37th Annual SCA Annual Meeting & Workshops/15th ICCVA

April 11–15
2015
Washington Marriott Marquis
Washington, DC

Program at a Glance

#SCA2015 A global celebration of cardiothoracic and vascular anesthesia
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General Information

Target Audience
Cardiothoracic and vascular anesthesiologists, critical care physicians, general anesthesiologists, nurses, perfusionists, other allied health personnel, epidemiologists/researchers, and all those involved in the care of cardiovascular and thoracic surgery patients will benefit from attending this meeting.

Statement of Need
Why You Should Attend
The field of cardiothoracic and vascular anesthesiology is a dynamic specialty that changes as modern cardiovascular medicine changes. Changes in the field of perioperative cardiovascular medicine include percutaneous valve interventions, minimally invasive surgical techniques, heart failure devices, electrophysiology procedures, and an aging cardiac surgical patient population. The 37th SCA Annual Meeting and Workshops includes interactive workshops and discussion sessions with experts centered on patient-oriented educational programs to teach the requisite skills and concepts necessary for advanced care of these patients. The program provides attendees with a unique forum for learning about and sharing standards and advances in evidence-based practice and treatment from and with colleagues in cardiothoracic and vascular anesthesiology.

This meeting provides attendees the opportunity to
• discuss current practice and recent advances in cardiology and cardiac surgery
• interact with multidisciplinary experts in cardiovascular anesthesiology
• discuss how to translate scientific discoveries into clinical practice
• connect with colleagues in different practice settings at numerous networking events, including exhibitor and poster presentation sessions
• discuss quality of care issues, including database metrics, as mechanisms to assist you in working within your own institution to improve quality
• raise questions, debate controversies, plan follow-up studies, and discuss results
• discuss your own research and clinical observations
• meet with more than 200 poster presenters to learn about their work and future research directions
• visit exhibiting companies featuring products and services specifically designed for professionals who study cardiovascular medicine.

What You Can Expect to Gain
The 37th SCA Annual Meeting and Workshops will offer information about current intraoperative management of patients undergoing various cardiac surgical procedures. In addition, this meeting will provide workshops in cardiac imaging, percutaneous valve surgery, transthoracic echocardiography, and extracorporeal support. Presentations are designed to enhance research and/or clinical knowledge and competence pertinent to cardiothoracic and vascular anesthesiology, and will feature content appropriate for professionals at several experience levels. By participating in this meeting, attendees can expect to be able to
• describe the latest advances in perioperative cardiovascular medicine
• critique current trends in clinical and bench research pertinent to cardiovascular medicine
• evaluate new techniques and diagnostic/interventional procedures in cardiothoracic and vascular anesthesiology
• assemble a network of professional colleagues with whom to exchange information about the practice of cardiovascular and thoracic anesthesiology.

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Wireless Connection
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Password: SCA@2015
General Information

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

SCA designates this live activity for a maximum total of 38.5 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity. Successful completion requires that participants register for the meeting, attend, participate, and complete an online evaluation. Participants will receive their CME certificates immediately after they submit their evaluations online.

37th Annual Meeting
The registration fee includes continental breakfasts, coffee breaks, (2) lunches, (1) reception, and the electronic syllabus.

Designation: The Society of Cardiovascular Anesthesiologists designates this live activity for a maximum of 31 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Workshops
The registration fee includes workshop, continental breakfast (morning workshops), coffee breaks, and the electronic syllabus.

Designation: The Society of Cardiovascular Anesthesiologists designates this live activity for a maximum of 3 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Problem-Based Learning Discussions (PBLDs)
The registration fee includes a continental breakfast and the electronic syllabus.

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

Claim Your CME
To claim CME credit, visit www.scahq.org/Education/Evaluations to complete your 2015 SCA Annual Meeting & Workshops evaluations. You must complete the evaluations to claim your CME credit.

Photography
Please be advised that throughout the SCA Annual Meeting & Workshops, photos may be taken for use in SCA marketing materials, including the e-newsletter and SCA Facebook page. If you do not consent to be photographed, please advise the SCA staff in writing.

Session syllabi and learning objectives are provided to attendees through electronic media only.

Make sure to follow our Scientific Program Committee Chair on Twitter @andyshaw007. Use #SCA2015 when tweeting or posting on Facebook about the meeting.

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Lobby Level

Mezzanine Level
Washington Marriott Marquis Floor Plans

Meeting Level 1

Meeting Level 2
Faculty

Disclosures
Nature of Relationship Key
1. No relationship with commercial supporters
2. Research support
3. Speakers’ bureau
4. Consultant
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6. Other
7. Faculty member will discuss and disclose unlabeled drug uses during presentation
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Disclosure Policy
It is the policy of the Society of Cardiovascular Anesthesiology (SCA) that the planners, faculty, and this provider disclose the existence of any significant financial interest or other relationships that they or their spouse or partner may have with the manufacturer(s) of any commercial product(s) or services relating to the topics presented in the educational activity. SCA also requires disclosure of the intent to discuss unlabeled uses of a commercial product or investigational use of a product not yet approved for this purpose. It is the responsibility of the Scientific Program Committee to review potential conflicts of interest as submitted in the disclosure form and resolve such conflicts. Resolving the conflict ensures that the content of the activity is aligned with the interests of the public. Detailed disclosure information will be made available to attendees, who will also be informed when no relevant financial relationships exist.

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Schedule

Saturday, April 11

7–8 am Marquis Foyer
Continental Breakfast

8–10 am Marquis Ballroom 1–5
Opening Session
Moderator: Andrew D. Shaw, MB FRCA FCCM

7:30–8:05 am Welcome Remarks Andrew D. Shaw, MB FRCA FCCM
8:05–8:15 am Opening Ceremony and Presentation of Distinguished Service Award Scott T. Reeves, MD MBA FACC FASE
8:15–8:35 am ASA Update John Abenstein, MSEE MD, ASA President
8:35–9:15 am Cardiac Surgery and Anesthesia: Past, Present, and Future Davy Cheng, MD MSc FRCPC FCAHS CCPE
9:15–10 am Keynote: Health, Wellness, and Professionalism Michael F. Roizen, MD

10–10:30 am Marquis Foyer
Morning Break

10:30 am–12:30 pm Liberty LM
The Interventional Cath Lab: When Is “Good” the Enemy of “Perfect”
Moderator: Wendy L. Gross, MD MHCM

10:30–10:50 am What Does “Inoperable” Mean? Expanding Target Populations: Collaborative Assessment Nelson L. Thaemert, MD
10:50–11:10 am Expectations and Results: Improving Measurements, Optimizing Results, and Extending Our Reach Douglas C. Shook, MD FASE
11:10–11:30 am When the Unpredicted Happens: Structural Surprises in the Cath Lab George Djaiani, MD FRCA FRCPC
11:30–11:50 am When Should We Just Say No? R. Lebron Cooper, MD
11:50 am–12:10 pm Collaborative Medicine and Joint Venture Finance Wendy L. Gross, MD MHCM
12:10–12:30 pm Discussion

10:30 am–12:30 pm Liberty IJK
A Potpourri of Updates in the Thoracic Cavity
Moderator: Wanda M. Popescu, MD

10:30–10:50 am Novel Approaches in the Thoracic Surgery Frank C. Detterbeck, MD
10:50–11:10 am Vats, Rats vs. Thoracotomy: Show Me the Data! E. Andrew Ochroch, MD MSCE
11:10–11:30 am Acute Lung Injury After Thoracic Surgery Marc Licker, MD
11:30–11:50 am Methods of Lung Preservation Before Transplantation Arne Neyrinck, MD PhD
11:50 am–12:10 pm The Artificial Lung: Are We There Yet? Laura Niklason, MD
12:10–12:30 pm Discussion

10:30 am–12:30 pm Marquis Ballroom 1–5
Transfusion Practice Around the World (Audience Response Session)
Moderator: Daryl Oakes, MD

10:30–10:50 am Blood Component Therapy: A Rational Approach to Transfusion Protocols Carlos Galhardo, Jr., MD
10:50–11:10 am Evaluate and Optimize Preoperative Patient Risk Factors to Minimize Perioperative Transfusion and Transfusion-Related Adverse Outcome C. David Mazer, MD
11:10–11:30 am Point-of-Care Testing of Coagulation: Which Tests and When? Kenichi Tanaka, MD
11:30–11:50 am Optimal Transfusion Practice: Can We Minimize Transfusion-Related Injury? Keyvan Karkouti, MD
11:50 am–12:10 pm Factor Concentrates: An Update Ian J. Welsby, MBBS BSc FRCA
12:10–12:30 pm Discussion

12:30–1:30 pm Marquis Foyer & Salons 12–14
Lunch On Your Own with Exhibitors

Scientific Posters: Perioperative Medicine Abstracts

1:30–3:30 pm Liberty IJK
Adult Congenital (Structural) Heart Disease
Moderator: Gregory M. Janelle, MD FASE

1:30–1:50 pm Adult Congenital Heart Surgery in 2014 Weipeng Wang, MD PhD
1:50–2:10 pm Adult Congenital Heart Disease in the Cath Lab Minoru Nomura, MD PhD
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 2:10–2:30 pm | A Growing Population: Improved Outcomes and Expectations in Congenital Cardiac Anomalies  
James A. DiNardo, MD |
| 2:30–2:50 pm | Single Ventricle Physiology: A Review  
Alexander Mittnacht, MD FASE |
| 2:50–3:10 pm | Perioperative Management of the Adult Congenital Parturient  
Laurie Davies, MD |
| 3:10–3:30 pm | Discussion                                                               |

**1:30–3:30 pm**

**Organ Crosstalk in Cardiac Surgery and Critical Care**
**Moderator: G. Burkhard Mackensen, MD PhD FASE**

<table>
<thead>
<tr>
<th>Time</th>
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| 1:30–1:50 pm | Heart-Brain Cross-Talk: What Do We Need to Know?  
G. Burkhard Mackensen, MD PhD FASE |
| 1:50–2:10 pm | AKI: Which Organ Interactions Are Most Relevant?  
Shay McGuinness, MBChB FRCA FANZCA FFICM |
| 2:10–2:30 pm | Acute Lung Injury: Cardiopulmonary Interactions  
Stephanie Fischer, MB BCh FCA(SA) |
| 2:30–2:50 pm | Brain, Heart, Lung, Kidney, Liver: Who Wins the Fight?  
Jerrold H. Levy, MD FAHA FCCM |
| 2:50–3:10 pm | Heart-Liver Interactions in CT Surgery  
Ravi Vivekanand Joshi, MD |
| 3:10–3:30 pm | Discussion                                                               |

**1:30–3:30 pm**

**Pulmonary Hypertension: Pearls of Wisdom (Audience Response Session)**
**Moderator: Srikantha Rao, MBBS MD MS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 1:30–1:50 pm | Inhaled Pulmonary Vasodilator Therapy  
Robert N. Sladen, MBChB FCCM |
| 1:50–2:10 pm | Management of RV Dysfunction in Cardiac Surgery  
Rick Sai-Chuen Wu, MD |
| 2:10–2:30 pm | TEE Evaluation of RV Dysfunction  
Alina Nicoara, MD FASE |
| 2:30–2:50 pm | Acute Massive Pulmonary Embolism: Management of Acute RV Failure  
Konstantine Tzimas, MD |
| 2:50–3:10 pm | Perioperative Implications of Severe Pulmonary HTN: What You Should Know About This High-Risk Surgical Population  
Karsten Bartels, MD |
| 3:10–3:30 pm | Discussion                                                               |

**3:30–4 pm**

**Afternoon Break**

**4–6 pm**

**Global Finance in Perioperative Cardiovascular Care**
**Moderator: Davy Cheng, MD Msc FRCPG FCAHS CCPE**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 4–4:20 pm    | ObamaCare: AHA/ACC Cardiac Surgeon’s Perspective  
Michael J. Mack, MD |
| 4:20–4:40 pm | ObamaCare: Cardiac Anesthesiologist’s Perspective  
Solomon Aronson, MD MBA FACC FACC FAHA FASE |
| 4:40–5 pm    | European Perspective  
Peter M. J. Rosseel, MD |
| 5–5:20 pm    | Australian Perspective  
David Daly, MBBA FANZCA MClinEpi |
| 5:20–5:40 pm | Asian Perspective  
Subid Ranjan Das, MBBS FRCA FFARCSI FHKCA FHKAM (Anaes) |
| 5:40–6 pm    | Discussion                                                               |

**4–6 pm**

**Perioperative Echocardiography in Heart Failure Patients**
**Moderator: Christopher A. Troianos, MD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 4–4:20 pm    | Assessment of Right Heart Failure with TEE  
Manfred D. Seeberger, MD |
| 4:20–4:40 pm | The Anesthesiologist’s Guide to Diastolic Heart Failure  
Justiaan Swanevelder, MBChB MMed(Anes) FCA(SA) FRCA |
| 4:40–5 pm    | New Surgical Treatment Options for Right Heart Failure  
Sasha K. Shillcutt, MD FASE |
| 5–5:20 pm    | Echocardiographic Approach to LVAD Insertion  
Julian Stephens Bick, MD |
| 5:20–5:40 pm | Bridge to Noncardiac Surgery: How to Manage LVADs Outside the Cardiac Suite  
Candice R. Montzingo, MD |
| 5:40–6 pm    | Discussion                                                               |

**4–6 pm**

**3D TEE Is for Everybody (Audience Response Session)**
**Moderator: Alina Nicoara, MD FASE**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
</table>
| 4–4:20 pm    | Integrating 3D TEE in the OR Workflow  
Douglas C. Shook, MD FASE |
| 4:20–4:40 pm | Case Study: The Role of 3D TEE in TAVR  
Joerg Ender, MD |
| 4:40–5 pm    | Case Study: 3D TEE in Functional MR  
Daniel Bainbridge, MD FRCPC |
| 5–5:20 pm    | Case Study: 3D TEE in Degenerative Mitral Valve Disease  
Georges Desjardins, MD |
| 5:20–5:40 pm | Case Study: Myocardial Deformation by 3D TEE  
Aman Mahajan, MD PhD |
| 5:40–6 pm    | Discussion                                                               |
# Schedule

### Sunday, April 12

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
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<tbody>
<tr>
<td>7–8 am</td>
<td>Marquis Foyer</td>
<td>Continental Breakfast</td>
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<tr>
<td>8–9:30 am</td>
<td>Marquis Ballroom 1–5</td>
<td><strong>Revascularization Conference: PCI vs. OPCAB vs. CABG</strong>&lt;br&gt;&lt;br&gt;<strong>Moderator:</strong> Linda Shore-Lesserson, MD FAHA FASE&lt;br&gt;&lt;br&gt;8–8:25 am PCI Is Best Jeffrey A. Brinker, MD FACCSCAI&lt;br&gt;8:25–8:50 am OPCAB Is Best Yatin Mehta, MD MNAMS FRCA FAMS&lt;br&gt;8:50–9:15 am CABG Is Best Michael J. Mack, MD&lt;br&gt;9:15–9:30 am Panel Discussion</td>
</tr>
<tr>
<td>9:30–10:30 am</td>
<td>Marquis Foyer</td>
<td>Morning Break</td>
</tr>
<tr>
<td>10:30 am–12:30 pm</td>
<td>Liberty IJK</td>
<td><strong>Perioperative Organ Protection: Role of Translational and Clinical Research</strong>&lt;br&gt;&lt;br&gt;<strong>Moderator:</strong> C. David Collard, MD MS&lt;br&gt;&lt;br&gt;10:30–10:50 am Evidence-Based Neuroprotection in Cardiac Surgery Hilary P. Grocott, MD FRCP FASE&lt;br&gt;10:50–11:10 am Role of Big Data in Perioperative Organ Protection Stefan J. M. Dieleman, MD&lt;br&gt;11:10–11:30 am Does Genetic Variation Contribute to Perioperative Morbidity? J. Daniel Muehlischlegel, MD MMSc FAHA&lt;br&gt;11:30–11:50 am How Can We Protect the Kidneys During Cardiac Surgery? Shay McGuinness, MBChB FRCA FANZCA FFICM&lt;br&gt;11:50 am–12:10 pm Myocardial Protection: Insights from Cross-Species Research Mihai V. Podgoreanu, MD FASE&lt;br&gt;12:10–12:30 pm Discussion</td>
</tr>
<tr>
<td>10:30 am–12:30 pm</td>
<td>Marquis Ballroom 1–5</td>
<td><strong>Perioperative Management of Cardiac Implantable Electrical Devices (Audience Response Session)</strong>&lt;br&gt;&lt;br&gt;<strong>Moderator:</strong> Douglas C. Shook, MD FAASE&lt;br&gt;&lt;br&gt;10:30–10:50 am Temporary Pacemakers: Uses and Indications Makoto Ozaki, MD&lt;br&gt;10:50–11:10 am Guidelines for Perioperative Management of CIEDs Mias Pretorius, MBChB MSCI&lt;br&gt;11:10–11:30 am As, Vs, Ds, Bi-Vs, and ICDs: Review of Cardiac Implantable Electrical Devices Annemarie Thompson, MD&lt;br&gt;11:30–11:50 am Pro-Con Debate: Pro—Anesthesiologists Should Learn to Interrogate CIEDs Peter Schulman, MD&lt;br&gt;11:50 am–12:10 pm Pro-Con Debate: Con—Anesthesiologists Should Not Be Responsible for Interrogating Permanently Implantable Devices Aman Mahajan, MD PhD&lt;br&gt;12:10–12:30 pm Discussion</td>
</tr>
<tr>
<td>10:30 am–12:30 pm</td>
<td>Liberty LM</td>
<td><strong>Coagulation Challenges in Cardiovascular Anesthesia</strong>&lt;br&gt;&lt;br&gt;<strong>Moderator:</strong> Priya A. Kumar, MD&lt;br&gt;&lt;br&gt;10:30–10:50 am TEG/ROTEM: What Do I Need to Know and Is It of Any Real Use? C. David Mazer, MD&lt;br&gt;10:50–11:10 am Antifibrinolytics: Should We Reconsider Aprotinin? Jose Mariano Soares de Moraes, MD PhD&lt;br&gt;11:10–11:30 am Topical Pro-Coagulants Ian J. Welsby, MBBS BSc FRCA&lt;br&gt;11:30–11:50 am Role of Factor 7 in Massive Transfusion. Better Late than Never? Kenichi Tanaka, MD&lt;br&gt;11:50 am–12:10 pm Anti-Platelet Agents and Cardiac Anesthesia: Quo Vadis? Jerrold H. Levy, MD FAHA FCCM&lt;br&gt;12:10–12:30 pm Discussion</td>
</tr>
<tr>
<td>12:30–1:30 pm</td>
<td>Marquis Ballroom 6–10, Foyer, &amp; Salons 12–14</td>
<td>Lunch and Grand Opening of Exhibits</td>
</tr>
<tr>
<td>1:30–3:30 pm</td>
<td>Marquis Ballroom 1–5</td>
<td><strong>Minimally Invasive Cardiac Surgery (Audience Response Session)</strong>&lt;br&gt;&lt;br&gt;<strong>Moderator:</strong> Mo Ghotbi, MD&lt;br&gt;&lt;br&gt;1:30–1:50 pm Patient Selection and Anesthetic Considerations for Percutaneous Pulmonary Valve Replacement Andrew Pitkin, MRCP FRCA&lt;br&gt;1:50–2:10 pm Percutaneous Mitral Surgery: Here to Stay or Gone Tomorrow? Philip Jones, MD MSc(Clin Trials) FRCPC&lt;br&gt;2:10–2:30 pm OPCAB George Djaiani, MD FRCA FRCPC&lt;br&gt;2:30–2:50 pm Robotic Cardiac Surgery: Long-Term Outcomes and Future Trends Gregory A. Nuttall, MD</td>
</tr>
</tbody>
</table>
**Schedule**

2:50–3:10 pm  
Anesthesia for Off-Pump VAD Placement  
Robert J. Deegan, MBCh PhD

3:10–3:30 pm  
Discussion

1:30–3:30 pm  
**Tricuspid Valve Disease: What’s the Big Deal?**

*Moderator: Tara Brakke, MD FASE*

1:30–1:50 pm  
Tricuspid Disease in Cardiac Surgery: Does It Matter? (Outcome Review)  
Yee Eot Chee, MBBS MHA MA FANZCA FHKAMPGDipECHO PTEeXAM ASCeXAM

1:50–2:10 pm  
Tricuspid Anatomy and Repair: the Basics  
Balthasar Eberle, MD

2:10–2:30 pm  
Echo Evaluation of TR: How Bad Is It?  
G. Burkhard Mackensen, MD PhD FASE

2:30–2:50 pm  
Tricuspid Regurgitation in the Setting of Right Heart Failure  
Alina Nicoara, MD FASE

2:50–3:10 pm  
Moderate Tricuspid Regurgitation in Cardiac Surgery: Do We Fix?  
Bradley S. Taylor, MD MPH

3:10–3:30 pm  
Discussion

1:30–3:30 pm  
**Fluid Therapy in Cardiovascular Surgery**

*Moderator: Wanda M. Popescu, MD*

1:30–1:50 pm  
Practical Aspects of Fluid Management  
Albert Perrino, Jr. MD

1:50–2:10 pm  
The Third Space: Fact or Fiction?  
Sophia Chew, MMED(Anes) MBBS FANZCA

2:10–2:30 pm  
Fluid Responsiveness Is Not the Same as Fluid Deficiency: How to Tell the Difference  
J. Mauricio Del Rio, MD

2:30–2:50 pm  
Does the Choice of Crystalloid Make a Difference?  
Janet Martin, PharmD PhDeq

2:50–3:10 pm  
Hemoglobin-Based Oxygen Carriers  
Steven E. Hill, MD

3:10–3:30 pm  
Discussion

3:30–4 pm  
**Afternoon Break and Refreshments with Exhibits**

4–6 pm  
**TEE for Mitral Regurgitation: A Comprehensive Approach**

*Moderator: Sasha K. Shillcutt, MD FASE*

4–4:20 pm  
Mitrail Regurgitation (Type I)  
Nian Chih Hwang, MBBS FFARCSI FAMS GDAcu

4:20–4:40 pm  
Mitrail Regurgitation (Type II)  
Minoru Nomura, MD PhD

4:40–5 pm  
Mitrail Regurgitation (Type III)  
Feroze Mahmood, MD

5–5:20 pm  
Intraop MR: What the Surgeon Wants to Know  
Bradley S. Taylor, MD MPH

5:20–5:40 pm  
The Mitral Exam: Putting It All Together  
Madhav Swaminathan, MD FASE

5:40–6 pm  
Discussion

4–6 pm  
**ECMO: Do We Still Need Ventilators?**

*Moderator: Donna Greenhalgh, MBChB FRCA FFICM*

4–4:20 pm  
Does Echocardiography Influence ECMO Management?  
Justiaan Swanevelder, MBChB MMed(Anes) FCA(SA) FRCA

4:20–4:40 pm  
ECMO as an Alternative to Ventilation  
Tony Gin, MD

4:40–5 pm  
How to Set Up an ECMO Service  
Jason D. Kennedy, MD

5–5:20 pm  
Management of Bugs and Blood in ECMO  
Julian Barker, MD

5:20–5:40 pm  
Now What? Common Problems That Arise in ECMO and How to Fix Them  
Annette Vegas, MDCM FRCPC FASE

5:40–6 pm  
Discussion

4–6 pm  
**SCA/STS: Guidelines for Valvular Heart Disease (Audience Response Session)**

*Moderator: Stanton K. Shernan, MD FAHA FASE*

4–4:30 pm  
The Importance of the Heart Team and Heart Valve Centers of Excellence  
Michael J. Mack, MD

4:30–5 pm  
The Impact of the AHA Guidelines for Valvular Heart Disease for Cardiac Surgery  
Thoralf M. Sundt, III, MD

5–5:30 pm  
The Impact of the AHA Guidelines for Valvular Heart Disease for Cardiac Anesthesia  
Nikolaos J. Skubas, MD FASE DSc

5:30–6 pm  
Panel Discussion

6–7 pm  
**Networking Reception with Exhibits**
## Schedule

### Monday, April 13

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
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<tbody>
<tr>
<td>7–8 am</td>
<td>Marquis Ballroom 6–10</td>
<td>Continental Breakfast with Exhibits</td>
</tr>
</tbody>
</table>
| 8–10 am       | Marquis 1–5                        | **FOCUS: Human Factors in the Cardiac Operating Room (Audience Response Session)**  
**Moderators:** James H. Abernathy, III, MD MPH FASE FAHA; Jonathan B. Mark, MD  
**Panel Members:** Sarah Henrickson Parker, PhD; Patricia C. Seifert, MSN RN FAAN; Kenneth G. Shann, CCP; Douglas C. Shook, MD FASE; Thoralf M. Sundt, III, MD  
This session will incorporate a panel discussion and a conversation with the audience. |
| 10:30 am–12:30 pm | Liberty NOP                      | **Best Abstracts Session 1**                                          
**Moderator:** Aman Mahajan, MD PhD |
| 10:30 am–12:30 pm | Marquis 1–5                       | **International Perspectives on Best TAVR Practices (Audience Response Session)**  
**Moderator:** G. Burkhard Mackensen, MD PhD FASE  
10:30–10:50 am | Fast-Track Pathways for TAVR Patients to Reduce Cost and LOS Balthasar Eberle, MD |
10:50–11:10 am | Strategies for Success as the Anesthesia Leader for TAVR in the Heart Team Model Daniel Bainbridge, MD FRCP |
11:10–11:30 am | The Role of Echocardiographic Imaging for TAVR Andrew Klein, MD FRCA |
11:30–11:50 am | Update on the Latest TAVR Technology and Clinical Trials Chirojit Mukherjee, MD |
11:50 am–12:10 pm | Discussion                       |
| 10:30 am–12:30 pm | Liberty LM                        | **Neuromonitoring**                                                  
**Moderator:** Daryl Oakes, MD  
10:30–10:50 am | Should We Be Monitoring Depth of Anesthesia During CPB? Nelson L. Thaemert, MD |
10:50–11:10 am | Optimizing Cerebral Blood Flow During CPB: Monitoring Cerebral Autoregulation Suhaini Kadiman, MD |
11:10–11:30 am | Role of TEE and Epiaortic Scanning in Preventing Embolic Cerebrovascular Events Kathryn Glas, MD MBA FASE |
11:30–11:50 am | CNS Protection During Circulatory Arrest for Ascending Aortic Procedures Hilary P. Grocott, MD FRCP FASE |
11:50 am–12:10 pm | Discussion                       |
| 10:30 am–12:30 pm | Liberty IJK                       | **Process Measures for Quality Improvement**                         
**Moderator:** C. David Collard, MD MS  
10:30–10:50 am | Temperature Management Sophia ANG Bee Leng, MD |
10:50–11:10 am | Beta-Blocker Management Martin J. London, MD |
11:10–11:30 am | Glucose Management Andrea E. Duncan, MD MS |
11:30–11:50 am | VTE Management Chad E. Wagner, MD |
11:50 am–12:10 pm | Antibiotic and Infection Management Paul Pisklak, MD |
12:10–12:30 pm | Discussion |
| 12:30–1:30 pm | Marquis Ballroom 6–10, Foyer, Salons 12–14 | **Scientific Posters: Echocardiography and Quality Improvement Abstracts** |

**FOCUS: Human Factors in the Cardiac Operating Room (Audience Response Session)**

**Moderators:** James H. Abernathy, III, MD MPH FASE FAHA; Jonathan B. Mark, MD

**Panel Members:** Sarah Henrickson Parker, PhD; Patricia C. Seifert, MSN RN FAAN; Kenneth G. Shann, CCP; Douglas C. Shook, MD FASE; Thoralf M. Sundt, III, MD

This session will incorporate a panel discussion and a conversation with the audience.
Schedule

12:45–1:15 pm  Annual Business Meeting  Marquis 1–5

1:30–3:30 pm  Critical Care Controversies  Liberty LM

Moderator: Laureen L. Hill, MD MBA
1:30–1:50 pm  Controversies in Defining and Determining Death in Critical Care  Tony Gin, MD
1:50–2:10 pm  Is There a Place for Corticosteroid Treatment Anymore?  Stefan J. M. Dieleman, MD
2:10–2:30 pm  What’s the Best Glucose Value for a Heart Patient?  Andra E. Duncan, MD
2:30–2:50 pm  Is Low Tidal Volume Ventilation Low Enough?  Ronald Pauldine, MD
2:50–3:10 pm  Therapeutic Hypothermia in 2015  Avery Tung, MD FCCM
3:10–3:30 pm  Discussion

1:30–3:30 pm  Enhancing Recovery (EACTA Session) (Audience Response Session)  Marquis 1–5

Moderator: Donna Greenhalgh, MBChB FRCA FFICM
1:30–1:50 pm  Fast-Track Cardiac Surgery  Joerg Ender, MD
1:50–2:10 pm  Can Perioperative Fluid Balance Improve Outcome?  Michael Sander, MD
2:10–2:30 pm  Enhanced Recovery Decreases Surgical Morbidity  Michael P. W. Grocott, MBBS MD BSc FRCA FRCP FFICM
2:30–2:50 pm  Enhanced Recovery in Thoracic Surgery  Donna Greenhalgh, MBChB FRCA FFICM
2:50–3:10 pm  Improving and Predicting Outcomes After Cardiac Surgery  Marco Ranucci, MD FESC
3:10–3:30 pm  Discussion

1:30–3:30 pm  International Quality Issues in Cardiac Surgery  Liberty IJK

Moderator: Saket Singh, MD
1:30–1:50 pm  How to Meet Quality Mandates  Sophia ANG Bee Leng, MD
1:50–2:10 pm  What Is Quality?  Yunseok Jeon, MD
2:10–2:30 pm  How and What to Measure  Marek Brzezinski, MD PhD
2:30–2:50 pm  The Economics of Quality  David A. Zvara, MD
2:50–3:10 pm  The Benefits of Taking Part in Database Projects  James H. Abernathy, Ill, MD MPH FASE FAHA
3:10–3:30 pm  Discussion

3:30–4 pm  Afternoon Break and Refreshments with Exhibits  Marquis Ballroom 6–10

4–6 pm  Cardiopulmonary Bypass Disasters  Liberty IJK

Moderator: Wendy L. Pabich, MD
4–4:20 pm  Massive Transfusion and ESRD Patients  Fabio Guaraccino, MD
4:20–4:40 pm  Sudden Unexpected Aortic Dissection  Yatin Mehta, MD MNAMS FRCA FAMS
4:40–5 pm  Massive Air Embolism  G. Burkhard Mackensen, MD PhD FASE
5–5:20 pm  Severe Metabolic Acidosis  Albert T. Cheung, MD
5:20–5:40 pm  Vasoplegia and Its Management  Mark Stafford-Smith, MD CM FRCPC FASE
5:40–6 pm  Discussion
Schedule

Monday, April 13  (continued)

4–6 pm

Super Echo

Moderators: Kathryn Glas, MD MBA FASE; Sasha K. Shillcutt, MD FASE
Panelists: Manfred D. Seeberger, MD; James A. DiNardo, MD; Stanton K. Shernan, MD FAHA FASE; Sasha K. Shillcutt, MD FASE; Kathryn Glas, MD MBA FASE

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<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>4–4:15 pm</td>
<td>Transesophageal Echocardiography Vector Flow Mapping Clarifies the Reasons of a Mismatch Between Preoperative Doppler Study Data and the Activities of Daily Living (ADL) of the Patient with RVOT Stenosis Combined with Patent Ductus Arteriosus and Severe Pulmonary Artery Hypertension</td>
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<tr>
<td>4:15–4:30 pm</td>
<td>The Value of Real-Time 3D Epicardial Echocardiography During the Ross Procedure: A Novel Approach Using a RT3D TEE Probe Marie-Eve Chamberland, MD</td>
</tr>
<tr>
<td>4:30–4:45 pm</td>
<td>Coronary Sinus Ostial Atresia with Unroofed Coronary Sinus Precluding Retrograde Cardioplegia Kimberly Kesner, MD</td>
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<tr>
<td>4:45–5 pm</td>
<td>Failed Transcatheter Sapien Tricuspid Valve-in-Valve Replacement Jeremy Bennett, MD</td>
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<tr>
<td>5–5:15 pm</td>
<td>Confirmation of Flow in the Left Circumflex Artery by Transesophageal Echocardiography to Avoid Coronary Artery Surgical Revascularization Cory Maxwell</td>
</tr>
<tr>
<td>5:15–5:30 pm</td>
<td>When Tubes Fly: Echo for Innovative Tricuspid Valve Reconstruction Natalie Silverton, MD</td>
</tr>
<tr>
<td>5:30–5:45 pm</td>
<td>Removal of Intracardiac Thrombus in a Patient with Intracranial Hemorrhage Jennie Ngai, MD</td>
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<tr>
<td>5:45–6 pm</td>
<td>Discussion</td>
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4–6 pm

Anemia and Solutions

Moderator: Donna Greenhalgh, MBChB FRCA FFICM

<table>
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<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>4–4:20 pm</td>
<td>Jehovah’s Witness Patients and Low Hb Peter M. J. Rosseel, MD</td>
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<tr>
<td>4:20–4:40 pm</td>
<td>Anemia and Comorbidity: Does It Make a Difference? Colleen Koch, MD MS MBA FACC</td>
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<tr>
<td>4:40–5 pm</td>
<td>Cell Salvage Is Beneficial in All Patients Marco Ranucci, MD FESC</td>
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<tr>
<td>5–5:20 pm</td>
<td>Cell Salvage Is Not Beneficial in All Patients Jae-Hyon Bahk, MD PhD</td>
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<tr>
<td>5:20–5:40 pm</td>
<td>Is EPO the Answer? Joost van der Maaten, MD</td>
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<tr>
<td>5:40–6 pm</td>
<td>Discussion</td>
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Tuesday, April 14

7–8 am

Continental Breakfast with Exhibits

8–10 am

Earl Wynands Lecture

Moderators: Davy Cheng, MD MSc FRCP FCAHS CCPE; Andrew D. Shaw, MB FRCA FCCM

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<tbody>
<tr>
<td>8–8:45 am</td>
<td>Which Is Worse for the Kidneys: Anemia or Blood Transfusion? Keyvan Karkouti, MD</td>
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<tr>
<td>8:45–9:30 am</td>
<td>The Importance of the AKI to CKD Transition in Cardiac Surgery Lakhmir Chawla, MD</td>
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<tr>
<td>9:30–10 am</td>
<td>Panel Discussion</td>
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10–10:30 am

Morning Break and Coffee with Exhibits

10:30 am–12:30 pm

Best Abstracts Session 2
Moderator: Martin J. London, MD

10:30 am–12:30 pm

Aortic Root to Aortic Arch Repair
Moderator: George Silvay, MD PhD

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<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>10:30–10:50 am</td>
<td>Neuromonitoring in Aortic Arch Surgery Faculty Hilary P. Grocott, MD FRCPC FASE</td>
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<tr>
<td>10:50–11:10 am</td>
<td>Anesthetic Considerations for Hybrid Approaches to the Aortic Arch Weipeng Wang, MD PhD</td>
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<tr>
<td>11:10–11:30 am</td>
<td>Aortic Root Surgery: Reimplantation, Remodeling, or Replacement Brian J. Gelfand, MD FACS</td>
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<tr>
<td>11:30–11:50 am</td>
<td>Evolving Approaches to Acute Type-A Dissections Daryl Oakes, MD</td>
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<tr>
<td>11:50 am–12:10 pm</td>
<td>Perfusion Strategies for Aortic Arch Surgery Miklos Kertai, MD PhD</td>
</tr>
<tr>
<td>12:10–12:30 pm</td>
<td>Discussion</td>
</tr>
</tbody>
</table>
Schedule

10:30 am–12:30 pm Marquis 1–5
The Right Heart (Audience Response Session)
Moderator: G. Burkhard Mackensen, MD PhD FASE
10:30–10:50 am The Right Heart Needs Help: What Do I Do? Y-F Chow, MD MBBS FANZCA FHKCA FHKAM PG Dip Echo MSc
10:50–11:10 am Echocardiographic Assessment of the RV Stephen A. Esper, MD MBA
11:10–11:30 am Tricuspid Valve Repair Versus Replacement Feroze Mahmood, MD
11:30–11:50 am How to Get the Pulmonary Pressure Right Eric Jacobsohn, MBChB MHPE FRCPC
11:50 am–12:10 pm When Right Goes Wrong: Right Ventricular Assist Device vs. ECMO Peter Von Homeyer, MD FASE
12:10–12:30 pm Discussion

10:30 am–12:30 pm Liberty IJK
Global Approaches to Quality and Safety
Moderator: Philip Jones, MD MSc(Clin Trials) FRCPC
10:30–10:50 am High-Reliability Organizations in Healthcare Florian Nuevo, MD
10:50–11:10 am Hospital Quality and Physician Performance Metrics for Cardiac Anesthesiologists Yunseok Jeon, MD
11:10–11:30 am Checklists and Cardiac Anesthesia Janet Martin, PharmD PhDeq
11:30–11:50 am How to Teach Quality Improvement to Our Trainees Mark Stafford-Smith, MD CM FRCPC FASE
11:50 am–12:10 pm Best (Safe) Practices in Cardiac Anesthesia Nancy A. Nussmeier, MD
12:10–12:30 pm Discussion

12:30–1:30 pm Marquis Ballroom 6–10, Foyer, Salons 12–14
Dessert with Exhibits
Scientific Posters: Perioperative Medicine Abstracts and Interesting Case Reports

1:30–3:30 pm Liberty LM
Descending Thoracic Aortic Surgery
Moderator: Tara Brakke, MD FASE
1:30–1:50 pm Updates on Neuroprotection for Thoracic Aortic Procedures Jae-Hyon Bahk, MD PhD
1:50–2:10 pm Endovascular Repair: Anesthetic Management and Monitoring Recommendations Georgios (George) Nicolauou, MB BCh FRCP
2:10–2:30 pm Guideline Review: Indications for Surgery Nikolaos J. Skubas, MD FASE DSc
2:30–2:50 pm Open Repair: Anesthetic Management and Monitoring Recommendations Albert T. Cheung, MD
2:50–3:10 pm Hemodynamic Management and End Organ Protection Josh Zimmerman, MD FASE
3:10–3:30 pm Discussion

1:30–3:30 pm Liberty IJK
Research: How an SCA Research Award Contributed to My Career
Moderator: Paul M. Heerdt, MD PhD FCCP
1:30–1:50 pm Overview of the SCA Grant Program Paul M. Heerdt, MD PhD FCCP
1:50–2:10 pm How an SCA Grant Influenced My Career Path Matthias L. Riess, MD PhD
2:10–2:30 pm My SCA Grant as a Component of a Multicenter Trial Diedereik Van Dijk, MD
2:30–2:50 pm Where I Stand with My Current SCA Grant Nina C. Hauck-Weber, PhD
2:50–3:10 pm Panel: How to Get Published in the British Journal of Anesthesia Hugh Hemmings, MD PhD FRCA
3:10–3:30 pm Panel: How to Get Published in Anesthesia and Analgesia Charles W. Hogue, MD

1:30–3:30 pm Marquis 1–5
Problem Solving in Anticoagulation for CPB (Audience Response Session)
Moderator: Linda Shore-Lesserson, MD FAHA FASE
1:30–1:50 pm Heparin Sensitivity and Resistance Nian Chih Hwang, MBBS FFARCSI FAMS GDAcu
1:50–2:10 pm Heparin Dosing: Too Much, Too Little, or Just Right? David Daly, MBBA FANZCA MClinEpi
2:10–2:30 pm Alternatives to Heparin Stephen A. Esper, MD MBA
2:30–2:50 pm Heparin Induced Thrombocytopenia: Diagnosis and Management During CPB Andrea E. Duncan, MD MS
2:50–3:10 pm Heparin Reversal and Protamine Reactions Yee Eot Chee, MBBS MHA MA FANZCA FHKAMP GDipECHO PTEeXAM ASCeXAM
3:10–3:30 pm Discussion

3:30–4 pm Marquis & Liberty Foyers
Afternoon Break
**Schedule**

**Tuesday, April 14 (continued)**

### 4–6 pm

**Percutaneous Valve Surgery**  
*Moderator: Gautam Sreeram, MD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>4:20–4:40 pm</td>
<td>Which and Why? Transfemoral, Transapical, and Transaortic Approaches Ratna Vadlamudi, MD</td>
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<tr>
<td>4:40–5 pm</td>
<td>Does My Patient Need a General Anesthetic? Options for Anesthesia in the Cath Lab and Hybrid Room</td>
</tr>
<tr>
<td>5–5:20 pm</td>
<td>Ensuring Successful Deployment: Echo for Percutaneous Valves Chirojit Mukherjee, MD</td>
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<tr>
<td>5:20–5:40 pm</td>
<td>Will My Patient Wake Up and Live a Productive Life? Neurologic Outcomes and Future Areas of Investigation</td>
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<tr>
<td>5:40–6 pm</td>
<td>Discussion</td>
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### 4–6 pm

**SOCCA**  
*Moderator: Laureen L. Hill, MD MBA*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>4–4:20 pm</td>
<td>Optimizing Neuropsychological Function in the ICU Patient: OR to ICU Continuum David Grenda, MD PhD</td>
</tr>
<tr>
<td>4:20–4:40 pm</td>
<td>Endocrine Predictors of Outcome in Critical Illness Peter Von Homeyer, MD FASE</td>
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<tr>
<td>4:40–5 pm</td>
<td>To What End? Emerging Technologies for Organ Perfusion Assessment Gebhard Wagener, MD</td>
</tr>
<tr>
<td>5–5:20 pm</td>
<td>Renal Replacement Therapy: Does Dose Matter? Abbas Al-Qamari, MD</td>
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<tr>
<td>5:20–5:40 pm</td>
<td>Critical Care Articles of the Year Kevin W. Hatton, MD FCCM</td>
</tr>
<tr>
<td>5:40–6 pm</td>
<td>Discussion</td>
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### 4–6 pm

**Ventricular Assist Device (VAD) Update (Audience Response Session)**  
*Moderator: J. Daniel Muehlschlegel, MD MMSc FAHA*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>4–4:20 pm</td>
<td>What’s New in Ventricular Support: Review of VAD Technologies Josh Zimmerman, MD FASE</td>
</tr>
<tr>
<td>4:20–4:40 pm</td>
<td>RV Failure During LVAD Placement: Mechanisms and Management Annette Vegas, MDCM FRCPC FASE</td>
</tr>
<tr>
<td>4:40–5 pm</td>
<td>Anesthesia for VAD Placement: Clinical Pearls Jason D. Kennedy, MD</td>
</tr>
<tr>
<td>5–5:20 pm</td>
<td>Managing VAD Patients Undergoing Noncardiac Surgical Procedures Eugene A. Hessel, II, MD FACS</td>
</tr>
<tr>
<td>5:20–5:40 pm</td>
<td>Total Artificial Heart K. Annette Mizuguchi, MD PhD MMSc</td>
</tr>
<tr>
<td>5:40–6 pm</td>
<td>Discussion</td>
</tr>
</tbody>
</table>
Schedule: Workshops

Workshops Coordinator: Michael P. Eaton, MD

Saturday, April 11

10 am–1 pm  Liberty NOP
**Morning Workshop**
**Workshop 1: Percutaneous Valve**
**Moderators:** Kathryn Glas, MD MBA FASE; Gautam Sreeram, MD

- TAVR: Where We Are in 2015 Joerg Ender, MD
- Mitral and Pulmonic Valves: State of the Art G. Burkhard Mackensen, MD PhD FASE
- Optimal Imaging Modalities for Percutaneous Valves Candice R. Montzingo, MD
- Controversial Topics in Anesthetic Management Brian J. Gelfand, MD FACS; Konstantine Tzimas, MD
- Challenging Cases Joerg Ender, MD; Madhav Swaminathan, MD FASE
  Hands-On Stations
  - Assessment of Percutaneous Aortic Valves Stanton K. Sherman, MD FAHA FASE; Annemarie Thompson, MD; Fabio Guarracino, MD
  - Assessment of Percutaneous Mitral and Pulmonic Valve Repair Techniques Chirojit Mukherjee, MD; Candice R. Montzingo, MD; G. Burkhard Mackensen, MD PhD FASE

2–5 pm  Liberty NOP
**Afternoon Workshop**
**Workshop 2: Transthoracic Echocardiography**
**Moderator:** Tara Brakke, MD FASE

- The Basic TTE Exam Josh Zimmerman, MD FASE
- Basic TTE Views and the Comparison TEE Views Sasha K. Shillcutt, MD FASE
- Expanding Your Practice: A Cardiac Anesthesiologist’s Guide to TTE Julian Stephens Bick, MD
  Hands-On Stations
  - Heartworks Simulator Josh Zimmerman, MD FASE; Julian Stephens Bick, MD
  - CAE Simulator Candice R. Montzingo, MD; Walker Thomas, BA RDCS FASE
  - GE Machine Live Models Nicholas W. Markin, MD; Jonathan Ho, MD
  - Philips Machine Live Models Sasha K. Shillcutt, MD FASE; Ravi Vivekanand Joshi, MD

Sunday, April 12

9:30 am–12:30 pm  Liberty NOP
**Morning Workshop**
**Workshop 3: Fundamentals of Aortic Reconstruction**
**Moderators:** Bradley S. Taylor, MD MPH; Andrew Weisinger, MD FASE

- Introduction Bradley S. Taylor, MD MPH; Andrew Weisinger, MD FASE
  Hands-On Stations
  - CSF Drainage Jason D. Kennedy, MD; K. Annette Mizuguchi, MD PhD MMSc
  - Point-of-Care Coag Testing Gregory A. Nuttall; MD, Kenichi Tanaka, MD
  - Airway Management R. Lebron Cooper, MD; Yasdet Maldonado, MD
  - TEVAR Tools and Techniques Bradley S. Taylor, MD MPH; Jacob T. Gutsche, MD
  - Neurologic Monitoring Daryl Oakes, MD; Suhaini Kadiman, MD
  - Cannulation-Bypass Support C. David Collard, MD MS; Chad E. Wagner, MD

2–5 pm  Liberty NOP
**Afternoon Workshop**
**Workshop 4: Cardiopulmonary Bypass**
**Moderators:** Eugene A. Hessel, II, MD FACS; Gregory M. Janelle, MD FASE

- Introduction Gregory M. Janelle, MD FASE
- Basics of Perfusion: Equipment/Monitoring Andrew Pitkin, MRCP FRCA
- Evidence-Based Perfusion Goals Eugene A. Hessel, II, MD FACS
- Complications Kenneth G. Shann, CCP
  Hands-On Stations
  - Basic Circuit
  - Going On and Coming Off CPB
  - Complications Perfusionist David C. Fitzgerald, BS CCP; Robert C. Groom, MS CCP; Uriah Dudgeon, MHS CCP; Ron Angona, MS CCP
Schedule: Workshops

Monday, April 13

2–5 pm  
Liberty NOP

**Workshop 5: Advanced Transesophageal Echocardiography**  
*Moderator: Feroze Mahmood, MD*

- How Does This Thing Work? Learning to Teach Echo with a Simulator  
  Feroze Mahmood, MD
- Beyond Good and Bad: Quantitative Analysis of Right Ventricular Function  
  Alexander Mittnacht, MD FASE
- Strain and Speckle Tracking for Ventricular Function  
  Alina Nicoara, MD FASE
- TEE Imaging in Infectious Conditions: Endocarditis and Aortic Root Abscess  
  Ravi Vivekanand Joshi, MD

**Hands-On Stations**

- Echo Simulation: Training the Trainer  
  Feroze Mahmood, MD
- Quantitative Right Ventricular Assessment  
  Alexander Mittnacht, MD FASE; Kimberly Howard-Quijano, MD MS
- Speckle and Strain Tracking  
  Alina Nicoara, MD FASE; Madhav Swaminathan, MD FASE
- What a Mess! TEE Imaging in Acute Endocarditis  
  Ravi Vivekanand Joshi, MD

Tuesday, April 14

2–5 pm  
Liberty NOP

**Workshop 6: Case-Based Echocardiography**  
*Moderators: Alina Nicoara, MD FASE; Sasha K. Shillcutt, MD FASE*

- Case-Based, Small-Group Discussions
- Tricuspid Regurgitation in MV Surgery: When to Intervene  
  Nicholas W. Markin, MD
- Unsuspected AS in a CABG Patient  
  Candice R. Montzingo, MD
- Challenges in Adult Congenital TEE  
  Christopher A. Troianos, MD
- Post Valve Repair Assessment: When to Return to Bypass  
  Nikolaos J. Skubas, MD FASE DSc
- Valvular Lesions in the VAD Patient: When to Fix  
  Annemarie Thompson, MD
- Disasters in the Cath Lab  
  Wanda M. Popescu, MD

Wednesday, April 15

8–11 am  
Shaw/Ledroit

**Workshop 7: Fellow Transesophageal Echocardiography Review Session**  
*Moderators: William (Skip) C. Culp, Jr., MD FASE; Roman Sniecinski, MD FASE*

- Ultrasound Physics  
  Madhav Swaminathan, MD FASE
- Artifacts and Pitfalls  
  Justiaan Swanevelder, MBChB MMed(Anes) FCA(SA) FRCA
- Hemodynamic Calculations  
  Mary Beth Brady, MD FASE
- Congenital Heart Defects  
  Kathryn Rouine-Rapp, MD
- Diastology  
  Wanda M. Popescu, MD
- Closing Remarks and Panelist Q & A

8–11 am  
University DC/Catholic University

**Workshop 8: 3D TEE**  
*Moderators: Sasha K. Shillcutt, MD FASE*

- Introduction to 3D Imaging Modalities and Live 3D Acquisition  
  Nicholas W. Markin, MD
- Gated 3D Imaging: 3D Full Volume and Color Flow Imaging  
  Candice R. Montzingo, MD FASE
- Common Applications and 3D Workflow in the OR  
  Douglas C. Shook, MD FASE

**Hands-On Stations**

- Station 1: (Basic) George Burke Whitener, MD
- Station 2: (Intermediate) Alina Nicoara, MD FASE
- Station 3: (Basic) Logan Kosarek, MD; Erik P. Anderson, MD
- Station 4: (Basic) Candice R. Montzingo, MD FASE; Tara Brakke, MD FASE
- Station 5: (Intermediate) Josh Zimmerman, MD FASE
- Station 6: (Intermediate) Walker Thomas, BA RDCS FASE
- Station 7: (Off-cart laptop, Advanced) Georges Desjardins, MD
- Station 8: (Off-cart laptop, Advanced) Nicholas W. Markin, MD
Schedule: Workshops

8–11 am  Capitol/Congress

Workshop 9: EP—Perioperative Management of Pacers and ICDs
Moderators: Jonathan Ho, MD; Saket Singh, MD

Guidelines for Perioperative Management of Patients with a Cardiac Implantable Electrical Device Annemarie Thompson, MD
Pacemaker Function and Programming Aman Mahajan, MD PhD
Pacemaker Failures: What’s Real, What’s Not! Peter Schulman, MD

Hands-On Stations
  Station 1: Kimberly Howard-Quijano, MD MS
  Station 2: Aman Mahajan, MD PhD
  Station 3: Annemarie Thompson, MD
  Station 4: Jonathan D. Leff, MD
  Station 5: Peter Schulman, MD
  Station 6: Temporary Pacing J. Prince Neelankavil, MD
  Station 7: Chest X Ray J. Prince Neelankavil, MD
Schedule: Fellow/Junior Faculty Program

**Saturday, April 11**

10–11 am  Complex Case Poster Presentations  Marquis Foyer & Salons 12–14
Moderators: Makoto Ozaki, MD; Robert M. Savage, MD FACC; Daniel A. Tolpin, MD; John A. Fox, MD; Albert T. Cheung, MD; Sugantha Sundar, MD; Antonio Hernandez, MD; Mark T. Nelson, MD MEd

1–2 pm  Complex Case Discussion with Expert Panel  Monument
Panelists: James H. Abernathy, III, MD MPH FASE FAHA; Colin Royse, MD MBBS FANZCA; Annemarie Thompson, MD

2–3 pm  A Career in CT Anesthesiology: Mission Possible  Monument
Panelists: Joerg Ender, MD; Colleen Koch, MD MS MBA FACC; William S. Whitley, MD

3:30–4:45 pm  PBLD: Transcatheter Aortic Valve Replacement  Monument
James H. Abernathy, III, MD MPH FASE FAHA; Ioanna Apostolidou, MD; Dalia Banks, MD FASE; Wendy K. Bernstein, MD MBA; Mark A. Chaney, MD; Albert T. Cheung, MD; J. Mauricio Del Rio, MD; Joerg Ender, MD; John A. Fox, MD; Carlos Galhardo, Jr., MD; Brian J. Gelfand, MD FACS; Donna Greenhalgh, MBChB FRCA FFICM; Antonio Hernandez, MD; Nian Chih Hwang, MBBS FFARCSI FAMS GDAcu; Colleen Koch, MD MS MBA FACC; Chirojit Mukherjee, MD; J. Prince Neelankavil, MD; Makoto Ozaki, MD; Colin Royse, MD MBBS FANZCA; Robert M. Savage, MD FACC; Jack Shanewise, MD FASE; Michele L. Sumler, MD; Sugantha Sundar, MD; Nelson L. Thaemert, MD; Annemarie Thompson, MD; Daniel A. Tolpin, MD; William S. Whitley, MD; Justin W. Wilson, MD

5–6 pm  Complex Case Poster Presentations  Marquis Foyer & Salons 12–14
Moderators: Makoto Ozaki, MD; Robert M. Savage, MD FACC; Daniel A. Tolpin, MD; Wendy K. Bernstein, MD MBA; Justin W. Wilson, MD; Nian Chih Hwang, MBBS FFARCSI FAMS GDAcu; Mark A. Chaney, MD; Jack Shanewise, MD FASE; J. Mauricio Del Rio, MD; J. Prince Neelankavil, MD

**Sunday, April 12**

10–11 am  Complex Case Poster Presentations  Marquis Foyer & Salons 12–14
Moderators: John A. Fox, MD; Albert T. Cheung, MD; Dalia Banks, MD FASE; Sugantha Sundar, MD; Wendy K. Bernstein, MD MBA; Michele L. Sumler, MD; Nelson L. Thaemert, MD; Brian J. Gelfand, MD FACS; Ioanna Apostolidou, MD; Chirojit Mukherjee, MD

5–6 pm  Complex Case Poster Presentations  Marquis Foyer & Salons 12–14
Moderators: Antonio Hernandez, MD; Mark T. Nelson, MD MEd; Justin W. Wilson, MD; Michele L. Sumler, MD; Nelson L. Thaemert, MD; Brian J. Gelfand, MD FACS; Ioanna Apostolidou, MD; Carlos Galhardo, Jr., MD; Douglas C. Shook, MD FASE; John A. Fox, MD

**Wednesday, April 15**

8 am–11 am  Workshop 7: Fellow Transesophageal Echocardiography Review Session  Shaw/Ledriot
Moderators: William (Skip) C. Culp, Jr., MD FASE; Roman Sniecinski, MD FASE
Ultrasound Physics Madhav Swaminathan, MD FASE
Artifacts and Pitfalls Justiaan Swanevelder, MBChB MMEd(Aanes) FCA(SA) FRCA
Hemodynamic Calculations Mary Beth Brady, MD FASE
Congenital Heart Defects Kathryn Rouine-Rapp, MD
Diastology Wanda M. Popescu, MD
Closing Remarks and Panelist Q & A
## Schedule: PBLDs

**Problem-Based Learning Discussions**

**PBLD Coordinator: Michael P. Eaton, MD**

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

### Sunday, April 12 (6:45–8 am)

<table>
<thead>
<tr>
<th>PBLD 1</th>
<th>Modifying Renal Injury Risk in Cardiovascular Surgery</th>
<th>Magnolia</th>
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<tbody>
<tr>
<td>PBLD 2</td>
<td>Lung Transplantation</td>
<td>Cherry Blossom</td>
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<tr>
<td>PBLD 3</td>
<td>Navigating Off-Pump CABG Surgery</td>
<td>Dogwood</td>
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<tr>
<td>PBLD 4</td>
<td>Rational Treatment of Post-CPB Bleeding</td>
<td>Scarlet Oak</td>
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<tr>
<td>PBLD 5</td>
<td>Negotiating Payments for Anesthesia Services with Bundling and Capitation</td>
<td>Silver Linden</td>
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<tr>
<td>PBLD 6</td>
<td>Lung Protective Ventilation in the OR—It Does Matter!</td>
<td>Tulip</td>
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<tr>
<td>PBLD 7</td>
<td>Avoiding Problems with Pacemakers and ICDs</td>
<td>Senate</td>
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<tr>
<td>PBLD 8</td>
<td>Preventing and Managing Neurological Dysfunction After Cardiac Surgery</td>
<td>Mint</td>
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<tr>
<td>PBLD 9</td>
<td>STS/SCA: Functional MR</td>
<td>Treasury</td>
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### Monday, April 13 (6:45–8 am)

| PBLD 10 | Brain Protection During Deep Hypothermic Circulatory Arrest | Magnolia |
| PBLD 11 | ECMO in Practice | Cherry Blossom |
| PBLD 12 | Robotic Cardiac Surgery | Dogwood |
| PBLD 13 | Noncardiac Surgery and the Adult Congenital Heart Patient | Scarlet Oak |
| PBLD 14 | Transcutaneous Aortic Valve Replacement (TAVR) | Silver Linden |
| PBLD 15 | Prevention and Management of Atrial Fibrillation After CT Surgery | Tulip |

### Tuesday, April 14 (6:45–8 am)

| PBLD 16 | Descending Thoracic Aortic Repair: Spinal Cord Protection Strategies | Magnolia |
| PBLD 17 | Global Health: How Can I Do My Share as a Cardiac Anesthesiologist? | Cherry Blossom |
| PBLD 18 | Conflict Resolution | Dogwood |
| PBLD 19 | Ventricular Assist Devices: Troubleshooting After Implantation | Scarlet Oak |
| PBLD 20 | Blood Conservation and Management | Silver Linden |
| PBLD 21 | Teaching and Learning TTE in a Busy Practice | Tulip |

### Wednesday, April 15 (6:45–8 am)

| PBLD 22 | Cardiac Surgery in the Parturient | Magnolia |
| PBLD 23 | The Perioperative Surgical Home in Cardiac Surgery: Pre-Op Optimization to 30 Days Post-Op | Cherry Blossom |
| PBLD 24 | Mitral Repairs: Acute Severe Mitral Regurgitation | Dogwood |
| PBLD 25 | Pregnancy and HOCM | Scarlet Oak |
| PBLD 26 | What to Do About Secondary Tricuspid Regurgitation | Silver Linden |
Scientific Abstracts and Posters

Best of Meeting Abstract Oral Presentations: Session 1

**Monday, April 13, 10:30 am–12:30 pm**

**Room: Liberty NOP**

1. **Severity of Tricuspid Regurgitation Associated With Long-Term Mortality in a 21,000-Patient Cohort of Cardiac Surgical Patients**
   Jamahal Luxford, MBBS; Carolyn Butler; Kerry Wilusz, BA; Douglas Shook, MD FASE; Danny Muehlischlegel, MD; John Fox, MD; Stanton Sherman, MD FASE; Brigham and Women’s Hospital

2. **Increased Sirtuin 3 Expression and Signaling Confers Natural Cardioprotection in Hibernating Mammals**
   Mihai Podgoreanu, MD; Qing Ma, MD; Zhiquan Zhang, PhD; Quintin Quinones; Brian Barnes, PhD; Duke University; University of Alaska

3. **Aortic Atheroma Increase the Risk of Long-Term Mortality**
   Carolyn Butler; Kerry Wilusz, BA; Chuan-Chin Huang, ScD; Stanton Sherman, MD FASE; Danny Muehlischlegel, MD; Brigham and Women’s Hospital

4. **A Multistate Analysis of Post-Operative Morbidity and Mortality Rates for Carotid Artery Stenting (CAS) al-ra**
   Robert White, MD; Bess Storch, MD; Wu Wu, MPH; Licia Gaber-Baylis, BA; Gregory Giambrone, MS; Ramin Zabih, PhD; Peter Fleischut, MD; NewYork-Presbyterian Hospital/Weill Cornell Medical College; New York University; Cornell University

5. **Myocardial Longitudinal Strain Predicts the Need for Inotropic Support After Cardiopulmonary Bypass**
   Richard Sheu, MD; Xiaohong Li; Andrea Duncan, MD; Cleveland Clinic

6. **Improved Ability to Predict Postoperative Atrial Fibrillation With the McSPI AFRisk Index Versus the CHA2DS2Vasc or POAF Scores**
   Nathan Waldron; Mary Cooter, MSc; Rebecca Klinger, MD MS; Miklos Kertai, MD PhD; Mihai Podgoreanu, MD; Mark Stafford-Smith, MD; Mark Newman, MD; Joseph Mathew, MD; Duke University

7. **Molecular Mechanism of Anesthetic-Induced Depression of Myocardial Contraction**
   Tao Meng, PhD Student; Wei Dong Gao, PhD MD; Johns Hopkins University School of Medicine

8. **Acute Right Ventricular Failure After Heart Transplantation: Trends and Patient Characteristics**
   David Ruffin, MD; Mary Cooter, MSc; Mark Stafford-Smith, MD; Raquel Bartz, MD MMCi; Madhav Swaminathan, MD FASE; Carmelo Milano, MD; Chetan Patel, MD; Alina Nicoara, MD

Best of Meeting Abstract Oral Presentations: Session 2

**Tuesday, April 14, 10:30 am–12:30 pm**

**Room: Liberty NOP**

9. **PPARγ Agonist Rosiglitazone Provides Neuroprotection in Atherosclerosis-Prone JCR Rats Following Deep Hypothermic Circulatory Arrest: A Pivotal Role of Sirtuin 6**
   Qing Ma, MD; Zhiquan Zhang, PhD; Mihai Podgoreanu, MD; Duke University Medical Center

10. **Effects of Metabolic Syndrome With or Without Obesity on Outcomes After Coronary Artery Bypass Graft: A Cohort and 5-Year Study**
    Fei Xu, MD; Hushan Ao; Fuwai Hospital

11. **Effects of Race and Common Genetic Variation on Therapeutic Response Disparities in Postoperative Atrial Fibrillation**
    Nazish Hashmi, MB BS; Mary Cooter, MSc; Yi-Ju Li, PhD; Miklos Kertai, MD PhD; Joseph Mathew, MD; Mark Stafford-Smith, MD; Mark Newman, MD; Madhav Swaminathan, MD FASE; John Alexander, MD MHS; Mihai Podgoreanu, MD; Duke University Medical Center

12. **Impact of Acute Kidney Injury on Long-Term Kidney Function in Patients Undergoing LVAD Placement**
    Mias Pretorius, MBCHB MSCi; Frederic Billings, MD; Vanderbilt University Medical Center; Vanderbilt University School of Medicine

13. **Intravenous Lidocaine Reduces Transcerebral Inflammatory Response During Cardiac Surgery**
    Rebecca Klinger, MD MS; Igor Akushevich; Miles Berger, MD PhD; Mihai Podgoreanu, MD; Mark Stafford-Smith, MD; Mark Newman, MD; Thomas Ortel, MD PhD; Ian Welsby, MBBS FRCA; Jerrold Levy; Joseph Mathew, MD; Duke University Medical Center

14. **Flow Cytometry Reveals Species-Specific, Tissue-Specific, and Hibernation-State-Specific Differences in Innate Immunity and Response to Surgical Ischemia-Reperfusion**
    Quintin Quinones; Qing Ma, MD; Michael Smith, MS; Janet Staats, BS; Cliburn Chan, MBBS PhD; Kent Weinhold, PhD; Brian Barnes, PhD; Mihai Podgoreanu, MD; Duke University; University of Alaska Fairbanks

15. **Gene Expression in Human Left Atria of Patients With and Without Atrial Fibrillation After Cardiac Surgery**
    Martin Sigurdsson, MD PhD; Mahyar Heydarpour, PhD; Louis Saddic, MD PhD; Tzuu-Wang Chang, PhD; Stanton Sherman, MD FASE; Danny Muehlischlegel, MD; Simon Body, MD; Brigham and Women’s Hospital

16. **Validation of the FORE-SIGHT Elite Pediatric Tissue Oximeter in Children**
    Viviane Nasr, MD; Lisa Bergersen, MD MPH; Paul Benni, PhD; Rachel Bernier, MPH; Michelle Anderson, RN BSN; Barry Kussman, MBBCH
Scientific Abstracts and Posters

Poster Session 1: Perioperative Medicine Abstracts

Room: Marquis Foyer & Salons 12-14

17: Poor Post-Operative Blood Pressure Control in Cardiac Surgery Patients Is Associated With Acute Kidney Injury and Death
Felix Balzer, MD MSC; Solomon Aronson, MD MBA; Sascha Treskatsch, MD; Claudia Spies, MD; Professor Li Ding, MS MA; Jason Campagna, MD PHD; Michael Sander, MD; Charite Duke University School of Medicine; The Medicines Company, Inc.

18: The Effects of Dexmedetomidine on Postoperative Renal Function in Valvular Heart Surgery: A Randomized, Placebo-Controlled Study
Lee Woo Kyung; Jae-Kwang Shim, MD; Yon Hee Shim, MD PhD; Young-Lan Kwak, MD; Yonsei University College of Medicine

19: Intraoperative Awareness in Cardiac Surgery: A Large Retrospective Observational Study
Qingshui Zheng Bachelor; Qian Wang, MD; Hushan Ao

20: Dexmedetomidine Reduces Delirium After Cardiac Surgery: A Randomized, Controlled Trial
George Djaiani, MD; Natalie Silverton, MD; Rita Katznelson, MD; Rima Styra, MD ME; Jo Carroll, RN BHA; Vivek Rao MD PhD; Ludwik Fedorko, MD PhD FRCP; Toronto General Hospital; UHN

21: Serum Glial Fibrillary Acid Protein Levels Are Associated With Postoperative Neurocognitive Dysfunction After Non-Cardiac But Not Cardiac Surgery
Charles Hogue, MD; Tommy Rappold, BS; Daijiro Hori, MD; Allen Everett, MD; Gayane Yenokyan, PhD; Charles Brown, MD; Andrew Laflam, BS; The Johns Hopkins University School of Medicine; The Johns Hopkins University

22: Cortical Amyloid Burden Is Not Significantly Associated With Early Cognitive Dysfunction After Cardiac Surgery
Rebecca Klinger, MD MS; Olga James, MD; Salvador Borges-Neto, MD; Tiffany Bisnar, RN BSN CCRP; Yi-Ju Li, PhD; William White, MPH; Mark Newman, MD; Pudu Doraiswamy, MBBS; Joseph Mathew, MD; Duke University Medical Center

23: Clinical Prediction Model for Post-Cardiac Surgery Atrial Fibrillation in an Asian Population
Lian Ti, MBBS; Wei Zhang Nil; Sophia Chew; Weiling Liu, BSc; National University Health System Singapore; Yong Loo Lin School of Medicine; Singapore General Hospital; National University Health System

24: Risk Stratification in Cardiac Surgery by the Combined Use of Cerebral Oxygen Saturation and Growth-Differentiation Factor 15
Matthias Heringlake, MD; Hauke Paarmann, MD; Anna Beilharz; Astrid Berggreen, MD; Efstratios Charitos, MD PhD; University of Luebeck

25: The Association of Baseline Frailty and Postoperative Delirium After Cardiac Surgery
F. Louis Kirk, MD; Andrew LaFlam, BS; Laura Max; Karin Neufeld, MD MPH; Charles Hogue, MD; Aliaksei Pustavoitau, MD; Charles Brown, MD; Johns Hopkins

26: The Effects of Atrial Pacing for Hemodynamic Recovery Immediately After Rapid Ventricular Pacing in Transcatheter Aortic Valve Replacement
Prakash Patel, MD; William Vernick, MD; Wilson Szeto, MD; Robert Li, MD; Jeremy Kukafka, MD; Michael Fabbro; John Augoustides, MD; Jacob Gutsche, MD; University of Pennsylvania; Penn Presbyterian Medical Center

27: 6-Minute Walk Test as a Predictor of Perioperative Ischemic Events
Andrew Disque; Christine Nguyen-Buckley, MD; Anahat Kaur Dhillon, MD; Jacques Neelankavil, MD

28: Serum Nitric Oxide Is an Early Marker of Inflammation Following Cardiac Surgery
Tsz Chuen Chan; Kimberly Howard-Quijano, MD MS; Ji Youn Youn, PhD; Jennifer Scovotti, MA; Aman Mahajan, MD PhD; Hua Linda Cai, MD PhD; UCLA

29: Respiratory Failure After Open Repair of Thoracic and Thoracoabdominal Aortic Aneurysms
Dan Farber; Charles Acher, MD; Erich Marks, MD; Charles Acher, MD; Martha Wynn, MD; UW-Madison Hospital and Clinics

30: Albumin Administration Within One Day of On-Pump Cardiac Surgery Is Associated With Improved Survival When Compared With Crystallloid Fluid Therapy
Adam Kingeter, MD; Sibyl Munson; David Hayashida, BA; Martin Bunke, MD; Andrew Shaw, FCCM FRCA MB

31: Comparison of Postoperative Cognitive Dysfunction in Patients Undergoing Conventional vs. Miniaturized Cardiopulmonary Bypass: A Randomized, Controlled Trial
Lian Ti, MBBS; An Shing Ang, Student; Sophia Chew; Weiling Liu, BSc; National University Health System Singapore; Yong Loo Lin School of Medicine; Singapore General Hospital; National University Health System

32: The Reno-Protective Effect of Intraoperative Dexmedetomidine Infusion in Elective Coronary Bypass Graft Surgery
Anantachote Vimuktanandana, MD; Faculty of Medicine, Chulalongkorn University, Bangkok, NA

33: Transthoracic Echocardiography to Assess Intravascular Volume Status and Predict Hypotension After Induction of General Anesthesia in Non-Cardiac Surgery Patients
Christopher Tanaka, MD; Ofer Burshtain, MD; Shench Hsieh, PharmD MS; Singh Nair, MD; Jonathan Leff, MD; Montefiore Medical Center

34: The Incidence of Major Adverse Kidney Events (MAKE) Following Cardiac Surgery
Frederic Billings, MD; Mias Pretorius, MBCHB MSIC; Andrew Shaw, FCCM FRCA MB; Vanderbilt University
Scientific Abstracts and Posters

Poster Session 1: Perioperative Medicine Abstracts

Saturday, April 11, 12:30–1:30 pm (continued)

35: Intraoperative Left Ventricular Longitudinal Strain and Strain Rate Do Not Predict Postoperative N-Terminal Pro B-Type Natriuretic Peptide Concentrations
Geoffrey Lively, MD; Xiaohong Li; Andra Duncan, MD; Cleveland Clinic

36: Management of Post-Operative Pain in Transcatheter Aortic Valve Replacements: How Can We Do Better?
Lingesh Sivanesan, MD; Nikolaos Skubas, MD DSC FASE; Andrew Sosa, MD; Rajiv Shah, MD; Shreyajit Kumar, MD; Weill Cornell Medical Center

37: Does Impaired Right Ventricular Function Impact Postoperative Outcomes After Cardiac Surgery?
Sanyo Tsai; Andra Duncan, MD; Cleveland Clinic Foundation

38: Intrabdominal Hypertension and Acute Kidney Injury After Cardiac Surgery (IAH-KICS): Interim Analysis and Early Study Trends
Michael Mazzetti; Karin Wallace, RN BSN CCRN; Philip Roman, MD MPH; Patrick Odonkor, MD; Seema Deshpande, MD; Ashanpreet Grewal, MD; Erik Strauss, MD; Wendy Bernstein, MD MBA; Daniel Herr, MD; James Gammie, MD; Patrick Stafford, BS; La Toya Stubbs, BS; Peter Rock, MD MBA; Faisal Cheema, MD; University of Maryland School of Medicine; University of Maryland School of Medicine; University of Maryland

39: The Association of Post-Cardiac Surgery Delirium and Increased Length of Stay, Length of Stay in the ICU, and Hospital Charges
Daria Lymar, MD; Andrew LaFlam, BS; Laura Max; Karin Neufeld, MD MPH; Ashish Shah, MD; Glenn Whitman, MD; Charles Hogue, MD; Charles Brown, MD; Johns Hopkins University

40: Paravertebral Analgesia in Transapical Transcatheter Aortic Valve Replacement
Justin Pollak, MD; Frederick Cobey, MD MPH FASE; John Augoustides, MD; Christopher Connors, MD; Maine Medical Center; Tufts Medical Center; University of Pennsylvania

41: Withdrawn

42: Paravertebral Nerve Block Does Not Improve Arterial Oxygen Tension After Mini-Thoracotomy for Minimally Invasive CABG: A Retrospective Review
Brady Warnick, MD FRCP; Marc Ruel, MD MPH FRCSC; Benjamin Sohmer, MD; University of Ottawa Heart Institute

43: Effect of Sodium Bicarbonate on Prevention of Acute Kidney Injury in High-Risk Patients Undergoing Off-Pump Coronary Artery Bypass
Sowoon Ahn, MD; Sung Yong Park, MD; JongChan Kim, MD; YoungLan Kwak, MD PhD; CHA Bundang Medical Center; Ajou University College of Medicine; Yonsei University College of Medicine

205: Postoperative Nausea or Vomiting Apfel Score Validity Among Cardiac Surgery Patients
Vincent J. Umbrain, MD PhD; Christian Verborgh, PhD; Jan I. Poelaert; Jan Nijs

44: Anesthetic Management of Patients With Left Ventricular Assist Devices Presenting for Endoscopy
William Mauermann, MD; David Barbara, MD; Juan Pulido, MD; David Olsen, MD; Mayo Clinic Rochester

45: The Effect of High Spinal Anesthesia on the Incidence of Delirium Following Cardiac Surgery: A Historical Case-Control Study
Andrea Petropolis, MD; Doug Maguire, MD; Stephen Kowalski, MD; Hilary Grocott, MD; Trevor Lee, MD; Rakesh Arora, MD PhD FRCSC

46: Variation in Acute Kidney Injury Rates Following First-and Second-Staged Sequential Single-Lung Transplants in a Patient Cohort
Adam Varady, MD; Mark Stafford-Smith, MD; Jennifer Hauck, MD; Matthew Hartwig, MD; Madhav Swaminathan, MD FASE; Mihai Podgoreanu, MD; Joseph Mathew, MD; Duke University Medical Center

47: Serum Fluoride Levels During Long-Term Volatile Sedation Within the Intensive Care Unit
Angela Jerath, MBBS FANZCA; Kelvin Wong, BSc; Deep Grewal, MD; Niall Ferguson, MD FRCP; Andrew Steel, MB BS MRCP FRCA FFICM FRCP EDIC; George Djaiani, MD; Marcin Wasowicz, MD PhD; Toronto General Hospital; University of Toronto

48: Cardiopulmonary Bypass and Acute Pulmonary Dysfunction Following Cardiac Surgery
Ryan Butterworth, MD; Jonathan Wanderer, MD MPhil; Andrew Shaw, FCCM FRCA MB; Frederic Billings, MD; Vanderbilt University

49: Non-Cardiac Anesthesiologists Can Safely Provide Care for Patients Supported by Ventricular Assist Devices Presenting for Non-Cardiac Surgery: A 10-Year Retrospective Review From a High-Volume Tertiary Care Center
Joseph Hinchey, MD PhD; Marc Stone, MD; Adam Evans, MD; Christopher Sattler; Mount Sinai

50: Progression of Mitral Regurgitation After Lung Transplantation
Sharon McCartney, MD; Mary Cooter, MSc; Zainab Samad, MBBS MHS FAC; Joseph Sivak, MD; Anthony Castleberry, MD MMCi; Stephen Gregory, MD; John Haney, MD; Matthew Hartwig, MD; Madhav Swaminathan, MD FASE; Duke University Medical Center

51: The Inflammatory Response Between Miniaturized and Conventional Cardiopulmonary Bypass After Cardiac Surgery in an Asian Population
Lian Ti, MBBS; Roderica Ng; Sophia Chew; Weiling Liu, BSc; National University Health System; Yong Loo Lin School of Medicine; Singapore General Hospital

52: Apicoaortic Conduit: The Rise and Fall of a Procedure for High-Risk Patients in the TAVR Era
John McNeil, MD; David Lehenbauer, MD; John Conte, MD; Bryan Maxwell, MD; Johns Hopkins Hospital
Scientific Abstracts and Posters

53: Patient Characteristics and Surgical Factors Associated With Intraoperative Inhaled Nitric Oxide in Adult Cardiac Surgery
Megan Krajewski, MD; Mary Cooter, MSc; Betsy Hale, BS; Anne Cherry, MD; Duke University

54: Perioperative Dexmedetomidine Improves Outcome of Pediatric Cardiac Surgery Patients
Lei Li, MD; Hushan Ao; Fuwai Hospital

55: Intraoperative Beat-by-Beat Blood Pressure Variability (Area Under the Curve) and Postoperative Outcome in Cardiac Surgery: A Pilot Study
Fernando Mujica, MD; Balachundhar Subramaniam, MD MPH; Thomas Heldt, PhD; Priyam Mathur, MS; Kamal Khabbaz, MD; Adam Lerner, MD; Varesh Prasad; Beth Israel Deaconess Medical Center; Massachusetts Institute of Technology

56: Perioperative Takotsubo Cardiomyopathy: A Systematic Review of Published Cases
Matthew Bean; Manuel Castresana, MD; Shvetank Agarwal, MD; Resident; Professor; Assistant Professor

57: Influence of Left Ventricular Distension Associated With Ventricular Fibrillation During Pulmonary Valve Replacement on Postoperative Outcomes
Ji-Hyun Lee, MD; Eun-Jin Chung; In-kyung Song, MD; Jae-Hyon Bahk, MD; Jin-Tae Kim, MD; Eun-Hee Kim, MD; Seoul National University Hospital

58: Impact of Dexmedetomidine for Sedation in Cardiac Surgery on Post-Operative Atrial Fibrillation Incidence and ICU Length of Stay
Anupama Gopinath; Brian Kelly; Janis Breeze, MPH; Barbara Oxley, MS RN; John Devlin, PharmD FCCM; Russel Roberts, PharmD; Michael England, MD; Kenneth Warner, MD; Frederick Cobey, MD MPH FASE; Tufts Medical Center

59: Microvascular Reactivity and Clinical Outcomes in Cardiac Surgery
Susie Yoon, MD; Chang-Hoon Koo, MD; Jae-Hyon Bahk, MD; Deok-Man Hong, MD; Yunseok Jeon, MD; Seoul National University Hospital

60: Cardioprotection With Volatile Anesthesia During Coronary Artery Bypass Grafting
Nikola Bradic, MD; Ino Husedzinovic, MD PhD Professor; Andrej Sribar, MD; Cardiac Anesthesiology and Critical Care Medicine; Cardiac Anesthesiology and Critical Care

61: The Impact of Perioperative β-Blockers on Outcomes in Patients Undergoing Cardiac Surgery
Bo Dou, master’s degree; Fei Xu, MD; Shan Ao

62: A Retrospective Chart Analysis of Patients Undergoing Transmyocardial Laser Revascularization
Shvetank Agarwal, MD; Sachin Bahadur, MBBS; Manuel Castresana, MD; Georgia Regents University

63: Postoperative Pain Management by Morphine After the Cardiovascular Surgery
Koichiro Seki, MD; Hiroko Fukushima; Yuki Higa, MD; Atsuko Takata; Toshihiro Nohmi, MD; IMS Katsushika Heart Center

64: Impact of Dedicated Liver Transplant Anesthesia Team on Patient Safety and Clinical Outcomes in a Tertiary Care Medical Center
Anoop Chhina, MD; Dragos Galusca, MD; R. Lebron Cooper, MD; William Alarcon, MD; Naveen Gandreti, MDFASE
Scientific Abstracts and Posters

Poster Session 2: Basic Science, CV Anesthesia, Coagulation, Structural Heart Disease, and Thoracic Anesthesia Abstracts

Sunday, April 12, 12:30–1:30 pm

Room: Marquis Foyer & Salons 12-14

65: Thoracic Epidural Anesthesia Suppresses Cardiac Excitability Induced by Stellate Ganglion Stimulation in a Porcine Model
Kimberly Howard-Quijano, MD MS; Kentaro Yamakawa, MD; Tatsuo Takamiya, MD; Wei Zhou, PhD FAHA; Jeffrey Ardell, PhD; Kalyanam Shivkumar, MD PhD; Aman Mahajan, MD PhD; University of California–Los Angeles; UCLA

66: Platelet Activation as a Determinant of Inflammation and Tissue Injury in a Rat Model of Deep Hypothermic Circulatory Arrest
Jorn Karhausen, MD PhD; Hae Woong Choi, PhD; Laura Mitrescu, BS; Qing Ma, MD; Soman Abraham, PhD; Duke University; Duke University Medical Center

67: MiR-155 Ablation Reduces the Rate of Paralysis in a Mouse Model of TAAA Patients
Hamdy Elsayed Awad, MD; Sujatha Bhandary, MD; Anna Bratasz, PhD; Soumya Bouchachi; Motaz Abas, BS; Esmerina Tili, PhD; Ohio State University

68: Effects of Digoxin 24-Hour Exposure on Gene Expressions Related to Ventricular Remodeling in Cultured Cardiomyocytes
Henry Liu, MD; Marcia Henry, PhD; Geoffrey Liu, BA; Lisa Sangkum, MD; Nakeisha Landry-Pierre, MD; Sabrina Bent, MD; Alan Kaye, MD PhD; Frank Rosinia, MD; Tulane University Medical Center; LSUHSC-New Orleans

69: Changes in Myocardial Angiotensin II Levels During Cardiopulmonary Bypass in Cardiac Surgery
Michael Manning, MD PhD; Dawn Bowles, PhD; Michael Watson, BS; Mihai Podgoreanu, MD; Duke University; Duke University of Chicago

70: Administration of Prostamine Via Ascending Aorta May Improve Hemodynamic Stability and Postoperative Oxygenation
Joseph Roberts, MD; Edris Negron, MD; Kristen Wroblewski, MS; Ross Gaudet, MD; Mark Chaney, MD; University of Chicago

71: LOXL2: A Novel Target in Vascular Stiffness
Jochen Steppan, MD; Daijiro Hori; Steven An, PhD; Dan Berkowitz, MD; Lakshmi Santhanam, PhD; Johns Hopkins University

72: Aging and Autonomic Regulation of Right Ventricular Contraction Pattern
Paul Heerdt, MD PhD; Emma Heerdt; Cornell University; Greenwich High School

73: Epigallocatechin-3-Gallate, a Green Tea Catechin, Protects the Heart Against Regional Ischemia-Reperfusion Injuries Through Activation of RISK Survival Pathways in Rats
Kyung Yoo, MD PhD; Chonnam National University Hospital, Gwangju, Gwangju

74: Intraoperative Autologous Blood Donation in Cardiac Surgery: Physiological Changes in Oxygen Transport and Utilization
Matthew Bean; Julian Bass, CCP RRT; Mary Arthur, MD; Sanjay Dwarkanath, MD; Georgia Regents University

75: Macrophage Characteristics Persists Long After CPB Even After Uncomplicated Heart Surgery in Certain Individuals
Krzeszotf Laudanski, MD PhD; George Worthen, MD; Jacob Gutsche, MD; Pawan Alur; Wilson Szeto, MD; University of Pennsylvania; Children’s Hospital of Philadelphia

76: Transcaval Delivery of Transcatheter Aortic Valve Replacement in a Patient Unsuitable for Femoral, Apical, or Transaortic Approaches
William Nelson, MD; Rosemary Uzomba, MD; Brigham and Women’s Hospital

77: The Use of Dexmedetomidine and Intraoperative Acetaminophen for the Prevention of Postoperative Delirium in Cardiac Surgery Patients Over 60 Years of Age: A Pilot Study
Jason O’Neal, MD; Shruthi Dighe, MBBS MPH; Kashaine Gray, BS; Adam Lerner, MD; Daniel Talmor, MD; Edward Marcantonio, MD; Balachundhar Subramaniam, MD MPH; Beth Israel Deaconess Medical Center

206: Mast Cell Specific Chymase as an Early Marker of Inflammatory Activation Following Aortic Circulatory Arrest Procedures
Sreekanth R. Cheruku, MD; Yi-Ju Li, PhD; Wenjing Qi, PhD; Laura Mitrescu, BS; Miklos D. Kertai, MD PhD; G. Chad Hughes, MD; Joseph P. Mathew, MD; Jorn Karhausen, MD PhD

78: Impact of Opening Hours of the Post-Anesthetic Care Unit on Performance of a Fast Track Protocol
Chris Grass; Sarah Eibel, MD; Waseem Zakhar; Stefan Probst; Joerg Ender, MD; Heartcenter University Leipzig

79: Sedation Strategies for Procedures in the Cardiac Electrophysiology Laboratory
Julie DeVore, DO MPH; Anne Kamarchik, MD; Samir Saba, MD; Raveen Bazaz, MD; Kathirvel Subramaniam; MPH; University of Pittsburgh Medical Center

80: Sedation for Transfemoral TAVI: No General Anesthesia, No Problems?
Patrick Mayr, MD; Gunther Wiesner, MD PhD; Thomas Ried, MD; Juergen Knorr; MD; Peter Tassani, MD PhD; Deutsches Herzzentrum Muenchen, TUM

81: Anesthesia Management for the Transcatheter Aortic Valve Replacement
Nikola Bradic, MD; Ino Husedzinovic, MD PhD Professor; Andrej Sribar, MD; Daniel Unic, MD; Cardio Anesthesiology and Critical Care Medicine; Cardio Anesthesiology and Critical Care; Cardiac Surgery

82: Heparin Concentration (Hepcon HMS) vs. ACT-Guided Anticoagulation During Cardiac Surgery: A Meta-Analysis
Thomas Varughese, MBBS FRCA; Ravi Taneja, MBBS; Janet Martin, PhD; Blackpool Teaching Hospitals NHS Foundation Trust; University of Western Ontario
Scientific Abstracts and Posters

83: Risk Factors for Excessive Perioperative Blood Loss in Infants and Children Undergoing Surgery for Congenital Heart Disease
Kim Won Ho, MD; Hyo Jin Kim; Eunhee Kim, MD; Chung Su Kim; Samsung Changwon Hospital; Samsung Medical Center

84: A Randomized, Double-Blinded Trial Comparing the Efficacy of Tranexamic Acid and Epsilon-Aminocaproic Acid in Reducing Bleeding and Transfusion in Cardiac Surgery
Fiore Toscano, MD; Linda Shore-Lesserson, MD; Jonathan Leff, MD; Montefiore Medical Center; NSHS/Hofstra University

85: Lean Team Approach to Patient Blood Management
Eduardo Rodrigues, MD; Stephanie Helmer, MD; Ashley Crofton, Bachelors in Health Administration; Nilda Figueroa, RN; Frank Ray, MBA; Megan Gaul; Finances; Matthew Lundy; LINDSAY ABBEY, MHA; Nydia Matteau, MHA MT MLT(ASCP) SBB; Nancy Dawson, MD; Lia Toader; Mayo Clinic Florida; Mayo Clinic; CERNER

86: Incidence of Bleeding Complications and Symptomatic Thrombosis During Extracorporeal Membrane Oxygenation: A Retrospective Cohort Study
Michael Mazzelli; Keshava Rajagopal, MD PhD; Si Pham MD; Joy Lee, BS; Raymond Rector, CCP LP; Daniel Herr, MD; Kenichi Tanaka, MD

87: Morbidity Associated With the Use of Recombinant Factor VIIa in Pediatric Patients
Laura Downey, MD; Morgan Brown, MD; James DiNardo, MD; Lucille Packard Children's Hospital at Stanford University; Boston Children's Hospital; Boston Children's Hospital

88: The Utility of Routine Preoperative Coagulation Testing in Cardiac Surgery Patients
Tammy Mai, DO; Michael Eaton, MD; Peter Knight, MD

89: The Ability of the Transfusion Risk Understanding Scoring Tool (TRUST) and Thromboelastometry FIBTEM A10 to Predict Bleeding and Transfusion in Cardiac Surgical Patients
Michelle Shirak, MD; Melissa Cushing, MD; Michele Steinkamp, RN; Elizabeth Lemoine, BA; Thorsten Haas, MD; Natalia Ivascu, MD; Weill Cornell Medical College; University of Zurich

90: Is Point-of-Care Testing Cost Effective in a Mid-Size Community Hospital? A Retrospective Chart Review
Patrick Zieman-Gimmel, MD; Bart Warne, CCP; Derek Muehrcke, MD FACS; Allison Goldfarb, CRNA DNP; Coastal Anesthesiology Consultants; Flagler Hospital

91: Retrospective Matching Study: The Prophylactic Use of Recombinant Activated Factor VII in Aortic Surgery
Jingya Li, Master of Medicine; Hongwen Ji; State Key Laboratory of Cardiovascular Disease, Fuwai Hospital, National Center for Cardiovascular Diseases, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China

92: Using Platelet Aggregometry to Detect Coagulopathy in Aortic Replacement Surgery: A Pilot Study
Jia-Lin Chen, MD; Nathan Waldron; Ian Welsby, MBBS FRCA; Duke University

93: Quality Control of PCC Usage in Cardiac Surgery
Daniel Betterly, MD; Kamrouz Ghadimi, MD; Ian Welsby, MBBS FRCA; Duke

94: Risk Factors for Predicting Early Postoperative Bleeding After the Intermediate Bleeding Risk Cardiac Procedures
Eunhee Kim, MD; Eunjung Oh, MD; Seunghyeon Lee, MD; Jong Hwan Lee, MD PHD; Sangmin Lee, MD PHD; Samsung Medical Center

95: Obesity-Reduced Blood Loss and Transfusions in Patients Undergoing Coronary Artery Bypass
Mingya Wang, Bachelor; Hushan Ao; Fuwai Hospital, Chinese Academy of Medical Sciences

96: Change of the PA Flow Profile Immediately After the TCPC Conversion From APC-Fontan
Satoshi Kurokawa, MD; Shiori Sakuma, MD; Keita Sato, MD; Shihoko Ikata, MD; Yusuke Seino, MD; Minoru Nomura, MD; Tokyo Women's Medical University

97: Validation of the FORE-SIGHT Elite Tissue Oximeter for Measurement of Somatic Oxygenation in Children
Barry Kussman, MBBCH; Paul Benni, PhD; Lisa Bergersen, MD MPH; Rachel Bernier, MPH; Michelle Anderson, RN BSN; Viviane Nasr, MD; Boston Children's Hospital; CASMED, Branford, CT

98: Infants With Large, Single, or Multiple Ventricular Septal Defects and Preoperative Clinically Proven/Culture Positive Sepsis: Is Deferring Surgery the Solution?
Pravin Saxena, MD; Rajesh Sharma, MD; Anil Bhan, MD; Yatin Mehta, MD MNAMS FRCA; Medanta Medcity, Gurgaon, India; Medanta Medcity, Gurgaon, India

99: Anesthesia Management of a 43-Year-Old Male With Congenitally Corrected Transposition of Great Arteries and Review of Literature
Gustavo Munoz, MD; Roberto Diaz, MD; Sanjay Dwarakanath, MD; Georgia Regents University

100: Outcome of Neonates and Small Infants Undergoing Arterial Switch Operation With Preexisting Positive Markers of Sepsis: A Single-Center Experience
Pravin Saxena, MD; Rajesh Sharma, MD; Anil Bhan, MD; Yatin Mehta, MD MNAMS FRCA; Medanta Medcity; Medanta Medcity

101: Retrospective Study of Complete Atrioventricular Canal Defects: Anesthetic and Perioperative Challenges
Aniruddha Janai; Wilfried Bellinghausen; Martin Kostelka; Farhad Bakhtyari; Joerg Hambsch, MD; Ingo Dahnt, MD; Jörg Ender; Heartcenter University Leipzig, Germany

102: The Effects of Lateral Positioning and One-Lung Ventilation on Stroke Volume Variation Using Pulse Contour Measurements: A Prospective Study
Teresa Moon, MD; Shital Vachhani, MD; Piotr Kwiter, MD; Ensor Joe, PhD; January Tsai, MD; Gabriel Mena, MD; UT MD Anderson Cancer Center
Scientific Abstracts and Posters

Poster Session 2: Basic Science, CV Anesthesia, Coagulation, Structural Heart Disease, and Thoracic Anesthesia Abstracts

Room: Marquis Foyer & Salons 12-14

103: Management of Massive Hemoptysis
Luiz Maracaja, MD, University of Texas Health Science Center at San Antonio - Assistant Professor; Alejandro Hernandez, MD, Yale School of Medicine - Cardiothoracic Anesthesia Fellow; Yale School of Medicine

104: Comparison of Individually Modified Angled Tube and Conventional Angled Tube in Double-Lumen Tube Insertion: A Randomized, Controlled Clinical Trial
Jeong Jin Min, MD; Jong Hwan Lee, MD PhD; Sangmin Lee, MD PhD; Eunjung Oh, MD; Seunghyeon Lee, MD; Samsung Medical Center

105: Knowing the Angle of Right Upper Lobe Bronchus Brings the Resurgence of the R-DLT
Jean Bussières, MD; Michel Gingras; Lindsay Perron, MD; Jacques Somma; IUCPQ; Laval University

106: Knowing the Length of the Right Main Stem Bronchus Allows the Safe Use of the R-DLT
Jean Bussières, MD; Michel Gingras; Lindsay Perron, MD; Jacques Somma; IUCPQ; Laval University

107: The Clinical Effectiveness of Pulmonary Artery Catheters Use on Costs and Long-Term Outcomes in Coronary Artery Bypass Grafting Surgery
Fei Xu, MD; Hushan Ao; Fuwai Hospital

108: Risk of Acute Kidney Injury in Thoracic Surgery by Fluid Restriction and Use of Hydroxyethyl Starch
Yeon-Kyeong Yoo, MD; Hyun Joo Ahn; Jie Ae Kim; Mikyung Yang; Samsung Medical Center

109: Perioperative Management of Large Anterior Mediastinal Mass in 13-Year-Old Patient
Emil Malamud, MD; Abisola Ayodeji; Maimonides Medical Center

110: Algorithm for Performing One-Lung Isolation in Patients With Aberrant Tracheal Bronchi
Michael Adeleye, MD; Tao Hong, MD; Georgia Regents University
Scientific Abstracts and Posters

Poster Session 3: Echocardiography Abstracts and Quality Improvement Abstracts

Monday, April 13, 12:30–1:30 pm

Room: Marquis Foyer & Salons 12–14

111: Aortic Valve Coaptation Surface Area in the Setting of Aortic Insufficiency: 3D TEE Analysis of an Ex-Vivo Porcine and Finite Element Models
Marie-Eve Chamberland, MD; Talal Al-Atassi, MD MPH; Munir Boodhwani, MD MMSc; Michel Labrosse, PhD; Hadi Toeg, MD MSc; Benjamin Sohmer, MD

112: Evaluation of Left Ventricular Strain Using Speckle Tracking Echocardiography: A Comparison Between Two-Dimensional and Three-Dimensional Approaches
Junaid Nizamuddin, MD; Tiffany Lee, MD; Sajid Shahul; Beth Israel Deaconess Medical Center; University of Chicago

113: How Well Do Three-Dimensional Echocardiographic Measurements of Mitral Valve Prostheses Correlate With the Manufacturer's Standard Measurements?
Pingping Song, MD; Charles Nyman, MB BCh; Danny Muehlschlegel, MD; Stanton Shermam, MDFAE; John Fox, MD; Chuan-Chin Huang, ScD; Anne Purcell, BS; Douglas Shook, MDFAE; Brigham and Women's Hospital

114: Four-Dimensional Transesophageal Echocardiographic Evaluation of Mitral Valve Function After MitraClip Procedure
Tatyana Shkolnikova, MD; Kei Togashi, MD MPH; Donald Oxorn, MD; Thomas Jones, MD; Mark Reisman, MD; G. Burkhard Mackensen, MD PhDFAE; University of Washington; University of Washington; Seattle Children's Hospital

115: A Comparison of 2D and 3D Transesophageal Echocardiography in the Assessment of Mitral Valve Paravalvular Leaks
William Nelson, MD; Kerry Wilusz, BA; Chuan-Chin Huang, ScD; Stanton Shermam, MDFAE; Charles Nyman, MB BCh; Brigham and Women's Hospital

116: Left Ventricular Epicardial and Endocardial Strain Response to Acute Alterations in Preload
Reedar Harvey, MD; Kimberly Howard-Quijano, MD MS; Kentaro Yamakawa, MD; Tatsuo Takamiya, MD; Wei Zhou, PhDFAHA; Einat Mazor, BA RDCS; Aman Mahajan, MD PhD; UCLA; University of California–Los Angeles

117: Withdrawn

118: Method for Imaging the Delivery of Blood Cardioplegia Using Transesophageal Echocardiography
Luiz Maracaja, MD, University of Texas Health Science Center at San Antonio - Assistant Professor; Raj Modak, MD, Yale School of Medicine - Cardiothoracic Anesthesia Fellow; Olabode Ogunwole, MD, Yale School of Medicine - Assistant Professor; Robert Schonberger, MD; University of Texas Health Science Center at San Anotnio; Yale School of Medicine

119: Comparison of Aortic Stenosis Grading Parameters Between Preoperative Transthoracic and Pre-Bypass Transesophageal Echocardiography
George Whitener, MD; Joseph Sivak, MD; Igor Akushevich; Zainab Samad, MBBS MHS FACC; Madhav Swaminathan, MD FASE; Medical University of South Carolina; Duke University

120: Speckle-Tracking Analysis in Intraoperative Transesophageal Echocardiography: A Comparison to Simpson's and 3D Full-Volume Methods in Assessment of Left Ventricular Volumes and Ejection Fraction
Natalie Hamilton, MD; Kari Obma, MD; Tamas Seres, MD; University of Colorado

121: Does Left Ventricular Strain Predict Postoperative Morbidity After Aortic Valve Replacement in Patients With Preserved Ejection Fraction?
Abraham Sonny, MD; Andrea Duncan, MD; Cleveland Clinic, Cleveland, OH

Claire Dakik, MD; Emily Teeter, MD; Mary Cooter, MSc; Jeffrey Gaca, MD; Mark Stafford-Smith, MD; Brandi Bottiger, MD

123: Calculating Effective Regurgitant Orifice Area by the Standard PISA Method Underestimates Functional Mitral Regurgitation Severity
Phebe Ko, MD; James Hardy, MD; John Fox, MD; Douglas Shook, MDFAE; Frederick Cobey, MD MPHFAE; Chuan-Chin Huang, ScD; Stanton Shermam, MDFAE; Brigham and Women's Hospital; Tufts Medical Center

124: Pulmonary Artery Acceleration Time Does Not Accurately Estimate Pulmonary Artery Pressures in Patients Under General Anesthesia
Walter Quiroga Robles, MD; Christopher Tanaka, MD; Chaim Feigen; Michael Kho; Singh Nair, MD; Jonathan Leff, MD; Cynthia Taub, MD; Montefiore Medical Center/AECOM

125: Patterns of Rheumatic Heart Disease in a Large Cohort of Rwandan Surgical Patients
Carly Guthrie, MD; JaBaris Swain, MD; Claudia Sotillo, MSIV; Chuan-Chin Huang, ScD; Kerry Wilusz, BA; Joseph Mucumbitsi, MD MMEd; Leon Mutesa, MD PhD; Ralph Bolman, MD; Luigino Nascimben, MD PhD; Danny Muehlschlegel, MD; Martin Zammert, MD; Brigham and Women's Hospital; King Faisal Hospital

126: Two-Dimensional Transesophageal Echocardiography for Regional Evaluation of Intraoperative Right Ventricular Function: Is There a Role for Something Different Than Tricuspid Annular Plane Systolic Excursion?
Alejandro Hernandez, MD; Farzad Ebrahimi, MD; Feng Dai, PhD; Raj Modak, MD; Department of Anesthesia
Scientific Abstracts and Posters

Poster Session 3: Echocardiography Abstracts and Quality Improvement Abstracts

Monday, April 13, 12:30–1:30 pm (continued)

127: Intraoperative Right Ventricular Longitudinal Strain Is Not Associated With Adverse Outcomes After Left Ventricular Assist Device Implantation
Jackson Rowe, BS; Daniel Beck, MD; Angela Moss, MS Biostatistics; Tamas Seres, MD; Jennifer Dorosz, MD; Ashok Babu; T. Brett Reece, MD FACS FAHA; David Fullerton, MD; Joseph Cleveland, MD; Karsten Bartels, MD; University of Colorado Denver; Anesthesiology; Kaiser Permanente Denver

128: Low Agreement Between TTE and TEE on Evaluation of Less-Than-Severe Mitral Valve Regurgitation
Jonathan Hadaway, MD; Yong Peng, MD PhD; Terrie Vasilopoulos, PhD; University of Florida

129: Worsening Myocardial Performance Index Correlates With Increased Mortality in Sepsis
Junaid Nizamuddin, MD; Shahzad Shaefi, MD; Sajid Shahul; Beth Israel Deaconess Medical Center, Harvard Medical School; Beth Israel Deaconess Medical Center, Ha; University of Chicago

130: Diastolic Dysfunction as a Prognostic Factor for Patients Undergoing Transcatheter Aortic Valve Replacement
Jeffrey Lyvers, MD; Philip Krpachev, MD; Andrew Weintraub, MD; Bonnie Corrigan, RN BSN; Frederick Cobey, MD MPH FASE; Tufts Medical Center

131: The Relationship Between Pulmonary Vein Flow Propagation Velocity and Pulmonary Artery Occlusion Pressure Using M-Mode Color Flow Doppler Echocardiography
Farzad Ebrahim, MD; Alejandro Hernandez, MD; Feng Dai, PhD; Raj Modak, MD; Yale University

132: Bedside Focused Transthoracic Echocardiography in the Assessment of Acute Cardiopulmonary Abnormalities in the Post-Anesthesia Care Unit
Megan Lanigan, MD; Colin Boettcher, BA; Mojca Remskar Konia, MD PhD; Rehan Siddiqui, MD; Ying Lu, None; Michael Wall, MD; Ioanna Apostolidou, MD; University of Minnesota

133: Focused Cardiac Ultrasound (FoCUS): A Survey of Training Practices
Frederick Conlin, MD; Neil Connelly, MD; Adam Schwabauer, DO; Karthik Raghunathan, MD MPH; Jennifer Friderici; Research Assistant Professor

134: Transesophageal Echocardiography and Transthoracic Echocardiography Have a Low Agreement When Assessing Moderate RV and LV Systolic Dysfunction
Jason Drennan, DO; Yong Peng, MD PhD; Terrie Vasilopoulos, PhD; Robert Coviogton; University of Florida

135: Evaluating Right Ventricular Function With Transesophageal Echocardiography Before and After Pulmonary Artery Thromboendarterectomy Performed Under Deep Hypothermic Circulatory Arrest
Adrian Ionescu, MD; Vipin Mehta, MD FFARCSI; Massachusetts General Hospital - Harvard Medical School

136: Correlation Between Trans-Hepatic and Subcostal IVC Views to Assess IVC Variation: A Pilot Study
Jacobo Moreno Garjio, MD; Massimiliano Meineri, MD; Duminda Wijeyusundera, MD PhD; Toronto General Hospital; University Health Network.

137: Moderate Correlation and Fair Agreement Comparing Transthoracic Echocardiography (TTE) vs. Transesophageal Echocardiography (TEE) Modalities in Left Atrial (LA) and Left Ventricular End Diastolic Diameter (LVED) Measurements
Robert Covington; Terrie Vasilopoulos, PhD; Yong Peng, MD PhD; University of Florida

138: The Current State of Transesophageal Echocardiography at U.S. Academic Medical Centers
Aris Sophocles, MD; Prakash Patel, MD; Jacob Gutsche, MD; John Augoustides, MD; Ronak Shah, MD; Lance Aitchley, MD; Univ of Pennsylvania; University of Pennsylvania

139: Intraoperative Pulmonary Artery Acceleration Time as a Predictor of Systolic Pulmonary Artery Pressure
Joshua Quick, MD; Frederick Cobey, MD MPH FASE; Philip Krapchev, MD; Tufts Medical Center

140: Evaluation of Alfieri Repair With Doppler Technique vs. Planimetry Shows Different Results When Comparing Intraoperative and Pre-Discharge Measurements
Ahood Bukhary; Jaqueline Grace Da Rocha e Silva, MD; Joerg Ender, MD; Heart Center, University Leipzig

141: Intraoperative Pressure Half-Time Measurements by Transesophageal Echocardiography as an Endpoint for Goal-Directed Percutaneous Mitral Balloon Valvuloplasty
William Grubb, MD; Sagar Mungekar, MD; Lilianna Cohen, MD FACC; Mohammad Chaudhry; Rutgers Robert Wood Johnson Medical School; Rutgers Robert Wood Johnson Medical School

142: Intraoperative Right and Left Ventricular Strain and Strain Rate Do Not Predict Postoperative Atrial Fibrillation After Cardiac Surgery
Jody Chou, MD; Andra Duncan, MD; Xiaohong Li

143: The Role of Transesophageal Echocardiography in Endocardial Lead Extraction for Cardiac Implantable Electronic Device Related Infection: A Single-Center Experience
Luyang JIANG; Yi Feng, MD; Hui Ju, MD; Yan Jiang, MD; Peking University People’s Hospital

144: Acute Risk Change in Cardiothoracic Admissions to Intensive Care (ARCTIC): A New Metric for Identifying Quality of Care in Cardiac Surgery
Tim Coulson; Michael Bailey, PhD MSc BSc(hons); Chris Reid, PhD; Dan Mullany; Lavinia Tran, PhD; David Pilcher

145: Effects of Modified Ultrafiltration on Vancomycin Levels During Cardiopulmonary Bypass
Daniel Hernandez Barajas, MD; Aaron Seller, DO; Nikolaus Gravenstein, MD; Kent Berg, MD MBA; Jennifer Ashton, PharmD; Ettore Crimi, MD; Universit of Florida; University of Florida; UF Health
Scientific Abstracts and Posters

146: Intraoperative Midazolam Does Not Delay Extubation After Coronary Artery Bypass Grafting
Philip Roman, MD MPH; Sarah Cardillo, MD; Megan Anders, MD; Michael Mazzeffi; University of Maryland

147: Influence of Perioperative Factors on Early Extubation
Brian Kelly; Frederick Cobey, MD MPH FASE; Anupama Gopinath; Stefan Ianchulev, MD; Kenneth Warner, MD

148: Increased Tracheal Cuff Pressure During Insertion of a Transoesophageal Echocardiography Probe: A Prospective Observational Study
Chang-Hoon Koo, MD; Yunseok Jeon, MD; Deok-Man Hong, MD; Jae-Hyon Bahk, MD; Susie Yoon, MD; Seoul National University Hospital

149: Organ Donation Referral and Practice Audit on a Cardiac Intensive Care Unit
Norfaizan Ahmad, MB ChB; Sheffield UK; FRCA UK; Jonathan Rosser; Helen Brown, Registered general nurse; Sean Clinton, Consultant Cardiac Anaesthesia; Northern General Hospital NHS Trust; NHSBT UK

150: Effect of Anesthesia Practice Models on Measurable Outcomes in a Community Cardiac Surgery Program
Narisa Apichatibutra, MD; Wilfred Lewis, MD; Nathan Marengi, MD; Johanna O’Connor, MD; Ann Toran, MD FACS; North Shore Medical Center

151: Use of Bairhugger® and AllonThermoWrap® in Transcatheter Aortic Valve Replacement Surgery for Maintenance of Normothermia
Brian Kelly; Maurice Joyce, MD MED; Frederick Cobey, MD MPH FASE; Andrew Weintraub, MD; Stefan Ianchulev, MD; Jiten Patel

152: The Association of Intraoperative Midazolam Dose in Older Adults and Time to Extubation After Cardiac Surgery
Sunberri Murphy, DO; Ami Naik, MD; Laeben Lester, MD; Ashish Shah, MD; Charles Hogue, MD; Glenn Whitman, MD; Viachaslau Barodka, MD; Charles Brown, MD; Johns Hopkins

153: Analgesia Post-Cardiac Surgery Survey
Norfaizan Ahmad, MB ChB; Sheffield UK; FRCA UK; Alison Parnell, Consultant Cardiothoracic Anaesthesia; Tom Bendinger; Patrick Knowles, Consultant Cardiothoracic Anaesthesia; Northern General Hospital NHS Trust

154: Enhanced Recovery Is Safe and Facilitates Early Discharge in Cardiac Surgery
Thomas Varughese, MBBS FRCA; William Simpson, BSc MB ChB FRCA; Gillian Hardman, MBBS; Helen Saunders, MB ChB; Antony Walker, MB ChB FRCS(CTH) MD; Amal Bose, MD; Blackpool Teaching Hospitals NHS Foundation Trust; Blackpool Teaching Hospitals NHS Foundation; Blackpool Teaching Hospitals NHS Trust

155: Implementation of a Dedicated Stroke Team for Diagnosis and Treatment of Postoperative Strokes Following Cardiac Surgery
Gregory Kim; Germaine Cuff, PhD; Andre Bryan, MD; Peter Neuburger, MD; Marc Kanchuger, MD

156: Trend of Change in the Intraoperative Blood Glucose and Serum Potassium Level of Adult Patients Undergoing Off-Pump Coronary Artery Bypass (OPCAB) Surgery
Kapil Gupta, MD; Delhi, Delhi, India

157: Costs of Hospitalization and Anesthesia of Coronary Artery Bypass Graft Surgery in Beijing From 2010 to 2011
Sipong Chen, MD; Hushan Ao; Xin Zhang, BD; Capital Medical University; Fuwai Hospital
Scientific Abstracts and Posters

Poster Session 4: Perioperative Medicine Abstracts and Interesting Case Reports

Tuesday, April 14, 12:30–1:30 pm

Room: Marquis Foyer & Salons 12-14

158: Cardiorespiratory Dynamics of Using Volatile Agents for Long-Term Intensive Care Unit Sedation
Angela Jerath, MBBS FANZCA; Deep Grewal, MD; Andrew Steel, MB BS MRCP FRCA FFICM FRCP EDIC; Niall Ferguson, MD FRCP; George Djaiani, MD; Marcin Wasowicz, MD PhD; Toronto General Hospital

159: Echocardiography Did Not Provide a Predictive Value for Postoperative Atrial Fibrillation in Lung And Esophageal Cancer Surgery
Javier Lasala, MD; Juan Cata, MD; Jose Banchs, MD FACC FASE; Reza Mehran, MD; Di Ai, MD PhD; MD Anderson Cancer Center

160: Recent Pattern of Statin Use in Cardiac Surgery on Stroke and Mortality Outcomes
Vanetta Levesque, MD; Manuel Fontes, MD; Mihai Podgoreanu, MD; Mark Newman, MD; Joseph Mathew, MD; Mark Stafford-Smith, MD; Miklos Kertai, MD PhD; Duke University Medical Center

161: Elevated Preoperative Hemoglobin A1c Level Is Not Associated With Major Adverse Events in Patients Undergoing Isolated Valvular Cardiac Surgery
Amir Bardia, MMB; Priyam Mathur, MS; Adam Lerner, MD; Kamal Khabbaz, MD; Daniel Talmor, MD; Balachundhar Subramaniam, MD MPH; Beth Israel Deaconess Medical Center

162: Withdrawn

163: Patterns of Early Distant Organ Injury Following Adult Cardiac Surgery
Antonio Hernandez, MD; Andrea Westman, MD; Andrew Shaw, FCCM FRCA MB; Frederic Billings, MD; Vanderbilt University

164: Greater Intraoperative Fluid Administration Increases the Risk for Primary Graft Dysfunction After Lung Transplantation
Mariya Geube, MD; Silvia Perez-Protto, MD; Tony McGrath, MD; Andra Duncan, MD; Dongsheng Yang, MS; Daniel Sessler, MD

165: Prediction of Fluid Responsiveness in Patients With Atrial Fibrillation: Peep-Induced Increase in Central Venous Pressure vs. Passive Leg Raising
Young Song, MD; Jae-Kwang Shim, MD; Yon Hee Shim, MD PhD; Lee Woo Kyung; Young-Lan Kwak, MD; Yonsei University College of Medicine

166: Impact of Aorta Cross-Clamp and Cardioplegia on Myocardial Injury
Jeremy Bennett, MD; Susan Eagle, MD; Frederic Billings, MD; Vanderbilt University

167: Platelet Counts and Postoperative Stroke in Coronary Artery Bypass Surgery
Aimen El Manafi, MD MB ChB; Mary Cooter, MSc; Manuel Fontes, MD; Jorn Karhausen, MD PhD; Mark Stafford-Smith, MD; Mihai Podgoreanu, MD; Mark Newman, MD; Joseph Mathew, MD; Miklos Kertai, MD PhD; Duke University Medical Center

168: Impact of Increments of Propofol-Dosage on Left Ventricular Systolic Function During Propofol-Remifentanil Anesthesia for Cardiac Surgery
Tae-Yop Kim, MD PhD; Cheol-Hwan Park; Won-Kyoung Kwon; Nazri Mohamed, MD (UKM); Woon-Seok Kang; Joon Hum Yon, MD; Tae-Yoon Seong; Konkuk University Medical Center; Konkuk University School of Medicine; Sanggye Paik Hospital, Inje University; Konyang University Medical Center

169: Is Antibiotic Prophylaxis Warranted for the Prevention of Infective Endocarditis of the Native Bicuspid Aortic Valve? Yuka Kyota, MD MPh; Karam Habchi, BS BA; Vanessa Monteiro Vieira, Bachelor of Science in Biochemistry; Marzia Leacche, MD; Simon Body, MBChB MPH FAHA; Brigham and Women’s Hospital

170: Pituitary Apoplexy After On-Pump Coronary Artery Bypass Grafting in a Patient With Known Pituitary Macroadenoma
Blas Catalan, MD MPH; Sudipta Sen, MD; LSUHSC - Shreveport

171: Postoperative Nausea and Vomiting in Cardiac Surgery Patients and Caloric Intake: Is There a Link? Elisabeth De Waele, MD; Karien De Bondt; Vincent Uimbain, MD PhD; Duncan Nguyen: Herbert Spapen, MD PhD SCCM FCCM; University Hospitals Brussels

172: Immunosuppressive, Antiretroviral, and Perioperative Management of Two Human Immunodeficiency Virus-Positive Patients Undergoing Orthotopic Heart Transplantation Antonio Hernandez Conte, MD; Jon Kobashigawa, MD; Deanna Dilibero, PharmD; Michelle Kittleson, MD PhD; Lorraine Lubin, MD; Manxu Zhao, MD; W. David Hardy, MD; Fardad Esmailian, MD; General Anesthesia Specialists Partners; Cedars-Sinai Medical Center

173: Suboptimal Transseptal Puncture Leading to Device Capture in Anterolateral Chords During MitraClip Procedure, A Case Report
Amish Jasapara, MD; Chirojit Mukherjee, MD; Joerg Ender, MD; Heartcenter, University Leipzig, Germany; Heartcenter, University Leipzig, Germany

174: Extra Cardiac Tumor Misdiagnosed as a Left Atrial Myxoma
Si-Oh Kim, MD; Kwangook Choi; Seong Wook Hong; Dongho Jung; Younghoon Jeon; Kyungpook National University Hospital
Scientific Abstracts and Posters

175: Stroke Following Lariat Closure of Left Atrial Appendage
Kelly Kohorst, MD; Christopher Ellis, MD FACC FHS; Michael Baker, MD; Robert Deegan, MD PhD; Vanderbilt Univ Med Ctr

176: Case of Penetrating Cardiac Trauma Utilizing Adenosine to Facilitate Surgical Management
Charles Minh; Maninder Singh, MD; MetroHealth Medical Center

177: Pregnancy in Women With Fontan Physiology: The Role of Fontan Type in Maternal Cardiovascular and Obstetric Complications
Melissa McCabe, MD; Richard Hong, MD; Jamil Aboulhosn, MD FACC FScai; Mary Canobbio, MN FAAN FAHA; University of California Los Angeles

178: The Perioperative Management of an Adult Patient With Univentricular Heart, Who Underwent Fenestrated Fontan Procedure With Use of Extracardiac Conduit
Shihoko Iwata, MD; Yoko Hramura, MD; Ai Ogiwara; Kou Ishikawa; Fumiko Ono; Yuji Hirasaki, MD; Minoru Nomura, MD; Tokyo Women’s Medical Univ; Tokyo Women’s Medical University Hospital

179: Percutaneous Coronary Sinus Catheter Placement by Anesthesiologists in Minimally Invasive Cardiac Surgery in Our Academic Center
Satoshi Hanada, MD; Michael Swerczek, MD; Kenichi Ueda, MD; University of Iowa

180: General Anesthesia vs. Sedation for Transcatheter Aortic Valve Replacement
Michelle Scanlon, DO; Gregory Kim; Glen Quigley, MD MBA; Brent Luria, MD; Peter Neuburger, MD; Robert Nampiaparampil, MD; Marc Kanchuger, MD; Jennie Ngai, MD

181: Intraoperative Management of Patients With Left Ventricular Assist Devices Undergoing Endoscopic Procedures
Dennis Thiel, MD; Julia Sobol, MD MPH; Columbia University Medical Center

182: Transcatheter Medtronic Melody® Valve-in-Valve Implantation for Bioprosthetic Mitral Valve Dysfunction
Winston Choi, MD; Thomas Jones, MD; Srdjan Jelacic, MD; Donald Oxorn, MD; Mark Reisman, MD; G. Burkhard Mackensen, FASE MD PhD; University of Washington SOM

183: Use of Veno-Arterial ECMO to Manage Hypoxemia and Acute Cardiogenic Shock Induced by Catecholamines From Pheochromocytoma
Rehan Ali, MD; Suryanarayan Pothula, MD

184: Postoperative Outcomes After Percutaneous Left Atrial Appendage Ligation With the LARIAT Device: A Case Series
Marc Gutierrez, MD; Mias Pretorius, MBCHB MSCI; Christopher Ellis, MD FACC FHS; Vanderbilt University Medical Center

185: Transesophageal Echocardiographic Identification of Left Ventricular Assist Device Inflow and Outflow Cannulas: A Case Series
Andrea Westman, MD; Mias Pretorius, MBCHB MSCI; Vanderbilt University Medical Center

186: Percutaneous Closure of Aortic Pseudoaneurysm Using a Type II Amplatzer Vascular Plug With Transesophageal Echocardiography Guidance
Hyo Jin Kim; Eunjung Oh, MD; Seunghyeon Lee, MD; Eunhee Kim, MD; Jeong Jin Min, MD; Jong Hwan Lee, MD PhD; Sangmin Lee, MD PhD; Samsung Medical Center

187: Alfieri Stitch to Manage Mitral Regurgitation After Surgical Excision of a Mitral Valve Myxoma
Charles Minh; Maninder Singh, MD; MetroHealth Medical Center

188: Embolization of a Percutaneous Atrial Septal Closure Device
Rhett Hadley, MD; Anand Mehta, MD; Cleveland Clinic

189: Changing Mechanisms of Mitral Regurgitation During Repair and Role of Transesophageal Echocardiography in Outcome
Sohail Mahboobi, MD; Chhavi Manchanda; Ghaith Abdulkarim, MBBS; Lahey Clinic Medical Center; Lahey Hospital & Medical Center

190: Aortic Root Rupture During Transcatheter Aortic Valve Replacement
Nikola Bradic, MD; Ino Husedzinvic, MD PhD, Professor; Andrej Sribar, MD; Daniel Unic, MD; Cardiac Anesthesiology and Critical Care Medicine; Cardiac Surgery

191: Acute Limb Ischemia Caused by a Primary Cardiac Tumor in an 18-Year-Old
Hamdy ElSayed Awad, MD; Lisa Weaver, MD; Motaz Abas, BS; Mashhood Salahuddin, BS; Michael Essandoh, MD; Sujatha Bhandary, MD; Ohio State University

192: The Perioperative Management of a Patient With Transposition of Great Arteries Who Received Redo Aortic Valve Replacement Due to Implantated Freestyle Valve Insufficiency
Shihoko Iwata, MD; Ai Ogiwara; Yoko Haramura; Fumiko Ono; Kou Ishikawa; Minoru Nomura, MD; Tokyo Women’s Medical Univ; Tokyo Women’s Medical University Hospital

193: Acute Respiratory Compromise During Left Ventricular Assist Device Implantation
Michael Demos, MD; Oscar Aljure, MD; Univ of Miami Miller School of Medicine; University of Miami Miller School of Med

194: Continuous Paravertebral Blockade for Post-Thoracotomy Pain Following Transapical Transcatheter Aortic Valve Replacement: A Case Series
Timothy Heinke, MD; Brystol Henderson, MD; George Guldan, MD; Daniel Steinberg, MD; James Abernathy, MD MPH; Medical University of South Carolina

195: The Elephant in the Room: Anesthetic Considerations for a Patient With Carney Complex
Darian Rice, MD PhD; Robert O’Donnell, MD; Naval Medical Center Portsmouth

196: A Case of “Takotsubo” Cardiomyopathy Uncovered During General Anesthesia With Eventual Cardiovascular Collapse Requiring Epinephrine Rescue
Robert Trainer, MD; Jian Zhang, MD; Jimmie Watkins, MD PhD DDS
Scientific Abstracts and Posters

Poster Session 4: Perioperative Medicine Abstracts and Interesting Case Reports

Tuesday, April 14, 12:30–1:30 pm (continued)

197: Posterior Mitral Chordae Rupture During Balloon Mitral Valvuloplasty Requiring Surgical Intervention
Mohammad Chaudhry; Alann Solina, MD; Rutgers-Robert Wood Johnson Medical School

198: Intraoperative Use of Echo Contrast to Facilitate Diagnosis of Apparent Left Atrial Appendage Mass
Kelly Kohorst, MD; Jason Kennedy, MD; Robert Deegan, MD PhD; Vanderbilt University Medical Center

199: Aversion for Avulsion: A Case of Traumatic Tricuspid Rupture
Nicholas Goehner, MD; Wendy Bernstein, MD MBA; University of Maryland Medical Center

200: Atrial Myxoma Involving Right Upper Pulmonary Vein in an Elderly Patient: An Unusual Presentation
Joshua Newby, DO; Sudhakar Subramani, MD DNB PDCC MMed

201: Anomalous Coronary Artery: An Unusual Case
Christopher Ahrens, DO; Rajeswari Chintapalli, MD; Saint Louis University

202: Anaesthesia Management for “Anomalous Origin of Left Coronary Artery from Pulmonary Artery” Repair
Kapil Gupta, MD; Delhi, Delhi, India

203: Anesthetic Considerations and Management of a Patient With Stanford Type A Aortic Dissection Extending From the Aortic Root to the Right Common Iliac: A Story of Survival
Visal Patel, MD; Union City, NJ

204: Broad Beta Disease
Majid Ghodsi, MD; Tehran, Iran, Iran, Islamic Republic
Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations I

Saturday, April 11, 10–11 am

Room: Marquis Foyer & Salons 12–14

**B1:** Infective Endocarditis of Primary Pacemaker Lead Device Resulting in Severe Tricuspid Regurgitation Not Amenable to Percutaneous Intervention
Brittney Williams, MD BA; Wendy Bernstein, MD MBA

**B10:** Acute Heart Failure for Urgent Surgery: Takotsubo Cardiomyopathy Identified Prior to Anesthetic Induction
Lauren Steffel, MD; Jessica Brodt, MD; Stanford, CA; Stanford University School of Medicine

**B11:** Temperature Probe Position Confounding Double Lumen Endotracheal Tube Placement for Ventrilculopuleral Shunt
Jacob Schaff, MD; Michael Hershey, MD; Minjae Kim, MD MS; Sumeet Goswami, MD MPH; Columbia University Medical Center

**B12:** Cardiopulmonary Resuscitation and Cardiac Arrest in the Acute Postoperative Cardiac Surgery Patient: A Case of Coronary Graft Dehiscence Following Cardiac Massage
Brandon Lebow, MD; Owings Mills, MD; Wendy Bernstein, MD MBA; Baltimore, MD; Michael Mazzeffi, Fellow; Fellowship Director; Faculty Advisor

**B13:** Perioperative Considerations of Post-Myocardial Infarction Ventricular Septal Defect: Case Series
Nidhi Sheokand, MBBS, Iowa City, IA; Sudhakar Subramani, MD DNB PDCC MMed, Iowa City, IA; United States University of Iowa Hospital; University of Iowa

**B14:** Anesthetic Management of Patient With Large Anterior Mediastinal Mass With SVC Syndrome for SVC Stenting
Bradley Graustein, MD, Portland, ME

**B15:** Early Left Main Coronary Artery Occlusion After Surgical Aortic Valve Replacement
Jacqueline Lagoy, MD, New York, NY; Muoi Trinh, MD, New York, NY; Mount Sinai School of Medicine, New York, NY; Mount Sinai School of Medicine, New York

**B16:** Prophylactic Right-Sided Tandem Heart for Management of Potential Right Heart Failure Before Placement of a LVAD: A Novel Single-Vessel Percutaneous Approach
Ankit Jain, MBBS, North Arlington, NJ; Albert Ju, MD, Glen Ridge, NJ; Resident; Attending Anesthesiologist

**B17:** Transesophageal Echocardiogram Guided Right Ventricular Assist Device Cannulation During Minimally Invasive Left Ventricular Assist Device Implantation
Nicholas Anast, MD, Mountain View, CA; Ryan Mahaffey, MD, Palo Alto, CA; Lindsay Raleigh, MD, San Francisco, CA; Jessica Brodt, MD, Stanford, CA; Albert Cheung, MD, Stanford, CA; Stanford School of Medicine

**B19:** 3D Transesophageal Echocardiography Facilitates Transcatheter Closure and Management of Left Ventricular Outflow Tract to Left Atrial Fistula
Julio Benitez-Lopez, MD, Miami, FL; Jadelis Giquel, MD, Miami, FL; Christina Matadial, MD, Miami, FL; Oscar Aljure, MD, Miami, FL; Ricardo Martinez-Ruiz, MD, Miami, FL; Jackson Memorial Hospital; University of Miami

**B2:** Primary Pulmonary Artery Sarcoma: An Elusive and Rare Entity
Heather Hayanga, MD MPH, Baltimore, MD; Farrah Sajan, MD, Baltimore, MD; Ana Parsee, MD, Baltimore, MD; Stephen Yang, MD; Kenton Zehr, MD, Baltimore, MD; Laeben Lester, MD, Baltimore, MD; The Johns Hopkins Hospital

**B20:** Go With the Flow: Ruptured Sinus of Valsalva Into the Right Atrium
Wendy Nguyen, MD, Baltimore, MD; Seema Deshpande, MBBS, Baltimore, MD; University of Maryland

**B21:** Cardiopulmonary Bypass and Deep Hypothermic Circulatory Arrest in a Patient With Inherited Antithrombin Deficiency
Abraham Sonny, MD, Cleveland, OH; Shiva Sale, MD, Beachwood, OH; Cleveland Clinic, Cleveland, OH

**B22:** Torsades de Pointes Secondary to Amiodarone Infusion in HIV Patient Taking Antiretroviral Therapy
Brian Fischer, MD PhD, Milwaukee, WI; William O’Byrne, MD, Milwaukee, WI; Medical College of Wisconsin

**B23:** Hemodynamic Monitoring During a Total Aortic Arch Replacement in a Patient With a Bovine-Configuration Aortic Arch Aneurysm
Adrian Ionescu, MD, Boston, MA; Jason Qu, MD, Charlestown, MA; Massachusetts General Hospital - Harvard Medical School

**B24:** Emergent Removal of Embolized Atrial Septal Occluder Device and Defect Repair
Parker Gaddy, MD; Eric Nelson, DO

**B25:** Successful ECMO Support Withdrawal via Bilateral Single Lumen Bronchial Intubation on a Patient With a Tracheo Esophageal Fistula Repair
Oscar Aljure, MD, Miami, FL; Yiliam Rodriguez, MD, Miami, FL; Mona Ehasz, DO, Hollywood, FL; Jadelis Giquel, MD, Miami, FL; Nestor Villamizar, MD, Miami, FL; Anthony Panos, Miami Beach, FL; John Scarra, MD, Miami, FL; University of Miami/Jackson Memorial Hospital

**B26:** Cardiac Sarcoidosis: Challenging Anesthetic Management
Alexandra Baracan; Daniela Orza, MD; Cornel Mihalache, MD

**B27:** Oxygenator Thrombosis Upon Initiation of Cardiopulmonary Bypass Leading to Cerebral Infarction
Aaron Mittel, MD, Boston, MA; Balachundhar Subramaniam, MD MPH, Lexington, MA; Adam Lerner, MD, Georgetown, MA; Beth Israel Deaconess Medical Center; Harvard Medical School; Beth Israel Deaconess Medical Center

**B29:** Anomalous Hepatic Vein to Left Atrium Connection With Severe Mitral Regurgitation Resulting in Massive Left Atrium
Michael Dutt, MD; Muoi Trinh, MD, New York, NY; Mount Sinai Hospital
Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations I

Saturday, April 11, 10–11 am

B3: Anesthetic Management of a Young Adult Patient With Congenital Heart Disease Presenting for EGD
Abisola Ayodeji, Brooklyn, NY; Jason Fu, MD, Bayside, NY; Kalpana Tyagaraj, MD, Staten Island, New York; Maimonides Medical Center

B30: Transaortic Valve Gradients After Aortic Valve Replacement and Mitral Valve Replacement
Leonid Gorelik, MD, Columbus, OH; Michael Essandoh, MD, Columbus, OH; Galina Dimitrova, MD, Columbus, OH; The Ohio State University/Ross Heart Hospital

B31: New Severe Mitral Regurgitation After Ventricular Aneurysm Repair
Leonid Gorelik, MD; Michael Essandoh, MD, Columbus, OH; Galina Dimitrova, MD, Columbus, OH; The Ohio State University/Ross Heart Hospital

B32: Percutaneous Valve-in-Valve Deployment for Severe Symptomatic Bioprosthetic Tricuspid Valve Stenosis as an Alternative to Redo Sternotomy or Thoracotomy
Bruce Kaufman, MD; Neal Duggal, MD, Ypsilanti, MI; University of Michigan

B33: Transesophageal Echocardiographic Evaluation of a Double Chambered Right Ventricle Diagnosed in Adulthood
Oscar Aljure, MD, Miami, FL; Frank Gencorelli, MD, Miami, FL; Yliam Rodriguez, MD, Miami, FL; Richard Kardon, DO, Miami, FL; Eliot Rosenkranz, MD, Miami, FL; University of Miami/Jackson Memorial Hospital

B34: Intraoperative Diagnosis of an Asymptomatic Ascending Aortic Rupture
Megan Kostibas, MD, Columbia, MD; Mary Beth Brady, MD, Cockeysville, MD; Viacheslav Barodka, MD, Baltimore, MD; Heather Hayanga, MD MPH, Baltimore, MD; Johns Hopkins Hospital; Johns Hopkins Hospital; Assistant Professor of Anesthesiology

B35: A Successful Heart Transplant But a Sutured in Central Line Tip: A Re-Exploration That Could Be Avoided!
Ankit Jain, MBBS, North Arlington, NJ; Rajendra Raval, MD, Warren, NJ; Resident; Attending Anesthesiologist

B36: Convergent Atrial Fibrillation Ablation: Anesthetic Considerations
Kailian Chen; Walter Bethune, MD, Brooklyn, NY; Maimonides Medical Center

B37: Use of Mechanical Support for Failing Single Ventricle Physiology
Paul Jacobs, DO, Seattle, WA; Michael Hall, MD, Seattle, WA; Fellow, Cardiothoracic Anesthesiology; Faculty Mentor

B38: Ross Procedure in a Patient With Bicuspid Pulmonary Valve
Eva Caroline Gebhard, Montreal, QC, Canada; Georges Desjardins, MD FRCP FASE, Montréal, QC, Canada; Christian Ayoub; Jennifer Cogan, MD, Montreal, QC; Pierre Couture, MD, Montreal, QC; Andre Denault, MD, Longueuil, QC, Canada; Alain Deschamps, MD PhD, Montreal, QC, Canada; Jean-Sebastien Lebon, MD, Westmount, QC, Canada; Claudia Viens, MD, Montreal, QC, Canada; Ismail El-Hamamsy, MD PhD, Montreal, Quebec, Canada; Antoine Rochon, MD, Montreal, QC, Canada; Montreal Heart Institute

B39: Minimally Invasive Mitral Valve Replacement in a Patient With Previous Sternotomy and Severe Pulmonary Hypertension Requiring One-Lung Ventilation
Hilda Alfaro, MD, London, ON, Canada; Ivan Iglesias, MD FRCP FASE, London, ON, Canada; Mauricio Giraldo; Cardiac Anesthesiologist; Cardiac Anesthesia Fellow; Cardiac Anesthesiologist; Neuro Anesthesia Fellow

B4: Intraoperative Diagnosis and Management of a Left Atrial Intramural Hematoma
Esther Garazi, MD; David Burić, BS; Harish Siddaiah, MD; Ricardo Martinez-Ruiz, MD

B40: Septic Thrombus Removal and Aortic Valve Replacement in an End-Stage Renal Disease Patient With Fungal Septicemia
John Albert, MD, Cleveland, OH

B41: Anesthetic Management of Superior Vena Cava Syndrome Due to an Aortic Pseudoaneurysm in a Redo Aorta Operation: A Rare Clinical Presentation
Natasha Malackany; Jennifer Hargrave, DO, Cleveland, OH; The Cleveland Clinic

B42: Perioperative Management of Giant Right Atrial Myxoma
Jacob Uhler, MD, Dublin, OH; Michael Essandoh, MD, Columbus, OH; Michael Andritsos, MD, Dublin, OH; The Ohio State University Wexner Medical Center

B44: Fatal Arterial Air Embolism in a Patient With Left Ventricular Assistant Device (LVAD) During Transplant Surgery
Nelson Gonzalez, MD; John Murkin Murkin, Professor of Anesthesiology (Senate), London, ON, Canada; Schulich Medicine Western University

B45: Ligation of Tracheoesophageal Fistula (TEF) in a Neonate With Complex Congenital Heart Disease (CHD)
Deborah Romeo, MD ScM, Cincinnati, OH; Joanna Rosing, MD, Cincinnati, OH; Erica Lin, MD, Cincinnati, OH; Cincinnati Children’s Hospital Medical Center

B46: Intraoperative Management of Pulmonary and Tricuspid Valve Replacement for Carcinoid Right Disease
Sarah Dodd, MD, Rochester, MN; Martin Abel, MBBCH; Kent Rehfeldt, MD; Mayo Clinic
B47: Pulmonary Artery Aneurysm Involving the Main and Left PA in a Patient With Pulmonic Stenosis
Mina Oftadeh, DO, Chicago, IL; Pierre LeVan, MD, Maywood, IL; Taqdees Sheikh, MD, Maywood, IL; Neal Mehta, Chicago, IL; Loyola University Medical Center

B48: Placement of Transcatheter Bioprosthetic Aortic Valve in Descending Aorta for Treatment of Severe Aortic Valve Regurgitation
Pablo Guzman, MD; Jayson Morgan, MD; Raj Makkar, MD; Wen Cheng, MD; Robert Siegel, MD; Antonio Conte, MD MBA; Daniel Sullivan, MD

B49: TEE Finding of Systolic Anterior Motion of the Mitral Valve During Orthotopic Liver and Small Bowel Transplantation
Cale Kassel; Nicholas Markin, MD, Omaha, NE; Thomas Nicholas, MD, Omaha, NE; University of Nebraska Medical Center

B5: Repair of Acute Type A Aortic Dissection in a Spanish-Speaking Jehovah’s Witness Patient
Andrew Schroeder, MD, Madison, WI; Andrew Anderson, DO, Madison, WI; Richard Wolman, MD MA, Madison, WI; University of Wisconsin

B50: Large Right Atrial Myxoid Malignancy Diagnosed by Echocardiography
Austin Adams, MD; Nathan McIntire, MD; Mike Fee, MD

B51: Rescue Transcatheter Aortic Valve Replacement for Cardiogenic Shock Secondary to Stenosis of a Bioprosthetic Aortic Valve
Lindsay Raleigh, MD, San Francisco, CA; Nicholas Anast, MD, Mountain View, CA; Ryan Mahaffey, MD, Palo Alto, CA; Charles Hill, MD, Stanford, CA; Albert Cheung, MD, Stanford, CA; Vidya Rao, MD MBA, Stanford, CA; Stanford University School of Medicine

B52: The Perioperative Management of an Adult Patient With a Symptomatic Mediastinal Mass
Bradley Hammond, DO, Wilmington, DE; Cherie Erkmen, MD, Philadelphia, PA; Scott Schartel, DO, Dresher, PA; Michael Kereshtury, MD, Philadelphia, PA; Yidi Salamanca, MD; Glen Burnie, MD; TUHS

B53: Septal Resection for Hypertrophic Obstructive Cardiomyopathy: VSD That Led to an Orthotopic Heart Transplant
Philip Choi, DO; Pingle Reddy, MD FASE, Glen Allen, VA; David Farr, MD, Chesterfield, VA; Virginia Commonwealth University

B54: Superior Vena Cava Syndrome Following Adult Open Cardiac Surgery
Todd Peacock, MD, Winston-Salem, NC; Benjamin Morris, MD, Winston-Salem, NC; Wake Forest Baptist Health

B55: Anesthetic Management of Patient With Cor Triatrium, Persistent Left SVC, and Severe Pulmonary Hypertension
John Anderson-Dam, MD; Johanna Schwarzenberger, MD, Los Angeles, CA; UCLA

B56: One-Lung Ventilation in the Setting of Pulmonary Hypertension and a Left Ventricular Assist Device
Eleanor Vega, MD, Portland, OR; Valerie Sera, MD DDS, Portland, OR; Oregon Health and Science University

B57: Innominate Artery and Aortic Arch Aneurysm With Contained Rupture and Tracheal Compression
Nelson Burbano; Anand Mehta, MD; Asha Singh, MD

B58: Extracorporeal Membrane Oxygenation Placement Complicated by Heparin-Induced Thromboocytopenia and Hemorrhagic Shock
Nelson Burbano; Donn Marciniak, MD, Broadview Heights, OH; Asha Singh, MD, Cleveland, OH; Cleveland Clinic Foundation

B59: Remifentanil and Succinylcholine Use in TAVR Procedures Facilitating Early Extubation
Farhan Mazhar, MD, Schaumburg, IL; Chiranjeet Saha, MD MS, Oak Park, IL; Resident; Attending

B6: Pericardial Window With Acute Pulmonary Edema Managed With Extracorporeal Membrane Circulation (ECMO) and Intraoperative Use of the TandemHeart System
Alexandra Lewis; Sugantha Sundar, MD

B60: Simultaneous Endovascular and Surgical Repair of Multiple Aortic Anomalies in a Patient With Turner Syndrome
Eleanor Vega, MD, Portland, OR; Stephen Robinson, MD, Portland, OR; Oregon Health and Science University

B7: Two Dissecting Ascending Aneurysms With Pericardial Rupture
Tyson Vandagriff, MD, Columbia, MO; Joseph Reeves-Viets, MD MBA, Columbia, MO; University of Missouri-Columbia; University of Missouri-Columbia

B8: Alternative Management of Post-Deployment Embolization of Prosthetic Aortic Valve Into the Left Ventricle Following TAVR
Jonathan Hadaway, MD, Gainesville, FL; Julia Bauerfeind, MD, Gainesville, FL; Dustin Hegland, MD, Gainesville, FL; J. Christopher Goldstein, MD, Gainesville, FL; University of Florida

B9: Like a Rock: Atypical Presentation of a Heavily Calcified Atrial Myxoma
Chinwe Nwosu, MD, Baltimore, MD; Seema Deshpande, MBBS, Baltimore, MD; Resident; Assistant Professor

B239: Reoperative Mechanical Aortic Valve Replacement in a Patient With Dwarfism
Craig Belon, MD; Joanthan Hastie

B240: Transesophageal Echocardiography Revealed Left Arterial Rupture in Patient With Whom Left Ventricle Rupture Were Suspected After Mitral Valve Replacement
Toshihiro Kono, MD; Yoshihiko Ohnishi, MD; Kenji Yoshtani, MD
Resident/Fellow Complex Case Presentations

Complex Case Oral Presentation With Expert Panel

Saturday, April 11, 1–2 pm

Room: Monument

Profound Hypotension Caused by an Unrecognized Aortocaval Fistula in a Patient Undergoing Coronary Artery Bypass Grafting
Ryan Butterworth, MD; Mias Pretorius, MBCHB MSCI; Nashville, TN; Vanderbilt University Medical Center

Novel Cannulation Approach for TandemHeart™ Right Ventricular Assist Device in Setting of Internal Jugular Venous Thrombosis and Bilateral Subclavian Stenosis
Stacy Krueth, Los Angeles, CA; Danny Ramzy, MD PhD, Los Angeles, CA; Antonio Conte, MD MBA, Los Angeles, CA; Lorraine Lubin, MD, Playa Del Ray, CA; Diba Daneshrad, MD, Cedars Sinai Medical Center; Cedars-Sinai Medical Center

The Cabral Baffle: Achieving Hemostasis in a Patient With a Pseudoaneurysm of the Mitral-Aortic Intervalvular Fibrosa Undergoing Redo Aortic Root Replacement With Homograft for Endocarditis
Adrian Ionescu, MD, Boston, MA; Carolyn Mehaffey, MD Boston, MA; Massachusetts General Hospital–Harvard Medical School

Transcatheter Closure of Aortopulmonary Fistula: Role of Intraoperative Transesophageal Echocardiography
Abraham Sonny, MD, Cleveland, OH; Anand Mehta, MD, Cleveland, OH; Cleveland Clinic, Cleveland, OH
Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations II

Saturday, April 11, 5–6 pm

Room: Marquis Foyer & Salons 12–14

B28: Coronary Artery Graft Thrombosis From Undiagnosed Factor V Leiden Deficiency Immediately After Coronary Artery Bypass Surgery
Vandy Gaffney, MD MS, North Augusta, SC; Tyler Lee Evans, DO, Evans, GA; Vikas Kumar, Augusta, GA; Sanjay Dwarkanath, MD, Augusta, GA; Resident Physician; Supervising Physician

B100: Rare Complication of Atrio-Esophageal Fistula After Ablation for Atrial Fibrillation
Michael Fabbro; Jonathan Frogel, MD, Philadelphia, PA; Jared Feinman, MD, Philadelphia, PA; Prakash Patel, MD, Newtown, PA; University of Pennsylvania

B101: CPAP and Sedation for SVC Stent Placement for Severely Symptomatic SVC Syndrome: The Best Anesthetic in a Difficult Situation!
Man Piu Wong, MD, Boston, MA; John Fox, MD, Hanover, MA; Robert Pilon, MD, Boston, MA; Alisa Suzuki Han, MD, Boston, MA; Galina Davidyuk, MD PhD, Boston, MA; Brigham and Women's Hospital

B102: Sepsis and Cardiopulmonary Bypass
Wesley Allen, MD, Columbia, MO; Magda Miller, MD, Columbia, MO; Joseph Reeves-Viets, MD MBA, Columbia, MO; University of Missouri-Columbia

B103: Acute Ischemic Ventricular Septal Defect and Inferior Wall Aneurysm Necessitating Emergent Veno-Arterial Extracorporeal Life Support Complicated by Heparin-Induced Thrombocytopenia and Non-Coronary Aortic Valve Thrombus on Bivalirudin
Gregory Weiss, MD, Lafayette, Colorado; Kari Obma, MD, Denver, CO; University of Colorado Hospital

B104: Open Heart Implantation of a Melody Valve in a Native Mitral Valve With Mitral Annular Calcification
John Charoonbara, MD, Belleville, NJ; Himani Bhatt, DO MPA, Forest Hills, NY; Icahn School of Medicine at Mount Sinai

B105: Massive Air Embolism Treated With Targeted Temperature Management
Tyler Lee Evans, DO, Evans, GA; Erin Switzer, DO, Evans, GA; Vikas Kumar, Augusta, GA; Sanjay Dwarkanath, MD, Augusta, GA; Manuel Castresana, MD, Augusta, GA; Georgia Regents University

B106: Concurrent Transcatheter Aortic and Mitral Valve-in-Valve Implantation via the Transapical Approach in a High-Risk Patient With Double Degenerated Bioprostheses
Loren Manne, MD; Ettore Crimi, MD, Gainesville, FL; Thomas Beaver, MD, Gainesville, FL; University Florida, College of Medicine

B107: The Central Role of Nitric Oxide in Vasopressor-Refractory Protamine Hypotension
June Chan, MBBS FANZCA, New York, NY; Adam Lichtman, MD FASE, Brooklyn, NY; Emil Bogdanov, MD, New York, NY; New York Presbyterian Hospital-Weill Cornell Medical Center

B108: Postoperative Neurologic Compromise Related to Migration of Native Valve Fragment Following Robotic Mitral Valve Annuloplasty
Michelle Scanlon, DO; Gregory Kim; Glen Quigley, MD MBA; Robert Nampiaparampil, MD; Jennie Ngai, MD

B109: Bridging to Transplant: Anesthetic Management of a Left Ventricular Assist Device Implantation Without Cardiopulmonary Bypass
Matthew Waldron, MD, Chicago, IL; Rima Griaudze, MD, Chicago, IL; University of Florida; Northwestern University

B110: Combined Adrenal Pheochromocytoma Resection and Off-Pump CABG
Bradley Coker, MD, Birmingham, AL; Benjamin Tuck, MD, Mountain Brook, AL; James Sparrow, MD, Birmingham, AL; Brad Hymel, MD, Baton Rouge, LA; Fellow; Attending

B111: Isolated Right-Sided Endocarditis and Severe Septic Emboli
Christopher Der, MD; Diba Daneshrad, MD; Antonio Conte, MD MBA; Lorraine Lubin, MD

B112: Transcatheter Aortic Valve Replacement Complication: Uncertainties of Primary Valve Deployment
Nawar Al-Rawas, MD, Gainesville, FL; Kent Berg, MD MBA, Gainesville, FL; Gregory Janelle, MD FASE, Gainesville, FL; Robert Timmerman, MD, Gainesville, FL; University of Florida

B113: 57-Year-Old, 150-kg Female With Rheumatic Valve Disease and Tracheal Stenosis for Robotic Mitral Valve Replacement
Justin Tawil, MD, Pittsburgh, PA

B114: Inadvertent Right Atrial Perforation During Pulmonary Artery Catheter Insertion in a Patient With Indwelling Pacemaker Wires
Cory Robertson, MD; Pushpa Koyyalamudi, MD; Seth Baker, MD

B115: Cardiac Tamponade Presenting as a Posterior Effusion Secondary to Right Ventricular Perforation During TAVR and Pacemaker Placement
John Berry; Feroze Mahmood, MD, Sharon, MA; Beth Israel Deaconess Medical Center

B116: Perioperative Management of a Hysterectomy Patient With a Difficult Airway and a Previous Fontan Procedure
Michelle Gorgone, MD, Dorchester, MA; Joseph Weidman, MD, Boston, MA; Massachusetts General Hospital

B117: An Unusual Case of Main Pulmonary Artery Stenosis
Ellen Richter, MD, Atlanta, GA; Mark Caridi-Scheible, MD, Atlanta, GA; Emory University Hospital

B118: Hypermetabolic Syndrome Masked by Cardiopulmonary Bypass in a Man With Idiopathic Cardiomyopathy
Christopher Press, MD, Palo Alto, CA; Jimmy Wong; Stanford University Medical Center
Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations II

Saturday, April 11, 5–6 pm (continued)

B119: Complications of the Mitral Clip
Aaron Wolfe, MD; Ravi Vivekanand Joshi, MD, Dallas, TX; Norman Huang, DO, Carrollton, TX; University of Texas Southwestern

B120: Atrioventricular Groove Tear During Mitral Valve Repair: A Case Report
Gerald Rosen, MD, Miami Beach, FL; Jonathan Lin, MD, Miami, FL; MSMC; Mount Sinai Medical Center

B61: Acute Supravalvular Aortic Stenosis After Type A Aortic Dissection Repair
Phebe Ko, MD, Boston, MA; Jeffrey Swanson, MD, Cambridge, MA; Charles Nyman, MB BCh, Waban, MA; Stanton Sherman, MD FASE, Boston, MA; Michael D’Ambra, MD, Cambridge, MA; Brigham and Women’s Hospital

B62: Isolated Pulmonary Native Valve Infectious Endocarditis (PNVIE)—A Rare Event With a Rare Organism
Huan Wang, MD, Brookline, MA; Nelson Thaemert, MD, Boston, MA; Brigham and Women’s Hospital

B63: Experience of Recall of Intraoperative Awareness After Cardiac Surgery
Hye Joo Yun; Ji-Yeon Sim

B64: Acquired Gerbode Defect in a Patient Following Mitral Valve Replacement
Nathan Lee, MD, Albuquerque, NM; Lev Deriy, MD, Albuquerque, NM; Neal Gerstein, MD FASE, Albuquerque, NM; Kirsten Tolstrup, MD FACC FASE, Albuquerque, NM; University of New Mexico School of Medicine

B65: A Case of Severe Biventricular Failure and Cardiac Arrest Secondary to Acute Eosinophilic Necrotizing Myocarditis Rescued on Venoarteriovenous ECMO
Nicholas Yeldo, MD, West Bloomfield, MI

B66: Pain Control and Sedation in a Patient on Extracorporeal Membrane Oxygenation: An (In)Consistent Challenge
Marilyn Michelow, MD; David Silver, MD; Lauren Cornella, MD

B67: Perioperative Considerations of Transient Severe Mitral and Tricuspid Regurgitation Secondary to Dysrhythmia and Pacemaker Augmented Dysynchrony
Pankaj Jain, MD, Cleveland, OH; Jennifer Hargrave, DO, Cleveland, OH; Cleveland Clinic Foundation

B68: Explant of Aortic Endo-Graft, Case Report and Anesthetic Considerations
Alexandre Gottlieb, MD, Cleveland, OH; R. Pol; J Alvares, MD; Cleveland Clinic; Fellow

B69: Massive Pulmonary Embolism During Bilateral Lung Transplantation Diagnosed With Transesophageal Echocardiography
Leah Gross, MD; Stephen Bird, San Antonio, TX; UTHSCS; SAUSHEC

B70: Aortic Root Replacement With Concurrent Glioma
Daniel Broderick, MD, Atlanta, GA; Sofia Fischer, MD, Atlanta, GA; Emory University School of Medicine

B71: Successful Repair of Traumatic Retrohepatic Vena Cava Injury by Using Cardiopulmonary Bypass
Michael McClain, DO, Lexington, KY; Oksana Klimkina, MD, Lexington, KY; University of Kentucky

B72: Intramural Esophageal Hematoma After Transesophageal Echocardiography for Percutaneous Mitral Valve Repair With MitraClip
Matthew McConnell, MD, Cleveland Heights, OH; Jennifer Hargrave, DO, Cleveland, OH; Cleveland Clinic

B73: Unicuspid Aortic Valve With a Right Aortic Arch and a Persistent Left Superior Vena Cava Requiring an Aortic Valve Replacement and Ascending Aortic Aneurysm Repair
Cesar Padilla, MD, Los Angeles, CA; Harish Ram, MD, Los Angeles, CA; Manxu Zhao, MD, Los Angeles, CA; Resident; Cardiac Anesthesiology Fellow; Anesthesia Attending

B74: An Unexpected Finding After Unsuccessful Percutaneous Tricuspid Valve Replacement
Marc Gutierrez, MD, Nashville, TN; Mias Pretorius, MBCHB MSCI, Nashville, TN; Vanderbilt University Medical Center

B75: Migrating Aortic Valve Placed via Trans Apical Approach
Matt Maxwell, MD MPH, Iowa City, IA; Srinivasan Rajagopal, MD, Iowa City, IA; University of Iowa Hospital

B76: Intracardiac Mass of Candida Albicans Following Total Parental Nutrition Use in a Medically Complicated Patient
Joann Bolton, MD, Atlantic Beach, FL; Archer Martin, MD, Jacksonville, FL; Mayo Clinic Florida

B77: Repeated Cardioplegic Arrest of Donor Allograft During Orthotopic Heart Transplant
Natalia Martinez Acero, Harrisburg, PA; Erina Ng, MD, Baltimore, MD; Theodore Cios, MD MPH, Hershey, PA; Behzad Soleimani, MD, Hershey, PA; Dmitri Guvakov, MD, Hershey, PA; Penn State University Hershey Med Center

B78: Left Ventricular Outflow Tract to Left Atrium Fistula Due to Aortic Homograft Endocarditis
Thuan Ho, MD; Tan Trinh, MD, Galveston, TX; Erin Sreshta, MD, Galveston, TX; University of Texas Medical Branch

B79: TEE-Guided Arterial Cannulation in Chronic Aortic Arch Dissection
Natasha Malackany; Shiva Sale, MD, Beachwood, OH; Cleveland Clinic

B80: Ascending Aortic Thrombus in a Nonaneurysmal Minimally Atherosclerotic Aorta
Dustin Dayton; Tara Humphrey, DO

B81: Acute Mitral Regurgitation Caused by Papillary Muscle Rupture After Acute Myocardial Infarction
Sarah Cardillo, MD; Patrick Odonkor, MD, Laurel, MD; U of Maryland School of Medicine

B82: Pulmonary Edema After Radiofrequency Ablation—Not All Ablation Catheters Are Equal!
Dirk Varelmann, MD DESA EDIC, Boston, MA; Frank Inglese, BS, Boston, MA; John Fox, MD, Hanover, MA; Brigham and Women’s Hospital
B83: Risk to Life and Limb: Prosthetic Valve Endocarditis With Subsequent Brachial Artery Thrombus
Gregory Kim, New York, NY; Paul Shekane, MD, New York, NY; June Rim, MD, New York, NY; Peter Neuburger, MD, New York, NY; Jennie Ngai, MD, New York, NY; New York University Medical Center

B84: Right-to-Left Shunting Across a Patent Foramen Ovale Causes Hypoxia in a Patient With Aortic Root Compression of the Right Atrium
Carly Guthrie, MD, Boston, MA; Charles Nyman, MB BCH, Waban, MA; Brigham and Women’s Hospital

B85: Right Ventricular Assist Device Utilization After Post Infarct Ventricular Septal Rupture Repair
Marco Del Castillo; Antonio Chiricolo, MD

B86: Pulmonary Vein Thrombosis Following Single-Lung Transplantation
Danielle McCall, MD, University of Louisville, Louisville, KY

B87: Percutaneous Extraction of a High-Risk AICD Lead With Large Vegetations: A Procedural Conundrum
Amanda Kleiman, MD; Gautam Sreeram, MD

B88: “Run Of My Life”: Anomalous Course of Left Main Coronary Artery in a Young Female Marathon Runner.
Poovendran Saththasivam, Philadelphia, PA; Michael Green, DO, Moorestown, NJ; Naomi Smukler, MD; Hahnemann/Drexel University

B89: Drain or No Drain? The Safety of CSF Drain Placement in an Emergent Type A Aortic Dissection Repair With TEVAR
Brystol Henderson, MD, Charleston, SC; James Abernathy, MD MPH, Charleston, SC; Eric Nelson, DO, Charleston, SC; Medical University of South Carolina

B90: A Case of Orthotopic Liver Transplant in a Patient With Brugada Syndrome
Kimberly Nicol, DO, Birmingham, MI; Santiago Uribe-Marquez, MD; Michael Isley, MD; Lebron Cooper, MD; Henry Ford Hospital, Detroit, MI

B91: Management of Iatrogenic Right Ventricular Free Wall Perforation During Epicardial VT Ablation: Percutaneous Repair With an Amplatzer Closure Device
Natalie Hamilton, MD, Denver, CO; Matthew Zipse, MD, Denver, CO; John Messenger, MD, Aurora, CO; John Carroll, MD, Aurora, CO; William Sauer, MD, Aurora, CO; Ashok Babu; Tamas Seres, MD, Aurora, CO; University of Colorado

B92: Tricuspid Valve Rupture During AngioVac Suction Pulmonary Embolectomy
Omar Satter, MD, Los Angeles, CA; Lorraine Lubin, MD, Playa Del Ray, CA; Cedars-Sinai Medical Center

B93: Transesophageal Echocardiography Guides Surgical Intervention in a Patient With Platypnea Orthodeoxia Syndrome Undergoing Valve-Sparing Aortic Root Replacement
Adrian Ionescu, MD, Boston, MA; Michael Andrawes, MD, Boston, MA; Massachusetts General Hospital–Harvard Medical School

B94: The Use of Transesophageal Echocardiographic Transducer for Continuous Fetal Monitoring in Pregnant Patients Undergoing Cardiac Surgery.
Atsushi Egawa, Shimotsuke-Shi, Tochigi, Japan; Kenji Yoshitani, MD, Suita Osaka, Osaka, Japan; Yoshihiko Ohnishi, MD, Suita Osaka, Osaka, Japan; National Cerebral and Cardiovascular Ctr

B95: Anesthetic Management of Combined Heart-Liver Transplantation for Familial Amyloidosis
Matthew Barker, MD; Pingie Reddy, MD FASE

B96: An Unusual Case of a Large Intracardiac Tumor Extending Into the Left Ventricular Outflow Tract
Daniel Wyler, MD, New York, NY; Isaac Yoshii, MD, New York, NY; Cindy Wang, MD, New York, NY; Resident; Attending

B97: Right Ventricular Outflow Tract Mass Removal in a Parturient
Andrea Gimius, MD, Cincinnati, OH; Matthew Wallace, MD, Cincinnati, OH; University of Cincinnati

B98: Rapid Ventricular Pacing as a Rescue Option During Port Access Cardiac Surgery After Unsuccessful Aortic Endoclamp
Michael Fabbro; Ronak Shah, MD, Philadelphia, PA; Prashanth VallabhaJosyula, MD MS, Philadelphia, PA; W. Clark Hargrove, MD, Philadelphia, PA; Prakash Patel, MD, Newtown, PA; University of Pennsylvania

B99: Acute on Chronic Arch Dissection in a Patient With Turner Syndrome, Marfan Syndrome and Prior AVR/Aortic Root Repair
John McNeil, MD, Baltimore, MD; Ana Parsee, MD, Baltimore, MD; Kenton Zehr, MD, Baltimore, MD; Dan Berkowitz, MD, Baltimore, MD; Johns Hopkins Hospital

B241: Anesthetic Considerations in a Case of Combined On-Pump Aortocoronary Bypass With Mitral Valve Annuloplasty and Retrosternal Thyroidectomy
David Lin, MD; Ramesh M. Singa, MD MHS; Soma Shanker
Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations III

Sunday, April 12, 10–11 am

Room: Marquis Foyer & Salons 12–14

B179: The Role of Transesophageal Echo in the Staged Repair of an Aortopulmonary Fistula From a Large Ascending Aortic Pseudoaneurysm
Daniel Winter, MD, University Heights, OH; Andrej Alfirevic, MD, Richfield, OH; Cleveland Clinic

B121: RFA With Esophageal Thermal Injury and Perforation and Cerebrovascular Accident
Shea Stoops, DO; Robert Devine, MD, Lenexa, KS; University of Kansas Medical Center

B122: Endocarditic TAVR Sapien Valve Excision With Open Redo Sternotomy Sapien Valve Procedure
Eric Kaderbek, MD, Texas Heart Institute, Niceville, FL

B123: Diagnosis and Treatment of Left Ventricular Assist Device Extrinsic Outflow Graft Obstruction
Campbell Williams, MD, Northwestern Memorial Hospital, Chicago, IL

B124: Intraoperative Discovery of a False Positive Chronic Type A Dissection as Diagnosed by EKG-Gated Computed Tomography and Transesophageal Echocardiography
Michael Majewski, MD, Hanover Park, IL

B125: Thoracoabdominal Aortic Aneurysm Repair in a Patient With a Previously Corrected Aortic Arch Interruption
Meena Bhatia, MD, Houston, TX

B126: Massively Increased Pulmonary Dead Space Post Cardiopulmonary Bypass (CPB): An Uncommon Occurrence?
Pingping Song, MD, Brookline, MA; George Topulos, MD, Boston, MA; John Fox, MD, Hanover, MA; Brigham and Women’s Hospital

B127: Inhaled Nitric Oxide Use After Right Coronary Artery Occlusion During Transcatheter Aortic Valve Replacement
Jonathan Zoller, MD, Kansas City, MO; Peter Hild, MD, Kansas City, KS; Kansas University - Kansas City; Kansas University Medical Center

B128: Propofol Sedation During Iliofemoral Thrombectomy on Veno-Venous Bypass Pump
Ramesh Singa, MD MHS, West Orange, NJ; George Tewfik, MD, Bloomfield, NJ; Saint Barnabas Medical Center

B129: Unrecognized Systolic Anterior Motion of the Mitral Valve Mistaken for Pulmonary Embolism
Shea Stoops, DO; Stephen Tarver, MD, Overland Park, KS; University of Kansas Medical Center

B130: A Rare Case of Dopamine Secreting Mediastinal Paraganglioma Presenting With Coronary Steal
Jamahal Luxford, MBBS, Boston, MA; Lauren Cornella, MD, Boston, MA; Brigham and Women’s Hospital

Eva Litvak; Lauren Cornella, MD, Boston, MA; Agnieszka Trzcinka, MD, Brookline, MA; Brigham & Women’s Hospital

B132: Anesthetic Management of Left Atrial Perforation by Central Venous Catheter in a Hemodialysis Patient Requiring Open-Heart Surgery
Kevin Wong, DO, Danville, PA; Barry Marks, DO, Danville, PA; Joseph Stemm, MD, Danville, PA; Susan Troccoli, MD, Danville, PA; Geisinger Medical Center

B133: Change in Management Plan of Thoracic Endovascular Aortic Repair Following Intraoperative Identification of a Cardiac Mass by Transesophageal Echocardiography
Mauricio Daher; A. Gomes, MD PhD, Ottawa, ON, Canada; Marie-Jo Plamondon, MDCM FRCP, Ottawa, ON, Canada; The Ottawa Hospital; University of Ottawa

B134: Aorto-MitraI Curtain Fistula Following Aortic Valve Replacement
Wendy Haft, MD; Sudhakar Yennam, MD

B135: Challenges of Valve-in-Valve Transcatheter Aortic Valve Implantation Under Local Anesthesia
Nishita Patel; Adair Locke, MD, Winston-Salem, NC; Department of Anesthesia

B136: Anesthetic Care of a Patient With Caval Leiomyosarcoma Requiring Ex-Vivo Liver Resection and Reconstruction of the Right Atrium and Inferior Vena Cava
Wendy Haft, MD; Theresa Gelzinis, MD

B137: Acute Mitral Valve Annuloplasty Ring Dehiscence With Subsequent Failed Mitral Replacement Valve and Profound Vasoplegia Post-Cardiopulmonary Bypass
Stacy Krueth, Los Angeles, CA; Ali Khoynezhad, MD PhD, Los Angeles, CA; Reza Arsanjani, MD, Los Angeles, CA; Robert Siegel, MD; Daniel Sullivan; Antonio Conte, MD MBA, Los Angeles, CA; Cedars-Sinai Medical Center; Cedars-Sinai Medical Center

B138: Percutaneous Balloon Occlusion of HeartWare Outflow Cannula After Complete Drive Wire Transection
Matthew McFarling, MD FRCPC, Woodstock, ON, Canada; Benjamin Sohmer, MD, Ottawa, ON, Canada; Alexander Dick, MD, Ottawa, ON; Ottawa Heart Institute

B140: Incidental Finding of a Ventricular Septal Defect After Surgical Aortic Valve Replacement in a Patient Presenting for Mitral Valve Clip
Lauren Frizzell, MD, Los Angeles, CA; Lorraine Lubin, MD, Playa Del Ray, CA; Antonio Conte, MD MBA, Los Angeles, CA; Saibal Kar, MD; Rebecca Aron, MD, Los Angeles, CA; Cedars-Sinai Medical Center

B141: Incidental Anomalous Hepatic Venous Drainage in a Transfemoral Aortic Valve Replacement (TAVR) Patient
Stacy Krueth, Los Angeles, CA; Raj Makkar, MD; Reza Arsanjani, MD, Los Angeles, CA; Antonio Conte, MD MBA, Los Angeles, CA; Cedars-Sinai Medical Center
**Resident/Fellow Complex Case Presentations**

**B142:** Perioperative Cardiac Arrest: How to Manage and for How Long?
Michael Kaczmarski, Miami, FL; Yilium Rodriguez, MD, Miami, FL; Jackson Memorial Hospital; Jackson Memorial Hospital/University of Miami Health

**B143:** Refractory Bleeding After Ventricular Assist Device Implantation: Is There a Role for Prothrombin Complex Concentrate?
Meghan Krajewski, MD, Durham, NC; Ian Welsby, MBBS FRCA, Durham, NC; Duke University

**B144:** Vitamin B12 Administration in the Treatment of Vasoplegic Syndrome Resistant to Methylene Blue in a Patient for Aortic Valve Replacement
Patrick Wolfgang, Richmond, VA; Pingle Reddy, MD FASE, Glen Allen, VA; Vigneshwar Kasirajan, MBBS, Richmond, VA; David Farr, MD, Chesterfield, VA; VCUHS

**B145:** Ventricular Embolization of a Transcatheter Heart Valve During Transapical Transcatheter Aortic Valve Implantation With Successful Transapical Explantation
Richard Beddingfield, MD, Minneapolis, MN; Emil Missov, MD PHD, Minneapolis, MN; Mojca Remskar Konia, MD PHD, Minneapolis, MN; University of Minnesota

**B146:** Amniotic Fluid Embolism: A Potential Role of Metoclopramide, Atropine, Ketorolac, and Ondansetron?
Brian Kelly, Boston, MA; Jeffrey Lyvers, MD, Boston, MA; Joshua Quick, MD, Cambridge, MA; Philip Krapchev, MD, Cambridge, MA; Carlo Pancaro, MD, Boston, MA; Danielle Roncarzi, MD MPH, Brookline, MA; Kenneth Warner, MA; Needham, MA; Shohreh Modanlou, MD, Boston, MA; Adel Ghaloum, MD, Andover, MA; Robert Knapp, DO JD, Duxbury, MA; Frederick Quick, MD MPH FASE, Cambridge, MA; Tufts Medical Center

**B147:** An Unusual Cause of Acute Hemodynamic Instability During Transcatheter Aortic Valve Replacement (TAVR) Using CoreValve Evolut R via Direct Aortic Access
John Berry; Adam Lerner, MD, Georgetown, MA; Beth Israel Deaconess Medical Center

**B148:** Extraction of Abdominal Aortic Stent and Axial-Femoral Bypass for Loey's-Dietz Syndrome After Total Aortic Replacement
Kyoko Furimoto, MD, Suita-City, Osaka, Japan; Kenji Yoshitani, MD, Suita, Osaka, Osaka, Japan; Yoshiko Ohiishi, MD, Suita Osaka, Osaka; National Cerebral and Cardiovascular Ctr

**B149:** Mitral Transapical Transcatheter Valve-In-Valve Implantation in an Elderly Patient With Dysfunctional Bioprosthetic Mitral Valve
Elbert Chang, DO, Pasadena, CA

**B150:** Rapid Resolution of Peripartum Cardiomyopathy With a Minimally Invasive Ventricular Assist Device After Cesarean Delivery
Cesar Padilla, MD, Los Angeles, CA; Donald Park, MD, Los Angeles, CA; Resident; Teaching Attending

**B151:** Stent Placement for Aortic Recoarctation in a Pediatric Patient via Direct Cannulation of the Ascending Aorta
Cesar Padilla, MD, Los Angeles, CA; Robert Wong, MD, Alhambra, CA; Lorraine Lubin, MD, Playa Del Ray, CA; Adeline Kim, BS, Los Angeles, CA; Resident; Teaching Attending; Rotating Medical Student

**B152:** Perioperative Management of Pericardial Angiosarcoma
Eric Ursprung, MD, Brookline, MA; Philip Chan, BS, Boston, MA; Shahzad Shaefi, MD, Boston, MA; Tufts Medical Center; Beth Israel Deaconess Medical Center

**B153:** Intraoperative Aortic Dissection Following Cardiac Revascularization
Benjamin Judd, MD; Emily Teeter, MD; Brett Sheridan, MD

**B154:** Anomalous Coronary Artery Distribution Evaluated With Intraoperative Transesophageal Echocardiography
Nawar Al-Rawas, MD; Robert Timmerman, MD, Gainesville, FL; Gregory Janelle, MD FASE, Gainesville, FL; University of Florida

**B155:** Intraoperative Transesophageal Echocardiography to Monitor Dynamic Pulmonary Artery Physiology During Noncardiac Surgery
Michael Plakke, MD, Durham, NC; Cory Maxwell, Durham, NC; Eugene Moretti, MD, Durham, NC; Brandi Bottiger, MD, Durham, NC; Duke University Health System

**B156:** Tumorous Cystic Structure of the Foramen Ovale Resembling a Right Atrial Myxoma
Olabode Ogundove, MD, San Antonio, TX; Justin Wilson, MD, Helotes, TX; Andrea Carpenter, MD PhD, San Antonio, TX; University of Texas Health Science Center San Antonio

**B157:** Post-Sternotomy Sternal Wire Fracture With Migration of the Wire Through the Right Heart
Jason Haus, MD, Ypsilanti, MI; Jennifer Vance, MD, Ann Arbor, MI; University of Michigan

**B158:** Hypotension in an LVAD Patient During Cardiopulmonary Bypass
Kendall Leonard, DO, Richmond, VA; Pingle Reddy, MD FASE, Glen Allen, VA; Stephanie Marcy, DO MBA, Richmond, VA; VCU Medical Center

**B159:** A Case of Right Ventricular Perforation by Temporary Pacemaker Lead and Cardiac Tamponade During Transfemoral Transcatheter Aortic Valve Implantation Carter Peatross, MD, Rochester, MN

**B160:** Bivalirudin Used in Patient With History of Heparin-Induced Thrombocytopenia (HIT) With Previous Coronary Artery Bypass Graft (CABG)
Michelle Ducosta, MD; Saket Singh, MD, Pittsburgh, PA; Allegheny Health Network

**B161:** Mitral Valve Replacement in a Patient With Sickle Cell Disease/B+ Thalassemia: The Use of Perioperative Exchange Transfusion
Farhan Farooqui, MD, Schaumburg, IL; Mark Chaney, MD, Riverside, IL; University of Chicago Medicine

**B162:** Diagnosis of Hypovolemia Using Focused Bedside Transthoracic Echocardiogram in Three Kidney Transplant Recipients Presenting With Hemodynamic Instability in the Post-Anesthesia Care Unit
Colin Boettcher, BA, Eden Prairie, MN; Megan Lanigan, MD, Minneapolis, MN; Joanna Apostolidou, MD, Minneapolis, MN; University of Minnesota
Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations III

Sunday, April 12, 10–11 am (continued)

**B163:** Anesthetic Management of Traumatic Right Ventricular Rupture
Sajan Farrah, MD, Baltimore, MD; Zahra Malik, MD, Fairfax, VA; Shahab Khademi, DO, Baltimore, MD; Nhue Do, MD, Baltimore, MD; Kenton Zehr, MD, Baltimore, MD; Wei Dong Gao, PhD MD, Baltimore, MD; Johns Hopkins Hospital

**B164:** Undiagnosed Systolic Anterior Motion and Left Ventricular Outflow Tract Obstruction With Bioprosthetic Valve During Minimally Invasive Mitral Valve Surgery
Kosta Turchaninov, MD PhD, Omaha, NE; Ron Rawlings, MD, Lincoln, NE; Robert Oakes, MD, Lincoln, NE; University of Nebraska Medical Center; Bryan Medical Center

**B165:** Non-Cardiogenic Pulmonary Edema Post-Cardiopulmonary Bypass
Michael Humsi; Molly Fitzpatrick, MD

**B166:** Systemic Ventricular Assist Device Implantation 43 Years After Atrial Switch Operation for Transposition of the Great Arteries
Sreekanth Cheruku, MD, Durham, NC; Alina Nicoara, MD, Durham, NC; Madhav Swaminathan, MD FASE, Durham, NC; Carmelo Milano, MD, Durham, NC; Kamrouz Ghadimi, MD, Durham, NC; Duke University Medical Center

**B167:** Bilateral Lung Transplant for Cystic Fibrosis With Superior Vena Cava Syndrome
Matthew McConnell, MD, Cleveland Heights, OH; Erik Kraenzler, MD, Cleveland, OH; Cleveland Clinic

**B168:** Management of Heparin Anticoagulation in the Setting of Antiphospholipid Syndrome in Patients Undergoing CABG
Leigh McGuffin, RN BSN, Boston, MA; Joshua Quick, MD, Cambridge, MA; Ian Welsby, MBBS FRCA, Durham, NC; Andreas Klein, MD, Boston, MA; Kenneth Warner, MD, Needham, MA; Stefan Ianchulev, MD, Marblehead, MA; Hassan Rastegar, MD, Boston, MA; Monika Pilichowska, MD PhD, Boston, MA; Perry Dekkers, BS CCP LP, Boston, MA; Frederick Cobey, MD MPH FASE, Cambridge, MA; Tufts Medical Center; Duke University Medical Center

**B169:** Inferior Vena Cava Obstruction Caused by a Malpositioned Septal Occluder Device
Daniel Cormican, MD, Cleveland Heights, OH; Donn Marciniak, MD, Broadview Heights, OH; Cleveland Clinic Foundation

**B171:** Invasive Intracardiac Leiomyomatosis Extraction, Necessitating Tricuspid Valve Replacement
Sachin Mehta, MD, Charlotte, NC; Allison Bechtel, MD, Crozet, VA; Julie Huffmyer, MD, Charlotte, NC; University of Virginia

**B173:** Total Artificial Heart Implantation for Familial Amyloidotic Polyneuropathy (FAP) as a Bridge to Combined Heart and Liver Transplant (CHLT)
Andrew Scharf, MD, Richmond, VA; Pingle Reddy, MD FASE, Glen Allen, VA; Virginia Commonwealth University Medical Center; Virginia Commonwealth Medical Center

**B174:** Technique for Safe Placement of a Transesophageal Echocardiogram Probe in a Patient With Zenker’s Diverticulum Undergoing Mitral and Tricuspid Valve Repair
Brian Gebhardt, MD, Worcester, MA; Rana Bade, MD, North Grafton, MA; University of Massachusetts Medical School

**B175:** Aortic Root Enlargement Techniques: Remember the Mitral Valve!
Dionne Peacher, MD, Boston, MA; Douglas Shook, MD FASE, Newton, MA; John Fox, MD, Hanover, MA; Brigham and Women’s Hospital

**B176:** Delayed Intraoperative Hypotension and ST Elevation MI After AVR in a Patient With an Unspecified Clotting Disorder and Secundum ASD
Lauren Hampton, MD; Kelly Ural, MD

**B177:** Left Ventricular Assist Device in Refractory Ventricular Tachycardia From Ischemic Cardiomyopathy
Saad Kamal, MD, Naperville, IL; Jenny Kwak, MD; Michael Haske, MD; Pierre LeVan, MD; Loyola University Medical Center, Maywood, IL

**B178:** Real-Time 2D and 3D TEE Guidance of Transcatheter Prosthetic Mitral Valve Paravalvular Leak Closure
Benjamin Carroll, MD; Lorraine Lubin, MD; Saibal Kar, MD; Florian Rader, MD; Rebecca Aron, MD

**B18:** TEE for Intraoperative Management of a Patient With Saddle Embolus and Systolic Anterior Motion of the Mitral Valve During Surgical Embolectomy
Lauren Hampton, MD; Logan Kosarek

**B242:** A 36 Year-Old Man With Uncorrected Tetralogy of Fallot, Biventricular Dysfunction, and a Large Pericardial Effusion
Sharon McCartney, MD; Edmund Jooste, MBCHB; Kelly Machovec, MD MPH
**Resident/Fellow Complex Case Presentations**

**Complex Case Poster Presentations IV**

**Sunday, April 12, 5–6 pm**

**Room: Marquis Foyer & Salons 12–14**

**B180:** Giant Pseudoaneurysm After Composite Root Replacement Causing Acute Myocardial Ischemia and Multiple Valvular Abnormalities
Yvonne Lai, MD, Boston, MA; Yafen Liang, MD, Boston, MA; Massachusetts General Hospital

**B181:** The Successful Use of Protamine With Confirmed Fish Allergy for CABG: Clinical Pearls and Perils
Silpa Goriparthi, MD, Philadelphia, PA; Jordan Goldhammer, MD, Philadelphia, PA; Tara Kennedy, MD, Philadelphia, PA; Thomas Jefferson University Hospital; Sidney Kimmel Medical College

**B182:** Intraoperative Management of Occult Hemorrhage Aided by Echocardiography
Michael Benggon, MD, San Diego, CA; Joel Kaplan, MD, Encinitas, CA; Dalia Banks, MD FASE, Rancho Santa Fe, CA; UCSD

**B183:** Case Report: TEE in the Diagnosis of Intraoperative Tumor Embolus
Emily McQuaid-Hanson; Maung Hlaing, MD, Denver, CO; University of Colorado

**B184:** Intraoperative Transesophageal Echocardiographic Diagnosis of the Abnormal Jet to the Left Atrial Appendage: A Case Report
Yasuko Nagasaka, MD PhD, Brookline, MA; Scott Streckenbach, MD; Massachusetts General Hospital; Harvard Medical School

**B185:** Intraoperative Diagnosis of an Intracardiac Tumor
Andrew Sosa; Emil Bogdanov, MD; Nikolaos Skubas, MD DSC FASE

**B186:** The Successful Use of Bivalirudin Anticoagulation Therapy for Double-Lung Transplantation With Arteriovenous Extracorporeal Membrane Oxygenation in a Patient With Heparin-Induced Thrombocytopenia Type II
Shira Black, DO, Beachwood, OH; Jennifer Hargrave, DO, Cleveland, OH; Cleveland Clinic

**B187:** Repair of a Type A Dissection in a Patient With Severe Left Ventricular Dysfunction as a Bridge to a Left Ventricular Assist Device
Uttam Shastri, MD, University of Alabama Birmingham, Hoover, AL

**B188:** Anesthesia for Left Atrial Ventricular Pacemaker Dysfunction as a Bridge to a Left Ventricular Assist Device
Matthew D’Haenens, MD, Pearland, TX; John Cooper, MD, Houston, TX; Texas Heart Institute at CHI St. Luke’s Heath-Baylor; Texas Heart Institute at CHI St. Luke’s

**B189:** Intraoperative Diagnosis of an Intracardiac Tumor
Andrew Sosa; Emil Bogdanov, MD; Nikolaos Skubas, MD DSC FASE

**B190:** Radiofrequency Scanning for Retained Surgical Instruments Can Cause Epicardial Pacemaker Dysfunction During Cardiac Surgery
Michael Plakke, MD, Durham, NC; Sean Daley, MD, Durham, NC; Yasmin Maisonneuve, MD, San Juan, PR; Duke University Medical Center

**B191:** Large Pulmonary Artery Angiosarcoma Requiring Right Pulmonary Artery Resection and Right Pneumonectomy
Andrea Reidy, MD, Pittsburgh, PA; Ricardo Cardenas, MD, Sewickley, PA; Allegheny Health Network

**B192:** Use of Intraoperative ECMO for Intolerance to One-Lung Ventilation
Yvonne Lai, MD, Massachusetts General Hospital, Boston, MA

**B193:** Thoracoabdominal Aortic Aneurysm Repair in a Patient With Leosys-Dietz Syndrome
Tarun Subrahmanian, MD, Rochester, NY; Korin Scott, MD, Atlanta, GA; Emory University

**B194:** Lung Reperfusion Injury Following One-Lung Ventilation for Mini-AVR
Jay Sanford, DO, Richmond, VA; Vishal Yajnik, MD MS, Richmond, VA; David Farr, MD, Chesterfield, VA; Pingle Reddy, MD FASE, Glen Allen, VA; Vigneshwar Kasirajan, MBBS, Richmond, VA; CA-2 Resident, Virginia Commonwealth University Health System; Virginia Commonwealth University Health System; Cardiothoracic Anesthesiology Fellow, Virginia Commonwealth University Health System; Virginia Commonwealth University Health

**B195:** Anaesthesia Management for “Anomalous Origin of Left Coronary Artery From Pulmonary Artery” Repair
Kapil Gupta, MD, Delhi, Delhi, India

**B196:** Provocable Dynamic Outflow Tract Obstruction in a Patient With Hypertrophic Obstructive Cardiomyopathy
Chinwe Nwosu, MD, Baltimore, MD; Patrick Odonkor, MD, Laurel, MD; Resident; Assistant Professor

**B197:** Perioperative Management of a Patient With Aorto- Esophageal Fistula
Ashley Gabrielsen, DO, Worcester, MA; James Scott, Worcester, MA; Theofilos Matheos, MD, University of Massachusetts Medical Center

**B198:** Rotational Thromboelastometry (ROTEM™) to Evaluate Post-Cardiopulmonary Bypass Coagulopathy in a Patient With Hemophilia A
Lingesh Sivanesan, MD; Adam Lichtman, MD, Brooklyn, NY; Weill Cornell Medical Center

**B199:** Failed Wean From CPB After Bentall Procedure
Benjamin Ellis, MD, Iowa City, IA; Srinivasan Rajagopal, MD, Iowa City, IA; University of Iowa

**B200:** Undiagnosed Pheochromocytoma Presenting as Cardiac Shock: A Case Report
Rachel Sloan; Johannes Dorfling, MBChB, Lexington, KY; Johannes Steyn, MD, Versailles, KY; University of Kentucky
Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations IV

Sunday, April 12, 5–6 pm (continued)

B201: Rescue TEE Diagnosis of Acute Pulmonary Embolism Prompting Pulmonary Embolectomy
Michelle Dacosta, MD; Christopher Troianos, MD, Pittsburgh, PA; Ricardo Cardenas, MD, Sewickley, PA; Allegheny Health Network

B202: Management of Acute Biventricular Failure During Transcaval TAVR
Jonah Patel, MD; Ratna Vadlamudi, MD

B203: Do We Really Need a Tricuspid Valve?
Michael Sharghi, MD, Cleveland, OH; Andra Duncan, MD, Cleveland, OH; Cleveland Clinic Foundation

B204: Left Atrial Appendage Laceration During Percutaneous Left Atrial Appendage Suture Ligation Using the LARIAT Device
Mina Oftadeh, DO, Chicago, IL; Pierre LeVan, MD, Maywood, IL; Jenny Kwak, MD, Maywood, IL; Loyola University Medical Center

B205: Management of LVAD Pump Thrombosis With Intravenous Thrombolytics
Beth Webber, DO; Yiliam Rodriguez-Blanco, MD, Miami, FL; University of Miami

B206: Hypoxia Due to Right Ventricular Outflow Tract Obstruction and a Patent Foramen Ovale in Hypereosinophilic (Loeffler's) Endocarditis: Clinical Implications and Echocardiographic Findings
Genevieve Lalonde, MD, Winnipeg, MB, Canada; Hilary Grocott, MD, Winnipeg, MB, Canada; University of Manitoba

B207: Cardiovascular Collapse Associated With IVC Filter Migration and Saddle Embolization
Mark Smith, MD, Rochester, MN; C. Thomas Wass, MD, Rochester, MN; Norman Torres, MD, Rochester, MN; Juan Pulido, MD, Rochester, MN; Kent Rehfeldt, MD, Rochester, MN; Mayo Clinic

B208: Intraoperative Right Heart Failure Followed by Left Ventricular Apical Ballooning During Orthotopic Liver Transplantation
Ross Hanson, MD, Denver, CO; Barbara Wilkey, MD, Denver, CO; Megan Anderson, MD, Denver, CO; University of Colorado Hospital

B209: Intraabdominal Bleeding Following Reoperation for Mitral Valve Replacement
Matthew Benschoff, MD, New York, NY; Nikolaos Skubas, MD DSC FASE, New York, NY; Meghann Fitzgerald, MD, New York, NY; NYP/Weill Cornell Medical College

B210: An Ischemic Limb: Intraoperative Debunking of a Preoperative Diagnosis
Drew Rodgers, MD, Cleveland, OH; Andra Duncan, MD, Cleveland, OH; Cleveland Clinic

B211: Everything AND the Kitchen Sink: Mechanical Support Devices in the Failing Heart
Heather Reed, MD, Gainesville, FL; William Smith, MD, Gainesville, FL; University of Florida

B212: Mind the Gap: Multifaceted Airway Management in Acquired Tracheoesophageal Fistula Repair
Gregory Mickus, MD, Neptune Beach, FL; Archer Martin, MD, Jacksonville, FL; Mayo Clinic Florida

B213: Aortic Root Abscess With Extension to Mitral and Tricuspid Valves Status—Post Bioprosthetic Aortic Valve Replacement With Development of Gerbode Ventricular Septal Defect
Harish Ram, MD, Los Angeles, CA; Deena Perotti, MD, Los Angeles, CA; Danny Ramzy, MD PhD, Los Angeles, CA; Lorraine Lubin, MD, Playa Del Ray, CA; Antonio Hernandez Conte, MD MBA, Los Angeles, CA; Cedars-Sinai Medical Center

B214: Challenging CoreValve Positioning and Deployment During Transcatheter Aortic Valve Replacement
Isaac Wu, MD; Jeremy Poppers, MD PhD

B215: Increased Mitral Gradients After Transcatheter Aortic Valve Replacement With a Self-Expanding Prosthesis
Sy-You Chern, MD, Philadelphia, PA; Prakash Patel, MD, Newtown, PA; Jiri Horak, MD, Broomall, PA; Hospital of the University of Pennsylvania; Hospital of the University of Pennsylvania

B216: Cardiac Anesthetic Management for a Patient With Parkinson’s Disease and a Deep Brain Stimulator: Solutions to a Complex Care Problem
Adam Weinstein, Brookline, MA; Lauren Cornella, MD, Boston, MA; Brigham and Women’s Hospital

B217: Fatal Massive Intracardiac Thrombosis: Unexpected Complication During Repair of Complex Aortic Dissection With Pseudoaneurysm
Jayakar Guruswamy, MD, Troy, MI; Cory Koenig, Clawson, MI; Paul Polyak, MD, Rochester, MI; Lebron Cooper, MD, Detroit, MI; Henry Ford Hospital

B218: TEVAR and Cerebellar Herniation
Michael Foley, MD, Boston, MA; Marc Schermerhorn, MD, Boston, MA; Mark Wyers, MD, Boston, MA; Allen Hamdan, MD; Lars Stangenberg, MD PhD, Boston, MA; Ruma Bose, MD, Chestnut Hill, MA; Balachundhar Subramaniam, MD MPH, Lexington, MA; Beth Israel Deaconess Medical Center (BIDMC), Boston, MA; BIDMC

B219: Acquired Mitral Dysfunction and Systolic Anterior Motion During Coronary Artery Bypass Grafting Necessitating Mitral Valve Replacement
Alexander Kuo, MD, Boston, MA; Meerim Cindy Kim, MD, Boston, MA; Jason Qu, MD, Charlestown, MA; Massachusetts General Hospital
Resident/Fellow Complex Case Presentations

B221: Transesophageal Echo-Guided Percutaneous Mitral Valve-In-Valve Implantation via a Transseptal-Apical Approach
Harish Ram, MD, Los Angeles, CA; Ying Zeng, MD, Los Angeles, CA; Saibal Kar, MD; Lorraine Lubin, MD, Playa Del Ray, CA; Antonio Conte, MD MBA, Los Angeles, CA; Rebecca Aron, MD, Los Angeles, CA; Cedars-Sinai Medical Center

B222: Anesthetic Considerations for Beating Heart Robotic TECAB in Patients With a Symptomatic Anomalous Origin of the Right Coronary Artery
Shyamal Asher; Mohammed Minhaj, MD MBA

B223: Robotic Mitral Valve Repair During Hypothermic Cardiopulmonary Bypass With Right Ventricular Pacing-Induced Ventricular Fibrillation Arrest
Andrew Hollatz, MD, Chicago, IL; Mark Chaney, MD, Riverside, IL; The University of Chicago

B224: The Utility of Transesophageal Echocardiography During Coronary Artery Fistula Ligation
Michael Finamore, DO, Beachwood, OH; Donn Marciniak, MD, Broadview Heights, OH; Cleveland Clinic Foundation

B225: Myxoma Originating From the Posterior Mitral Valve Leaflet
Aaron Lim, MD, Henrico, VA; Spencer Liebman, MD (Fellow), Richmond, VA; Pingle Reddy, MD FASE, Glen Allen, VA; Daniel Tang, MD, Richmond, VA; Virginia Commonwealth University Health System

B226: Emergency Left and Right Ventricular Circulatory Support During Transcatheter Aortic Valve Replacement
Esther Garazi, MD, Miami, FL; Caroline Buric, BS, Miami, FL; Lilibeth Fermin, MD; Alan Heldman; Fellow; Medical Student

B227: Diagnostic and Treatment Strategies of an Atrioventricular Disruption During Mitral Valve Replacement
Anthony Tricinella, DO, Dallas, TX; Ravi Vivekanand Joshi, MD, Dallas, TX; University of Texas Southwestern

B228: Increased Mitral Regurgitation Following Bentall Procedure: A Unique Clinical Scenario
Hanjo Ko, MD, Boston, MA; Prem Shekar, MD, Boston, MA; Lauren Cornella, MD, Boston, MA; Brigham and Women's Hospital

B229: Pulmonary Embolectomy in a Patient With Impending Paradoxical Embolization
Sanjeev Khanna, MD; Anand Mehta, MD, Cleveland, OH; Cleveland Clinic Foundation

B230: Case Report: Transcatheter Aortic Valve Replacement in a Patient With Ventricular Tachycardia Storm Using the Transaortic Approach With Elective Extracorporeal Life Support
Julee Dalton, MD, San Francisco, CA; Linda Lau, MD; Wilson Cui, MD PhD, San Francisco, CA; Resident Physician; Attending Physician

B231: Transesophageal Echocardiography in Managing Anaphylaxis Complicated by Systolic Anterior Motion of the Mitral Valve
Fiore Toscano, MD, Syosset, NY; Christopher Tanaka, MD, New York, NY; Jill Arthur, MD, Bronx, NY; Montefiore Medical Center

John Hui, MD, Bronx, NY; Andrey Apinis, MD, Montclair, NJ; Jonathan Leff, MD; Montefiore Medical Center/Albert Einstein College of Medicine; Montefiore Medical Center

B233: Acute Stress-Induced Cardiomyopathy Associated With Cardiogenic Shock, Treated With the Impella Left Ventricular Assist Device and Venous-Arterial Extra Corporeal Membrane Oxygenation
Kari Obma, MD, Denver, CO; Tamas Seres, MD, Aurora, CO; University of Colorado

B234: Airway Management of a Patient With a Large Laryngeal Mass Presenting for Endobronchial Ultrasound-Guided Transbronchial Biopsies
Isaac Yoshii, MD; Angela Selzer, MD, New York, NY; Weil Cornell Medical College and NYPH

B235: Laparoscopic Hysterectomy in a Patient With Severe Pulmonary Hypertension
Theodore Cios, MD MPH, Hershey, PA; Srikantha Rao, MD MS, Hershey, PA; Penn State Milton S. Hershey Medical Ctr

B236: Left Ventricular Assist Device Placement Complicated by Right Ventricular Failure Requiring Right Ventricular Assist Device Placement
Michael Mathis, MD, University of Michigan Health System, Ann Arbor, MI

B237: A Ruptured Sinus of Valsalva Aneurysm Into the Left Ventricular Outflow Tract Contributing to Left Heart Failure
Cliff Cutchins, MD; Brian Gelfand, MD FACS

B238: Management of Massive Arterial Air Embolism During Left Heart Bypass for Thoracoabdominal Aortic Aneurysm Repair
Tom Griffiths, MD BM; Timothy Maus, MD, La Jolla, CA; Dalia Banks, MD FASE, Rancho Santa Fe, CA; Supervising Faculty; Program Director

B243: Implantation of the C-Pulse Assist Device: A Review of a Novel Device for End-Stage Heart Failure
Andrea Westman, MD, Nashville, TN; Jeremy Bennett, MD, Mt. Juliet, TN; Vanderbilt University Medical Center

B43: Aortic Regurgitation and Left Ventricular Assist Device Placement in a Patient With Previous Aortic Valve Bioprosthesis
Ryan Mahaffey, MD, Palo Alto, CA; Nicholas Anast, MD, Mountain View, CA; Lindsay Raleigh, MD, San Francisco, CA; Richard Ha, MD, Stanford, CA; Albert Cheung, MD, Stanford, CA; Stanford, School of Medicine
Sponsors

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Exhibit Schedule

**Sunday, April 12**

Exhibits Open 12:30–7 pm  
Lunch with Exhibitors 12:30–1:30 pm  
Coffee with Exhibitors 3:30–4 pm  
Reception in Exhibit Hall 6–7 pm

**Monday, April 13**

Exhibits Open 7 am–4 pm  
Breakfast with Exhibitors 7–8 am  
Coffee with Exhibitors 10–10:30 am  
Lunch with Exhibitors 12:30–1:30 pm  
Coffee with Exhibitors 3:30–4 pm

**Tuesday, April 14**

Exhibits Open 7 am–1:30 pm  
Breakfast with Exhibitors 7–8 am  
Coffee with Exhibitors 10–10:30 am  
Dessert with Exhibitors 12:30–1:30 pm

Exhibitors

3M Health Care  
AcelRx Pharmaceuticals, Inc.  
American Anesthesiology  
American Society of Echocardiography  
Augustine Temperature Management  
Biomed Simulation, Inc.  
Elsevier USA  
EmCare  
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Thoratec  
WL Gore
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<td>Atrial Fib Working Group</td>
<td>Monday, April 13</td>
<td>9–10 am</td>
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<td>Blood Conservation Working Group</td>
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<td>Cerebral Protection Working Group</td>
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<td>Clinical Practice Improvement</td>
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<td>Continuing Medical Education (CME)</td>
<td>Sunday, April 12</td>
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<td>Committee Chairs</td>
<td>Monday, April 13</td>
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<td>Echo Week</td>
<td>Monday, April 13</td>
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<td>Economic/Governmental Affairs</td>
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<td>Ethics</td>
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<td>International</td>
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<td>Member Engagement</td>
<td>Monday, April 13</td>
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<td>Research</td>
<td>Saturday, April 11</td>
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<td>Tuesday, April 14</td>
<td>12–1:30 pm</td>
<td>Scarlett</td>
</tr>
<tr>
<td>Thoracic Anesthesia Symposium (TAS)</td>
<td>Saturday, April 11</td>
<td>1–3 pm</td>
<td>Cherry Blossom</td>
</tr>
<tr>
<td>Website Redesign Task Force</td>
<td>Sunday, April 12</td>
<td>4–5:30 pm</td>
<td>Magnolia</td>
</tr>
</tbody>
</table>

Interested in participating in SCA by serving on a committee?
Please complete the Committee Appointment Request Form in the annual meeting online syllabus.
Save the Date

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**Examination Date:** Friday, July 13, 2015

**Deadlines to Submit Applications:**
- Early Registration: Monday, March 16, 2015
- Late Registration: Monday, March 17, 2015 thru Monday, June 1, 2015

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