23) Peripheral Intravenous Analysis (PIVA) Correlates with Pulmonary Capillary Wedge Pressure
Irida Nikolla, MD1; Kelly Kohorst, MD1; Susan Eagle, MD1; Kyle Hocking, PhD1; Vanderbilt University1; Vanderbilt University Medical Center2

(SCA24) Spinal Cord Stimulation Reduces Ventricular Arrhythmogenicity During Myocardial Ischemia
Kimberly Howard-Quijano, MD MS1; Tatsuo Takamiya, MD1; Erica Dale, PhD1; Yukiko Kubo, MD1; Wei Zhou, PhD FAHA1; Jasmine Kipke, BS1; University of California Los Angeles1

(SCA25) Intralipid™ Perfusion Triggers Nitric Oxide Production in Rat-Isolated Hearts
Matthias Riess, MD PhD1; Hunter Douglas, BS1; Michele Salzman, BS1; Vanderbilt University Medical Center1; Vanderbilt University2

(SCA26) Accessing a Dormant Data Source: The Feasibility of Applying Waveform Analysis Techniques to Hard-Copy Images of Pressure Recordings to Assess Vascular-Visceral Coupling
Roy Kiberenge, MD1; Paul Heerdt, MD PhD FCCP1; Anirudh Kurup1; Manuel Fontes, MD1; Yale University1; Yale University School of Medicine2

(SCA27) Paralysis and Spinal Cord Edema in a Canine Model of Thoracoabdominal Aortic Aneurysm Repair
Hamedy Awad, MD1; Mohamed Ehab Ramadan, MBBC1; Tony Boulay, BS1; Hossam El Sayed; Hayam Hussein, MD1; Esmerina Tili, PhD1; The Ohio State University, Wexner Medical Center1; The Ohio State University2

(SCA28) Isoflurane Increases Myocardial Sympathoexcitation in a Porcine Model of Chronic Ischemia
Tiffany Williams, MD PhD1; Tatsuo Takamiya, MD1; Yukiko Kubo, MD1; Tien Luong, BS1; Jasmine Kipke, BS1; Kimberly-Howard-Quijano, MD MS1; Aman Mahajan, MD PhD1; University of California, Los Angeles1

(SCA29) Acute Onset Heart Failure From Postpartum Spontaneous Coronary Artery Dissection
Katrina McGuire, MD; The University of Arizona Health Network

(SCA30) Aortic Dissection in a Morbidly Obese Parturient
Ezekiel Taylor, DO1; Christopher Sharp, MD MS1; Jaya Ramanathan, MD1; Blas Catalan1; MD MPH1; Jill Cooley, MD1; LeBron Cooper, MD1; University of Tennessee Regional One Medical Center1; University of Tennessee Health Science Center – Memphis1

(SCA31) 4D Transesophageal Echocardiography Guidance for AngioVac Debunking of a Tricuspid Valve Vegetation
Adam Dalia, MD MBA1; Heidi Bas, MD1; Massachusetts General Hospital Harvard Medical School1

(SCA32) A Centrifugal Color Doppler Pattern in a Normally Functioning Third-Generation Continuous Flow HVAD
Ankit Jain, MD1; Brian Gebhardt, MD MPH1; Michael England, MD1; Fred Cobey, MD MPH FASE1; Augusta University1; Anesthesia Associates of New Mexico1; Tufts Medical Center2

(SCA33) Aortic Wall Hematoma Following TAVR Valve Deployment: What Now?
Adam Dalia, MD MBA1; Vipin Mehta, MD FFARCSI1; Massachusetts General Hospital Harvard Medical School1

(SCA34) Giant Aneurysm of the Left Main Coronary Artery
Pierre LeVern, MD1; Kristine Pearson-Chauhan, DO1; Mina Oftadeh, DO1; Michael Majewski, MD1; Jenny Kwak, MD1; Loyola University Medical Center1

(SCA35) Is Timing Everything? Right Heart Catheterization Prior to Pulmonary Thromboendarterectomy
Eva Litvak, MD1; Carolyn Mehaffey, MD1; Massachusetts General Hospital1

(SCA36) Late Right Ventricular Perforation by a Cardiac Implantable Electronic Device Lead
Richa Dhawan, MD; University of Chicago Medical Center

(SCA37) An Intraoperative Management of a Patient With Becker Cardiomyopathy
Sho Tanaka, MBBC BAO1; Sagar Mungekar, MD1; Brian Raffel, DO1; Bhoomesh Patel, MD1; Achillina Rianto, MD1; Amanda Zarchin, MD2; Rutgers Robert Wood Johnson University Hospital1; Rutgers Robert Wood Johnson Medical School2; Rutgers University3

(SCA38) Acquired Coron Triatriatum Dexter in an Adult Heart Transplant Patient
Penin Kathari, DO1; Shiva Sale, MD1; Cleveland Clinic1; Cleveland Clinic Foundation2

(SCA39) Type A Dissection Diagnosed by Transesophageal Echocardiography During Ascending Aortic TEVAR and Aortic Debranching
Timothy Sims, MD1; Marie-Louise Meng, MD1; New York Presbyterian-Columbia University1; Columbia University2
(SCA40) Cardiac R&R: Recovery From Postoperative Biventricular Cardiogenic Shock With a BIVAD Holiday
Amanda Zarchin, MD1; Brian Raffel, DO1; Sho Tanaka, MBChb BAO1; Bhunesh Patel, MD1; George Batsides, MD; Denes Papp, MD1; Rutgers Robert Wood Johnson Medical School1; Rutgers University2; Rutgers Robert Wood Johnson University Hospital3

(SCA41) Acute Opioid Withdrawal After Short-Term Remifentanil Infusion
Vikram Chawa, MD1; John D. Srinivasan, MD1; Saint Louis University1

(SCA42) Sepsis and Cardiopulmonary Bypass, Rare Complications of a Retained Guidewire
Jillian Dashiell, MD1; Elizabeth Wolo, MD2; University of Louisville1; Thomas Jefferson University Hospital1; Thomas Jefferson University2

(SCA43) Mitral Annular Calcification Causing Multiple Cerebral Infarctions
Tyson Vandagriff, MD1; Elizabeth Lee Herrera, MD2; University of Texas – Houston1; Houston Methodist Hospital2

(SCA44) Resolution of Paraplegia After Acute Type B Dissection With Physiologic Neuroprotective Measures
Dane Ingebritson, MD1; Martha Wynn, MD; University of Wisconsin1

(SCA45) Pectoral Nerve Fascial Plane Blocks as Rescue Analgesia for Minimally Invasive Cardiac Surgery
Suraj Yalamuri, MD1; Rebecca Klinger, MD MS1; W. Michael Bullock, MD PhD1; Donald Glower, MD1; Jeffrey Gadsden, MD FRCPC FANZCA1; Brandi Bottiger, MD2; Duke University Medical Center1; Duke University2

(SCA46) A Membrane Oxygenator Exceeded by a Patient’s Predicted Metabolism During Cardiopulmonary Bypass
Rebecca Lee, MD1; Michael Majewski, MD1; Pierre LeVan, MD1; Loyola University Medical Center1

(SCA47) Use of Cardiopulmonary Bypass to Stabilize a Patient With Suspected Malignant Hyperthermia
Matthew Barajas, MD1; Steve Miller, MD1; Yefim Vilnits, MD1; Columbia University1; Columbia University Medical Center1; New York Presbyterian Hospital/Columbia University Medical Center1

(SCA48) Pulmonary Artery Catheter Suture Entrapment During Cardiac Surgery
Gilbert Brown, MD1; Jiapeng Huang, MD PhD1; University of Louisville1; Jewish Hospital, University of Louisville2

(SCA49) Repair of Flail Anterior Leaflet in a Barlow Mitral Valve Using the American Correction
Elizabeth Lee Herrera, MD1; Gerald Lawrie, MD1; Houston Methodist Hospital1

(SCA50) Halt the Bleeding Before it Starts: Utility of Intraoperative Viscoelastic Testing to Preemptively Reduce Coagulopathic Bleeding Associated With Prolonged Cardiopulmonary Bypass
Reney Henderson, MD1; Britney Williams, MD1; Seema Deshpande, MD1; University of Maryland School of Medicine1; University of Maryland Baltimore1; University of Maryland Medical System1

(SCA51) Mobile Pedunculated Mass in Left Ventricular Apex—Thrombus or Tumor?
Manuel Castresana, MD1; Amjad Najim, MBChB1; Shvetank Agarwal, MD FASE1; Augusta University, Medical College of Georgia1; Augusta University Medical Center2

(SCA52) Iatrogenic Pneumothorax in Laparoscopic Donor Nephrectomy
Mirza Baig, MD1; Joseph Mueller, MD1; MedStar Georgetown University Hospital1

(SCA53) Management of Large Ventricular Pseudoaneurysm Following Bioprosthetic Mitral Valve Replacement
Michael Miller, MD1; Asish Das, MBBS MS MCh1; Oregon Health & Science University1

(SCA54) Echocardiographic Detection of Extrapulmonary Thrombi During Pulmonary Embolectomy
Wilbert Jones, MD1; Tina Law, DO1; Giuseppe Trunfio, MD1; Maimonides Medical Center1

(SCA55) Ventricular Perforation Following Open Surgical Balloon Expandable Mitral Valve Replacement
Yousef Hamdeh, DO1; Jordan Goldhammer, MD1; Thomas Jefferson University Hospital1; Sidney Kimmel Medical College at Thomas Jefferson University2

(SCA56) Anesthetic Management for Intratracheal Tumor Resection Using a Bronchial Blocker and High-Frequency Jet Ventilation
Kana Fukutoku, MD1; Katsuyuki Matsushima, MD PhD1; Makato Sumie, MD PhD1; Ryohei Miyazaki, MD PhD1; Tadashi Kandabashi; Yuji Karashima, MD PhD1; Sumio Hoka, MD1; Kyushu University Hospital1; Kyushu University2

(SCA57) Aortic Leaflet Perforation After Ablation Procedure
Jacqueline Cunningham, MD1; Ricardo Cardenas, MD1; Allegheny Health Network1

(SCA58) Intraoperative Preincisional TEE in Diagnosis of False Positive Acute Type A Aortic Dissection
Jacqueline Cunningham, MD1; Michael Dishart; Robert Moraca; Edward Golagorsky, MD FASE1; Allegheny Health Network1; Allegheny General Hospital1

(SCA59) Inability to Dialyze After Hydroxocobalamin for Vasoplegic Syndrome
John Hui, MD1; Erica Wittwer, MD PhD1; Mayo Clinic1

(SCA60) Anesthesia for LAMPOON Procedure: A Case Series
Ahmad Itani, DO1; Michael Isley, MD1; Jayakar Guruswamy, MD1; Henry Ford Hospital1

(SCA61) Echocardiography Guidance of Surgical Excision of an Intracardiac Pheochromocytoma
Dinesh Kurian, MD MBA1; Angela Li, MD1; Srikar Rao, MD1; Agathoklis Konstantinidis, MD2; Sanziana Roman, MD1; Miklos Kertai, MD PhD1; Duke University Medical Center1; Duke University Hospital1; Duke University2

(SCA62) Sweating Bullets: Managing a Missile Embolus
Eric Feduska, DO1; Adam Setren, MD2; Linda Sundt, MD2; Jordan Goldhammer, MD1; John Entwistle, MD PhD1; Thomas Jefferson University1; Thomas Jefferson University Hospital1; Sidney Kimmel Medical College at Thomas Jefferson University2

(SCA63) Transcatheter Aortic Valve Repair (TAVR) Using Continuous Arterial Waveform Analysis and Avoidance of Invasive Blood Pressure Monitoring: A Feasibility Study
Kevin Efros, MD1; Peter Neuburger, MD1; New York University School of Medicine1; New York University Langone Medical Center2
### Scientific Abstracts and Posters

#### SCA64) Large Mobile Thrombi Within the Descending Thoracic Aorta and a Novel Bioaortic Cannulation Technique for Cardiopulmonary Bypass

Jeongae Yoon, MD; Shonali Pawar, MD MPH; Yoshida Toyoda; Edlo Ginsburg, MD; Temple University Hospital; Temple University

#### SCA65) Tracheal Obstruction Upon One Lung Ventilation in Patient With Kommerell’s Diverticulum

Joe Chung, MD; Marua Zhao, MD; Cedars-Sinai Medical Center

#### SCA66) An Effective Team-Based Approach to Surgical and Anesthetic Care for Ghanaian Children with Congenital Heart Disease

Elliott Woodward, MD; Francis Fynn-Thompson, MD; Isaac Okyere, MD; VFACS; Vijin Mehta, MD FFARCSI; Sanjeev Singh, MD FA FCA; Beverly Small, RN CCRN; Christine Placid, BSN RN; Massachusetts General Hospital; Boston Children’s Hospital; Komfo Anokye Teaching Hospital; Kwarne Nkrumah University of Science and Technology

#### SCA67) Anesthetic Challenges of a Jehovah’s Witness With Pituitary Dwarfism for a Transcatheter Aortic Valve Implantation

Sara Reader, DO MS; University of Washington

#### SCA68) Coronary Vasospasm: A Rare Cause of Instability Following Cardiac Surgery

Yefim Vilnits, MD; David Kiamanesh, MD; New York Presbyterian Hospital/Columbia University Medical Center; Columbia University

#### SCA69) In Situ Bioprosthetic Valve Stent Expansion During Balloon Valvuloplasty: A Cause of Coronary Obstruction During Valve-in-Valve TAVR

Michael Hammer, DO; Brit Smith, MD; University of Florida

#### SCA70) Transcatheter Aortic Valve in a Patient With Severe Aortic Insufficiency and Near-Avulsed Aortic Valve Leaflets

David Brenneman, MD MBA; Yong Peng, MD FASE PhD; University of Florida

#### SCA71) Acute Periaortic Hematoma During Aortic Cannulation with Pulmonary Artery Compression: Clinical And Echocardiographic Implications

Alex Leone, MD; Perin Kothari, DO; Shiva Sale, MD; Cleveland Clinic Foundation; Cleveland Clinic

#### SCA72) Heparin-Induced Thrombocytopenia/Thrombosis With Bilateral Adrenal Hemorrhages and Acute Ischemic Stroke Following Aortic Valve Replacement

Jared Cummings, MD; Brian Gelfand, MD; Vanderbilt University Medical Center

#### SCA73) Primary Myocardial Intraventricular B-cell Lymphoma in an Immunocompetent Patient

Michelle Masnovi, MD; Matthew McConnell, MD; Allegheny General Hospital; Allegheny Health Network

#### SCA74) Monitored Anesthesia Care for the Acute Ischemic Stroke Patient With End-Stage Pulmonary Disease

Brian Lee, MD; New York Presbyterian Columbia

#### SCA75) Single-Center Case Series of Fenestrated Endovascular Repair of Complex Abdominal and Thoracoabdominal Aortic Aneurysms: Anesthetic Considerations and Lumbar Drain Management

Nathan Belt, MD; Elifce Cosar, MD; Andres Schanzer; University of Massachusetts; UMass Memorial Medical Center

#### SCA76) Post Bypass Acute Right Heart Failure Due to Iatrogenic Supravalvular Pulmonary Artery Stenosis

John Srinivasan, MD FRCA (UK); Vikram Chawa, MD; Saint Louis University

#### SCA77) Runaway Embolus: A Risk of Repair in Type A Aortic Dissection

Kevin Efros, MD; Peter Neuburger, MD; Marc Kanchuger, MD; Deane Smith, MD; New York University School of Medicine; New York University Langone Medical Center

#### SCA78) Neurological Recovery After 6 Hours of Cardiopulmonary Resuscitation Prior to ECMO Support

Matthew Dudley, MD; John Turnbull, MD; University of California San Francisco

#### SCA79) The Use of Single Site Bicaval Veno-Venous Extracorporeal Membrane Oxygenation to Facilitate Whole Lung Lavage for Pulmonary Alveolar Proteinosis

Matthew Schwartz, MD; Elizabeth Kent, MD; Ioanna Apostolidou, MD; University of Minnesota; University of Minnesota-Fairview

#### SCA80) Breathing Through a 2-mm Airway: Anesthetic Considerations for Metallic Tracheal Stent Removal

Arvind Rajagopal, MBBS; Raiyah Sheriffdeen, MD; Kristine Pearson-Chauhan, DO; Rush University Medical Center; Loyola University Medical Center

#### SCA81) Conus Medullaris Infarct Following Thoracic Endovascular Aortic Repair

Eric Leindecker, MD; Martha Wynn, MD; University of Wisconsin Hospital and Clinics; University of Wisconsin

#### SCA82) Transversus Thoracis Muscle Plane Block for Postoperative Pain Control Following Median Sternotomy

Matthew Ritter, MD; Allan Klompas, MB BCH; Mayo Clinic

#### SCA83) Mechanical Support With Tandem Heart During Combined TAVI and PCI

Megan Olejniczak, MD; Ioanna Apostolidou, MD; University of Minnesota Medical School; University of Minnesota-Fairview

#### SCA84) Mechanical Circulatory Support for Life-Threatened Familial Dilated Cardiomyopathy in Patient With Lymphoma

Nikola Bradic, MD; Davor Baric, MD PhD; Boris Starcevic, MD PhD; Andrej Sribar, MD; University Hospital Dubrava

#### SCA85) Association of Hemoglobin Level With Perioperative Outcomes in Pediatric Patients With Congenital Cyanotic Heart Disease Undergoing Surgical Correction

James Leonard, MD; Samir Kendale, MD; Jennie Ngai, MD; New York University Langone Medical Center

#### SCA86) Enhanced Recovery and Early Extubation After Pediatric Cardiac Surgery Using Single Dose Intravenous Methadone

John Iguidbashian; Bryan Maxwell, MD MPH; Peter Chang; Creighton University; Oregon Anesthesiology Group

#### SCA87) Minimalist Approach to Cardiac Anesthesia and Outcome in Patients Undergoing Transcatheter Aortic Valve Replacement

Marcus Burns, DNP; Lynelle Schneider; Andrew Wilkey, MD; Matthew Sundblad, MD; Ross Garberich, MS MBA; Robert Fairvar, MD PhD; Paul Sorajje, MD; Tjorvi Perry, MD MMSc; Minneapolis Heart Institute – Abbott Northwestern Hospital; Abbott Northwestern Hospital; American Anesthesiology of MN; Minneapolis Heart Institute Foundation

#### SCA88) Undiagnosed Congenital Tracheal Stenosis in Patients With Congenital Heart Disease

Emad Mossad, MD; Texas Children’s Hospital
(SCA89) Mortality After Cardiac Surgery Corresponded to Mortality of the General Population Indicates That 30-Day Mortality Is a Poor Quality Indicator
Carl-Johan Jakobsen, MD1; Laura Hansen, MD PhD2; Pia Ryhammer, MD1; Aarhus University Hospital3

(SCA90) A Survey of Current Anesthesia Trends for Electrophysiology Procedures
Eric Nelson, DO1; Samuel McLaurin, MD1; Erick Woltz, BS2; Michael Gold, MD PhD FHRS1; Medical University of South Carolina3

(SCA91) Anesthetic Management for Transcatheter Mitral Valve-in-Valve Implantation
Kaveh Marzban, MD1; Jayakar Guruswamy, MD2; Michael Isley, MD1; Henry Ford Hospital3

(SCA92) Single Center Experience of Anesthetic Management and Stroke Rates in Transcatheter Aortic Valve Replacements
Opal Raj, MD1; Sergey Gukasov, MD1; Timothy Heinke, MD2; Medical University of South Carolina3

(SCA93) Risk Factors for Periprocedural Transfusion in Transfemoral Transcatheter Aortic Valve Implantation (tf-TAVI)
Patrick Mayr, MD1; Gunther Wiesner, MD PhD2; Pieter van der Starre, MD PhD1; Oliver Husser; Sabine Bleiziffer; Herbert Schunkert; Rüdiger Lange; Peter Tassani-Peil; MD1; Klaus Martin, MD PhD1; Deutsches Herzzentrum Muenchen1; German Heart Center Munich2; Stanford University School of Medicine3

(SCA94) Examining Outcomes Following the Implementation of a Delirium Management Program Associated With Sedative and Antipsychotic Use in Critically Ill Patients After Cardiovascular Surgery
Amanda Daniels, BSP ACPR1; Meghan MacKenzie, PharmD1; Richard Hall, MD FCCP FRCPC2; Nelofar Kureshi, MBBS MH1; Michael Vician, MD EDIC3; Nova Scotia Health Authority1; Dalhousie University2; Dalhousie University/ QEHl Health Science3; Division of Cardiac Surgery Dalhousie University4

(SCA95) Benchmarking Clinical Productivity for Cardiovascular Non–Operating Room Anesthesia Cases
Max Breidstein; Jeremy Porter, MD1; Mitchell Tsai, MD MMM2; Robert Hieronimus; Alexia Mamaniades; Jacob Martin, MD1; University of Vermont1; University of Vermont College of Medicine2; University of Vermont Medical Center3

Joseph Wright, MD1; Davinder Ramsingh, MD1; Jason Gatling, MD2; Ryan Lauer, MD1; Loma Linda University Medical Center4

(SCA97) Effects of Intraoperative Four-Factor Prothrombin Complex Concentrate Use on Blood Utilization During Orthotopic Cardiac Transplantation
Visal Patel, MD MS1; Gina Sun, AB2; Gregory Couper, MD1; Michael Kieman, MD1; Stefan Ianchulev, MD1; David DeNofrio, MD1; Raymond Comenzo, MD1; Fred Cobey, MD MPH FASE1; Grace Kao, MD1; Tufts Medical Center1; Tufts University School of Medicine2

(SCA98) Blood Conservation Practice in Cardiac Surgery: A Pilot Study
Albert Tsai, MD1; Worasak Keeypaipai, MD2; Vivian Nguyen; Stanford University1; Stanford University School of Medicine2

(SCA99) A Retrospective Review of Aminocaproic Acid Usage in Coronary Artery Bypass Graft Surgery Patients
Corina Anderson, MD1; Elizabeth Thomas, MD2; University of Nebraska Medical Center1; University of Nebraska2

(SCA100) ABO Type, Platelet, and Plasma Transfusion During Adult Extracorporeal Membrane Oxygenation
Rishi Gupta, MD1; Michael Mazzetti, MD MPH3; Kenichi Tanaka, MD1; Zachary Kan, MD1; Terence Long, MD2; University of Maryland1; University of Maryland School of Medicine2; USAF School of Aerospace Medicine3

(SCA101) Baseline MA-FF, FLEV, and Fibrinogen Levels in Neonates, Infants, and Children with Congenital Heart Defects
Michelle DaCosta, MD1; Silvia Bunting, MD1; Nina Guzzetta, MD1; Bruce Miller, MD2; Thomas Austin, MD1; Emory University Hospital1; Children’s Healthcare of Atlanta2; Emory University School of Medicine1; Emory University1

(SCA102) Outcomes Following Three-Factor Nonactivated Prothrombin Complex Concentrate Versus Recombinant Activated Factor VII Administration During Cardiac Surgery
Patrick Harper, MD1; Mark Smith, MD2; David Barbara, MD1; Nathan Brinkman, PharmD1; Melissa Passey, RRT1; Darrell Schroeder, MS1; Sameh Said, MD1; Gregory Nuttall, MD1; William Oliver, MD1; Mayo Clinic1; Mayo Clinic College of Medicine and Science2

(SCA103) A Retrospective Assessment of TRACK Score Utilization in the Perioperative Period for Cardiac Surgery
Curleen Sidhu, MD1; Jonathan Leff, MD1; Singh Nair, PhD1; Stephanie Gilbert, BS1; Montefiore Medical Center1

(SCA104) Leveraging Existing Clinical and Administrative Databases for Population Healthcare in Cardiovascular Surgery: Combining the Society of Thoracic Surgeons National Database, Hospital Electronic Data Warehouse, and Business Intelligence Software to Drive Patient Care Quality Improvement Programs
Andrew Wilkey, MD1; Kattie Bear-Pfaffendorf, MBA CPHQ1; Craig Strauss, MD MPH1; Pam Rush, RN MS2; Robert Farivar, MD PhD1; Tjorvi Perry, MD MMSc1; Abbott Northwestern Hospital1; Allina Health2; Minneapolis Heart Institute3

(SCA105) Implementing Viscoelastic Coagulation Testing in Cardiac Surgical Patients: Observed vs. Expected Results of the Transfusion Risk Understanding Scoring Tool (TRUST)
Andrew Wilkey, MD1; Kattie Bear-Pfaffendorf, MBA CPHQ1; Craig Strauss, MD MPH1; Pam Rush, RN MS2; Robert Farivar, MD PhD1; Tjorvi Perry, MD MMSc1; Abbott Northwestern Hospital1; Allina Health2; Minneapolis Heart Institute3
(SCA106) Nonimmune Thrombocytopenia, Acquired Antithrombin Deficiency, and Acute Kidney Injury After Cardiac Surgery
Alena Radj, DO1; Amit Bardia, MBBSB; Qianqian Xu, MD, MD; Sophisa Sophonphattana, MD, PhD; Paul Heerdt, MD PhD FCCP1; Hossam Tantawy, MD, PhD; Miklos Kertai, MD PhD1; Feng Dai, PhD2; Manuel Fonts, MD, MD; Yale University School of Medicine1; Yale New Haven Hospital2; Yale University School of Medicine2; Icahn School of Medicine at Mount Sinai2; Stanford University Medical Center3; Fuwai Hospital, Chinese Academy of Medical Sciences1

(SCA107) Outcomes After Patient Blood Management in Patients Undergoing Coronary Bypass Graft Surgery—7 Years of Clinical Practices
Yongyuan Wang, BA1; Hongsuen Ji, MD1; Ruohua Yan, MM1; Xue Zhang, MM1; Fuwai Hospital, Chinese Academy of Medical Sciences1

(SCA108) Mortality Associated With Severe Anemia in Patients Refusing Blood Transfusion
Claudia Villalpando Leon, DO1; Nicole Guinn, MD2; Mary Cooter, MS2; Richard Weiskopf1; Duke University Medical Center1; Duke University Medical Center2

(SCA109) Effects of Clinically Relevant Protamine Levels on Thromboelastography (TEG) in Healthy Volunteers
Patrick Kinnaird, MD1; Adam Lerner, MD1; Collin Nabb, MD2; John Berry, MD3; Ariel Mueller, MA4; Beth Israel Deaconess Medical Center1; Harvard Medical School5; FirstHealth Moore Regional Hospital6

(SCA110) Antibody Mediated Reversal of Bivalirudin’s Anticoagulant Effect
Elliott Woodward, MD1; Michael D’Ambra, MD2; Jochen Muehlechlegel, MD MMSc3; Fumito Ichinose, MD PhD4; Trevor Smith, CCP5; Michael Andrews, MD2; Massachusetts General Hospital1; University of Maryland1; Brigham and Women’s Hospital2

(SCA111) Acute Normovolemic Hemodilution and Postoperative Outcomes in Cardiac Surgery
Nandini Palaniappa, MD1; Hung Mo Lin, ScD2; Muntazim Mukit, MD3; Nikhil Ravindran, MSc4; Gregory Fischer, MD1; Amanda Rhee, MD4; Mount Sinai Hospital1; Icahn School of Medicine at Mount Sinai2; Stony Brook University Hospital3; Mount Sinai Medical Center4; Memorial Sloan Kettering Cancer Center5

(SCA112) Factors Associated With Improved Quality of Hemostasis Following Adult Heart Transplantation
Diana DeAndrade, MD; Sofiane Lazai, MD; Stephen Esper, MD MBA; Luigi Laguzzi; Kathirvel Subramaniam, MD MPH; University of Pittsburgh Medical Center1; University of Pittsburgh2

(SCA113) Factors Associated With Increased Composite Morbidity Following Adult Orthotopic Heart Transplantation
Diana DeAndrade, MD; Sofiane Lazai, MD; Stephen Esper, MD MBA; Luigi Laguzzi; Kathirvel Subramaniam, MD MPH; University of Pittsburgh Medical Center1; University of Pittsburgh2

(SCA114) Pathogen-Reduced (PR) Cryoprecipitate Stored for 5 Days Postthaw: Apheresis Source Plasma Yields More Fibrinogen
Karen Giordano, MS MT(ASCP) SBB; Cerus Corporation

(SCA115) Withdrawn

(SCA116) Comparison of Venoarterial Extracorporeal Membrane Oxygenation and Cardiopulmonary Bypass in Patients Undergoing Double Lung Transplantation
Vladyslav Melnyk, MD1; Stephen Esper, MD MBA2; J. W. Awori Hayanga, MD MPH FRCS FACS1; Jonathan D’Cunha, MD PhD2; Norisha Shigemura, MD PhD2; Kathirvel Subramaniam, MD MPH1; University of Pittsburgh Medical Center1; University of Pittsburgh2

(SCA117) Tricuspid Valve Effective Regurgitant Orifice Area: A Comparison of Three-Dimensional Versus Two-Dimensional Echocardiographic Measurements
Julie Wyrobek, MD1; Sergey Karannov, MD1; Stanton Sherman, MD FAHA FASE1; John Fox, MD1; Brigham and Women’s Hospital1

(SCA118) Utility of Intraoperative 3D TEE for Diagnosing Mechanism of Mitral Valve (MV) Prosthetic Failure Immediately Postreplacement
Betty Hua, MD1; Jeremy Poppers, MD PhD2; Stony Brook University Hospital1; Stony Brook University Medical Center2

(SCA119) Axial Dynamism of Tricuspid Annulus: A Possible Metric of Valvular Remodeling
Ting Hai, MD1; Arash Khamooshian, MD2; Yannis Amador, MD3; Ziyad Knio, BS3; Jeliffe Jeganathan, MBBSB; Rabia Amir, MD4; Robina Matyal, MD4; Feroze Mahmood, MD FASE5; Kamal Khakbaz, MD6; Beth Israel Deaconess Medical Center1; University Medical Center Groningen7

(SCA120) Tricuspid Valve Anatomy: 2D versus 3D
Braden Duliong, MD FRCP1; Diem Tran, MD MSc1; Mark Hynes, MD1; University of Ottawa Heart Institute1

(SCA121) Assessment of Right Ventricular Systolic Function in Patients Undergoing Left Ventricular Assist Device Placement
Jason Johnson, MD; Mary Cooter, MS; Sharon McCartney, MD; Nazish Hashmi, MD; Mikhail Podgoretskii, MD FASE1; Madhav Swaminathan, MD FASE; Alina Nicoara, MD FASE1; Duke University Medical Center1; Duke University Hospital2

(SCA122) Effect of Ascending Aorta Shortening on Aorto-Mitral Obstructive Cardiomyopathy
Jacob Moreno Garito, MD MSc EDA1; Christiane Gruner; David Orlov, MD; Anthony Ralph Edwards, MD FRCS FACS1; Massimiliano Meineri, MD1; Toronto General Hospital1; University of Toronto2

(SCA123) Mitral Valve Reserve Function in Nonregurgitant Valves
Arash Khamooshian, MD1; Yannis Amador, MD2; Ting Hai, MD2; Elteazz Mahmoud, BA1; Jayant Jainandunsing, MD1; Kamal Khakbaz, MD2; Louis Chu, MD3; Robina Matyal, MD4; Feroze Mahmood, MD FASE5; University Medical Center Groningen1; Beth Israel Deaconess Medical Center2; Northwestern University3

(SCA124) Perioperative Use of Focused Cardiac Ultrasound: A Survey of Practice and Opinion
Frederick Conlin, MD1; Patrick Broderick, DO1; Adam Adler, MD MS FAAP; Neil Connelly; Michael Eaton, MD; Jennifer Friderici, Baystate Medical Center1; Texas Children’s Hospital1; University of Rochester2

(SCA125) Advanced Age Attenuates Left Ventricular Filling Efficiency Quantified Using Vortex Formation Time in Patients Undergoing Coronary Artery Surgery
Paul Pagel, MD PhD FACC FASE FESC1; Diana Khatib, MD1; Dominik Steck, MD2; Christine Choi, MD1; Julie Freed, MD PhD2; Brent Boettcher, DO1; Clement J. Zabolocki VA Medical Center1; Medical College of Wisconsin2

(SCA126) Anterior Mitral Leaflet Windsock Lesion
Mindy Juan, MD1; Christopher McQuitty, MD1; Alexis McQuitty, MD; Patrick Roughneen; University of Texas Medical Branch1

(SCA127) Preprocedure Diastolic Dysfunction Assessed by E/e’ A Comparison of Three-Dimensional Versus Two-Dimensional Echocardiographic Measurements
Julie Wyrobek, MD1; Sergey Karannov, MD1; Stanton Sherman, MD FAHA FASE1; John Fox, MD1; Brigham and Women’s Hospital1

(SCA128) Anterior Mitral Leaflet Windsock Lesion
Mindy Juan, MD1; Christopher McQuitty, MD1; Alexis McQuitty, MD; Patrick Roughneen; University of Texas Medical Branch1

(SCA129) Preprocedure Diastolic Dysfunction Assessed by E/e’ A Comparison of Three-Dimensional Versus Two-Dimensional Echocardiographic Measurements
Julie Wyrobek, MD1; Sergey Karannov, MD1; Stanton Sherman, MD FAHA FASE1; John Fox, MD1; Brigham and Women’s Hospital1

(SCA130) Utility of Intraoperative 3D TEE for Diagnosing Mechanism of Mitral Valve (MV) Prosthetic Failure Immediately Postreplacement
Betty Hua, MD1; Jeremy Poppers, MD PhD2; Stony Brook University Hospital1; Stony Brook University Medical Center2

(SCA131) Axial Dynamism of Tricuspid Annulus: A Possible Metric of Valvular Remodeling
Ting Hai, MD1; Arash Khamooshian, MD2; Yannis Amador, MD1; Ziyad Knio, BS3; Jeliffe Jeganathan, MBBSB; Rabia Amir, MD4; Robina Matyal, MD4; Feroze Mahmood, MD FASE5; Kamal Khakbaz, MD6; Beth Israel Deaconess Medical Center1; University Medical Center Groningen7

(SCA132) Tricuspid Valve Anatomy: 2D versus 3D
Braden Duliong, MD FRCP1; Diem Tran, MD MSc1; Mark Hynes, MD1; University of Ottawa Heart Institute1

(SCA133) Assessment of Right Ventricular Systolic Function in Patients Undergoing Left Ventricular Assist Device Placement
Jason Johnson, MD; Mary Cooter, MS; Sharon McCartney, MD; Nazish Hashmi, MD; Mikhail Podgoretskii, MD FASE1; Madhav Swaminathan, MD FASE; Alina Nicoara, MD FASE1; Duke University Medical Center1; Duke University Hospital2

(SCA134) Perioperative Use of Focused Cardiac Ultrasound: A Survey of Practice and Opinion
Frederick Conlin, MD1; Patrick Broderick, DO1; Adam Adler, MD MS FAAP; Neil Connelly; Michael Eaton, MD; Jennifer Friderici, Baystate Medical Center1; Texas Children’s Hospital1; University of Rochester2

(SCA135) Advanced Age Attenuates Left Ventricular Filling Efficiency Quantified Using Vortex Formation Time in Patients Undergoing Coronary Artery Surgery
Paul Pagel, MD PhD FACC FASE FESC1; Diana Khatib, MD1; Dominik Steck, MD2; Christine Choi, MD1; Julie Freed, MD PhD2; Brent Boettcher, DO1; Clement J. Zabolocki VA Medical Center1; Medical College of Wisconsin2

(SCA136) Anterior Mitral Leaflet Windsock Lesion
Mindy Juan, MD1; Christopher McQuitty, MD1; Alexis McQuitty, MD; Patrick Roughneen; University of Texas Medical Branch1

(SCA137) Preprocedure Diastolic Dysfunction Assessed by E/e’ A Comparison of Three-Dimensional Versus Two-Dimensional Echocardiographic Measurements
Julie Wyrobek, MD1; Sergey Karannov, MD1; Stanton Sherman, MD FAHA FASE1; John Fox, MD1; Brigham and Women’s Hospital1

(SCA138) Utility of Intraoperative 3D TEE for Diagnosing Mechanism of Mitral Valve (MV) Prosthetic Failure Immediately Postreplacement
Betty Hua, MD1; Jeremy Poppers, MD PhD2; Stony Brook University Hospital1; Stony Brook University Medical Center2

(SCA139) Axial Dynamism of Tricuspid Annulus: A Possible Metric of Valvular Remodeling
Ting Hai, MD1; Arash Khamooshian, MD2; Yannis Amador, MD1; Ziyad Knio, BS3; Jeliffe Jeganathan, MBBSB; Rabia Amir, MD4; Robina Matyal, MD4; Feroze Mahmood, MD FASE5; Kamal Khakbaz, MD6; Beth Israel Deaconess Medical Center1; University Medical Center Groningen7

(SCA140) Tricuspid Valve Anatomy: 2D versus 3D
Braden Duliong, MD FRCP1; Diem Tran, MD MSc1; Mark Hynes, MD1; University of Ottawa Heart Institute1
(SCA138) Left Atrial Volume Index and 1-Year Mortality Posttranscatheter Aortic Valve Replacement

Benjamin Rohrer, MD1; Jeffery Lyvers, MD1; Brian Spoelhof, PharmD, BCPS1; Nelson Burbano, MD2; Fred Cobey, MD MPH FASE1; Tufts Medical Center1; Lahey Hospital and Medical Center1; Boston Children’s Hospital1

(SCA129) REMote SOLUTIONS for Telementing Pocus-Echocardiography: The RESOLVE Study

Eugene Choo, MD1; Benjamin Sohmer, MD1; Robert Chen, MD FRCPC1; University of Ottawa Heart Institute1

(SCA130) Echocardiography Measurements of Right Ventricular Function as Predictors of Postoperative Supraventricular Arrhythmias After Thoracic Surgery

Kimberly Hollander, MD1; Rabia Amir, MD1; Ariel Mueller, MA1; Robina Matyal, MD1; Beth Israel Deaconess Medical Center1

(SCA131) Assessment of Tricuspid Anular Motion by Speckle Tracking in Anesthetized Patients Using Transesophageal Echocardiography

Tao Shin, MBBS1; Michael Andrawes, MD1; Michael Picard, MD FASE1; Lanqi Huang, MD RDCS FASE1; Massachusetts General Hospital1

(SCA132) Left Ventricular Hypertrophy and 1-Year Survival Posttranscatheter Aortic Valve Replacement

Andre Gosling, MD1; Jeffery Lyvers, MD1; Benjamin Rohrer, MD1; John Augustides, MD1; Pacific FASE FAHA1; Nelson Burbano, MD2; Fred Cobey, MD MPH FASE1; Eric Ursprung, MD1; Tufts Medical Center1; University of Pennsylvania1; Boston Children’s Hospital1

(SCA133) Tissue Doppler (E/E) Is Not Associated With Pulmonary Capillary Wedge Pressure in Patients With Severe Aortic Stenosis

Yoko Kagamoto, MD1; Jeffery Lyvers, MD1; Ingrid Moreno-Duarte, MD1; Nelson Burbano, MD1; Ravi Joshi, MD2; Ayan Patel, MD FACC FAHA1; Natesa Pandian, MD FACC1; Fred Cobey, MD MPH FASE1; Eric Ursprung, MD1; Tufts Medical Center1; Boston Children’s Hospital1; University of Texas Southwestern Medical Center1

(SCA134) Assessment of Myocardial Mechanical Response to Sevoflurane in Healthy Human Subjects by Two-Dimensional Speckle Tracking Echocardiography

Farzad Ebrahimi, MD1; David Kohanchi, MD1; Advocate Illinois Masonic Medical Center1

(SCA135) Novel Method of Measuring Tricuspid Anulus Plane Systolic Excursion by Transesophageal Echocardiography

Nawar Al-Rawas, MD1; Matthew Bean, DO1; Muath Bishawi, MD MPH1; Madhav Swaminathan, MD FASE1; Alina Nicoara, MD FASE1; Duke University Hospital1; Duke University School of Medicine2; Duke University Hospital3; Tufts Medical Center1; University of Ottawa Heart Institute1

(SCA136) Global Longitudinal Strain as a Predictor of Left Ventricular Dysfunction in the Early Postoperative Period

Eun Eoh, MD1; Ryan Konoske, MD1; Cory Maxwell, MD2; Wenjing Qi, PhD2; Attilo Barbieto, MD1; Duke University Medical Center1; Duke University2

(SCA137) Preoperative Echocardiographic Grade of Tricuspid Regurgitation Indicates Greater Severity Than Intraoperative Grade and Is Associated With Long-Term Postoperative Mortality

Huan Wang, MD1; Chuan-Chin Huang, ScD1; Jamahal Luxford, MBBS FANZCA1; Carolyn Butler, MD1; John Fox, MD1; Stanton K. Sherman, MD FASE FAHA FASE1; Jochen Muehlschlegel, MD MMSc1; Brigham and Women’s Hospital1; St. Vincent’s Melbourne1; Boston Children’s Hospital1


Raj Modak, MD1; Farzad Ebrahimi, MD1; Henry Ford Hospital1; Advocate Illinois Masonic Medical Center2

(SCA139) Perioperative Ultrasound: Teaching the Trainers

Yannis Amador, MD1; Ting Hai, MD1; Arash Khamooshian, MD1; Kellie Jeganathan, MBBS1; Stephanie Jones, MD1; Achikam Oren-Grinberg, MD1; Ruma Bose, MD1; Feroze Mahmood, MD FASE1; Robina Matyal, MD1; Beth Israel Deaconess Medical Center1; University Medical Center Groningen2

(SCA140) TEE Skill Acquisition Trajectories Among Cardiothoracic Anesthesiology Fellows

Phillip Geiger, MD1; Benjamin Andrew, BS RD2; Ashley Grantham, PhD2; Yi-Ju Li, PhD3; Brandi Bottger, MD3; Alina Nicoara, MD FASE3; Anne Cherry, MD3; Duke University Hospital1; Duke University School of Medicine3; Duke University4; Duke University Medical Center4

(SCA141) Assessment of Perioperative Right Ventricular TAPSE in Cardiac Surgery: A Prospective Observational Study

Roupen Hatzakorjian, MD1; Valerie Villemure, MD1; Sarah McDonald, MD3; Albert Moore, MD1; Thomas Schricker, MD1; Takumi Codere Maruyama, MD MS4; McGill University Health Center1; McGill University2

(SCA142) Case Report: Anesthetic Management for Repair of a Chronic Type-A Aortic Dissection and Subsequent Biventricular Assist Device Placement

David Langdon, MD1; Hao Pan; Chad Stasik, MD1; University of Texas Health Science Center1

(SCA143) Intraoperative Right Ventricular Strain Changes Following Single and Double Lung Transplantation

Alexander Cheng, MD1; Kimberly Howard-Quijano, MD MS2; Jennifer Scovotti, MA3; Einat Mazor, BA RDQS; Tristan Grogan, MS3; Jacques Neelankavil, MD1; UCLA Medical Center1; University of California Los Angeles2

(SCA144) Intraoperative Pericardiotomy Does Not Consistently Reduce Right Ventricular Function

Daniel Wyler, MD1; Andra Duncan, MD MS2; Cleveland Clinic Foundation1; Cleveland Clinic2

(SCA145) Epicardial Echocardiography to Assess Heart Function During Ex-Vivo Perfusion Using a Standard Transesophageal Probe: Feasibility and Setup

Giulia Maria Ruggeri, MD1; Azad Mashari, MD FRCP1; Joshua Qua Hiansen, MSc1; Roberto Ribeiro, MD1; Mitsesh Badiwala, MD PhD FRCSC1; Massimiliano Meineri, MD1; University of Toronto1; Toronto General Hospital2; University Health Network3

(SCA146) Randomized Control Trial Comparing Routine Intraoperative Transesophageal Echocardiography During Radical Cystectomy to Standard of Care

Richa Dhawan, MD1; Mark Chaney, MD2; University of Chicago Medical Center1; University of Chicago2

(SCA147) Low-Cost 3D Printed Ballistic Gel Heart Phantom to Train in Transesophageal Echocardiography

Giulia Maria Ruggeri, MD1; Azad Mashari, MD FRCP1; Joshua Qua Hiansen, MSc1; Massimiliano Meineri, MD1; University of Toronto1; Toronto General Hospital2
Scientific Abstracts and Posters

(SCA148) Determining Incidence of Clinically Evident Right Ventricular Strain During Routine Cesarean Section
Abirami Kumaresan, MD¹; Phillip Hess, MD²; Alex Shapeton; Hongmei Yuan, MD¹; Beth Israel Deaconess Medical Center¹; Nanjing Gynecology and Obstetrics Hospital²

(SCA149) Development of a Rescue Echo Protocol for Noncardiac Surgery Patients
Genevieve Staudt, MD¹; Ken Shelton, MD²; Massachusetts General Hospital¹

(SCA150) Effects of Metabolic Syndrome with Hypertriglyceridemia on Outcomes in Chinese Patients Undergoing Coronary Artery Bypass Grafting
Mingya Wang, MD candidate; Fuwai Hospital, Chinese Academy of Medical Sciences

(SCA151) Withdrawn

(SCA152) Effect of Intraoperative Dexmedetomidine on Lung Protection Following Thoracic Aorta Surgery With Hypothermic Circulatory Arrest
Soo Jung Park, MD¹; Sang Beom Nam, MD²; Yon Hee Shim, MD PhD¹; Young Song, MD¹; Yonsei University College of Medicine¹; Gangnam Severance Hospital²

(SCA153) Effects of 6% Hydroxyethyl Starch 130/0.4 on Postoperative Blood Loss and Kidney Injury in Patients Undergoing Off-Pump Coronary Arterial Bypass Grafting
Jiyeon Park, MD¹; Wongook Wi, MD¹; Jeong Jin Min, MD¹; Jonghwan Lee, MD PhD²; Samsung Seoul Hospital¹; Samsung Medical Center²

(SCA154) Comparison of Desflurane Versus Propofol for Arterial Oxygenation During One-Lung Ventilation
Sanghwan Ji, MD¹; Youn Jung Cho, MD¹; Tae Kyong Kim, MD¹; Jeong-Hwa Seo, MD¹; Jae-Hyeon Bok, MD²; Yuseok Jeon, MD¹; Seoul National University Hospital¹; Seoul National University²

(SCA155) Use of Three-Dimensional Printing to Create Patient-Specific Thoracic Spine Models as Task Trainers
Jelliffe Jeganathan, MBBS¹; Yanick Baribeau¹; Jeffrey Bortman, BS¹; Feroze Mahmood, MD FASE¹; Marc Shnider, MD; Muneeb Ahmed, MD FSIR¹; Azad Meshari, MD FRCP©; Rabia Amir, MD; Yannis Amador, MD; Robina Matyal, MD; Beth Israel Deaconess Medical Center¹; University of Toronto²

(SCA156) Use of a Standard Evidence-Based Ventilation Protocol Reduces the Incidence of Pulmonary Complications in Minimally Invasive Esophagectomies
William Buhrman, MD¹; Richard Pollard, MD¹; Patrick Lorimer, MD²; Jonathan Solo, MD¹; Mark Reames, MD¹; Carolinas Medical Center¹

(SCA157) The Association of Double-Lumen Endotracheal Tube Size With Laryngeal Injury and Early Dysphagia After Lung Transplantation
Mona Rudnick, MD¹; Yasmin Maisonave, MD²; Mark Stafford-Smith, MD CM FRCP FASE²; Seth Cohen, MD MPH; Matthew Hartwig, MD; Rebecca Klinger, MD MS; Wenjing Qi, PhD; Duke University Hospital¹; Duke University Medical Center¹; Duke University²
Scientific Abstracts and Posters

Scientific Program Poster Presentations: Session 3 (Non-CME)
Perioperative Medicine, Quality Improvement

Tuesday, April 25, Noon–1 pm

(SCA158) Pulmonary Artery Pulsatility Index in the Intensive Care Unit is Associated with Duration of Inotropic Therapy After Heart Transplant
George Plummer, AB1; Michael Gudejko, BS2; Brian Gebhardt, MD MPH3; Michael Kiernan, MD3; Gregory Couper, MD; Adel Ghuilom, MD; Navin Kapur, MD3; Fred Cobey, MD MPH FASE3; Tufts University School of Medicine; Tufts Medical Center; Anesthesia Associates of New Mexico

(SCA159) Incidence and Impact of Chronic Postthoracotomy Pain in Patients Following Trans-Apical Transcatheter Aortic Valve Replacement
Brian Gebhardt, MD MPH1; Sarah Basaham, MD2; Ankit Jain, MD2; Stefan Ianchulev, MD2; Andrea Tsai, MD2; Stephanie Cintora, MD2; Fred Cobey, MD MPH FASE2; Anesthesia Associates of New Mexico; Tufts Medical Center; Augusta University; UMass Memorial

(SCA160) Leave the Tricuspid Valve Alone During Double Lung Transplantation
Joseph Sanders, MD1; Carlos Guerra Londono, MD1; Hassan Neme, MD1; Andrew Taylor, MA1; Henry Ford Hospital; Henry Ford Health System

(SCA161) A Risk Scoring System for Predicting 30-Day Mortality After Cardiac Surgery Among Southeast Asians
Lawrence Siu-Chun Law, MD1; Risha Ayuningtyas, MD2; Weiling Liu, BSc2; Sophia Tsong Hue Chew, MBBS, MMED, FANZCA; Lian Kah Ti, MBBS2; National University Hospital; National University Health System; Singapore General Hospital

(SCA162) Cardiac Surgery Without Paralysis: Postoperative Pulmonary Benefits?
Rebecca Gerlach, MD FRCP1; Mark Chaney, MD1; Sojid Shahul, MD2; Takeyoshi Ota, MD PhD3; Valluvan Jeevanandam, MD1; Elizabeth Cotter, MD2; Blake Perkins, MD1; University of Chicago; University of Chicago Hospitals; University of Chicago Medicine

(SCA163) Preventing Postoperative Atrial Fibrillation With Beta-Blockade: Is Timing Important?
Nathan Waldron, MD MHSc1; Mary Cooter, MS2; Rebecca Klinger, MD MS1; Quintin Quinones, MD PhD2; Miklos Kertai, MD PhD1; Mihai Podgoreanu, MD FASE2; Mark Newman, MD1; Jonathan Piccini; Joseph Mathew, MD1; Duke University Medical Center; Duke University

(SCA164) Elevated Preoperative HBA1C Is Associated With Increased Risk of Postoperative AKI and Wound Site Infection
Ming Ann Sim, MBBS1; Weiling Liu, BSc2; Lian Kah Ti, MBBS2; Sophia Tsong Hue Chew, MD2; National University Hospital; National University Health System

(SCA165) Regional Cerebral Oxygen Saturation Level Predicts 30-Day Mortality Rate in Left Ventricular Assist Device Surgery
James Chen, MD MBA1; Jiapeng Huang, MD PhD2; University of Louisville; Jewish Hospital; University of Louisville

(SCA166) Current Status of Cardiovascular Anesthesia in China
Chris Ethridge, MD1; Jiapeng Huang, MD PhD2; University of Louisville; Jewish Hospital; University of Louisville

Jamie Privratsky, MD PhD1; Carol Haynes, AB1; Yi Ju Li, PhD2; Mihai Podgoreanu, MD, FASE; Swati Shah, MD3; Mark Stafford-Smith, MD CM FRCPC FASE2; Miklos Kertai, MD PhD1; Joseph Mathew, MD1; Duke University Medical Center; Duke University

(SCA168) Optimal Heparin Anticoagulation Monitoring in Adult VA ECMO
Michael Mazzeffi, MD MPH1; Allison Hollis, PharmD2; Nicole Tobin, CRNP2; Colleen Dugan; Matthew Spencer, PA-C2; Zachary Kon, MD1; Daniel Herr, MD1; University of Maryland1; University of Maryland Medical Center2; University of Maryland School of Medicine3

(SCA169) Association Between Packed Red Blood Cell Transfusion and Acute Kidney Injury After Transcatheter Aortic Valve Replacement
Akeel Merchant, MD1; Javier Neyra, MD MS2; Abu Minhaduddin, PhD1; Lauren Wehmann, BS1; Richard Mills, MD1; Sarah Gualano, MD1; Dharam Kumbhani, MD SM MRCP FACC FAHA FSCAI1; Lynn Huffman, MD1; Michael Jessen, MD1; Amanda Fox, MD MPH1; University of Texas Southwestern Medical Center1; University of Kentucky Medical Center2; University of Texas Southwestern3

(SCA170) Cardiopulmonary Stability of Patients Undergoing Transcatheter Aortic Valve Replacement Is Not Improved During General Anesthesia Compared to Sedation
Michael Fabbro, DO1; Abdulla Damluli, MD MPH FACC2; Maurice Cohen; Richard Epstein; University of Miami1; Johns Hopkins University2

(SCA171) Urgent and Emergent Noncardiac Intervention Following Open Cardiac Surgery
Emily Mackay, DO1; Mark D. Neuman, MD2; Michael Stubna, PhD2; Nimesh D. Desai, MD1; Peter W. Groeneveld, MD MS; Stuart Weiss, MD PhD1; Hospital of the University of Pennsylvania1; University of Pennsylvania1; Mountain Track Apps, LLC

(SCA172) Renal Resistive Index Prior to Cardiopulmonary Bypass in Patients with Varying Degrees of Aortic Insufficiency
Benjamin Andrew, BS RD1; Anne Cherry, MD1; Jennifer Hauck, MD1; Ryan Koneskie, MD1; Cory Maxwell, MD1; Alina Nicoara, MD FASE1; Mark Stafford-Smith, MD CM FRCPC FASE1; Duke University School of Medicine1; Duke University Medical Center; Duke Department of Anesthesiology; Duke University

(SCA173) Postoperative Delirium and 6-Year Cognitive Decline
Robert Sickeler, MD1; Maura Grega, RN MSN CCRP2; Rebecca Gottesman, MD PhD; Charles Brown, MD1; Johns Hopkins Medical Institute1; Johns Hopkins University2; Johns Hopkins University School of Medicine3

(SCA174) Withdrawn

(SCA175) The Effect of Neuromuscular Blockade Reversal on the Incidence of Atrial Fibrillation Post Cardiac Surgery
Bhoumesh Patel, MD1; Brian Raffel, DO2; Antonio Chiricolo, MD1; Leonard Lee, MD1; Rutgers Robert Wood Johnson Medical School2; Rutgers University2
Scientific Abstracts and Posters

(SCA176) Assessing Postthoracotomy Pain After Lung Transplantation: Preliminary Results Using an Electronic Pain Assessment Tool
Claire Cunniff, MD1; Rebecca Klinger, MD MS2; Thomas Hopkins, MD1; Mary Cooter, MS1; Alice Gray, MD1; Krista Ingle, PhD2; Matthew Hartwig, MD2; John Haney, MD2; Brandi Bottiger, MD3; Duke University Hospital4; Duke University Medical Center4; Duke University5

(SCA177) The Correlation Between the Change in Thoracic Fluid Content and the Change in Patient Body Weight in Fontan Procedure
Bonni Shin, MD; Konkuk University Medical Center

(SCA178) A Phenome-Whole Scan Detects Pleiotropic Effect of LY96 on New-Onset Atrial Fibrillation and Diabetes After Coronary Artery Bypass Grafting Surgery
Miklos Kertai, MD PhD1; Yi-Ju Li, PhD1; Roy Huang, BS2; Wenjing Qi, PhD2; Mihai Podgoreanu, MD FASE3; Duke University Medical Center1; University of North Carolina2; Duke University3

(SCA179) Cardiac Stress Tests Ordered by the Perioperative Physician: Are We Doing It Correctly?
Adam Weinstein, MD1; Angela Bader, MD MPH1; David Hepner, MD MPH1; John Fox, MD2; Brigham and Women’s Hospital1

(SCA180) Perioperative Management and Outcome of Left Ventricular Free Wall Rupture in a Japanese Tertiary Care Hospital: A Retrospective Observational Study
Keiko Kawai, MD1; Motoko Kimura, MD1; Kurashiki Central Hospital1

(SCA181) Acute Kidney Injury After Lung Transplantation
William Edwards, MD1; Elian Gabel, MD1; Tristan Grogan, MS1; Emily Methangkool, MD1; Vadam Gudzenko, MD; University of California, Los Angeles1

(SCA182) The Relationship Between ScVO2 and SvO2 Differs Between the INVOS® and the ForeSight Elite® Cerebral Oximeter
Matthias Heringlake, MD1; Christian Schmidt, MD2; Patrick Kellner, MD2; Astrid Ellen Berggreen, MD1; Holger Maurer, MD1; Sebastian Brandt, MD1; Efstratios I. Charitos, MD PhD1; Michael Petersen, MD; University of Luebeck1; UKSH Campus Luebeck1; University Medical Center Schleswig-Holstein1; University Hospital Schleswig-Holstein; University of Halle (Saale)1

(SCA183) Pulsatil Portal Flow and Acute Kidney Injury After Cardiac Surgery
William Beaubien-Souligny, MD1; André Denault, MD PhD FASE1; Roberto Eliaiek; Josie Bouchard, MD2; Alexandros Yiorgos Cavayas, MD1; Élise Rodrigue, MD FRCPC1; Annik Fortier, MSc1; Montreal Heart Institute1; Hôpital Sacré-Cœur de Montréal1; CIUSSS-MCQ CHAUR2; Montreal Health Innovations Coordinating Center1

(SCA184) Serratus Plane Block for Postoperative Analgesia in Patients Undergoing Robotic Mitral Valve Repair: A Feasibility Study
Saad Rasheed, MD1; Jennie Ngai, MD1; Robert Namipaparampil, MD2; Peter Neuburger, MD1; New York University1; New York University Langone Medical Center1; New York University Medical Center1

(SCA185) The Effect of Intraoperative Remifentanil Infusion on Glycemic Response in Patients Undergoing Cardiac Surgery with Cardiopulmonary Bypass: An Open Label, Prospective and Randomized Clinical Trial
Kathirvel Subramaniam, MD MPH1; Amy Monroe, BS1; Stephen Esper, MD MBA1; Michael Boisen, MD1; Theresa Gelzinis, MD1; John Caldwell; Erin Sullivan, MD1; Heather Hayanga, MD MPH1; Jose Marquez, MD1; University of Pittsburgh1; University of Pittsburgh Medical Center2

(SCA186) Performance of the EuroSCORE II as Mortality Predictor in a Cohort of Patients Undergoing Cardiac Surgery at a Cardiovascular Surgical Center in Colombia
Jorge Alberto Castro Perez, MD1; Federico Jimenez-Ruiz, MD2; Nathalia Gonzalez, MD1; Clinica Cardiovascular Santamaria1

(SCA187) Comparison of Results Between Strategies of Fast Track Versus Conventional Exubtation After Cardiac Surgery in Adult Patients at a Cardiovascular Center in Colombia: Cross-Sectional Study
Adriana Guerrero, MD1; Jorge Alberto Castro Perez, MD2; Nathalia Gonzalez, MD1; Pontificia Bolivariana University1; Clinica Cardiovascular Santamaria2

(SCA188) Preoperative Risk Score for Postoperative Atrial Fibrillation Following Cardiac Surgery
Shyamal Asher, MD1; Simon Body, MD1; Jochen Muehschlegel, MD MMSc1; Prem Shekar, MD2; Tsuyoshi Kaneko, MD1; Jordan Bloom, MD2; Gregory Malzberg, BA1; Siobhan McGurk, BS1; Barbara Oxley, RN MS1; Thoralf Sundt, MD2; Mauricio Villavicencio-Theoduluz; Brigham and Women’s Hospital1; Massachusetts General Hospital2

(SCA189) Antifibrinolytic Choice and Atrial Fibrillation After Cardiac Surgery
Nathan Waldron, MD MHSc1; Simon Cooter, MS2; Miklos Kertai, MD PhD3; Mihai Podgoreanu, MD FASE2; Mark Newman, MD1; Joseph Mathew, MD1; Rebecca Klinger, MD MS1; Duke University Medical Center1; Duke University2

(SCA190) ECMO Survival in Single Urban Center
Dustin Cooperman, MD1; Galina Levyi, MD2; William Jakobleff; Joseph Schwartz, MD1; Montefiore Medical Center1

(SCA191) Blood Transfusion is Associated With Acute Kidney Injury After Cardiac Surgery in Patients With Preoperative Anemia But Not In Patients With Intraoperative Anemia
Lian Ti, MBBS1; Jaying Goh; Dayna Yong2; Weiling Liu, BSc1; Sophia Tsong Huey Chew, MD1; National University Health System1; National University of Singapore2; National University Hospital3

(SCA192) Does the Preoperative Transthoracic or Transesophageal Echocardiogram Better Predict Mortality After Nonmitral Valve Cardiac Surgery?
Shyamal Asher, MD1; Simon Body, MD1; Jochen Muehschlegel, MD MMSc1; Stanton Sherman, MD FAHA FASE1; Prem Shekar, MD1; Tsuyoshi Kaneko, MD1; Chuan-Chin Huang, ScD1; Gregory Malzberg, BA1; Carolyn Butler, MD3; Jamalal Luxford, MBBS FANZCA1; Brigham and Women’s Hospital1; Boston Children’s Hospital1; St. Vincent’s Melbourne3

Mihai Podgoreanu, MD FASE1; Alaksei Pustavoitau, MD MHSc5; Natalia Mitin; Vichaslai Baradka; Mark Stafford-Smith, MD CM FRCPC FASE1; Madhav Swaminathan, MD FASE1; Joseph Mathew, MD2; Dan Berkowitz, MD2; Duke University2; Johns Hopkins University School of Medicine2; Duke University Medical Center1; Johns Hopkins Medicine1

(SCA194) Development of an Observed Structured Clinical Exam (OSCE) for Perioperative Ultrasound for Anesthesiology Residents: An Initiative
Rabia Amir, MD1; John Mitchell, MD1; Stephanie Jones, MD1; Ferose Mahmood, MD FASE1; Mario Montalegre-Gallegos, MD1; Ruma Bose, MD1; Vanessa Wong, BS1; Azad Mashari, MD FRCPC2; Jeliffie Jeganathan, MBBS1; Ziyad Knio, BS1; Robina Matyal, MD1; Beth Israel Deaconess Medical Center1; University of Toronto2
(SCA195) Perioperative Glucose Management During Cardiac Surgery to Reduce Postoperative Complications
Linda Shore-Lesserson, MD FAHA FASE1; Mengxi J, BS1; Elena Thompson, BA1; Matthew Palma, MD2; Oonagh Dowling, PhD3; Hofstra Northwell School of Medicine1; Northwell Health2

(SCA196) Effect of DDAVP on Creatinine Level and Renal Failure
Sachin Bahadur, MD1; John Blackburn, MD2; Vikas Kumar, MD3; Manuel Castrensa, MD4; Augusta University4; University of Oklahoma Health Sciences Center5; Medical College of Georgia6

(SCA197) Hospital Readmissions After Left Ventricular Assist Device (LVAD) Placement: A National Readmissions Database Study
Shahzad Shaefi, MD1; Atul Gupta, MBBS2; Mohammed Minhas, MD MBA3; Ariel Mueller, MA4; Avery Tung, MD FCCM3; Junaid Nizamuddin, MD4; Sajid Shahul, MD2; Beth Israel Deaconess Medical Center4; University of Chicago Hospitals5; University of Chicago2

(SCA198) Standardization of OR to CTSICU Handoff in an Academic Hospital
Harry Garcia, MD1; Elizabeth Zhou, MD2; Bonnie Milas, MD3; Sunbeni Murphy, DO4; Amanda Chin, BA1; Stuart Weiss, MD PhD5; Meghan Lane-Fall, MD MSHP6; Kelly Hoenisch, BSN RN1; Jason Han, MD2; Hospital of the University of Pennsylvania2; University of Pennsylvania2; University of Pennsylvania Medical Center3; Perelman School of Medicine at University of Pennsylvania4

(SCA199) Assessment of Pulmonary Artery Pulsatility Index in Patients Undergoing Left Ventricular Assist Device Placement
Jason Johnson, MD1; Mary Cooter, MS2; Sharon McCartney, MD1; nazish Hashmi, MD1; Mihai Podgoreanu, MD FASE7; Madhav Swaminathan, MD FASE8; Alina Nicoara, FASE MD1; Duke University Medical Center1; Duke University8; Duke University Hospital9

(SCA200) Postoperative Pain Management Strategies and Delirium After Trans-Apical TAVI: A Randomized Controlled Trial
George Djilani, MD FRCP FRCAMC1; Eva Strike, MD1; Rita Katsnelson, MD1; Eric Horlick, MD1; Rima Styra, MD1; Humara Poonawala, MD (Russia) CCRP1; Cobmatore Srinivas, MD FRCP1; Robert James Cusimano; Jo Carroll, RN BHA1; Toronto General Hospital, University Health Network2; Paula Stadins Clinical University Hospital3

(SCA201) Outcomes and Hospital Readmissions After Heart Transplantation: A National Readmissions Database Study
Shahzad Shaefi, MD1; Atul Gupta, MBBS2; Mohammed Minhas, MD MBA3; Ariel Mueller, MA4; Avery Tung, MD FCCM3; Junaid Nizamuddin, MD4; Sajid Shahul, MD2; Beth Israel Deaconess Medical Center4; University of Chicago Hospitals5; University of Chicago2

(SCA202) Current Practice Strategies in the Acute Care Setting and the Utilization of Point of Care Ultrasound: A Survey Study Across All Acute Care Specialties
Bryan Frost; Davinder Ramsingh, MD1; VI Dinh, MD RDMS RDCS1; Jason Gatling, MD1; Gary Stier, MD MBA2; Ryan Lauer, MD1; thab Dorrota; Loma Linda University Medical Center1; Loma Linda University Health3

(SCA203) Outcomes and Hospital Readmissions after Extracorporeal Membrane Oxygenation (ECMO): A National Readmissions Database Study
Shahzad Shaefi, MD1; Atul Gupta, MBBS2; Mohammed Minhas, MD MBA3; Ariel Mueller, MA4; Avery Tung, MD FCCM3; Junaid Nizamuddin, MD4; Sajid Shahul, MD2; Beth Israel Deaconess Medical Center4; University of Chicago Hospitals5; University of Chicago2

(SCA204) Evaluation of Clinical Impact of Noninvasive Hemodynamic Monitoring to Optimize Preventative Care of Heart Failure Patients
Alec Runyon, MD1; Davinder Ramsingh, MD2; Jason Gatling, MD1; Ryan Lauer, MD1; Suzanne Hyun, MD2; Jaron Yang; Yela Jung; Laurel Kelley, MS2; Luke Edgson, BSc2; Loma Linda University Medical Center1; Loma Linda Medical Center2; Loma Linda University3; Loma Linda University Medical School4

(SCA205) Pretreatment with Levosimendan in Patients Undergoing Left Ventricular Assist Device Implantation
Nikola Bradic, MD1; Andrej Sribar, MD2; Daniel Unic, MD3; University Hospital Dubrava4

(SCA206) A Pilot Goal-Directed Perfusion Initiative to Prevent Acute Kidney Injury After Cardiac Surgery
Vichasla Barodka, MD: Johns Hopkins University School of Medicine

(SCA207) High Fidelity Simulation Increases Resident Performance During Rare High Acuity Events
Timothy Heineke, MD1; George Guldin, MD1; Medical University of South Carolina2

(SCA208) Selection and Outcomes of Patients for Transfemoral Transcatheter Aortic Valve Replacement Performed Under Monitored Anesthesia Care Versus General Anesthesia
Sarju Pani, MBBS1; John Cagino, MD1; Bruno Natalia, MD1; Sridhar Musuku, MD FRCA1; Albany Medical Center2

(SCA209) Active Humidification and Perioperative Temperature Regulation Using a Novel Heated Airway Circuit After Deep Hypothermic Circulatory Arrest
Matthew Bean, DO1; Kamrouz Ghandimi, MD1; Jhaymle Cappiello, MS RRT-ACCS2; Jason Boyle, BSRC RRT-ACCS2; Sebastian Diaz, MS CCP2; Sharon McCartney, MD1; Ian Welsby, MD BSc FRCA MBBS1; Duke University Medical Center1; Duke University Hospital2

(SCA210) Reducing Perioperative Waste of Infused Medications in the Adult Cardiac Operating Rooms at an Academic Medical Center
Tera Cushman, MD MPH1; Dinesh Kurian, MD MBA2; Phillip Geier, MD2; Srikar Rao, MD2; Martin Sjurdsdorn, MD PhD3; Brad Taicher, DO MBA4; Claudia Villalpando; Nathan Waldron, MD MHS5; Cory Maxwell, MD6; Duke University Hospital6; Duke University Medical Center7; Duke University Hospital8

(SCA211) Quality Improvement in Thoracic Surgery: Assessing the Effectiveness of a Perioperative Thoracic Pain Management Algorithm
Tera Cushman, MD MPH1; Wenjing Qi, PhD2; Austin Trayor, BS3; Betty Tong, MD MHS MS4; Brandy Bottiger, MD2; Rebecca Klinger, MD MS5; Duke University Hospital4; Duke University School of Medicine6; Duke University Medical Center7

(SCA212) General Anesthesia for Transcatheter Aortic Valve Replacement: Total Intravenous Anesthesia Is Associated With Decreased Hospital Length of Stay and a Trend Toward Less Delirium Compared to Volatile Agent Technique
Allie Gains, BS1; Alan Smetz, MD2; Cassandra Ramm, AGNP-C1; Paula Strassle, MSPH1; Emily Teeter, MD FASE1; Thomas Caranasos, MD1; John Vavalle, MD1; Lavinia Kolarcyck, MD1; University of North Carolina1; University of North Carolina Hospital2
(SCA213) Postoperative Dysphagia After Intraoperative Transesophageal Echocardiography in Cardiac Surgical Patients
Brian O’Hara, MD1; Luigi Nascimbene, MD PhD2; Marc Philip Pimentel, MD MPH1; Chuan-Chin Huang, ScD2; James Rawn, MD1; Jo Ann David-Kasdan, RN MS SM1; Jennifer Beloff, RN MSN APN1; Semra Koymen, MA, CCC-SLP1; Brigham and Women’s Hospital1

(SCA214) Identifying Threats to Patient Safety in Cardiac Surgery: Differences Between Teaching and Nonteaching Hospitals
Tara Cohen, MS1; Albert Boquet, PhD1; James Abennathy, MD MPH FASE FAHA2; Scott Reeves, MD MBA FACC FASE1; Scott Shappell, PhD1; Embry-Riddle Aeronautical University1; Medical University of South Carolina2

(SCA215) Withdrown

(SCA216) Withdrawn

(SCA217) Fellow-Driven Transesophageal Echocardiography Curriculum for Residents
Genevieve Staudt, MD1; Tao Shen, MBBS1; Agnieszka Lesicka, MD1; Yvonne Lai, MD1; Massachusetts General Hospital1

(SCA218) Fast-Track Protocols: Is Quality Pushed to the Edge?
Carl-Johan Jakobsen, MD1; Pia Ryhammer, MD1; Jacob Greisen, MD1; Aarhus University Hospital1

(SCA219) Rotational Thromboelastometry in Cardiovascular Surgery: Initial Experience
Saraswathi Karri, MD1; Elizabeth Lee Herrera, MD1; Eric Sakazar, MD PhD1; Houston Methodist Hospital2

(SCA220) Using Flow Disruptions to Define the Error Space During Cardiovascular Surgery
Albert Boquet, PhD1; Tara Cohen, MS1; Scott Reeves, MD MBA FACC FASE1; Scott Shappell, PhD1; Embry-Riddle Aeronautical University1; Medical University of South Carolina2

(SCA221) Comparison of Forced-Air and Warm Circulating-Water Devices on the Risk of Transfusion in Cardiac Surgery
Emily Penick, MD1; Benjmin Rohrer, MD1; Ingrid Moreno-Duarte, MD1; Henry Rogalin, PhD1; Visal Patel, MD MS1; Fred Cobey, MD MPH FASE1; Stefan Ianchulev, MD1; Tufts Medical Center2

(SCA222) Effect of Preoperative Cardiac Implantable Electronic Device Programming on Perioperative Management
Jose Navas, MD1; Derrick Williams, MD1; Henry Ford Hospital1

(SCA223) Prediction of Delirium After Cardiac Surgery: The Role of Transcranial Doppler and Cerebral Oximetry
Sarah Soh, MD1; Jae-Kwang Shim, MD PhD1; Hye-Bin Kim, MD1; HyeJin Kim, MD1; Young-Lan Kwak, MD PhD1; Yonsei University College of Medicine1

(SCA224) Does Length of Surgery Correlate With Increased Risk of Stroke?
Bradley Kelsheimer, MD1; Tara Brakke, MD FASE1; University of Nebraska Medical Center1; University of Nebraska2

(SCA225) Initial Experience of Emergent Extracorporeal Membrane Oxygenation (ECMO) in the Operating Room
Wongook Wi, MD1; Jyeon Park, MD1; Jong-Hwan Lee, MD PhD2; Jeong Jin Min, MD1; Yang Hyun Cho, MD1; Krick Sung, MD1; Samsung Seoul Hospital1; Samsung Medical Center2

(SCA226) Vasopressin Cost Inflation: Economic Consequences in the Cardiac Operating Room
Michael Plakke, MD1; Robert Raff, PharmD BCPS2; Cory Maxwell, MD1; Madhav Swaminathan, MD FASE1; Duke University1; Duke University Hospital1; Duke University Medical Center1

(SCA227) Procedural Recall and Patient Satisfaction Using Monitored Anesthesia Care in Transcatheter Aortic Valve Replacement
Prakash Patel, MD1; Carissa Livingston, BS2; William Vernick, MD2; Jared Feinman, MD1; John Augoustides, MD FASE FAHA1; Jacob Gutsche, MD2; Nimesh Desai, MD1; University of Pennsylvania1; Perelman School of Medicine1; Hospital of the University of Pennsylvania1

(SCA228) Translation of Blood Conservation Guidelines Into Clinical Practice: Use of a Survey Instrument to Identify Barriers and Drive Adoption
Simon Choi, MD1; Ravi Joshi, MD1; Mandy McBroon, MPH1; William Travis Lau, MD1; Philip Greilich, MD1; University of Texas Southwestern Medical Center1; The Queen’s Medical Center2

(SCA229) A Comparison of Forced-Air Versus Warm Circulating-Water Devices on the Risk of Transfusion in Cardiac Surgery Patients
Emily Penick, MD1; Benjamin Rohrer, MD1; Ingrid Moreno-Duarte, MD1; Henry Rogalin, PhD1; Alaa Basura, MBBS1; Farhad Zahedi, MD1; Visal Patel, MD MS1; Fred Cobey, MD MPH FASE1; Stefan Ianchulev, MD1; Tufts Medical Center2

(SCA230) Intraoperative Fluid Management and Cardiac Surgery Patient Data Capture: Parameter-Centered Treatment Platform to Improve Patient Outcomes and Facilitate Physician Coaching
Riva Macbeth, BS1; Bryan Kwon, BS2; Michael Dobbles; Andrew Wilkey, MD1; Robert Farivar, MD PhD1; Tjorvi Perry, MD MMSc1; Abbott Northwestern Hospital1; Edwards Lifesciences2

(SCA231) Pharmacy Preparation of Emergency Medication for Cardiac Anesthesia: A Quality Improvement and Cost Study
Victor Neira, MD1; Vivian Wang; Derek Wang; Matthias Scheffer, MD2; Heather Neville, BScPharm MSc2; Blaine Kent, MD FRCP(C); QEII Infirmary Hospital2; Dalhousie University1; Nova Scotia Health Authority1; QEII Health Sciences Centre, Nova Scotia2

(SCA232) Intraoperative Arterial Pulse-Contour Directed Hemodynamic Management Shortens Exubtation Times and Intensive Care Unit Length of Stay, and Reduced Total Variable Cost in Cardiac Surgical Patients
Tjorvi Perry, MD MMSc1; Andrew Wilkey, MD1; Kathryn Foeg; Serina Brueggenmann; Erik Stoitenberg; Pamela Rush, RN MS1; Craig Strauss, MD MPH1; Matthew Sundblad, MD1; Judah Askew, MD; Robert Farivar, MD PhD1; Abbott Northwestern Hospital1; Allina Health1; Minneapolis Heart Institute1; American Anesthesiology of MN1
Fellow/Resident Complex Case Presentations

Fellow/Resident Complex Case Poster Presentations: Session 1 (Non-CME)

Saturday, April 22, 11 am–Noon

(F5) Asynchronous Independent Lung Ventilation for Mesothelioma Resection
Kristine Pearson-Chauhan, DO1; Perre LeVan, MD1; Mina Oftadeh, DO1; Jenny Kwak, MD1; Loyola University Medical Center1

(F6) Uncommon Cause of Acute Onset Coronary Ischemia Following CABG: Compression by Chest Tube
Meredith Kingeter, MD3; Misas Pretorius, MBCHB5; Vanderbilt University Medical Center1

(F7) Repair of Severe Aortic Insufficiency in a Pediatric Patient With Left Ventricular Assist Device
Scott Miller, DO1; Srinivasa Rajagopal, MD2; University of Iowa Hospitals & Clinics3; University Of Iowa7

(F8) Left Ventricular Failure Following MitraClip Deployment
Adam Dalia, MD MBA1; Michael Essandoh, MD2; Massachusetts General Hospital Harvard Medical School1; The Ohio State University2

(F9) Imaging Modalities for Correct Positioning of Percutaneous Right Ventricular Assist Device in a Patient Following Left Ventricular Assist Device (LVAD) Implantation
Bobby Bahadorani, DO1; Marnya Geube, MD2; Cleveland Clinic Foundation1

(F10) Large Pulmonary Artery Aneurysm From a Rare Pulmonary Valve Pathology
Bradford Cardonell, MD1; Barry Marks, DO1; Joseph Stemn, MD2; Michael Dorbad, DO1; Geisinger Medical Center1; Geisinger Clinic2

(F11) Embolized Watchman Device Dynamically Occludes Left Ventricular Outflow Necessitating Emergent Sternotomy
Elvera Baron, MD PhD1; Himani Bhatt, DO MPA FASE2; Mount Sinai Hospital3; Icahn School of Medicine at Mount Sinai2

(F12) Severe Orthopnea Precluding Awake Institution of Venovenous Extracorporeal Membrane Oxygenation
Lauren Hodgson, DO1; Johannes Steyn; University of Kentucky1

(F13) AngioVac Suction Thrombectomy Complicated by Thrombus Fragmentation and Distal Embolization Leading to Hemodynamic Collapse
Timothy Del Rosario, MD1; Mafdy Basta, MD2; Shvetank Agarwal, MD FASE1; Augusta University3; Augusta University, Medical College of Georgia2

(F14) Anesthetic Management of a Patient With a Severe Form of Diastolic Dysfunction
Stephen Bird, DO1; Andrea Duncan, MD MS1; Cleveland Clinic1

(F15) Management of a Patient with Heparin-Induced Thrombocytopenia Undergoing Heart Transplantation
Jason O’Neal, MD1; Adam Kingeter, MD1; Vanderbilt University Medical Center1

(F16) Ultrasound-Guided Left Stellate Ganglion Block for the Treatment of Refractory Ventricular Storm in a Patient Undergoing Veno-Arterial Extracorporeal Membrane Oxygenation
Alvin Garcia, MD1; David Creighton, MD5; Vanilla Singh, MD1; Sheila Pai Cole, MD2; Stanford Hospital and Clinics1; Stanford University School of Medicine2; Stanford University3

(F17) Systemic Right Ventricular Failure: A Late Complication After Mustard Repair for Dextro-Transposition of the Great Arteries
Terrence Coffey, MD1; Ryan Hood, MD2; Northwestern University1; Northwestern University Feinberg School of Medicine2

(F18) A Case of Paravalvular Leak and Iatrogenic Aortic Insufficiency Following Mitral Valve Replacement
Vincent Pagano, MD; University of Michigan Health System

(F19) Dual Outflow Obstruction? Worsening Heart Failure After Paravalvular Leak Repair With Amplatzer Vascular Device
Reney Henderson, MD1; Seema Deshpande, MD2; Andrew Crabbe, MD3; University of Maryland School of Medicine1; University of Maryland Medical System1; Saint Anthony Hospital3

(F20) Effects of Antiphospholipid Syndrome on Anti-Xa and ACT Levels in Patients Undergoing Transcatheter Aortic Valve Replacement
Kirk Stevens, MD1; Jose Rios, MD ABIHM1; Zachary Cargill1; Fred Cobey, MD MPH FASE1; Tufts Medical Center3; Northeastern University2

(F21) Intraoperative Management of Cesarean Delivery Following LVAD Implantation for Chronic Heart Failure
Ashley Taylor, MD1; Michael Isley, MD1; Kiran Nakai; Ami Attoli, DO1; Henry Ford Hospital9

(F22) Surgery for Infective Endocarditis—Valve Repair Versus Replacement
Tao Shen, MBBS1; Heidi Bas, MD1; Massachusetts General Hospital1

(F23) Aorto-Cavitary Fistula in Patient with Bicuspid Aortic Valve and Endocarditis: A Rare Complication
Sean Johnson, MD1; Rohesh Fernando, MD2; Wake Forest Baptist Medical Center1; Wake Forest University School of Medicine2

(F24) Anesthetic Management for the Implantation of a Total Artificial Heart
Sarah Arnold, MD1; Cesar Rodriguez-Diaz; Mount Sinai Hospital1

(F25) Management of Anomalous Right Coronary Artery With Intramura: Left Atrium
Bryant Bunting, DO1; University of Pittsburgh Medical Center

(F26) Severe Pulmonary Hypertension in a Patient on VV ECMO Transferred From an Outside Hospital for Double Lung Transplant
Beau Bergeron, MD1; Theresa Gelzinis, MD2; Diana DeAndrade, MD1; University of Pittsburgh Medical Center1; University of Pittsburgh2

(F27) Intimal Sarcoma Within the Left Atrium
Terrence Coffey, MD1; Emory University1; Emory University School of Medicine1

(F28) Acute Migration of a Perceval Sutureless Aortic Valve Following Separation From Cardiopulmonary Bypass During CABG/AVR
Vincent Pagano, MD1; Justin Pollak, MD2; Maine Medical Center1

(F29) Left Ventricular Assist Device Explantation: The Off-Pump Approach
Ashley Yager, MD1; Leonid Gorelik, MD1; Galina Dimitrova, MD1; Ohio State University2
Fellow/Resident Complex Case Presentations

(F30) Vascular Erosion From Central Venous Cannulation With Propofol Extravasation
Will Kurtz, MD1; Daniel Corman, MD2; Allegheny Health Network3

(F31) Right Atrial Outflow Obstruction With Severe Right-to-Left Shunt and Hypoxia Following Induction of General Anesthesia
Brian O’Hara, MD1; Albert Kwon, MD2; Martin Zammert, MD1; Brigham and Women’s Hospital1

(F32) Multimodal Imaging and Percutaneous Management of Left Ventricular Assist Device Outflow Cannula Obstruction
Srikar Rao, MD1; Matthew Read, MD2; Mani Daneshmand, MD3; Ali Zomorodi, MD1; Mandisa-Maia Jones-Haywood, MD FASE2; Kamrouz Ghadimi, MD1; Duke University Medical Center1; Duke University2; Duke University of Nebraska2

(F33) Mustard Takedown and Jatene Arterial Switch in an Adult with D-Transposition of the Great Arteries
Austin Adams, MD1; Jordan Gozdzialski, MD1; Nicholas Markin, MD FASE2; Thomas Schulte, MD2; University of Nebraska Medical Center1; University of Nebraska2

(F34) Combined En-Bloc Heart-Liver Transplant on Cardiopulmonary Bypass (CPB): Implications for the Anesthesiologist
Kimberly Burcar, MD1; Jayanta Mukherji, MBBS2; Steven Edelstein, MD1; Loyola University Medical Center1

(F35) Airway and Pulmonary Artery Compression Associated With Transesophageal Echocardiography Manipulation in a Patient With a Giant Thoracic Aortic Pseudoaneurysm
Brett Myers, MD1; Kenichi Ueda, MD PhD1; University of Iowa Hospitals and Clinics1

(F36) Emergent Lumbar Drain Placement Resulting in Reversal of Paraplegia After Total Aortic Arch Replacement and Stent Grafting of Descending Thoracic Aorta
Maximillian Blanter, MD1; Manu Zhou, MD1; Shawn Coleman, MD2; Ali Khoynezhad, MD1; Cedars-Sinai Medical Center1

(F37) Severe LVOT Obstruction in Setting of Hypertrophied Ablative Papillary Muscle
Sarah Burke, MD1; Ellen Richter, MD1; Emory University School of Medicine1

(F38) Intraoperative Transesophageal Echocardiography for Watchman Device Implantation: Guiding Device Deployment and Managing Complications
Anubhav Kapoor, MD1; Mary Beth Brady, MD FASE2; Johns Hopkins Hospital1; Johns Hopkins School of Medicine2

(F39) Anesthetic Implications of a Case of Cardiac Paraganglioma
Perin Kothari, DO1; Anand Mehta, MD2; Shiva Sale, MD2; Alexander Leone, MD2; Cleveland Clinic3; Cleveland Clinic Foundation

(F40) Isolated Post Cardiopulmonary Bypass Right Ventricular Dysfunction with Concomitant Subvalvular Left Ventricular Outflow Tract Obstruction Following Aortic Valve Replacement
Kevin Wong, DO1; Jennifer Hargrave, DO1; Cleveland Clinic1

(F41) A Screw Loose: Penetrating Trauma to the Ascending Aorta
Rayah Sherrifdeen, MD1; Kimberly Kesner, MD1; Rush University Medical Center1

(F42) Severe Hypotensive Reaction Following Administration of Fresh Frozen Plasma
Chiwue Nwosu, MD1; Wendy Bernstein, MD MBA2; Mogali Fontaine, MD PhD2; University of Maryland3; University of Rochester2; University of Maryland School of Medicine3

(F43) Aortic Root Pseudoaneurysm After Transcatheter Aortic Valve Replacement Requiring Left Ventricular Outflow Tract Repair
Tina Shah, MD1; Aaron Reynolds, MD2; McGaw Medical Center of Northwestern University1; Northwestern University Feinberg School of Medicine2

(F44) Right Heart Failure Due to Aortic Pseudoaneurysm
Henrique Vale, MD1; Peter Fliss, DO1; Bryan Hiermeier, MD1; Jeremy Rainey, DO1; Henrique Vale, MD1; University of Mississippi Medical Center1

(F45) Radical Pericardectomy of Calcified Pericardium
Tyson Vandagriff, MD1; Elizabeth Lee Herrera, MD2; University of Texas-Houston1; Houston Methodist Hospital2

(F46) Malposition of a Transcatheter Aortic Valve Causing Fatal Arrhythmias in a Patient With a Left Ventricular Assist Device
Keith Mulder, MD; University of Michigan Health System

(F47) An Interesting Case of a Large, Mural Left Ventricular Vegetation Without Valvular Involvement Caused by Group B Streptococcus in a Patient With a Structurally Normal Heart
Joshua Hammond, MD1; David Grena, MD, PhD1; Emory University School of Medicine1; Piedmont Atlanta Hospital1

(F48) Cardiogenic Shock and Urgent Impella 5.0™ Placement: Can Regional Anesthesia Help?
Julie Wyrobek, MD1; Jeffrey Swanson, MD2; Wendy Gross, MD1; Kevin Croce, MD PhD1; Steve Singh, MD MSc FRCSC1; Brigham and Women’s Hospital1

(F49) Electro-Mechanical Discordance Between the Left Atrium and Appendage
Kimberly Hollander, MD1; Eitezaz Mahmood, BA2; Feraz Mahmood, MD FASE1; Beth Israel Deaconess Medical Center1; Northwestern University2

(F50) Anesthetic Management of a Patient With Renal Cell Carcinoma and Right Atrial Tumor Thrombus
Ryan Hofer, MD1; Paul Kazanjian, MD2; University of Michigan1; University of Michigan Medical School2

(F51) Anesthetic Considerations of Laparoscopic Colectomy in Patient With VAD
Bao Ha, MD1; Jared Feinman, MD3; University of Pennsylvania4; Hospital of the University of Pennsylvania2

(F52) Anesthesia for Surgical Resection of Primary Cardiac Angiosarcoma in the Right Ventricle
Fernando Cuadrado, MD1; Yvonne Lai, MD1; Massachusetts General Hospital1

(F53) The Weakest Link: Oxygen Supply Failure During Cardiopulmonary Bypass
Clair Secomb, MD1; Swapnil Khoche, MD1; Kayla Wallace; University of California, San Diego1
Fellow/Resident Complex Case Presentations

Saturday, April 22, 11 am–Noon (continued)

(F54) Isolated Persistent Left Superior Vena Cava (IPLSVC) With Absent Right Superior Vena Cava (RSVC) in Situs Solitus Adult Presenting for Cardiac Surgery
Tyson Smith, DO1; Rachel Gryta, DO2; Edward Gogolinsky, MD FASE2; Allegheny Health Network1; Allegheny General Hospital2

(F55) Anesthesia Management of a Patient With an Atrial Septal Pouch Complicated by Thrombosis
Emily Williams, MD1; Andrea Duncan, MD MS1; David Anthony, MD1; Cleveland Clinic1

(F56) Multiple Coronary Aneurysms
Jonathan Howard, MD1; Gerald Rosen, MD1; Orlando Santana, MD1; Alfredo Armas, BA1; Omar Issa, DO1; Mount Sinai Medical Center1; Miami Beach Anesthesiology Association1; Florida International University Herbert Wertheim College of Medicine1

(F57) An Unexpected Highly Mobile Perivalvular Mass Discovered During Routine CABG
Andrew Vons, MD1; Jeff Gardner, MD2; Wake Forest Baptist Medical Center1; Wake Forest University1

(F58) Pneumoperitoneum During Endovascular Procedure
Daniel Moseley, MD1; Luiz Maracaja Neto, MD1; San Antonio Uniformed Services Health Education Consortium1; University of Texas Health Science Center at San Antonio2

(F59) Acute Right-to-Left Intracardiac Shunting Through Patent Foramen Ovale in a Patient Undergoing Tricuspid Valve Replacement: The Deleterious Impact of Positive Pressure Ventilation
Andrew Hall, MD1; Beth Webber, DO2; Michael Fabbro, DO2; Pankaj Jain, MD2; University of Miami/Jackson Health System1; University of Miami/Jackson Memorial Hospital1; University of Miami2

(F60) Left Sinus of Valsalva Aneurysm Involving Left Main Coronary Artery: A Case Report
Marina Vardanyan, MD PhD1; Himani Bhatt, DO MPA FASE2; Martin Chen, MD2; Mount Sinai Hospital1; Icahn School of Medicine at Mount Sinai2; Mount Sinai Medical Center2

(F61) Persistent Ventricular Septal Defect and Complete Heart Block Following Septal Myectomy for Hypertrophic Obstructive Cardiomyopathy
Michael McCaughan, MD1; Timur Dubovoy, University of Michigan2

(F62) To Clip or Not to Clip, That Is the Question
Michelle Shirak, MD1; Rebecca Aron, MD1; Cedars-Sinai Medical Center1

(F63) Percutaneous Tricuspid Valve Repair for Functional Tricuspid Regurgitation
Deena Perotti, MD1; Moody Makar, MD1; Cedars-Sinai Medical Center1

(F64) Unanticipated Endoaortic Balloon Embolization Causing Catastrophic Distal Aortic Rupture
Alex Leone, MD1; Perin Kothari, DO2; Anand Mehta, MD2; Cleveland Clinic Foundation1; Cleveland Clinic2

(F65) A Rare Case of Seroma of ICD Lead Pocket and Its Excision: Anesthetic Management
Samhati Mondal, MD1; Maninder Singh, MD2; MetroHealth Medical Center, Case Western Reserve University1; MetroHealth Hospital2

(F66) One Size Fits...Most: A Rare Case of Right Coronary Artery Compression After Tricuspid Valve Replacement
Heather Lander, MD1; Lauren Cornella, MD1; Tsuyoshi Kaneko, MD1; Brigham and Women’s Hospital1

(F67) Post Myocardial Infarction Ventricular Septal Defect Complicated by Pseudoaneurysm: An Unusual Presentation
Jun Xu, MD1; Sudhakar Subramani, MD MMED2; University of Iowa1; University of Iowa Hospitals and Clinics2

(F68) Not Too Near, Not Too Far, But Just Right: Two Examples of Transesophageal Echocardiographic Evidence of Malpositioned Perceval™ Sutureless Aortic Valves
Caroline Hunter, MD1; Scott Streckenbach, MD MD1; Massachusetts General Hospital1

(F69) Complete Avoidance of Blood Product Transfusion With Single Dose Prothrombin Complex Concentrates in an Anticoagulated Patient Undergoing Redo Cardiac Surgery
Monique Roberts, MD1; Prakash Patel, MD1; Jonathan Frogel, MD1; Hospital of the University of Pennsylvania1; University of Pennsylvania1

(F70) Differential Diagnosis, Intraoperative Anesthesia and Medical Management of a Rapidly Growing Right Atrial Mass on Echocardiography
Sajjad Ibrar, MD1; Enrique Pantin, MD1; Sagar Mungekar, MD1; Rutgers Robert Wood Johnson Medical School1; Rutgers University2

(F71) Incidental Discovery of an Aorto-Atrial Fistula During Aortic Valve Replacement
Ashley Gabrielsen, DO1; Michael Andritsos, MD2; Ohio State University Wexner Medical Center1; Ohio State University2

(F72) Diagnosis and Treatment of Mitral Stenosis in a Thrombosed Bioprosthetic Mitral Valve
John Dollerschell, MD1; University of Missouri, Kansas City1

(F73) Anaphylaxis Before Incision: Should We Continue?
Richard Van Trump, DO MS1; Laura Colboch, MS OMS2; Matthew Waldron, MD1; University of Missouri-Kansas City School of Medicine1; Kansas City University of Medicine and Biosciences1; Mid America Heart Institute1; University of Missouri-Kansas City2

(F74) Lung in a Box: Ex-Vivo Lung Transplantation
Elizabeth Cotter, MD1; Mark Chaney, MD2; University of Chicago Medicine1; University of Chicago2

(F75) Intraoperative Detection and Management of Cerebral Vascular Accident During Ascending Aorta Surgery
Jennifer Hong, MD MBA1; Kathleen Knapp, MD1; Karsten Bartels, MD1; Nathanael Weitzel, MD1; University of Colorado School of Medicine1; University of Colorado2; University of Colorado Health Sciences Center4

(F76) Cardiopulmonary Embolectomy in a Patient With Preexisting Pulmonary Hypertension and RV Dysfunction Necessitating Postoperative Veno-Arterial-Venous Extracorporeal Membrane Oxygenation
Kelly Kohorst, MD1; Michael Kreger, MD1; Dorothee Mueller, MD1; Stuart McGrane, MCHB1; Kara Siegrist, MD1; Vanderbilt University Medical Center1; Vanderbilt Medical Center2
Fellow/Resident Complex Case Presentations

(F77) Left Ventricular Outflow Tract Obstruction From Accessory Mitral Valve Tissue?
Iwan Sofjan, MD1; Jennifer Hargrave, DO1; Cleveland Clinic1

(F78) Better Late than Never: Delayed Diagnosis of a Sinus Venosus Defect
Genevieve Staudt, MD1; Michael Fitzsimans, MD2; Massachusetts General Hospital2

(F79) Hemodynamically Unstable Systolic Anterior Motion Following Mitral Valve Repair
Jimmy Yao, MD1; Darren Hyatt, MD1; Matthew Klopman, MD FASE2; Emory University1; Emory University School of Medicine2

(F80) A Man With Three Hearts: Total Artificial Heart Transplantation in a Patient With Existing Heterotopic Heart Transplantation
Christy George, MD1; Shaina Sheppard, MD2; University of Texas Health Science Center2

(F81) The ‘Convergent Procedure’: Anesthetic Considerations and Technical Complexities
Shashank Shettar, MD1; Sanjeev Chhangani, MD MBA2; University of Florida, College of Medicine1

(F82) Double Valve Replacement in a Patient With Severe Rheumatic Heart Disease and Acute Decompensated Heart Failure
Binu Abraham; Megan Burger, MD1; Sandeep Markan; Yi Deng, MD2; Baylor College of Medicine1

(F83) Management of a Patient With a History of Thrombotic Thrombocytopenic Purpura Undergoing Aortic Valve Replacement
Grace Bryant, MD1; Ravi Joshi, MD1; University of Texas Southwestern Medical Center1

(F84) Hydroxocobalamin Administration for Hypotension Refractory to Vasopressor Infusions and Methylene Blue During Cardiopulmonary Bypass
Joseph Morabito, DO MS1; Bryan Ahlgren, DO1; Brendan Sullivan, MD2; University of Colorado Hospital1; University of Colorado Denver1

(F85) Perioperative Management of Postpneumonec tonic Pulmonary Edema
Simon Choi, MD1; Sreekant Cheruku, MD; Bryan Romito, MD1; Ravi Joshi, MD1; Amanda Fox, MD MPH1; Alycia Wanat-Hawthorne, MD1; University of Texas Southwestern Medical Center1

(F86) Unexpected Intraoperative Discovery of Left Main Pulmonary Artery Embolus Prior to Minimally Invasive Valve Surgery
Allison Moriarty, MD1; Jayeshkumar Patel, MD1; Keck School of Medicine, University of Southern California1; University of Southern California1

(F87) Acute, Severe Aortic Insufficiency Leading to Cardiac Arrest in Transcatheter Aortic Valve Replacement: Implications and Management
Vishal Dhandha, MD1; Tim Rohman, MD1; Thomas Caranasos, MD1; John Vavalle, MD1; Lavinia Kolarczyk, MD1; University of North Carolina1; University of North Carolina Hospitals1

(F88) Seventh Time Reoperative Cardiac Surgery in a Patient With an Aorto-Right Ventricular Fistula and Aortic Pseudoaneurysm Adhered to Retrosternum
Asha Singh, MD1; Anand Mehta, MD2; Cleveland Clinic Foundation1; Cleveland Clinic2

(F89) Mechanical Valve Thrombosis from Heparin Induced Thrombocytopenia with Thrombosis: Reoperation With Low Dose Bivalirudin
Adam Weinstein, MD1; Rene Dekkers, BS CCP LP1; Steve Singh, MD MSc FRCS1; John Fox, MD1; Brigham and Women’s Hospital1

(F90) A Tricuspid Valve Replacement in a 39-Year-Old Patient With Ebstein’s Anomaly
Jenna Struther, MD1; Rachel Roberts, MD1; Bryan Hierlemier, MD1; Henrique Vale, MD1; University of Mississippi Medical Center1

(F91) Hybrid Endovascular Repair of the Aortic Arch in a Patient With Ruptured Aneurysm: Using Rapid Ventricular Pacing to Control the ‘Windsock’ Effect
Jeffrey Kim, MD1; Michael Bakoch, MD PhD1; Ahmed Salahi, MD1; University of California, San Francisco1

(F92) Giant Left Atrial Mass Excision 14 Years After Heart Transplant
Matt Maxwell, MD MPH1; Dione Peacher, MD, University of Iowa Hospitals and Clinics1

(F93) Ruptured Sinus of Valsalva Aneurysm With VSD
Julius Hamilton, MD1; Kirk Edwards, MD1; Ratna Vadlamudi, MD2; Emory University1; Emory Healthcare2

(F94) Dynamic Right Ventricular Outflow Tract Obstruction After Coronary Artery Bypass Grafting
Eric Lin, MD; Johns Hopkins University School of Medicine

(F95) LVAD Placement as Bridge to Transplant in a Patient With LV Noncompaction and Known LV Thrombus
Matthew Hull, MD; University of Alabama at Birmingham

(F96) Surgical Repair of an Isolated Parachute-Like Asymmetric Mitral Valve (PLAMV) Defect in an Adult
Diana DeAndrade, MD1; Derek Lauter, MD1; Heather Hayanga, MD MPH1; University of Pittsburgh Medical Center1

(F97) Closed Chest Cardiopulmonary Bypass in a Patient With Aortic Insufficiency and the Need for Alternative Left Ventricular Venting
Brett Wakefield, MD1; Alexander J. Leone, MD1; Shiva Sale, MD1; Cleveland Clinic Foundation1

(F98) Intra-Aortic Fibrinous Sheath Detected by Echocardiography Associated With Percutaneous Ventricular Assist Device
Alexander Kahan, MD1; Enrique Pantin, MD2; Denes Papp, MD1; Rutgers Robert Wood Johnson Medical School1; Rutgers University2

(F99) Transcatheter Mitral Valve-In-Valve Implantation in a Patient With a Degenerated Bioprosthetic Mitral Valve
Forrest Duncan, MD1; Bryan Hierlemier, MD1; Henrique Vale, MD1; University of Mississippi Medical Center1

(F100) An Uncommon Connection: Aorta to Right Atrial Fistulization From Ruptured Sinus of Valsalva Aneurysm in an Otherwise Healthy Patient
Kathryn Boles, DO; PharmD MPH1; Ashley Fritz, DO PA2; Gregory Mickus, MD1; Archer Martin1; Mayo Clinic1; Mayo Clinic Florida2

(F101) Acute Pseudoaneurysm of Right Coronary Ostial Anastomosis and Graft Failure After a Modified Bentall Procedure
Mario Farias-Kovac, MD1; Christian Balabanoff, MD1; Edo Ginsburg, MD1; Yuliana Salamanca-Padilla, MD1; Jeongae Yoon, MD1; Temple University Hospital1; Temple University2
Fellow/Resident Complex Case Presentations

Saturday, April 22, 11 am–Noon (continued)

(F102) Management of a Patient With Concomitant Severe Aortic and Mitral Stenosis.
Dinesh Kurian, MD MBA1; Madhav Swaminathan, MD FASE1; Duke University Medical Center1

(F103) General Anesthesia With Cardiopulmonary Bypass for LVAD Implantation in a Patient With McArdle’s Disease
Michael Benson, MD; Candice Morrisey, MD MSPH; University of Utah1

(F104) Acute Coronary Syndrome in Young Healthy Female: Think About Spontaneous Coronary Artery Dissection (SCAD)
Hussam Nagm, MD MSCh1; Sohall Mahboobi, MD; Ghaitth Abdullahim, MD; St. Elizabeth’s Medical Center1; Lahey Hospital and Medical Center2; Barns Jewish Hospital3

(F105) Pseudoaneurysm of the Mitral-Aortic Intervalvular Fibrosa
Allyson Lemay, MD; Julie Wyrabek, MD; Dirk Varelmann, MD; Lauren Cornella, MD; Brigham and Women’s Hospital1

(F106) Tricuspid Valve Avulsion After Blunt Chest Wall Trauma: Replace Now or Wait?
Kelly Bruno, MD1; Lavinia Kolarczyk, MD; University of North Carolina1

(F107) Unrecognized Ipsilateral Tension Pneumothorax During Single Lung Transplant
Luke Dong, MD1; Hamdy Awad, MD; Mohamed Ehab Ramadan, MBBC1; Tony Boulakay, BS1; The Ohio State University, Wexner Medical Center1; The Ohio State University1

(F108) The Imaging and Anesthetic Considerations in Carcinoid Valvular Heart Disease
Daniel Tige, DO; Lingesh Sivanesan, MD; University of Connecticut1; University of Connecticut School of Medicine1

(F109) Minimally Invasive Repair of a Double Orifice Mitral Valve
John Gamble, MD1; Eun Eoh, MD; Donald Glower, MD; Nicole Guinn, MD; Duke University Medical Center1; Duke University1

(F110) Successful Resuscitation of a 14-Year-Old After SVC Tear During ICD Laser Lead Extraction
Jordan Friel, MD1; Andrew Scharf, MD; Scott Reeves, MD MBA FACC FASE1; Medical University of South Carolina1

(F111) Localized Pericardial Effusion
Bradley Kelshheimer, MD; Tara Brakke, MD FASE; University of Nebraska Medical Center1; University of Nebraska2

(F112) Aortic and Mitral Valve Endocarditis With Holodioastic Flow Reversal and Mitral Drop Lesion With Abscess Extension Appearing as Aortic-Right Ventricular Fistula on Transsthoracic Echocardiography
Matthew Desmond, MD1; Julia Bauerfeind, MD; University of Florida1; Malcom Randall VA Medical Center1

(F113) Cholecystectomy, Pneumoperitonium and Eisenmenger Syndrome: Can NIRS Assessment of Cerebral and Somatic Tissue Oxygenation Improve Outcomes?
Suwarna Anand, MD1; Manuel Fontes, MD; Paul Heerdt, MD PhD FCCP1; Lingzhong Meng, MD1; Liang Lin; Gregory Lessans, MD; Yale University School of Medicine1; Yale University1; Yale–New Haven Hospital1

(F114) Incidental Unicuspid Aortic Valve During Aortic Valve Replacement
Peter Fliss, DO1; Henrique Vale, MD; Bryan Hierlmeier, MD; University of Mississippi Medical Center1

(F115) Partial Left-Heart Bypass (PLHB) During Thoracoabdominal Aortic Aneurysm (TAAA) Repair in the Presence Dynamic Left Ventricular Outflow Tract Obstruction and a Patient Forman Ovale: Friend or Foe?
Elizabeth Mburu, MD1; Jennifer Hargrave, DO1; Cleveland Clinic1

(F116) Anesthetic Management for Repair of an Aneurysmal Right Coronary Artery to Coronary Sinus Fistula With RV Ischemia and Early High-Output Heart Failure
Davoy Murray, MD1; Andrea Duncan, MD MS1; Cleveland Clinic1

(F117) Attempted Percutaneous Repair of Postinfarction VSD With Overlying Aneurysm Under TEE Guidance
Sandeeep Sabhlok, MD1; Nichlesh Patel, MD; University of California San Francisco1

(F118) Management of Electrical Storm Requiring Cardiectomy
Valery Andre, MD1; Oludare Olataye, MD; Mayo Clinic1

(F119) Iatrogenic Atrioventricular Fistula Results From Complex Surgical Repair of Aortic Root Abscess
Alex Waksinsky, MD1; Lebow Brandon, MD1; Ahmed Khan, MD; University of Rochester1; University of Rochester Medical Center2

(F120) Rescue Prone TEE Changes Management During Spine Surgery
Brian Butala, DO1; Edward Gologorsky, MD FASE2; Daniel Cormican, MD2; Joshua Baidsen, MD; Allegheny Health Network1; Allegheny General Hospital2

(F121) Transcatheter Aortic Valve Replacement in Chronic Type B Dissection: Transesophageal Echocardiography Is Essential!
Gabriela Queirejeta Roca, MD1; Nelson Burbano, MD1; John Fox, MD1; Brigham and Women’s Hospital1; Boston Children’s Hospital2

(F122) Management of Mitral Valve Annuloplasty Ring Dehiscence After Mitral Valve Repair
Kellee Gates, MD1; Pierre LeVan, MD1; Jenny Kwak, MD1; Loyola University Medical Center1

(F123) Challenging TAVR in Bicuspid Aortic Valve Stenosis: Utility of Transesophageal Echocardiography
Brad Moore, MD1; G. Burkhard Mackensen, MD PhD FASE1; Creighton Don, MD1; Jason Smith, MD; Donald Oxorn, MD CM FACC FRCPC1; Gabriel Aldea, MD FACC FACS2; University of Washington1; University of Washington Medical Center1

(F124) Management of Pulmonary Hemorrhage and Right Ventricular Outflow Tract Obstruction and a Patient Forman Ovale: Friend or Foe?
Brandon Smoller, MD1, Terrence Truxillo, MD2

(F125) Anesthetic Management of an Adult with Ebstein’s Anomaly Status Post-Fenestrated Lateral Tunnel Fontan Undergoing Posterior Spinal Fusion for Scoliosis.
Shahab Khademi, DO1; Jochen Steppan, MD DESA2; Aoife Marasco, MB BAOBCH FCARCSI1; Johns Hopkins Hospital1; Johns Hopkins University2

(F126) Awake ECMO Initiation for Management of Massive Retrosternal Goiter
Brandon Smoller, MD1, Terence Truxillo, MD, Ochsner Clinic Foundation1; Ochsner Clinic2
Fellow/Resident Complex Case Presentations

(F127) Anesthetic Considerations in Iatrogenic Pulmonary Vein Stenosis With ‘Kinked’ Pulmonary Vein Stent
Zack Zimmerman, MD1; Jennifer Hargrave, DO2; Cleveland Clinic1

(F128) A New Approach: Intracardiac Shunt Calculation to Aid in Decision Making With Annular Rupture Following TAVR Deployment
Clifford Cutchins, MD2; J. Christopher Goldstein, MD3; University of Florida1; Department of Veterans Affairs2

(F129) MitraClip Placement in the Presence of an Amplatzer Atrial Septal Occluder
Elliot Kay, MD1; Benu Makkad, MD1; University of Cincinnati Medical Center1

(F130) Pneumonectomy and Extracorporeal Membrane Oxygenation: When the Cannulas Come Before Resection
Ryan Noska, MD1; Peter Arrabal, DO1; Ping Wang, MD1; University of Cincinnati Medical Center1

(F131) Intraoperative Management of Pulmonary Hypertension in a Cardiac Surgery Patient
John Albert, MD1; Ahmed El Kabbani, MBBS2; Nikolaos Skubas, MD DSc FACC FASE3; Weill Cornell University1; Alfaisal University2; Weill Cornell Medicine3

(F132) The Mustard Procedure: A Historical Perspective on Transposition of the Great Vessels
William Marion, MD1; Eric Wilkens, MD MPH1; Christian Balabanoff Acosta, MD1; Temple University Hospital1

(F133) Anesthetic Management of an Off-Pump Double Aortic Arch Repair
Shweta Koirala, MD1; Anand Mehta, MD2; Cleveland Clinic1

(F134) An Unexpected Case of Tamponade Physiology
Andrew Bishara, MD1; Michael Bokoch, MD PhD1; Kevin Thornton, MD1; University of California, San Francisco1

(F135) Paradoxical Carbon Dioxide Emboli During Laparoscopic Cholecystectomy: Diagnosis and Management by Cardiothoracic Anesthesiology
Joseph Woo, MD1; Galina Levy, MD2; Mikhail Chernov, MD PhD1; Montefiore Medical Center1

(F136) Minimally Invasive Temporary Tandem Heart-Right Ventricular Support Device (CF-RVSD) in a Patient With Right Ventricular Failure (RVF) During Complex Left Ventricular Assist Device (LVAD) Exchange
Shonali Pawar, MD MPH1; Eric Wilkens, MD1; Edo Ginsburg, MD1; Temple University Hospital1; Temple University2

(F137) Congenital Quadricuspid Aortic Valve in Patients Undergoing AVR for Aortic Insufficiency
Alina Hulsey, MD1; Ryan Konoske, MD2; Cory D. Maxwell, MD2; Duke University Medical Center1; Duke University2

Corey Herman, MD1; Natalia Ivascu, MD1; Adam Lichtman, MD FASE1; Weill Cornell Medical Center1

(F139) Massive Pulmonary Hemorrhage During Open Thoracoabdominal Aortic Aneurysm Repair
Peter Rubenstein, MD1; Richard Sheu, MD2; Richard Actis, MD3; University of Washington1

(F140) Scoliosis Surgery in a Patient With Single Ventricle Physiology
Matthew Eagles, MD; Mayo Clinic

(F141) Left Atrial Esophageal Fistula After Five-Box Video Thorasthoracic MAZE Procedure
Muhammad Salman Janjua, MBBS1; Robert Medearis, DO2; Mohamed Ben Omran, MD1; Shvetank Agarwal, MD FASE1; Augusta University Medical Center/Medical College of Georgia1

(F142) Laparoscopic Surgery With Severe Pulmonary Hypertension
Anushri Desai, MD1; Hossam Tantawy, MD1; Yale New Haven Hospital1; Yale University2

(F143) Diagnosis of Displacement of Left Ventricular Assist Device (LVAD) Outflow Graft during Chest Closure With Echocardiography
Venkat Mangunta, MD; Texas Heart Institute/Baylor College of Medicine

(F144) Management of Parturient With New Diagnosis of Critical Aortic Stenosis
Elizabeth McIntyre, MD1; Julie Kado, MD2; Michael Faulkner, MD3; Beaumont Health System1; Northwestern University2; Oakland University William Beaumont School of Medicine3
Fellow/Resident Complex Case Presentations

Saturday, April 22, 5–6 pm

(F145) Ventricular Fibrillation Arrest Due to Coronary Artery Obstruction: An Unusual Mass Effect of Pulmonary Artery Sarcoma
Zachary Glickman, MD1; Andrej Alfrevic, MD FASE1; Cleveland Clinic1

(F146) TAVR Induced Systolic Anterior Motion of the Mitral Valve
Dane Ingebrigtsen, MD1; Kari Obma, MD1; University of Wisconsin1

(F147) How Clean Is the OR? Endocarditis From a Bypass Circuit Contaminant!
Yi Cai, MD1; Johnathan Ross Renew, MD2; Mayo Clinic Jacksonville1; Mayo Clinic Florida2

(F148) Purposeful Transection of Aorta for Pulmonary Artery Repair and Postoperative Tamponade: A Case for Continuous Transesophageal Echocardiography
Andrew Maresch, MD1; Katie Goergen, MD1; University of Nebraska Medical Center1

(F149) Hemodynamic Collapse From Carbon Dioxide Embolism During Saphenous Vein Harvest
James McCowen, CRNA1; Emily Penick, MD1; Visal Patel, MD MS1; Fred Cobey, MD MPH FASE1; Stefan Ianchulev, MD1; Tufts Medical Center1

(F150) Postcardiomyotomy Extracorporeal Membrane Oxygenation in a Jehovah’s Witness
Leigh Hickerson, MD1; David Barbara, MD1; Shane Gillespie, DO1; James Nelson, MBBS1; Mayo Clinic1

(F151) Intraoperative Characterization of a Left Ventricular Pseudoaneurysm With Transesophageal Echocardiography for Surgical CardioCel Patch Closure
Matthew Moen, MD1; Joshua Herborn, MD1; Northwestern Memorial Hospital1

(F152) Successful Management of Cardiopulmonary Bypass With Cardiac Arrest in a Patient With Cold Urticaria
James Nelson, MBBS1; William Mauermann, MD1; Mayo Clinic1

(F153) Acute Left Atrial Dissection During Aortic Valve Replacement
Brian Tolly, MD1; Aaron Reynolds, MD1; Northwestern University Feinberg School1

(F154) Robotic Mitral Valve Repair in a Patient With Prior CABG and Mitral Valve Annuloplasty
Joseph Kimmel, MD1; Jennie Ngai, MD2; Robert Nampiaparampil, MD2; New York University1; New York University Langone Medical Center2

(F155) To Operate or Not to Operate: Cardiac Papillary Fibroelastoma on a Bicuspid Aortic Valve
Andrea Maria Corujo Rodríguez, MD1; Elizabeth Lee Herrera, MD1; University of Texas Health Science Center1; Houston Methodist Hospital2

(F156) Transesophageal Echocardiography Is an Integral Modality in the Diagnosis of Two Unique Gerbode Defects: A Case Comparison and Echo Correlation
Emily Mackay, DO1; Emily K. Gordon, MD MSED1; Jared Feinman, MD1; Hospital of the University of Pennsylvania1; Perelman School of Medicine at the University of Pennsylvania2

(F157) TEE Rescue in the Hybrid OR
John McGroarty, MD MS1; Anand Mehta, MD2; Cleveland Clinic Foundation1; Cleveland Clinic2

(F158) HeartWare Ventricular Assist Device Implantation With Outflow Graft to Left Subclavian Artery in Patient With Previous Bentall Procedure
Aaron Lim, MD1; Andrew Green, MD MSHA1; Mohammed Quader, MD2; Virginia Commonwealth University Health1; Virginia Commonwealth University2

(F159) A Case Report of Ascending Aortic IABP Insertion; Alternative to Retrograde Femoral Route
Ashish Amatya, MD; Shahid Gangalal National Heart Center

(F160) VATS Resection of an Ectopic Parathyroid Gland Overlying the Main Pulmonary Artery in a 14-Week Pregnant Female
Jan-Pablo Kollmar, MD1; Amanda Kleinman, MD1; University of Virginia1

(F161) Epicardial Ventricular Tachycardia Ablation in a Patient With Chagas Disease Complicated by Biventricular Heart Failure Requiring IntraOp Impella Support
Hooman Heravi, MD1; Amanda Fox, MD MPH1; University of Texas Southwestern Medical Center1

(F162) A Case of Tacrolimus-Induced Thrombotic Thrombocytopenic Purpura in a Heart-Liver En BLOC Transplant Patient
Rebecca Lee, MD1; Jayanta Mukherji, MD1; Brian Maxfield, DO1; Jarva Chow, MD MS MPH1; Loyola University Medical Center1

(F163) Management of Acute Papillary Muscle Rupture: Decision Making and Device Support
Eva Litvak, MD1; Agnieszka Lesicka, MD1; Alexander Kuo, MD1; Massachusetts General Hospital1

(F164) Rescue Cell Salvage During Emergent TEVAR in a Jehovah’s Witness
Michael Busada, DO1; Joshua Baisden, MD1; Daniel Cormican, MD1; Allegheny Health Network1; Allegheny General Hospital1

(F165) Patent Ductus Arteriosus Causing Left Ventricular Distension During Cardiopulmonary Bypass
Brandon Caddell, DO1; Daniel Tolpin, MD1; Texas Heart Institute1

(F166) Aortobronchial Fistula Following Thoracic Aortic Aneurysm Repair
Ashley Budd, MD1; Christopher Schiff, MD1; Saadia Sherwani, MD MS1; Northwestern University1; Northwestern Memorial Hospital1; Northwestern Medicine3

(F167) Unique Application of Left Cervical Stellate Ganglion Block for Recurrent Ventricular Tachycardia (Electrical Storm)
Mona Patel, MD; Loyola University Medical Center

(F168) Tamponade of Left Mainstem Bronchial Hemorrhage With a Double-Lumen Endotracheal Tube
Sara Strowd, MD MPH1; Irwin Brown, DO1; Mina Oftadeh, DO1; Loyola University Medical Center1

(F169) Pulmonary Band Revision in a Patient with Double Inlet Left Ventricle
Jennifer Hansen, MD1; Kara Siegrist, MD1; Julian Bick, MD2; Vanderbilt University Medical Center1; Vanderbilt University2
Fellow/Resident Complex Case Presentations

(F170) Enlarged Coronary Sinus Discovery After Bacterial Endocarditis Diagnosis
Christo Frangopoulos, MD1; Morgan Marino, MD2; Meena Bhatt, MD2; University of North Carolina1; UNC Hospitals, Department of Anesthesiology2

(F171) A Novel Cause of Percutaneous Ventricular Assist Device Failure in a Patient With Cardiogenic Shock After Myocardial Infarction
Jennifer Smith, MD1; Julie Wyrobek, MD1; Steve Singh, MD MSc FRCSC1; Doug Shook, MD FASE1; Brigham and Women's Hospital1

(F172) Anesthetic Implications of an Adult Patient With Uncorrected Pentalogy of Fallot Undergoing Debrideiments of a Lower Extremity Wound
Jennifer Kaplan, MD1; Patrick Odonkor, MD1; Ashanpreet Grewal, MD1; University of Maryland1; University of Maryland Medical Center2

(F173) Aortic Stenosis Due to Unicuspid Aortic Valve
Nathaniel Smith, MD1; Benjamin Tuck, MD1; University of Alabama at Birmingham1

(F174) Left Atrial Dissection After Mitral Valve Repair
Warren Spitz, MD1; Prakash Patel, MD2; Jonathan Fogel, MD1; Jared Feinman, MD1; Stuart Weiss, MD PhD2; John Augoustides, MD FASE FAHA1; Jacob Gutsche, MD1; Hospital of the University of Pennsylvania1; University of Pennsylvania2; Perelman School of Medicine at the University of Pennsylvania3

(F175) Unilateral Pulmonary Edema Due to Acute Severe Mitral Regurgitation
Daryl Banton, MD1; Zaha Malik, MD2; Daniel Lahm, MD2; Weill Cornell Medical College1; Weill Cornell Medical Center2; New York Hospital2

(F176) Traumatic Tracheal Perforation From Crush Injury: Anesthesia and Surgical Considerations
Dan Rosenkranz, MD1; Lavinia Kolarczyk, MD1; Jason Long, MD MPH1; University of North Carolina1

(F177) When Mom Needs a Little Support: Postpartum Extracorporeal Membrane Oxygenation
Wendy Smith, MD2; Jessica Tashjian, MD2; Kathryn Rouine-Rapp, MD2; University of California, San Francisco1; UCSF Department of Anesthesia2

(F178) Tricuspid Valve Clipping Using Mitraclip System
Alexander Shapeton, MD1; Abirami Kumaresan, MD1; Feroze Mahmood, MD FASE1; Beth Israel Deaconess Medical Center1

(F179) Levo-Transposition of the Great Vessels With Dextrocardia and Situs Inversus Undergoing Systemic AV Repair
Ibrahim Warsame, MD1; Joseph Kuhn; Galina Dimitrova, MD2; Ashley Yager, MD2; The Ohio State University Wexner Medical Center1; The Ohio State University2

(F180) Unroofed Coronary Sinus Complicates Two Vessel Coronary Artery Bypass Graft Surgery
Joseph Wright, MD1; Huayong Hu, MD1; Loma Linda University Medical Center1

(F181) Platypnea Orthodeoxia and Hyperhomocysteinemia: Rare Disease States in a Patient Presenting for Aortic Root Repair
Blake Watterworth, MD1; Seema Deshpande, MBBS MMBS2; University of Maryland Medical Center1; University of Maryland School of Medicine2

(F182) A Tale of Three Valves: Intraoperative Diagnosis and Anesthetic Management of Acute Prosthetic Complications in Transcatheter Mitral Valve Replacement Using Melody® Valve
Cheuk Yin Lai, MD1; Himani Bhatt, DO MPA FASE1; Icahn School of Medicine at Mount Sinai1

(F183) Cardiac Lymphangioma Involving Aortic Root
Michael Dorbad, DO1; Ashley Kass; Barry Marks, DO1; Bradford Cardorell, MD1; Geisinger Medical Center2

(F184) Atrial-Oesophageal Fistula: A Rare and Fatal Complication After Ablation Procedure
Teri Zhang, MD1; Jayesh Patel, MD1; University of Southern California1; University of South Carolina Keck Hospital2

(F185) Early Distortion Following Sutureless Aortic Valve Implantation
Tanaya Sparkle, MBBS1; Elizabeth Lee Herrera, MD3; University of Texas Health Science Center1; Houston Methodist Hospital2

(F186) Bedside Ultrasound Facilitates Detection of Femoral Occlusive Septic Emboli
Melissa Bellomy, MD1; Yafan Liang, MD1; Mias Pretorius, MBCHB1; Susan Eagle, MD1; Irida Nikolai, MD1; Vanderbilt University Medical Center1; Vanderbilt University

(F187) A Case of Drug-Refractory Sustained Ventricular Tachycardia in Cardiogenic Shock Complicating Acute Myocardial Infarction
Bhounesh Patel, MD1; Brian Raffel, DO1; Sha Tanaka, MBBS BAO1; Achillina Rianto, MD1; Sajjad Ibrar, MD1; Huy Nguyen, MD1; Amanda Zarchin, MD1; Rutgers Robert Wood Johnson Medical School1

(F188) Subluxation and Fracture of Multiple Teeth in a Patient Undergoing a Descending Thoracic Aneurysm Repair Using Muscle Motor Evoked Potential Monitoring With a Transesophageal Echocardiography Probe and Commercial Bite Block in Place
Darren Hyatt, MD1; Michael Duggan, MD1; Emory University1

(F189) Sapien XT Valve Placement in the Inferior Vena Cava for Severe Tricuspid Regurgitation and IVC Stenosis
Mark Bomblie, MD1; Kara Siegrist, MD1; Yafan Liang, MD1; Vanderbilt University Medical Center1

(F190) Utilizing Echocardiography to Guide Anesthetic and Surgical Management for a Challenging Pericardial Biopsy
Brian Cho, MD1; Brian Bush, MD1; Keri Koszela, MD2; Mary Beth Brady, MD FASE1; Johns Hopkins University School of Medicine1; Johns Hopkins University2

(F191) Anesthesia for Left Mainstem and Carinal Resection Necessitating Extracorporeal Circulation: A Challenging Case
Bradford Smith, MD1; Gregory Nuttall, MD1; Mark Smith, MD1; Mayo Clinic1; Mayo Clinic College of Medicine2

(F192) Veno-Venous Extracorporeal Membrane Oxygenation as Treatment for Massive Pulmonary Embolism
Sunbren Murphy, DO1; Jacob Gutsche, MD2; Prakash Patel, MD1; Jesse Raiten, MD1; William Vernick, MD1; John Augoustides, MD FASE FAHA1; University of Pennsylvania1; Perelman School of Medicine at the University of Pennsylvania2; Hospital of the University of Pennsylvania3

(F193) Successful Management of Balloon Rupture During Transcatheter Aortic Valve Replacement (TAVR)
Nishank Patel Nooli, MD1; Sandeep Krishnan, MD2; Wayne State University1; Wayne State University School of Medicine2
(F194) Combined Impella 5.0 Device and Intra-Aortic Balloon Pump for Management of Cardiogenic Shock
Hina Faisal, MD1; Fares Raslan, MD FASA FASE2; Case Western Reserve University1; Cleveland VA Medical Center2

(F195) Hypotension Secondary to Paravertebral Spread of Intercostal Block Using Exparel During Lateral Thoracotomy
Omar Al-Qudsi, MD1; Mina Oftadeh, DO1; Jenny Kwak, MD1; Loyola University Medical Center1

(F196) Simultaneous Transcatheter Mitral and Aortic Valve Replacements for Severe Bioprosthetic Valve Failure
Joseph Bracker, DO1; Harry Garcia, MD1; Prakash Patel, MD1; Jared Feinman, MD1; Hospital of the University of Pennsylvania Hospital1; University of Pennsylvania1

(F197) Survival of a Massive Intraoperative Pulmonary Thromboembolism Treated With Intraoperative Alteplase and Subsequent Veno-Arterial Extracorporeal Membrane Oxygenation
Kendal Richard, MD1; Ioanna Apostolidou, MD2; Lida Trillos, MD1; Monica Lupei, MD1; University of Minnesota1; University of Minnesota-Fairview1

(F198) A Rare Case of an Anomalous Left Coronary Artery From the Pulmonary Artery in an Adult
Belinda Lee, MD1; Ioanna Apostolidou, MD2; Matthew Culling, MD2; University of Minnesota1; University of Minnesota-Fairview1

(F199) Tracheoinnominate Fistula! We Aren’t Ventilating…Again!
Gerald Kirenga, MD1; Jill Lanahan, MD1; University of Rwanda1; King Faisal Hospital2

(F200) Dynamic Tracheal Obstruction From a Posterior Mediastinal Hematoma
Gregory Maves, MD1; Lavinia Kolarczyk, MD1; University of North Carolina1

(F201) Postpartum Coronary Artery Dissection Treated With Percutaneous Coronary Intervention and Temporary Left Ventricular Assist Device
Lauren Farac, MD1; Ying Zeng1; Cedars-Sinai Medical Center1

(F202) Ruptured Sinus of Valsalva Aneurysm Initially Misdiagnosed as Ventricular Septal Defect
Rachel Roberts, MD1; Bryan Hienhmeier, MD1; Henrique Vale, MD1; University of Mississippi Medical Center1

(F203) Acute Aortitis and Associated Myotic Aneurysm After Recent Endovascular Repair
Elizabeth Urageman, MD MS1; Mahesh Sardesai, MD MBA1; University of Pittsburgh Medical Center1; University of Pittsburgh2

(F204) Embolic Strokes in a Young Patient: Multiple Cardiac Papillary Fibroelastomas
Tina Law, DO1; Walter Bethune, MD1; Maimonides Medical Center1

(F205) Right Video Assisted Thoracoscopic Lung Resection After Previous Left Pneumonectomy
Nick Shah, MD1; Arvind Rajagopal, MBBS2; Rush University Medical Center1

(F206) Left Ventricular Rupture Following Mitral Valve Replacement
Peter Sofia, MD; Loyola University Medical Center

(F207) Right Coronary Artery Fistula to the Right Atrium
Jaspreet Lamba, MD1; Michelle Sumler, MD2; Emory University1; Emory University School of Medicine2

(F208) Intraoperative Cardiac Arrest During Transcatheter Aortic Valve Implantation
David Bisling, MD1; Pierre LeVan, MD1; Mina Oftadeh, DO2; Michael Majewski, MD1; Loyola University Medical Center1

(F209) Transcatheter Aortic Valve Replacement During On-Pump CABG
Norbert Rios, MD1; Mark Nelson, MD MEd1; Vigneshwar Kasirajan, MBBS2; Virginia Commonwealth University1; VCU Health2

(F210) Left Ventricular Outflow Tract Obstruction Postmitral Valve Replacement
Nicole Webb, MD FRCPC; Mazankowski Heart Institute

(F211) Unique Anchoring Technique for TMVR Using a Sapien Valve
Sarah Ellis, MD1; Ovidiu Moise, MD2; Warren Choi, MD1; UTHealth1; University of Texas McGovern School of Medicine2; University of Texas Houston3

(F212) Severe Bronchospasm at the Conclusion of Cardiopulmonary Bypass
Gunleen Sidhu, MD1; Andrey Apinis, MD1; Montefiore Medical Center1

(F213) Use of Perioperative Ultrasound and Echocardiography in the Setting of Cardiac Arrest and Hemodynamic Instability During Attempted Open Abdominal Aortic Aneurysm Repair
Kiran Belani, MD1; Alexander Shapeton, MD1; Feroze Mahmood, MD FASE1; Robina Matyal, MD1; Beth Israel Deaconess Medical Center1

(F214) Transcatheter Aortic Valve Replacement in a Patient With Child-Turcotte-Pugh Grade B Hepatic Cirrhosis.
William Watson, MD1; Michael Fabbro, DO1; Giselle Baquero, MD2; Eduardo DeMarchena, MD1; Jackson Memorial Hospital1; University of Miami2; University of Miami Miller School of Medicine1

(F215) Three-Dimensional Transesophageal Echocardiography Was Superior to Two-Dimensional Techniques in Guiding Catheter-Based Aspiration Thrombectomy of Massive Pulmonary Embolism
Sagar Mungekar, MD1; Jennifer Cowell, MD1; Antonio Chirico, MD1; Rutgers Robert Wood Johnson Medical School

(F216) Ghanaian Tetralogy of Fallot
Elliott Woodward, MD1; VIPin Mehta, MD FFARCSI1; Massachusetts General Hospital1

(F217) Transcatheter Aortic Valve Replacement to Treat Aortic Insufficiency in a Patient With a Left Ventricular Assist Device
Katherine Kozairek, MD1; Mohammed Minhaj, MD MBA1; University of Chicago2

(F218) Transient Myocardial Swelling in Heart Transplant Following Transport With Normothermic Machine Perfusion
Dustin Palm, MD1; Ioanna Apostolidou, MD1; Daniela Orza, MD1; Mathew Culling, MD1; University of Minnesota Medical Center1; University of Minnesota-Fairview1; University of Minnesota2

(F219) Percutaneous Coronary Intervention and Temporary Left Intercostal Block Using Exparel During Lateral Thoracotomy
Omar Al-Qudsi, MD1; Mina Oftadeh, DO1; Jenny Kwak, MD1; Loyola University Medical Center1

(F220) Right Video Assisted Thoracoscopic Lung Resection After Previous Left Pneumonectomy
Nick Shah, MD1; Arvind Rajagopal, MBBS2; Rush University Medical Center1

(F221) Unique Anchoring Technique for TMVR Using a Sapien Valve
Sarah Ellis, MD1; Ovidiu Moise, MD2; Warren Choi, MD1; UTHealth1; University of Texas McGovern School of Medicine2; University of Texas Houston3

(F222) Severe Bronchospasm at the Conclusion of Cardiopulmonary Bypass
Gunleen Sidhu, MD1; Andrey Apinis, MD1; Montefiore Medical Center1

(F223) Use of Perioperative Ultrasound and Echocardiography in the Setting of Cardiac Arrest and Hemodynamic Instability During Attempted Open Abdominal Aortic Aneurysm Repair
Kiran Belani, MD1; Alexander Shapeton, MD1; Feroze Mahmood, MD FASE1; Robina Matyal, MD1; Beth Israel Deaconess Medical Center1

(F224) Transcatheter Aortic Valve Replacement in a Patient With Child-Turcotte-Pugh Grade B Hepatic Cirrhosis.
William Watson, MD1; Michael Fabbro, DO1; Giselle Baquero, MD2; Eduardo DeMarchena, MD1; Jackson Memorial Hospital1; University of Miami2; University of Miami Miller School of Medicine1

(F225) Three-Dimensional Transesophageal Echocardiography Was Superior to Two-Dimensional Techniques in Guiding Catheter-Based Aspiration Thrombectomy of Massive Pulmonary Embolism
Sagar Mungekar, MD1; Jennifer Cowell, MD1; Antonio Chirico, MD1; Rutgers Robert Wood Johnson Medical School

(F226) Ghanaian Tetralogy of Fallot
Elliott Woodward, MD1; VIPin Mehta, MD FFARCSI1; Massachusetts General Hospital1

(F227) Transcatheter Aortic Valve Replacement to Treat Aortic Insufficiency in a Patient With a Left Ventricular Assist Device
Katherine Kozairek, MD1; Mohammed Minhaj, MD MBA1; University of Chicago2

(F228) Transient Myocardial Swelling in Heart Transplant Following Transport With Normothermic Machine Perfusion
Dustin Palm, MD1; Ioanna Apostolidou, MD1; Daniela Orza, MD1; Mathew Culling, MD1; University of Minnesota Medical Center1; University of Minnesota-Fairview1; University of Minnesota2

(F229) Transesophageal Echocardiography Guidance for Transcatheter Correction of Mitral Paravalvular Leak After Transcatheter Mitral Valve Replacement (TMVR) Using an Occlusion Device
Alexander Bailey, MD1; Moody Makar, MD1; Cedars Sinai Medical Center1
Fellow/Resident Complex Case Presentations

(F220) Unicuspid Aortic Valve Diagnosed by Transesophageal Echocardiography During Aortic Valve Replacement
Graham Berry, MD1; Priya Kumar, MD1; University of North Carolina1

(F221) Use of TEE and Fluoroscopy to Facilitate Percutaneous Cardioplegic Arrest Prior to Sternal Re-Entry in a Patient With a Large Retro-Sternal Ascending Aortic Pseudoaneurysm
Bradley Hammond, DO2; Anand Mehta, MD2; Cleveland Clinic Foundation1; Cleveland Clinic2

(F222) Massive Pulmonary Embolism: Medical and Ethical Decision Making for VA ECMO
Lacey Straube, MD1; Vishal Dhandha, MD1; Robert Isaak, DO1; Bryant Murphy; Lavinia Kolarczyk, MD1; University of North Carolina1

(F223) Degenerative Mitral Stenosis: Clinical Implications and the Caveats and Pitfalls of Echocardiographic Evaluation
Craig Davis, MD1; Andrej Alfrevic, MD FASE1; Cleveland Clinic1

(F224) Disaster Averted: Spectacular Prosthetic Mitral Valve Dehiscence Without Insufficiency
Nathaniel Brown, MD PhD1; Tamas Seres, MD2; University of Colorado1; University of Colorado Denver2

(F225) Can I Go Home With That Balloon Pump?
Samit Ghia1, Mark Chaney, MD1; Valluvan Jeevanandam, MD1; University of Chicago1

(F226) Intracardiac Thrombus Following Recombinant Factor VIIa Administration
Vincent Reformato, MD1; Faraz Chaudhry1; Rutgers New Jersey Medical School1

(F227) Veno-Arterial ECMO as a Bridge to Surgical Repair in the Setting of Post-Infarct Ventricular Septal Defect
Regina Linganna, MD1; Jared Feinman, MD2; University of Pennsylvania1; Hospital of the University of Pennsylvania2

(F228) Concurrent Administration of Activated Recombinant Coagulation Factor VII (NovoSeven RT®) and Prothrombin Complex Concentrate (Kcentra®) to Treat Refractory Coagulopathic Hemorrhage Following Aortic Valve Replacement, Ascending Aortic Arch Dissection Repair, and Coronary Bypass Graft
Christopher Larson, DO1; Baylor Scott and White

(F229) Resection of Multiple Giant Coronary Aneurysms in a Blood Refusal Patient
Martin Sigurdsson, MD PhD1; Claire Cunniff, MD1; Carmelo Milano, MD2; Nicole Guinn, MD1; Brandi Bottiger, MD2; Duke University Hospital1; Duke University2

(F230) Acquired Mechanical Left Ventricular Inflow Restriction After Orthotopic Heart Transplantation
Maria Bauer, MD1; Nadia Hensley, MD1; Johns Hopkins University1

(F231) Transesophageal Echocardiography Findings and Intraoperative Management of Uncommon Robotic Assisted Anterior Mitral Valve Mass Resection
Matthew Troum, DO1; Eric Wilkens, MD MPH1; Temple University Hospital1; Temple University Hospitals2

(F232) Aorto-Pulmonary Artery Fistula After Orthotopic Heart Transplant
Ahmad Itani, DO1; Prabhkiran Nakai, MD1; Raj Modak, MD1; Henry Ford Hospital1

(F233) Approach to Post-Infarction VSD in the Hemodynamically Unstable Patient
Dustin Cooperman, MD1; Galina Levyi, MD1; Jonathan Leff, MD1; Stephen Forest, MD1; Montefiore Medical Center1

(F234) Severe Re-Expansion Pulmonary Edema Successfully Managed with Extracorporeal Membrane Oxygenation After Large Pleural Tumor Resection
James Leonard, MD1; Michael Swong, MD1; Anna Jankowska, MD1; New York University Langone Medical Center1; New York University School of Medicine2

(F235) Intraoperative TEE for Combined Heart and Kidney Transplant in a Patient With Fabry Disease
Ryan Suda, MD1; Swapnil Khoeche, MD1; University of California, San Diego1

(F236) Early Detection and Management of Massive Intraoperative Pulmonary Embolism in a Patient Undergoing Repair of a Traumatic Aortic Aneurysm
Tobechi Okoronkwo, MD1; Matthew Wecksell, MD1; Jessica Dworet, MD1; Westchester Medical Center1

(F237) Ruptured Sinus of Valsalva Aneurysm Presenting With Myocardial Ischemia and Cardiogenic Shock
Elizabeth Kent, MD1; Daniela Orza, MD1; University of Minnesota1

(F238) Extracorporeal Membrane Oxygenation as a Bridge to Recovery for Acute Rejection in a Heart Transplant Patient
John Hamilton, MD1; Theresa Gelnis, MD1; University of Pittsburgh Medical Center1; University of Pittsburgh2

(F239) Unexpected Severe Pulmonary Hypertension Complicating Single Lung Transplantation
Michael Potter, MD1; Andrew Schroeder, MD1; Richard Wolman, MD MA1; University of Wisconsin School of Medicine1

(F240) Salvage Coronary Artery Bypass Grafting and ECMO Bridge to Decision
Allison Janda, MD1; Meredith Kingeter, MD1; Brian Gelfand, MD1; Vanderbilt University Medical Center4

(F241) Vigilance in the Immediate Postoperative Period Following Type A Dissection Repair: A Case of Sudden Lower Extremity Ischemia
Pavel Shapiro, MD1; Matthew McConnell, MD1; Allegheny Health Network1

(F242) Management of a Patient With Aortic Stenosis and Left Ventricle Outflow Tract Obstruction: A Multidisciplinary Approach
Andrew Scharf, MD1; Joseph Abro, MD1; James Abernathy, MD MPH FASE FAHA1; Medical University of South Carolina4

(F243) Curious Cause of Systolic Anterior Motion: Congenital Mitral Valve Leaft Causing Dynamic LVOT Obstruction
Mehran Ebadi-Tehrani, MD1; Jack Shanewise, MD FASE1; Columbia University Medical Center1

(F244) Left Atrial Dissection in AVR/CABG Secondary to Retrograde Catheter Placement
Taylor Carter, MD; Kansas University Physicians Inc.

(F245) Anticoagulation (AC) Management in a Patient With Protein C Deficiency and Hyperhomocysteinemia with End-Stage Heart Failure (HF) and Left Ventricular Assist Device (LVAD) Thrombus
Andrew Anderson, DO1; Diane Head, MD1; University of Wisconsin Hospital and Clinics1; University of Wisconsin-Madison1
Fellow/Resident Complex Case Presentations

Saturday, April 22, 5–6 pm (continued)

(F246) Perioperative Management of Aorto-Pulmonary Fistula Associated With Pseudoaneurysm
Zahid Merchant, MD1; Sreekanth Cheruku, MD; Amanda Fox, MD MPH1; University of Texas Southwestern Medical Center1

(F247) Under Pressure: Management and Intraoperative TEE Imaging for Pericardectomy in the Setting of Constrictive Pericarditis
Gregory Mickus, MD1; Archer Martin, MD1; Jose Diaz-Gomez, MD; Mayo Clinic Florida1; Mayo Clinic2

(F248) Spinal Drain Placement in the Management of Extrapleural Pneumonectomy After Preoperative Descending Thoracic Aorta Endograft Placement
Christopher Owsiak, MD1; Daniel Tolpin, MD1; Texas Heart Institute, Baylor St. Luke’s Medical Center

(F249) Perioperative Management of an Adult With Double Inlet Left Ventricle and Pulmonary Atesia
Joseph Graham, MD1; Sreekanth Cheruku, MD; Eugene Chung, DO1; University of Texas Southwestern Medical Center1

(F250) Intraoperative Inverted Left Atrial Appendage on Echocardiogram After Cardiac Transplantation
Bradley Graustein, MD1; Tara Humphrey, DO; University of Southern California1; Keck Hospital of University of Southern California2

(F251) Epicardial Echocardiographic Guided Perventricular Repair of a Ventricular Septal Rupture in a Patient With an Impella and RVAD
Kristi Lorenzen, MD1; Nicholas Markin, MD FASE1; Tara Brakke, MD FASE1; University of Nebraska Medical Center1; University of Nebraska2

(F252) Mitral Valve Replacement and Mymectomy During ECMO Therapy
Qasim Al Hassan, MD1; Mathew Waldran1; University of Missouri-Kansas City1

(F253) Intimo-Intimal Intussusception: TEVAR During TAVR
Thuon Ho, MD1; Jessica Brodtt, MD1; Stanford Health Care1; Stanford University

(F254) Systolic Anterior Motion of the Mitral Valve Following Separation From Cardiopulmonary Bypass After Cardiac Transplantation
David Garcia, DO MS1; Jenny Kwak, MD1; Loyola University Medical Center1

(F255) Intraoperative Diagnosis of a Rare Sinus of Valsalva Pseudoaneurysm in a Patient With Bicuspid Aortic Valve Associated Aortopathy
Albert Tsai, MD1; Sheela Pai Cole, MD1; Stanford University1

(F256) Interesting Presentation of Heparin Induced Thrombocytopenia After Mitral Valve Replacement
Abirami Kumarasan, MD1; Peter Panzica, MD1; Beth Israel Deaconess Medical Center1

(F257) Stable Ventricular Fibrillation During LVAD Support
Juan Diaz Soto, MD1; Shane Gillespie, DO1; David W. Barbara, MD1; Mayo Clinic1

(F258) Diagnosis of a Right Ventricular Injury in a Patient With Cardiac Tamponade
Shawn Falitz, MD1; Andrea Duncan, MD MS1; Donn Marciniak, MD1; Cleveland Clinic Foundation1; Cleveland Clinic2

(F259) Combined Left Ventricular Reconstruction With HeartMate II Left Ventricular Assist Device Implantation as Bridge-to-Transplant Therapy
Omar Kremen, MD1; Christopher Tanaka, MD1; Montefiore Medical Center1; Montefiore Medical Center/Albert Einstein College of Medicine1

(F260) Multidisciplinary Team Management of a Rare Event of Infective Endocarditis in Pregnancy
Huan Wang, MD1; Adam Weinstein, MD1; Katherine Economy, MD MPH1; Dirk Varelmann, MD1; Brigham and Women’s Hospital1

(F261) Mechanical Problem Mimicking Significant Regurgitation Posttricuspid Valve Repair
Mary Margaret Lim, MD1; Theresa Gelzinis, MD1; Elizabeth Ungerman, MD MS1; University of Pittsburgh1; University of Pittsburgh Medical Center2

(F262) Pulmonary Embolism During a Sickle Cell Crisis
Jessica Lumsiiden, DO1; Eda Ginsburg, MD1; Jeongae Yoon, MD1; Temple University Hospital1; Temple University2

(F263) Emergency Transcaval TAVR for Afterload Reduction in Cardiogenic Shock
Shawn Patel, DO1; Naushad Ahmed, DO1; Michael Isley, MD1; Jayakar Guruswamy, MD1; Henry Ford Hospital1

(F264) Lung Transplantation in a Patient With History of Acquired Hemophilia A
Laura Gonzalez, MD1; Andrew Schroeder, MD1; Richard Wolfman, MD MA1; University of Wisconsin1; University of Wisconsin School of Medicine2

(F265) Complex Redo MitraClip: Role of TEE in Procedural Image Guidance and Novel Use of an Amplatz Septal Occluder
Tiffany Perry, MD1; Mark Reisman, MD1; Srdjan Jelacic, MD1; James McCabe, MD1; G. Burkhard Mackensen, MD PhD FASE1; University of Washington1

(F266) A Mitral Valve Replacement Was Aborted: Patient With Occult Aortic Coarctation, Patent Ductus Arteriosus, and Eisenmenger Syndrome
Justin Schulte, MD1; Tomas Seres, MD1; Brendan Sullivan, MD1; University of Colorado1; University of Colorado Denver2

(F267) Attempted Endovascular Repair of a Crawford Type Two Thoracoabdominal Aortic Aneurysm Complicated by Congenital Aortic Ring
Jennifer Evansmith, MD1; Phillip Krapchev1; University of Massachusetts Medical Center1

(F268) TEE-Guided Usage of SVC Occlusion Balloon in the Management of SVC Laceration Following Laser Extraction of Implantable Cardioverter Defibrillator Lead
Mark Rabitaile, MD1; Diane Head, MD1; University of Wisconsin Hospital and Clinics1; University of Wisconsin-Madison1

(F269) Anesthetic Management of an Acute Submassive Saddle Pulmonary Embolectomy
Sara Brown, MD1; Srikantha Rao, MD MBBS MS1; Scott Tiedebohl, MD1; Penn State Hershey Medical Center1
Fellow/Resident Complex Case Presentations

(F270) Formation of Malformation: Pulmonary Arteriovenous Malformations in the Setting of Post-Glenn Procedure Pulmonary Hypertension
Jordan Gozdzialski, MD1; Austin Adams, MD1; Sasha Shillcutt, MD MS FACE2; Nicholas Markin, MD FACE2; University of Nebraska Medical Center1; University of Nebraska2

(F271) Acute Coronary Artery Occlusion by Primary Surgical Aortic Valve Leaflet During Valve-in-Valve Transcatheter Aortic Valve Replacement
Christopher Owen, MD1; Logan Kosarek, MD2; Ochsner Clinic Foundation1; Ochsner2

(F272) Intraoperative Diagnosis of Pulmonary Embolism and Deep Venous Thrombosis Using Point-of-Care Ultrasound and Transesophageal Echocardiography in Lung Transplant Recipient
Vladyslav Melnyk, MD1; Dennis Phillips, DO2; Stephen Esper, MD MBA2; Travis Schisler, MD FRPCPC3; Kathirvel Subramaniam, MD MPH4; University of Pittsburgh Medical Center1; University of Pittsburgh2; University of British Columbia3

(F273) TAVR in an LVAD Patient as Bridge to Recovery
Wendy Ma, MD1; Jessica Brodt, MD1; Stanford Health Care1; Stanford University2

(F274) Role of TEE in Placement of Percutaneous Right Ventricular Assist Device
Matthew Sabo, MD; University of Rochester

(F275) Conversion From Robotic MVR to Open MVR Due to Intraoperative TEE Finding of New Echodensity
Neil Kalariya, MD1; Joshua Baisden, MD2; Daniel Cormican, MD1; Allegheny Health Network1; Allegheny General Hospital2

(F276) A Novel Use for the Teleflex® Arrow Multilumen Access Catheter (MAC) in the Conduct of Minimally Invasive Aortic Valve Surgery in a Patient With Difficult Cardiopulmonary Bypass Cannulation
Joseph Webb, MD1; Chen Shi, MD1; Amanda Fox, MD MPH1; Ravi Joshi, MD1; University of Texas Southwestern Medical Center1

(F277) Subacute Pericardial Effusion in Left Ventricular Free Wall Rupture After Acute Myocardial Infarction
Jared Hooks, MD1; Michael Haske, MD1; Loyola University Medical Center1

(F278) Ascending Aortic Dissection in a 24-Week Pregnant Woman
Jacob Lessing, MD1; Benjamin Tuck, MD1; University of Alabama at Birmingham1

(F279) Combined Operative and Endovascular Management of Complex Stanford Type A Aortic Dissection
Austin Pulliam, MD1; Sanjeev Chhangani, MD MBA2; University of Florida, Jacksonville1; University of Florida College of Medicine, Jacksonville2

(F280) Transesophageal Echocardiographic Evaluation and Guidance During Placement of the Left Ventricle Parachute® Device
Joshua Kohtz, MD1; Lisa Qia Rong, MD2; Nikolaos Skubas, MD DSc FACC FACE2; Weill Cornell Medicine1

(F281) Atrio-Esophageal Fistula After a Video-Assisted Thoracoscopic Maze Procedure: Is EGD a Contraindication?
Robert Medearis, DO1; Muhammad Salman Janjua, MBBS2; Ankit Jain, MD3; Shvetank Agarwal, MD FACE4; Augusta University Medical Center/ Medical College of Georgia1; Augusta University2

(F282) Successful Extraction of Right Atrial Thrombus by Angiovac System under TEE Guidance
Michael Kissen, MD1; Rebecca Aron, MD1; Danny Ramzy, MD PhD FRCSC; Cedars-Sinai Medical Center1

(F283) Worsening of Preexisting Left Ventricular Outflow Obstruction After Transcatheter Aortic Valve Replacement
Laura Zung, MD1; Rebecca Aron, MD1; Cedars-Sinai Medical Center1

(F284) Management of Mitral Clip Detachment in an Elective Mitral Valve Clipping
Philip Dela Merced, MD1; Sandeep Krishnan, MD2; Wayne State University1; Wayne State University School of Medicine2
SCA thanks the following sponsors of the 39th Annual Meeting & Workshops:

**Platinum**

**Gold**

**Bronze**

**Refreshment Break Sponsor:**
National Board of Echocardiography, Inc.
Commercial Support

SCA thanks the following companies for providing an educational grant and/or in-kind equipment support for the 2017 educational workshops:

AMBU
Abbott
Abbott Vascular
Biomed Simulation
Blue Phantom/CAE Healthcare
Boston Scientific
CAE Healthcare
CardiacAssist, Inc.
Edwards Lifesciences
GE Healthcare
GETINGE Group
HeartWorks
Laerdal Medical Corporation
Medtronic
Medtronic Cardiac Surgery
Philips Healthcare
Siemens
Teleflex

Exhibits Information

The following events will take place in the Exhibit Hall.

Saturday, April 22
Exhibits Open Noon–4 pm
Lunch Noon–1 pm
Coffee Break 3:30–4 pm

Sunday, April 23
Exhibits Open 7 am–3:30 pm and 5:30–6:30 pm
Breakfast 7–8 am
Coffee Breaks 10:30–11 am and 3–3:30 pm
Lunch 12:30–1:30 pm
Reception 5:30–6:30 pm

Monday, April 24
Exhibits Open 7–10:30 am
Breakfast 7–8 am
Coffee Break 10–10:30 am

Exhibitors

Exhibitor Booth #  Exhibitor Booth #
Abbott Structural Heart 415 Karl Storz Endoscopy-America, Inc. 314
Anesthesiology News 201 Masimo Corporation 202
Biomed Simulation 413 Medtronic 209
CASMED 301 Mennen Medical 411
Cerus 401 Mindray USA 309
Chiesi 203 National Board of Echocardiography, Inc. 214
Edwards Lifesciences LLC 302 Nonin Medical/Terumo Cardiovascular Group 407
Feel Good 414 NorthStar Anesthesia 315
Gator Medical Books 216 Ornim, Inc. 410
GE Healthcare 205 Philips Medical Systems 317
Grifols 203 Preferred Physicians Medical 304
HAEMONETICS 210 rEVO Biologics 417
Hawaiian Moon 212 Siemens Healthineers 206
HeartWorks 413 Teleflex 408
Helena Laboratories 403 TS Consulting 215
Huntsville Hospital Health System 416 Wolters Kluwer 217
Instrumentation Laboratory 204
Complement your Echo Week attendance with the NEW Ultrasound Course!

Register for BOTH today!
Visit scahq.org

Root™ with SedLine® Brain Function Monitoring and O3™ Regional Oximetry
A More Complete Picture Starts With More Complete Data

You make the clinical decisions…
Nonin’s SenSmart™ rSO₂/SpO₂ technology can help you with accurate monitoring made simple.
SenSmart rSO₂/SpO₂ oximetry technology with 16 light paths

Visit Nonin Medical, booth #407 and request a no-obligation opportunity to evaluate in your O.R., the reliability, stability and accuracy the SenSmart System provides you.

Visit Masimo Booth #202
DESIGNED FOR RELIABILITY AND ACCURACY.

Monitoring and airway management solutions for you — and your patients

Each patient is different, and each surgery is different. That’s why our surgical and patient monitoring solutions can help you:

- **Be prepared for the unexpected.**
  With the McGRA TH™ MAC video laryngoscope.

- **Personalize anesthesia.**
  With the BIS™ brain monitoring system.

- **Be alerted to changes in oxygenation and end organ perfusion.**
  With the INVOS™ 5100C cerebral/somatic oximetry system.

Helping you increase patient safety and improve outcomes. It’s our goal, too.

Visit us at booth 209 for more information.
Unparalleled Accuracy

- The most wavelengths
- The deepest light penetration
- The most customized family of sensors
- Patient and tissue specific algorithms

The confidence of knowing™

VISIT BOOTH 301 SCA 2017
April 22-26, 2017 • Loews Royal Pacific Resort, Orlando, FL

CASMED® 44 East Industrial Road, Branford, CT 06405 USA • 203.488.6056 • 800.227.4414 • fore-sight.com