



SOCIETY OF
**CARDIOVASCULAR
ANESTHESIOLOGISTS**
Knowledge • Care • Investigation



SCA 39th

Annual Meeting
& Workshops
#SCA2017

APRIL 22-26, 2017

Loews Royal Pacific Resort
Orlando, FL

WiFi Network Name: SCA2017
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PROGRAM BOOK

www.scahq.org/2017AnnualMeeting

Schedule at a Glance

Saturday, April 22 Annual Meeting Schedule at a Glance												
ROOM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM
Various (see page 26)		PBLDs										
Pacifica 1-3						Complex Case Posters No. 1						Complex Case Posters No. 2
Pacifica 6-7									Exhibit Hall			
Pacifica 8-10				Workshop 2: ECMO/VADs					Workshop 4: Perc Valve			
Pacifica 11-12				Workshop 1: Hands-on TTE					Workshop 3: Periop US			
Oceana 1-6				Refresher Courses		Right Heart Failure			Heart Team		Aorta Root to Arch	
Oceana 7											Best of Meeting Complex Cases	
Oceana 8-10					F/R Town Hall				F/R Program			
Oceana 11-12						Endovascular			Mechanical Support		Atrial Fibrillation	

Sunday, April 23 Annual Meeting Schedule at a Glance												
ROOM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM
Various (see page 26)		PBLDs										
Pacifica 1-3								Scientific Program Poster Presentations: Session 1				
Pacifica 6-7												
Pacifica 11-12						Exhibit Hall						
Oceana 1-6			Earl Wynands Lecture	SCA/STS: Aortic Valve		Workshop 5: EP/Pacer			Workshop 6: Adv TEE		Electrophysiology	
Oceana 8-10						Transplantation			Coagulation		Super Echo	
Oceana 11-12						Data & Quality			Healthcare Finance			
						SOCCA Session			Research Session			
											Oral Abstract Presentations: Session 1	

Monday, April 24 Annual Meeting Schedule at a Glance												
ROOM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM
Various (see page 26)		PBLDs										
Pacifica 1-3								Scientific Program Poster Presentations: Session 2				
Pacifica 6-7			Exhibit Hall									
Oceana 1-6			Transfusion		Awards, ASA, Keynote, Business Meeting				EACTA: Surgical Outcomes		Percutaneous Valves	Kaplan Panel
Oceana 8-10									Cardiac Protection		OR Safety	
Oceana 11-12									A&A Cardiac Biomarkers		Oral Abstract Presentations: Session 2	

Tuesday, April 25 Annual Meeting Schedule at a Glance												
ROOM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM
Various (see page 26)		PBLDs										
Pacifica 1-3							Scientific Program Poster Presentations: Session 3					
Oceana 1-6			Global Engagement			Echo Noncardiac Surgery		Kidney Injury		Morbid Obesity	Echo Jeopardy!	
Oceana 8-10								CPB Best Practice		Thoracic Anesthesia		
Oceana 11-12						Left Heart Failure		Ventilation Strategies		CCAS: Pediatric Cardiac		

Wednesday, April 26 Annual Meeting Schedule at a Glance												
ROOM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM
Various (see page 26)		PBLDs										
Pacifica 8–10			Perioperative TEE Review Session									
Pacifica 11–12			Workshop 7: 3D TEE									

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General Information

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

Attendees are urged to review general continuing medical education (CME) information for the conference, including disclosures of relevant financial relationships for all persons who have affected the content of CME, by visiting www.scahq.org/2017annualmeeting.

The registration fee includes continental breakfast and coffee breaks every day; lunch on Saturday and Sunday; an evening reception on Sunday; and all plenary, concurrent, poster, and oral abstract sessions. Attendees may access the electronic syllabi via the SCA Annual Meeting mobile app.

CME Accreditation

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

Designation

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

Disclaimer

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

Claim Your CME

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

Annual Meeting On Demand

SCA Annual Meeting On Demand is an online library with more than 60 hours of educational content from the meeting, including the Thoracic Anesthesia Symposium! Revisit sessions you attended and participate in those you missed—anytime, anywhere. Plus, earn additional CME credits. Visit the SCA Annual Meeting On Demand sales booth located in the Oceana Foyer to purchase your copy at special attendee discounts only available during the meeting.

Workshops

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

Problem-Based Learning Discussions (PBLDs)

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

Network Reception with Exhibitors

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

Registration

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

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

Photography

Throughout the meeting, photos may be taken for use in SCA marketing materials, including the e-newsletter and SCA Facebook and Twitter pages. If you do not consent to be photographed, advise the SCA staff in writing at info@scahq.org.

Syllabi and Learning Objectives

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

Committee Meetings

The schedule of SCA committee meetings can be found in the meeting mobile app and at the registration desk.

YOUR MOBILE MEETING

Use your mobile device to access syllabi and information about the Annual Meeting! **Download the 2017 meeting mobile app** to create a personalized meeting experience at your fingertips. **Search SCA 2017** in your app store or **visit www.tripbuildermedia.com/apps/sca** to download the app today!

General Information (continued)

Speaker Ready Room

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

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

**SCA thanks the joint sponsors of educational sessions
during the 2017 Annual Meeting:**

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ANALGESIA®**

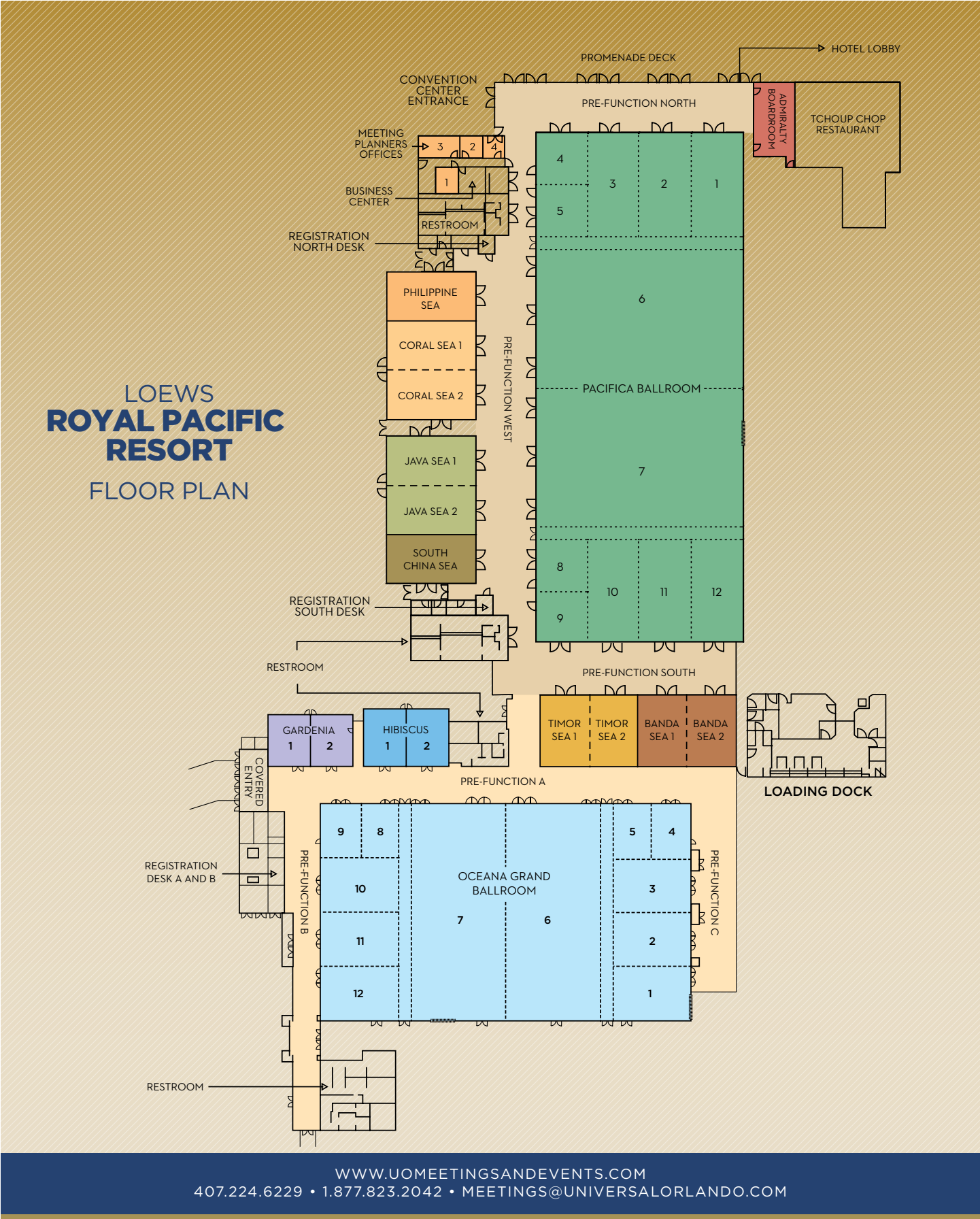


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Keynote Lecture

Michael J. Mack, MD



Dr. Michael Mack is a past president of the Society of Thoracic Surgeons (STS), the Thoracic Surgery Foundation for Research and Education, and the International Society for Minimally Invasive Cardiothoracic Surgery. He was the first chair of the STS/ACC National Transcatheter Valve Therapy (TVT) Registry Steering Committee and is

the liaison to the TVT Registry from the American College of Cardiology Foundation. Dr. Mack has been integrally involved in the scientific query that has led to an explosion in the delivery of transcatheter aortic valve replacement (TAVR) procedures. In his keynote address, he will review the history of TAVR, the evidence to support its use as an interventional therapy, and the economic and political issues that surround its continued implementation.

SCA Distinguished Service Award Winner

Steven N. Konstadt, MD MBA FACC



The Distinguished Service Award is given to an individual who has made significant contributions to the specialty of cardiovascular anesthesiology through research, education, service, or some combination of these activities. With more than 30 years of experience as a cardiac anesthesiologist, Dr. Steven N. Konstadt was drawn to anesthesiology

because it combined three things he particularly enjoyed: pharmacology, physiology, and the camaraderie present in the intense environment of the operating room. He is a pioneer in the use of transesophageal echocardiography (TEE) and a proponent of the safest, customer-friendly anesthesia that minimizes postoperative pain and nausea and improves recovery.

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

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

ASA Update

Jeffrey S. Plagenhoef, MD



Dr. Jeffrey Plagenhoef, chairman of the department of anesthesiology at Baylor Scott & White Hillcrest Medical Center in Waco, TX, is president of the American Society of Anesthesiologists (ASA). He was elected for a 1-year term in October 2016.

Dr. Plagenhoef has held numerous leadership positions within ASA, including serving

on the ASA Executive Committee as president-elect and first vice president. He has served on numerous ASA committees, task forces, and workgroups. Most notably, he was appointed the inaugural chair of the Anesthesia Quality Institute's board of directors and chair of ASA's Committee on Anesthesia Care Team. For his leadership on the ASA political action committee's executive board and exemplary advocacy efforts, he was the recipient of the ASA Excellence in Government Award.

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

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

Earl Wynands Lecture

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



Dr. Devereaux is a full professor and university scholar in the departments of health research methods, evidence, and impact and medicine at McMaster University. The focus of his clinic research is vascular complications around the time of surgery. He is undertaking several large international randomized clinical trials and observational studies addressing

this issue. He is supported by a Tier 1 Canada Research Chair in Perioperative Medicine, and he also holds the Yusuf Chair in Cardiology at McMaster University.

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

Schedule

Saturday, April 22

6:15 am–6 pm

Registration Open

6:45–8 am

Problem-Based Learning Discussions (PBLDs)

See page 26 for full schedule. Separate registration required.

7–8 am

Light Breakfast

Pre-Function West

8–10 am

2017 Updates in Cardiac Anesthesiology—Refresher Course Lectures

Oceana 1–6

Moderator: Fox, A.

8–8:25 am

Stroke After Cardiac Surgery—*Floyd*

8:25–8:50 am

Adult Congenital Heart—*Burch*

8:50–9:15 am

Innovations in Hemodynamic Monitoring—*Galhardo*

9:15–9:40 am

Ethics of Decision Making in Cardiac Surgery—*Ivascu*

9:40–10 am

Panel Discussion and Audience Q&A

8–11 am

Morning Workshops

See page 24 for full schedule. Separate registration required.

10–10:30 am

Coffee Break

Pre-Function West

10–11 am

(Fellow/Resident) Town Hall Discussion (Non-CME)

Oceana 8–10

See page 27 for full schedule of Fellow/Resident programming.

10:30 am–Noon

New Devices and Approaches in Endovascular Surgery

Oceana 11–12

Moderators: Kumar; Popescu

10:30–11 am

New Devices and Approaches in Endovascular Aortic Surgery—*Muhs*

11–11:30 am

Anesthetic Management for Endovascular Repair of the Descending

Thoracic and Thoracoabdominal Aorta—*Anton*

11:30 am–Noon

Pro-Con Debate: TEVAR—To Drain or Not to Drain?

Pro: *Arora*

Con: *Floyd*

10:30 am–Noon

Managing Right Heart Failure

Oceana 1–6

Moderator: Mackensen

10:30–10:50 am

Role of Perioperative Echo in the Diagnosis of Right Ventricular

Dysfunction and Tricuspid Valve Disease—*Rehfeldt*

10:50–11:10 am

Surgical and Interventional Management of Right Heart Failure—*Klodell*

11:10–11:30 am

Perioperative Management of Pulmonary Hypertension in Cardiac Surgery—*Denault*

11:30 am–Noon

Panel Discussion

11 am–Noon

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

Pacifica 1–3

See pages 40–45 for full abstract list.

Schedule

Noon–1 pm

Lunch with Exhibitors

Pacifica 6–7

1–2 pm

(Fellow/Resident) A Career in CT Anesthesiology: Mission Possible

Oceana 8–10

See page 27 for full schedule of Fellow/Resident programming.

1–3:30 pm

Evolutions in Mechanical Circulatory Support

Oceana 11–12

Moderator: *Janelle*

1–1:20 pm

Temporary Support: Percutaneous Devices as a Bridge to Decision or Recovery—*Hernandez*

1:20–1:40 pm

In the Heart of Life: Destination Therapy Ventricular Assist Devices—*Maldonado*

1:40–2 pm

Expanding the Use of ECMO After the H1N1 Era—*Smith*

2–2:20 pm

Interventions on ECMO: Do They Make a Difference? Proning, Bronchoscopy, and Thoracotomy: Indications, Feasibility, and Problems—*Ashworth*

2:20–2:40 pm

Pediatric Mechanical Circulatory Support Systems (ECMO and VADs): One Size Does Not Fit All—*Burch*

2:40–3 pm

ECMO and Ex-Vivo: A New Era of Lung Transplantation—*Neyrinck*

3–3:30 pm

Panel Discussion and Audience Q&A

1–3:30 pm

Heart Team Approach: Ischemic Mitral Valve Regurgitation

Oceana 1–6

Moderator: *Brakke*

1–1:15 pm

What Makes a Successful Heart Team?—*Shook*

1:15–1:30 pm

TEE Assessment of Ischemic Mitral Regurgitation (MR)—*Markin*

1:30–1:45 pm

Role of MitraClip in Ischemic MR—*Mackensen*

1:45–2 pm

Surgical Intervention: CABG and Mitral Valve Repair (MVR)—*Badhwar*

2–2:15 pm

Surgical Intervention: CABG Without MVR or Percutaneous Coronary Intervention and Aggressive Medical Therapy—*Reisman*

2:15–3:30 pm

Pro-Con Debate: Therapeutic Decision Making—*Panel Discussion*

1–4 pm

Afternoon Workshops

See pages 24–25 for full schedule. Separate registration required.

2–3:30 pm

(Fellow/Resident) Problem-Based Learning Discussion (PBLD): Ventricular Assist Devices (VADs)

Oceana 8–10

See page 27 for full schedule of Fellow/Resident programming.

3:30–4 pm

Coffee Break with Exhibitors

Pacifica 6–7

4–5 pm

(Fellow/Resident) Complex Case Discussion with Expert Panel

Oceana 7

The top four Complex Cases submitted to the Fellow/Resident Program will be presented orally at this special session. All Annual Meeting attendees are invited to attend! CME will be offered for this session.

4–5:30 pm

Considerations of Aortic Root, Ascending, and Arch Surgery

Oceana 1–6

Moderator: *Anton*

4–4:20 pm

Valve Sparing Aortic Root Surgery: Reimplantation, Remodeling, or Replacement?—*Weitzel*

4:20–4:40 pm

Evolving Approaches to Acute Stanford Type A Dissections—*Cheung*

4:40–5 pm

Cerebral Protection in Aortic Arch Surgery—*Grocott*

5–5:20 pm

Anesthetic Considerations for Hybrid Approaches to the Aortic Arch—*Collard*

5:20–5:30 pm

Panel Discussion and Audience Q&A

Schedule

Saturday, April 22 (continued)

4–5:30 pm

Oceana 11–12

Prevention and Treatment of Perioperative Atrial Fibrillation

Moderator: *Ho*

4–4:20 pm

Overview of Work to Date by the SCA Clinical Practice Improvement Subcommittee Working Group on Atrial Fibrillation—*Muehlschlegel*

4:20–4:40 pm

What Are the Real Clinical Consequences and Costs of Atrial Fibrillation in Cardiac Surgery?—*Mahajan*

4:40–5 pm

Risk Models for Postoperative Atrial Fibrillation: Which to Use?—*Mathew*

5–5:20 pm

Prevention and Management of Atrial Fibrillation in Cardiac Surgical Patients—*Gutsche*

5:20–5:30 pm

Panel Discussion and Audience Q&A

5–6 pm

Pacifica 1–3

(Fellow/Resident) Complex Case Poster Presentations: Session 2 (Non-CME)

See pages 46–51 for full abstract list.

6–7 pm

Promenade Deck

Fellow and Resident Mentor Reception

For invited mentors and mentees only.

Sunday, April 23

6:15 am–7:30 pm

Registration Open

6:45–8 am

Problem-Based Learning Discussions (PBLDs)

See page 26 for full schedule. Separate registration required.

7–8 am

Pacifica 6–7

Light Breakfast With Exhibitors

8–9 am

Oceana 1–6

Earl Wynands Lecture

Moderator: *Fox, A.*

Myocardial Injury After Noncardiac Surgery: What Will It Take to Improve?—*Devereaux*

9 am–Noon

Morning Workshop

See page 25 for full schedule. Separate registration required.

9–10:30 am

Oceana 1–6

SCA/STS Joint Session: Aortic Valve Disease: New Concepts in Diagnostic Imaging, Interventional, and Surgical Approaches

Moderator: *Sherman*

9–9:20 am

Repair vs Replace—*Badhwar*

9:20–9:40 am

TAVR Update: Where Are We Today and What Is Ahead?—*Hahn*

9:40–10 am

New Concepts in Echocardiographic Imaging of the Aortic Valve—*Sherman*

10–10:30 am

Panel Discussion and Audience Q&A

10:30–11 am

Pacifica 6–7

Coffee Break with Exhibitors

Schedule

11 am–12:30 pm

Big Data and Quality

Moderator: *Bollen*

11–11:15 am

11:15–11:30 am

11:30–11:45 am

11:45 am–Noon

Noon–12:15 pm

12:15–12:30 pm

Databases and Quality: Yesterday, Today, and Tomorrow—*Abernathy*

The STS Database: Surgical and Cardiac Anesthesiology Components—*Mathew*

The SCA Clinical Practice Improvement Subcommittee—*Schwann*

Quality Improvement Program Implementation—*Mahajan*

Big Data, Quality, and Reimbursement—*Troianos*

Panel Discussion and Audience Q&A

Oceana 8–10

11 am–12:30 pm

Transplantation: No Risk, No Reward! But When Are the Stakes Too High?

Moderator: *Maldonado*

11–11:20 am

11:20–11:40 am

11:40 am–Noon

Noon–12:20 pm

12:20–12:30 pm

Frailty in Transplantation: FIT or Fail?—*Ghadimi*

Liver-Thoracic Transplantation: A Practice in Principles—*Neyrinck*

Let's Add Some Beans to the Mix: Kidney-Thoracic Transplantations—*Fitzsimons*

Controlling the Coagulation Cascade During Multiple Organ Transplants—*Esper*

Panel Discussion and Audience Q&A

Oceana 1–6

11 am–12:30 pm

Society of Critical Care Anesthesiologists (SOCCA) Session

Moderator: *Hill*

11–11:20 am

11:20–11:40 am

11:40 am–Noon

Noon–12:20 pm

12:20–12:30 pm

Carbon Dioxide and the Heart—*Gutsche*

Goal-Directed Therapy and Preventing Kidney Injury: Which Goals?—*Shaefi*

Transitions in Care: Achieving High Reliability—*Bhatia*

Vasoplegia and Resuscitation in the Cardiac Surgery Patient—*Shahul*

Panel Discussion and Audience Q&A

Oceana 11–12

12:30–1:30 pm

Lunch with Exhibitors

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

Basic Science, Case Report, Structural Heart Disease

See pages 29–31 for full abstract list.

Pacifica 1–3 and 6–7

1:30–3 pm

Healthcare Finances

Moderators: *Mitrev; Panzica*

1:30–1:55 pm

1:55–2:15 pm

2:15–2:35 pm

2:35–2:50 pm

2:50–3 pm

Negotiations 101—*Vender*

Negotiating With the Hospital for Anesthesia's Share of Bundled Payments for Cardiovascular Procedures—*Konstadt*

The Economics of Structural Heart Procedures: The Bottom

Lines of Your Hospital and Society—*Mackensen*

Update on Billing for TEE and Cardiac Anesthesia: New CPT and ICD 10 Codes—*Troianos*

Panel Discussion and Audience Q&A

Oceana 8–10

1:30–3 pm

Coagulation Management in Cardiovascular Surgery

Moderator: *Kumar*

1:30–1:50 pm

1:50–2:10 pm

2:10–2:30 pm

2:30–2:50 pm

2:50–3 pm

The Anticoagulated Patient: Challenges and Strategies for Reversal—*Welsby*

Point of Care Coagulation Management. Is It Best Practice?—*Tanaka, K.*

Heparin Resistance: Diagnosis and Management—*Finley*

Handling Heparin-Induced Thrombocytopenia (HIT) in Cardiac Surgery—*Greilich*

Panel Discussion and Audience Q&A

Oceana 1–6

Schedule

Sunday, April 23 (continued)

1:30–3 pm

Oceana 11–12

SCA Research Session 2017: Chips, SNPs, and Heat Maps: Demystifying Perioperative Genomics

Moderator: *Heerdt*

1:30–1:55 pm

The Basics I: Measurement and Quantification—*Muehlschlegel*

1:55–2:20 pm

The Basics II: Interpreting the Data—*Podgoreanu*

2:20–2:45 pm

Putting It Together Into Something Useful: Big Data and the Prospect of Personalized Medicine—*Body*

2:45–3 pm

Panel Discussion and Audience Q&A

1:30–4:30 pm

Afternoon Workshop

See page 25 for full schedule. Separate registration required.

3–3:30 pm

Pacifica 6–7

Coffee Break with Exhibitors

3:30–5 pm

Oceana 1–6

Electrophysiology Lab: Interventions for Cardiac Arrhythmias

Moderator: *Ho*

3:30–3:50 pm

Therapeutic Strategies for Managing Cardiac Arrhythmias—*Mittnacht*

3:50–4:10 pm

Anesthesia, Ablation, and Autonomic Modulation—*Howard-Quijano*

4:10–4:30 pm

Black Box Explained. What Exactly Are Those Tracings and Maps?—*Katsiyannis*

4:30–4:50 pm

Atrial Appendage Closure Devices and Procedures—*Nyman*

4:50–5 pm

Panel Discussion and Audience Q&A

3:30–5 pm

Oceana 8–10

Super Echo Panel

Co-Organizers: *Brady; Glas*

Moderator: *Glas*

Panelists: *Bollen; Markin; Nicoara*

(SE1) Percutaneous Closure of Complex Membranous Ventricular Septal Defect Under Transesophageal Echocardiographic Guidance
Shvetank Agarwal, MD FASE¹; Nitin Anand, MD¹; Augusta University, Medical College of Georgia¹

(SE2) Ruptured Sinus of Valsalva Aneurysm With Dynamic Aortic Insufficiency

Eleanor Vega, MD¹; Sarah Witt, MD¹; Matthew Bean, DO²; Duke University¹; Duke University Medical Center²

(SE3) Transesophageal Echocardiographic Interrogation of an Atrial Septal Pouch With Thrombosis

Emily Williams, MD¹; Andra Duncan, MD MS¹; David Anthony, MD¹; Cleveland Clinic¹

(SE4) Hypotension and Aggravated Mitral Regurgitation (MR) Due to Air During a Mitral Clip Procedure

Sridhar Musuku, MD FRCA¹; Nathapong Arunakul, MD¹; Natalie Bruno, MD¹; Saroj Pani, MBBS¹; Albany Medical Center¹

(SE5) HeartMate III LVAD Implantation in Kawasaki Disease-Induced Cardiomyopathy

Kara Siegrist, MD¹; Mias Pretorius, MBCHB¹; Vanderbilt University Medical Center¹

(SE6) Hypotension and Aggravated Mitral Regurgitation (MR) Due to Air During a Mitral Clip Procedure

McKenzie Hollon, MD¹; Michele Sumler, MD¹; Elrond Teo, MBBS FCCP FASE¹; Emory University¹

3:30–5:30 pm

Oceana 11–12

Best of Meeting Oral Abstract Presentations: Session 1

Moderator: *Roth*

See page 28 for full abstract list.

5:30–6:30 pm

Pacifica 6–7

Reception with Exhibitors

Schedule

7–10 pm

Oceana 7

SCA Foundation “Back to Our Future” Gala Event

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

Monday, April 24

6:15 am–6 pm

Registration Open

6:45–8 am

Problem-Based Learning Discussions (PBLDs)

See page 26 for full schedule. Separate registration required.

7–8 am

Light Breakfast With Exhibitors

Pacifica 6–7

8–8:10 am

SCA Research Grant and Kaplan Leadership Award Presentation

Shore-Lesserson

Oceana 1–6

8:10–10 am

Transfusion Management in Cardiac Surgery

Moderator: Mazer

8:10–8:30 am

The Transfusion-Anemia Balance: Best Practice in 2017—*Lau*

8:30–8:50 am

The Anemic Patient and Preoperative Optimization—*Sander*

8:50–9:10 am

When Transfusion Is Not the Answer: Red Blood Cell (RBC) Dysfunction, Immunomodulation, and Outcomes—*Blumberg*

9:10–9:30 am

Minimizing Hemodilution on Cardiopulmonary Bypass—*Hwang*

9:30–9:50 am

Lysine Analogues in Cardiac Surgery: Risks and Benefits—*Shore-Lesserson*

9:50–10 am

Panel Discussion and Audience Q&A

Oceana 1–6

10–10:30 am

Coffee Break With Exhibitors

Pacifica 6–7

10:30–10:40 am

SCA Distinguished Service Award Presentation

Shore-Lesserson

Oceana 1–6

10:40–11:10 am

ASA Update

Moderator: Shore-Lesserson

Speaker: Plagenhoef

Oceana 1–6

11:10 am–12:10 pm

Keynote Lecture

Moderator: Shore-Lesserson

Innovations in the Treatment of Structural Heart Disease: Impact on Cardiac Surgery and Anesthesiology—*Mack*

Oceana 1–6

Schedule

Monday, April 24 (continued)

12:10–12:30 pm

SCA Annual Business Meeting

Shore-Lesserson

Oceana 1–6

12:30–1:30 pm

Lunch (on own)

Pacifica 1–3

Scientific Program Poster Presentations: Session 2 (Non-CME)

Cardiovascular Anesthesia, Coagulation, Echocardiography, Thoracic Anesthesia

See pages 32–35 for full abstract list.

1:30–3 pm

Cardiac Protection: From Caves to the Arctic to the OR

Moderator: Billings

1:30–1:50 pm

Ischemia Reperfusion Injury During Cardiac Surgery: Effects in Humans and Lessons from Hibernating Mammals—*Podgoreanu*

1:50–2:10 pm

Small Caves (Caveolae) and Cardiac Protection—*Roth*

2:10–2:30 pm

Volatile Anesthetics and Cardiac Protection—*Landoni*

2:30–2:50 pm

Propofol and Cardiac Protection—*Ansley*

2:50–3 pm

Panel Discussion and Audience Q&A

Oceana 8–10

1:30–3 pm

Anesthesia & Analgesia State of the Art: Cardiac Biomarkers

Moderator: Beattie

1:30–1:50 pm

Epidemiological Considerations for the Clinical Use of Cardiac Biomarkers—*Wijeyesundera*

1:50–2:10 pm

Controversies Around Perioperative Troponin Measurements—*Nagele*

2:10–2:30 pm

Perioperative Utility of B-Type Natriuretic Peptide—*Biccard*

2:30–3 pm

Audience Q&A with speaker panel

Oceana 11–12

1:30–3 pm

EACTA Outcomes: What Happens After Surgery?

Moderator: Greenhalgh

1:30–1:50 pm

Do Any Interventions Decrease or Increase Mortality in Critically Ill Patients?—*Landoni*

1:50–2:10 pm

Cognitive Decline Postcardiac Surgery: What Is the Incidence and How Can We Address It?—*Fletcher*

2:10–2:30 pm

Rehabilitation Post-Prolonged ICU Stay: Intensivist and Patient Perspectives—*Quasim, T.; Quasim, I.*

2:30–3 pm

Panel Discussion

Oceana 1–6

3–3:30 pm

Coffee Break

Pre-Function West

3:30–5 pm

Real-Life Challenges for Maintaining a Safe Cardiac Operating Room

Moderator: Abernathy

3:30–3:50 pm

Resiliency in Teams and in Organizations: What It Takes to Have High Reliability in Medicine—*Catchpole*

3:50–4:10 pm

A Practical Guide to TEAM Building: Taking the First STEPPS—*Rhee*

4:10–4:30 pm

Why Do So Many Safety Solutions Fail? Models for Understanding Implementation—*Perry*

4:30–5 pm

Panel Discussion

Oceana 8–10

Schedule

3:30–5 pm

Percutaneous Valve Care: The Role of Cardiac Anesthesia

Moderators: *Thaemert*

3:30–3:50 pm
3:50–4:10 pm
4:10–4:30 pm
4:30–5 pm

TAVR: Do We Really Need General Anesthesia?—*Brady*
MitraClip for Degenerative Mitral Regurgitation—*Wu*
Mitral Replacement: Where Are We Now?—*Shook*
Tricuspid Valve: What Is the Future?—*Augoustides*

Oceana 1–6

3:30–5:30 pm

Best of Meeting Oral Abstract Presentations: Session 2

Moderator: *Eaton*

See page 28 for full abstract list.

Oceana 11–12

5–6 pm

The Kaplan Leadership Award: Stories of Two Previous Recipients

Moderators: *Perry; Rhee*

Speakers: *Maxwell; Wilkey*

Oceana 1–6

Tuesday, April 25

6:15 am–6 pm

Registration Open

6:45–8 am

Problem-Based Learning Discussions (PBLDs)

See page 26 for full schedule. Separate registration required.

7–8 am

Light Breakfast

Pre-Function West

8–10 am

Global Engagement in Cardiac Surgery

Moderators: *Cheng; Reeves*

8–8:30 am
8:30–9 am

9–9:30 am
9:30–10 am

Scope of Practice and Outcomes in Cardiac Surgery and Anesthesia: East Meets West—*Hwang; Reeves*
Global Practice and Perioperative Management in OPCAB Versus On-Pump CABG Surgery: Long-Term Outcomes and Cost Implications—*Cheng; Mehta*
Global Practice and Ultra-Fast Track Management in TAVR Surgery: Devices, Approaches, Long-Term Outcomes, and Cost Implications—*Bainbridge; Ender*
Panel Discussion and Audience Q&A

Oceana 1–6

10–10:30 am

Coffee Break

Pre-Function West

10:30 am–Noon

Left Heart Failure

Moderator: *Mitrev*

10:30–10:50 am
10:50–11:10 am

11:10–11:30 am
11:30–11:50 am
11:50 am–Noon

Advances in Pharmacologic Management of Acute Left Heart Failure—*Duncan*
Mechanical Circulatory Support for Advanced Left Heart Failure Patients: What's on the Horizon?—*Makdisi*
Perioperative Management and Outcomes of Patients With Hypertrophic Obstructive Cardiomyopathy (HOCM)—*Brady*
Anything New in the Management of Diastolic Heart Failure?—*Nicoara*
Panel Discussion and Audience Q&A

Oceana 11–12

Schedule

Tuesday, April 25 (continued)

10:30 am–Noon

Oceana 1–6

Echo in the Noncardiac Surgical Patient

Moderators: *Greenhalgh; Sherman*

10:30–10:50 am

Preoperative Echo Assessment of the Noncardiac Surgical Patient—*Royse*

10:50–11:10 am

Postoperative Echo Assessment of the Noncardiac Surgical Patient in the ICU—*Fletcher*

11:10–11:30 am

Perioperative TEE for the Noncardiac Surgical Patient—*Bainbridge*

11:30 am–Noon

Panel Discussion and Audience Q&A

Noon–1 pm

Pacifica 1–3

Lunch (on own)

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

Perioperative Medicine, Quality Improvement

See pages 36–39 for full abstract list.

1–2:30 pm

Oceana 8–10

Best Practices for Cardiopulmonary Bypass Management

Moderators: *Barodka; Brady*

1–1:20 pm

Warm, Cold, or In Between? Temperature Management During CPB—*Grocott*

1:20–1:40 pm

Flow or Pressure: What Determines Organ Perfusion During CPB?—*Lilly*

1:40–2:20 pm

Pro-Con Debate: Monitoring Perfusion: NIRS Is Standard of Care for CPB

Pro: *Taylor*

Con: *Hogue*

2:20–2:30 pm

Panel Discussion and Audience Q&A

1–2:30 pm

Oceana 11–12

New Ventilation Strategies During Cardiopulmonary Bypass

Moderator: *Popescu*

1–1:20 pm

Mechanisms of Pulmonary Injury in Cardiac Surgery—*Cereda*

1:20–1:40 pm

The Utility of Ventilation and Lung Perfusion During Cardiopulmonary Bypass—*Carmona*

1:40–2:20 pm

Pro-Con Debate: 100% Oxygen Is Always Best!

Pro: *Roth*

Con: *Billings*

2:20–2:30 pm

Panel Discussion and Audience Q&A

1–2:30 pm

Oceana 1–6

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

Moderator: *Ao; Weisinger*

1–1:20 pm

Diagnosis of Acute Kidney Injury Following Cardiac Surgery—*Wijeyesundera*

1:20–1:40 pm

Clinical Trials in CSA-AKI: Important Interventions and Endpoints—*Shaw*

1:40–2 pm

Continuous Renal Replacement Therapy and ECMO: Good Idea or Dangerous Combination?—*Silver*

2–2:20 pm

Is the Incidence of CSA-AKI Influenced by the Choice of Procedure?

On-Pump vs Off-Pump CABG and SAVR vs TAVR—*Stafford-Smith*

2:20–2:30 pm

Panel Discussion and Audience Q&A

2:30–3 pm

Pre-Function West

Coffee Break

Schedule

3–4:30 pm

Hot Topics in Thoracic Anesthesiology

Moderator: *Puskas*

3–3:20 pm

Morbidity After Thoracic Surgery: Is There Prevention?—*Puskas*

3:20–3:40 pm

Preventing Chronic Pain After Thoracic Surgery—*Ochroch*

3:40–4 pm

Pulmonary Hypertension Due to Lung Disease vs Heart Disease—*Slinger*

4–4:20 pm

Lower Airway Trauma, Management, and Consequences—*Popescu*

4:20–4:30 pm

Panel Discussion and Audience Q&A

Oceana 8–10

SCIENTIFIC PROGRAM

3–4:30 pm

SCA/CCAS Session: Update on Pediatric Cardiac Anesthesiology

Moderators: *Wise-Faberowski*

3–3:10 pm

Introductory Comments from CCAS—*Guzzetta*

3:10–3:25 pm

Anatomy of Hypoplastic Left Heart Syndrome—*Miller-Hance*

3:25–3:55 pm

Surgical Management of Hypoplastic Left Heart Syndrome—*Jacobs*

3:55–4:10 pm

Anesthesia Debate: I'd Rather Care for a....

Sano: *Eaton*

Norwood: *Schure*

Hybrid: *Naguib*

4:10–4:30 pm

Panel Discussion and Audience Q&A

Oceana 11–12

3–4:30 pm

Perioperative Care of the Morbidly Obese Cardiac Surgical Patient

Moderator: *Brakke*

3–3:25 pm

Pathophysiology and Clinical Implications of Morbid Obesity in Cardiac Surgery—*Cheruku*

3:25–3:50 pm

Airway Management for the Obese Cardiac Surgical Patient—*Lester*

3:50–4:15 pm

Perioperative Management of Morbidly Obese Patients in Cardiac Surgery—*Chacon*

4:15–4:30 pm

Panel Discussion and Audience Q&A

Oceana 1–6

4:30–6 pm

Echo Jeopardy!

Moderators: *Mahmood; Maslow; Panzica*

Oceana 1–6

Wednesday, April 26

6:15–11 am

Registration Open

6:45–8 am

Problem-Based Learning Discussions (PBLDs)

See page 26 for full schedule. Separate registration required.

7–8 am

Light Breakfast

Pre-Function West

8–11 am

Morning Workshop

See page 25 for full schedule. Separate registration required.

8–11 am

(Fellow/Resident) Perioperative TEE Review Session

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

Pacifica 8–10

Schedule: Workshops

Workshop Coordinator: Shillcutt

Separate registration required.

Saturday, April 22

8–11 am

Pacifica 11–12

Workshop 1: Hands-On TTE

Moderators: *Brakke; Janelle*

Presentations:

- Comparison Views: TTE vs TEE—*Montzingo*
- The Basic Exam—*Ho*
- How TTE Has Expanded My Practice—*Markin*

Hands-On Stations:

- Subcostal Window—*Meineri; Thomas*
- Parasternal Window—*Hernandez; Teo*
- Apical Window—*Desjardins; Ho*
- Hemodynamic Assessments—*Markin; Montzingo*

8–11 am

Pacifica 8–10

Workshop 2: ECMO and Percutaneous VADs

Moderators: *Anton; Thompson*

Presentations:

- Physiology of Continuous Flow Circulation and Long-Term VAD Support—*Rao*
- Hemodynamic Management of Patients With LVAD Support—*Taylor*
- Functional and Long-Term Outcomes in Patients After ECMO Support—*Shaefi*
- Understanding VAD Systems and Alarms—*Thompson*
- Advantages and Disadvantages of ECMO Configurations and Cannulation Strategies—*Silver*
- New Developments and Emerging Technologies—*Cheruku*

Hands-On Stations:

- Left Ventricular Assist Devices I—*Rao*
- Percutaneous Ventricular Assist Devices—*Taylor*
- Left Ventricular Assist Devices II—*Thompson*
- Intra-Aortic Balloon Pumps—*Shaefi*
- Extracorporeal Mechanical Support Systems—*Silver*
- Percutaneous Partial Circulatory Assist Devices—*Reisman*

1–4 pm

Pacifica 11–12

Workshop 3: Perioperative Ultrasound

Moderators: *Bollen; Weisinger*

Presentations:

- A Call to Action: Where We Are Going?—*Shernan*

Hands-On Stations:

- Ultrasound for Evaluation of Hypoxia/Dyspnea—*Montzingo; Rao*
- FAST Examination—*Joshi; Peach*
- FOCUS Cardiac Examination—*Cheruku; Teo*
- CPR and TTE—*Meineri; Thomas*
- Vascular Access—*Dailor; Lester*

Schedule: Workshops

1–4 pm

Pacifica 8–10

Workshop 4: Percutaneous Valves

Moderators: *Augoustides; Thaemert*

Hands-On Stations:

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

Sunday, April 23

9 am–Noon

Pacifica 11–12

Workshop 5: EP/Pacemaker

Moderators: *Ho, Perry*

Presentations:

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

Hands-On Stations:

- Pacemaker Mode Selection—*Howard-Quijano; Montzingo*
- Perioperative ICD Therapy Management—*Mittnacht; Thompson*
- Magnet Use—*Leff; Rooke*
- Rate Adaptive Features—*Katsiyannis; Neelankavil*

1:30–4:30 pm

Pacifica 11–12

Workshop 6: Advanced TEE

Moderators: *Brady, Sherman*

Presentations:

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

Hands-On Stations:

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

Wednesday, April 26

8–11 am

Pacifica 11–12

Workshop 7: 3D TEE

Moderators: *Nicoara; Perry*

Presentations:

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

Hands-On Stations:

- Basic 3D TEE I—*Leff*
- Advanced 3D TEE I—*Ho*
- Basic 3D TEE II—*Markin; Nicoara; Perry*
- Advanced 3D TEE II—*Cardenas; Thomas*
- Advanced 3D Quantification—*Desjardins; Nyman*
- Advanced 3D TEE III—*Neelankavil*

Schedule: PBLDs

PBLD Coordinator: Shillcutt

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

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

Saturday, April 22 (6:45–8 am)		
PBLD 1	Optimal Pain Management for VATS— <i>Campos; Pedoto</i>	Banda Sea 1
PBLD 2	The Patient With Cardiac Disease Undergoing Thoracic Surgery— <i>Anca; Popescu</i>	Banda Sea 2
PBLD 3	Lung Transplantation: Management Decisions— <i>Klinger; Slinger</i>	Timor Sea 1
PBLD 4	Massive Hemoptysis— <i>Lohser; Zhukov</i>	Timor Sea 2
PBLD 5	The Afib Problem With Thoracic Surgery— <i>Frendl; Heir</i>	Java Sea 1
PBLD 6	Carinal Resection: Nuts & Bolts— <i>Hartigan; Ng</i>	Java Sea 2
PBLD 7	Robotic Thymectomy in a Myasthenic— <i>Blank; Collins</i>	Coral Sea 1
PBLD 8	Ethical Conundrums in Thoracic Anesthesia— <i>Ochroch; Sadovnikoff</i>	Coral Sea 2
Sunday, April 23 (6:45–8 am)		
PBLD 9	Pitfalls and Solutions in Invasive Arterial Pressure Measurement— <i>Gutsche; Perrino</i>	Banda Sea 1
PBLD 10	Managing the Adult Congenital Patient for Elective Surgery— <i>Burch; Mittnacht</i>	Banda Sea 2
PBLD 11	Secondary Tricuspid Regurgitation: Fix It or Leave It Alone?— <i>Hahn; Meineri</i>	Timor Sea 1
PBLD 12	Stop the Bleeding: Tips and Tricks for Troubleshooting Perioperative Coagulopathy— <i>Ghadimi; Patel</i>	Timor Sea 2
PBLD 13	Anesthesia for Thoracic Endovascular Aortic Repair and Rapid Right Ventricular Pacing— <i>Bokoch; Shalabi</i>	Java Sea 1
PBLD 14	STS: Transarterial Aortic Valve Implantation— <i>Badhwar; Shernan</i>	Java Sea 2
PBLD 15	How to Build a Structural Heart Program— <i>Mackensen; Reisman</i>	Coral Sea 1
PBLD 16	Intraoperative Diagnosis of Severe Low-Flow, Low-Gradient Aortic Stenosis— <i>Tanaka, C.; Zvara</i>	Coral Sea 2
Monday, April 24 (6:45–8 am)		
PBLD 17	Converting from VA ECMO to BiVAD: Anesthetic Considerations— <i>Chung; Markin</i>	Banda Sea 1
PBLD 18	Mitral Repairs: Minimally Invasive, Maximum Headache?— <i>Dailor; Mitrev</i>	Banda Sea 2
PBLD 19	High-Risk Lead Extractions: Who, Where, and How?— <i>Fermin; Joshi</i>	Timor Sea 1
PBLD 20	Managing the Patient Taking the New Oral Anticoagulants— <i>Arora; Gravlee</i>	Timor Sea 2
PBLD 21	Pulmonary Hypertension in Interventional Radiology: To Tube or Not to Tube?— <i>Gross; Varelmann</i>	Java Sea 1
PBLD 22	Challenges of Ventricular Assist Device Placement— <i>Mahmood; Rao</i>	Java Sea 2
PBLD 23	This Heart Transplant Is Ruining My Laparotomy— <i>Hastings; Richards</i>	Coral Sea 1
PBLD 24	Aortic Valve Repair: What to Know— <i>Augoustides; Ko</i>	Coral Sea 2
Tuesday, April 25 (6:45–8 am)		
PBLD 25	Right Heart Failure After Heart Transplantation: Help!— <i>Chacon; Janelle</i>	Banda Sea 1
PBLD 26	Heparin-Induced Thrombocytopenia and Cardiopulmonary Bypass— <i>Taylor; Weiner</i>	Banda Sea 2
PBLD 27	VT Storm: Coming to a Cath Lab Near You— <i>Howard-Quijano; Methangkool</i>	Timor Sea 1
PBLD 28	What Should I Know About Hypertrophic Obstructive Cardiomyopathy?— <i>Brakke; Teo</i>	Timor Sea 2
PBLD 29	Preventing and Managing Perioperative Delirium— <i>Cheruku; Grocott</i>	Java Sea 1
PBLD 30	Anesthetic Management for Combined Heart/Liver Transplantation— <i>Cvetkovic; Pothula</i>	Java Sea 2
PBLD 31	Can You Be Too Cold? Temperature Management for DHCA— <i>Cheung; Leff</i>	Coral Sea 1
PBLD 32	Minimally Invasive Surgery—Maximally Monitoring: Monitoring Considerations in Total Endoscopic Robotic Cardiac Surgery (TERCS)— <i>Fitzgerald; Skubas</i>	Coral Sea 2
Wednesday, April 26 (6:45–8 am)		
PBLD 33	Emergent Initiation and ICU Management for Peripheral Mechanical Circulatory Support— <i>Jayaraman; Nonaka</i>	Banda Sea 1
PBLD 34	Factor Recombinants, Factor Concentrates, and Fibrinogen— <i>Greilich; Levy</i>	Banda Sea 2
PBLD 35	Assessment and Management of Right Ventricular Dysfunction for LVAD Placement: Can the RV Handle an LVAD?— <i>Ianchulev; Burbano</i>	Timor Sea 1
PBLD 36	Severe Pulmonary Hypertension and Noncardiac Surgery— <i>Kay; Leff</i>	Timor Sea 2
PBLD 37	Adult Patient With a “Failing” Fontan for Emergency Exploratory Laparotomy— <i>DiNardo; Nasr</i>	Java Sea 2

Schedule: Fellow/Resident Program

Directors: Culp; Neelankavil

Saturday, April 22

10–11 am

Oceana 8–10

Town Hall Discussion (Non-CME)

Moderators: Culp; Neelankavil

Join SCA leaders to discuss important issues relating to society membership, benefits, and value, and to answer the question of how we can best serve you. Light refreshments will be served.

11 am–Noon

Pacifica 1–3

Complex Case Poster Presentations No. 1 (Non-CME)

Noon–1 pm

Pacifica 6–7

Lunch with Exhibitors

1–2 pm

Oceana 8–10

A Career in CT Anesthesiology: Mission Possible

Moderators: Culp; Neelankavil

Life as a Private Practice Anesthesiologist—Perry

Life as an Academic Anesthesiologist—Thompson

What I Really Need to Do When I Start My First Job—Zvara

2–3:30 pm

Oceana 8–10

Problem-Based Learning Discussion: Ventricular Assist Devices (VADs)

Speakers: Anton; Apostolidou; Banks; Bernstein; Cheung; Eagle; Fox, J.; Hargrave; Harvey; Ho; Methangkool; Miller; Nelson, E.; Ngai; Peng; Sumler; Tippet; Tolpin; Townsley; Wilson

4–5 pm

Oceana 7

Complex Case Discussion With Expert Panel

Moderators: Culp; Neelankavil

Panelists: Fox, J.; Shillcutt; Swaminathan

The top four Complex Cases submitted to the Fellow/Resident Program will be presented orally at this special session. All Annual Meeting attendees are invited to attend! CME will be offered for this session.

(F1) Protek Duo® for Right Ventricular Support in a Patient Undergoing Bilateral Orthotopic Lung Transplantation

Kimberly Warmack, MD¹; Aaron Reynolds, MD¹; Northwestern Feinberg School of Medicine¹

(F2) Ozaki Repair for Isolated Type Id Aortic Insufficiency

Neel Jethwa, MD¹; Andrej Alfirevic, MD FASE¹; Cleveland Clinic¹

(F3) Transcatheter Inferior Vena Cava Valve Treatment of Tricuspid Regurgitation: Use of Intraoperative Transesophageal Echocardiography

Irida Nikolla, MD¹; Jeremy Bennett, MD¹; Vanderbilt University¹

(F4) Tricuspid Valve Replacement with Cardiopulmonary Bypass During Pregnancy: The Challenge of Fetal Protection

David Li, MD¹; Nicole Weiss, MD²; University of California Davis¹; UC Davis Medical Center²

5–6 pm

Pacifica 1–3

Complex Case Poster Presentations No. 2 (Non-CME)

6–7 pm

Promenade Deck

Fellow and Resident Mentor Reception

Invited mentors and mentees only.

Wednesday, April 26

8–11 am

Pacifica 8–10

Perioperative TEE Review Session

Moderators: Culp; Neelankavil

Artifacts & Pitfalls—Bainbridge

Hemodynamic Calculations—Brady

Diastology—Popescu

Congenital Heart Defects—Rouine-Rapp

Ultrasound Physics—Royse

FELLOW/RESIDENT

Scientific Abstracts and Posters

Best of Meeting Oral Abstract
Presentations: Session 1

Sunday, April 23, 3:30–5:30 pm

(SCA1) Neuropeptide Y3-36 Incorporated Into PVAX Nanoparticle Improves Angiogenesis in a Murine Model of Myocardial Ischemia

Maria Saraf, BA¹; Jelliffe Jeganathan, MBBS¹; Feroze Mahmood, MD FASE¹; Arash Khamooshian, MD²; Robina Matyal, MD¹; Beth Israel Deaconess Medical Center¹; University Medical Center Groningen²

(SCA2) SIRT3 Ablation Exacerbates Neuroinflammation After Deep Hypothermic Circulatory Arrest Via NLRP3 Inflammasome Activation in the Rat

Zhiqian Zhang, PhD¹; Bijal Shah, MS¹; Michael Smith, MS²; Quintin Quinones, MD PhD²; Niccolo Terrando, BSc (hons) DIC PhD²; Mihai Podgoreanu, MD FASE²; Duke University Medical Center¹; Duke University²

(SCA3) Myocardial Injury Leads to Remote Transcriptome Remodeling of the Cardiac Nervous System in a Large Animal Model

Louis Saddic, MD PhD¹; Kimberly Howard-Quijano, MD MS¹; Chen Gao, PhD¹; Tatsuo Takamiya, MD¹; Christoph Rau, PhD¹; Yibin Wang, PhD¹; Aman Mahajan, MD PhD¹; UCLA¹

(SCA4) Perioperative Markers of Brain Injury and the Risk of Delirium Following Cardiac Surgery

Jason O'Neal, MD¹; Yafen Liang, MD¹; Brennan McNeil; Andrew Shaw, FCCM FRCA MB¹; Frederic Billings, MD MSCI¹; Vanderbilt University Medical Center¹

(SCA5) Static and Dynamic Gene Expression Signatures in Left and Right Atrial Myocardium of Patients Undergoing Cardiac Surgery and Their Association With Atrial Fibrillation

Martin Sigurdsson, MD PhD¹; Nathan Waldron, MD MHSc²; Michael Manning, MD PhD³; Quintin Quinones, MD PhD³; Miklos Kertai, MD PhD²; Joseph Mathew, MD²; Mihai Podgoreanu, MD FASE³; Duke University Hospital¹; Duke University Medical Center²; Duke University³

(SCA6) Use of a Simulation Algorithm to Model Complex LV Contractility and Energetics from Common Hemodynamic Monitors and Echocardiography

Scott Korfhagen, MD¹; Paul Heerdt, MD PhD FCCP²; Manuel Fontes, MD¹; Yale University¹; Yale University School of Medicine²

(SCA7) Genome-Wide Association Study of Thrombocytopenia After Coronary Artery Bypass Surgery

Jorn Karhausen, MD¹; Alan Smeltz, MD²; Wenjing Qi, PhD¹; Yi-Ju Li, PhD³; Joseph Mathew, MD³; Svati Shah, MD¹; Mihai Podgoreanu, MD FASE¹; Miklos Kertai, MD PhD³; Duke University¹; University of North Carolina Hospital²; Duke University Medical Center³

(SCA8) Metabolomic Profiling of Bleeding in Cardiac Surgery

Nathan Clendenen, MD¹; Travis Nemkov, BA²; Kirk Hansen, PhD³; Angelo D'Alessandro; Nathaen Weitzel, MD⁴; University of Colorado¹; University of Colorado Denver Anschutz Medical Campus²; University of Colorado Denver³; University of Colorado Health Sciences Center⁴

Best of Meeting Oral Abstract
Presentations: Session 2

Monday, April 24, 3:30–5:30 pm

(SCA9) Three-Dimensional Planimetric Assessment of Left Ventricular Outflow Obstruction Following Mitral Valve-in-Valve Procedures.

Ross Hanson, MD¹; Allyson Lemay, MD¹; Chuan-Chin Huang, ScD¹; Stanton Sherman, MD FASE FAHA¹; Charles Nyman, MBBCh¹; Brigham and Women's Hospital¹

(SCA10) Intraoperative Stress Testing in Patients With Hypertrophic Obstructive Cardiomyopathy Undergoing Septal Myectomy

Ali Elsayes, MD¹; Alaa Basura, MBBS¹; Stanton Sherman, MD FASE FAHA²; Stefan Ianchulev, MD¹; Farhad Zahedi, MD¹; Ethan Rowin, MD¹; Hassan Rastegar, MD¹; Martin Maron, MD¹; Frederick Cobey, MD MPH FASE¹; Tufts Medical Center¹; Brigham and Women's Hospital²

(SCA11) Intraoperative Hemodynamic and Echocardiographic Measurements for the Prediction of Right Ventricular Failure Following Left Ventricular Support Device Implantation

Michael Gudejko, BS¹; Brian Gebhardt, MD MPH²; Farhad Zahedi, MD¹; Ankit Jain, MBBS³; Janis Breeze, MPH¹; Gregory Couper, MD¹; Michael Kiernan, MD¹; Navin Kapur, MD¹; Frederick Cobey, MD MPH FASE¹; Tufts Medical Center¹; Anesthesia Associates of New Mexico²; Augusta University & Medical College of Georgia³

(SCA12) Network Analysis Reveals DNA Methylation Modules that Function as Biomarkers for Post-Operative Atrial Fibrillation

Matthew Fischer, MD¹; Emma Monte, PhD¹; Todd Kimball; Kimberly Howard-Quijano, MD MS¹; Jennifer Scovotii, MA¹; Aman Mahajan, MD PhD¹; Thomas Vondriska, PhD¹; University of California, Los Angeles¹

(SCA13) Brain Functional Network Connectivity and Postoperative Atrial Fibrillation: Is It All in Our Heads?

Nathan Waldron, MD MHSc¹; Ashley Flynn, BSE²; Jeffrey Browndyke, PhD¹; Miklos Kertai, MD PhD¹; Mihai Podgoreanu, MD FASE²; Mark Newman, MD¹; Allen Song, PhD²; Joseph Mathew, MD¹; Duke University Medical Center¹; Duke University²

(SCA14) Effect of Preoperative Oral Carbohydrates on Insulin Resistance in Patients Undergoing Off-Pump Coronary Artery Bypass Surgery: A Randomized Trial

Sarah Soh¹; Jae-Kwang Shim, MD PhD¹; HyeJin Kim, MD¹; Hye-Bin Kim, MD¹; Young-Lan Kwak, MD PhD¹; Yonsei University College of Medicine¹

(SCA15) Baseline Pulse Pressure, Intraoperative Blood Pressure, and Acute Kidney Injury Following Coronary Bypass Grafting Surgery

Srikanth Rao, MD¹; Mary Cooter, MSc¹; Jorn Karhausen, MD²; Mark Stafford-Smith, MD CM FRCPC FASE¹; Manuel Fontes, MD³; Miklos Kertai, MD PhD¹; Duke University Medical Center¹; Duke University²; Yale University³

(SCA16) Taking Liberty or Death to Heart: The Disparities of Socioeconomic Status and Coronary Artery Bypass Surgery Outcomes in the United States

Timothy Connolly, MD¹; Robert White, MD¹; Abdullah Rasheed, MD¹; Licia Gaber-Baylis, BA²; Gregory Giambone, MS²; Zachary Turnbull, MD²; NYP/Weill Cornell Medical Center¹; Weill Cornell Medical College²

Scientific Abstracts and Posters

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

Sunday, April 23, 12:30–1:30 pm

(SCA17)

Withdrawn

(SCA18) Effects of Epinephrine Exposure on Vascular Irritability-Related Gene Expressions in Cultured Cardiomyocytes

Rayhan Tariq, MD¹; Geoffrey L. Liu, BA¹; Michael Green, DO²; Henry Liu, MD¹; Drexel University College of Medicine¹; Hahnemann Hospital/Drexel University College of Medicine²

(SCA19) Peripheral Venous Waveform Analysis for Evaluating Volume Responsiveness in Patients with Distributive Shock

Kelly Kohorst, MD¹; Bret Alvis, MD¹; Kyle Hocking, PhD²; Irida Nikolla, MD²; Franz Baudenbacher; Susan Eagle, MD²; Vanderbilt University Medical Center¹; Vanderbilt University²

(SCA20) Cerebral Oxygenation and Quantified Neurological Outcomes After Coronary Bypass Surgery

Joanna Semrau, BSc¹; Michael Wood, BA¹; Stephen Scott, PhD¹; Tarit Saha, MBBS FRCP¹; G. Andrew Hamilton, MD¹; Dimitri Petsikas, MD²; Darrin Payne, MD MSc FRCS³; J. Gordon Boyd, MD PhD¹; Queen's University¹; Kingston General Hospital²; Queen's University/Kingston General Hospital³

(SCA21) Right Ventricular Dysfunction After Left Ventricular Assist Device Implantation

Mina Oftadeh, DO¹; Jayanta Mukherji, MD¹; Pierre LeVan, MD¹; Loyola University Medical Center¹

(SCA22) Vascular Occlusion Tests as a Marker of Microvascular Dysfunction in Cardiopulmonary Bypass

Christopher Palermo, DO MPH¹; Margarita Nieto; Ricardo Martinez-Ruiz, MD²; Jackson Memorial Hospital/University of Miami¹; VA Medical Center/Jackson Memorial Hospital²

(SCA23) Peripheral Intravenous Analysis (PIVA) Correlates with Pulmonary Capillary Wedge Pressure

Irida Nikolla, MD¹; Kelly Kohorst, MD²; Susan Eagle, MD¹; Kyle Hocking, PhD¹; Vanderbilt University¹; Vanderbilt University Medical Center²

(SCA24) Spinal Cord Stimulation Reduces Ventricular Arrhythmogenicity During Myocardial Ischemia

Kimberly Howard-Quijano, MD MS¹; Tatsuo Takamiya, MD¹; Erica Dale, PhD¹; Yukiko Kubo, MD¹; Wei Zhou, PhD FAHA¹; Jasmine Kipke, BS¹; University of California Los Angeles¹

(SCA25) Intralipid™ Perfusion Triggers Nitric Oxide Production in Rat-Isolated Hearts

Matthias Riess, MD PhD¹; Hunter Douglas, BS¹; Michele Salzman, BS²; Vanderbilt University Medical Center¹; Vanderbilt University²

(SCA26) Accessing a Dormant Data Source: The Feasibility of Applying Waveform Analysis Techniques to Hard-Copy Images of Pressure Recordings to Assess Ventricular-Vascular Coupling

Roy Kiberenge, MD¹; Paul Heerdt, MD PhD FCCP²; Anirudh Kurup¹; Manuel Fontes, MD¹; Yale University¹; Yale University School of Medicine²

(SCA27) Paralysis and Spinal Cord Edema in a Canine Model of Thoracoabdominal Aortic Aneurysm Repair

Hamdy Awad, MD¹; Mohamed Ehab Ramadan, MBBCh¹; Tony Boualoy, BS²; Hossam El Sayed; Hayam Hussein, MD²; Esmerina Tili, PhD¹; The Ohio State University, Wexner Medical Center¹; The Ohio State University²

(SCA28) Isoflurane Increases Myocardial Sympathoexcitation in a Porcine Model of Chronic Ischemia

Tiffany Williams, MD PhD¹; Tatsuo Takamiya, MD¹; Yukiko Kubo, MD¹; Tien Luong, BS¹; Jasmine Kipke, BS¹; Kimberly Howard-Quijano, MD MS¹; Aman Mahajan, MD PhD¹; University of California, Los Angeles¹

(SCA29) Acute Onset Heart Failure From Postpartum Spontaneous Coronary Artery Dissection

Katrina McGuire, MD; The University of Arizona Health Network

(SCA30) Aortic Dissection in a Morbidly Obese Parturient

Ezekiel Tayler, DO¹; Christopher Sharp, MD MS²; Jaya Ramanathan, MD²; Blas Catalani, MD MPH²; Jill Cooley, MD²; Lebron Cooper, MD²; University of Tennessee Regional One Medical Center¹; University of Tennessee Health Science Center – Memphis²

(SCA31) 4D Transesophageal Echocardiography Guidance for AngioVac Debulking of a Tricuspid Valve Vegetation

Adam Dalia, MD MBA¹; Heidi Bas, MD¹; Massachusetts General Hospital Harvard Medical School¹

(SCA32) A Centrifugal Color Doppler Pattern in a Normally Functioning Third-Generation Continuous Flow HVAD

Ankit Jain, MD¹; Brian Gebhardt, MD MPH²; Michael England, MD³; Fred Cobey, MD MPH FASE³; Augusta University¹; Anesthesia Associates of New Mexico²; Tufts Medical Center³

(SCA33) Aortic Wall Hematoma Following TAVR Valve Deployment: What Now?

Adam Dalia, MD MBA¹; Vipin Mehta, MD FFARCSI¹; Massachusetts General Hospital Harvard Medical School¹

(SCA34) Giant Aneurysm of the Left Main Coronary Artery

Pierre LeVan, MD¹; Kristine Pearson-Chauhan, DO¹; Mina Oftadeh, DO¹; Michael Majewski, MD¹; Jenny Kwak, MD¹; Loyola University Medical Center¹

(SCA35) Is Timing Everything? Right Heart Catheterization Prior to Pulmonary Thromboendarterectomy

Eva Litvak, MD¹; Carolyn Mehaffey, MD¹; Massachusetts General Hospital¹

(SCA36) Late Right Ventricular Perforation by a Cardiac Implantable Electronic Device Lead

Richa Dhawan, MD; University of Chicago Medical Center

(SCA37) An Intraoperative Management of a Patient With Becker Cardiomyopathy

Sho Tanaka, MBBCh BAO¹; Sagar Mungekar, MD²; Brian Raffel, DO³; Bhounesh Patel, MD²; Achillina Rianto, MD²; Amanda Zarchin, MD²; Rutgers Robert Wood Johnson University Hospital¹; Rutgers Robert Wood Johnson Medical School²; Rutgers University³

(SCA38) Acquired Cor Triatriatum Dexter in an Adult Heart Transplant Patient

Perin Kothari, DO¹; Shiva Sale, MD²; Cleveland Clinic¹; Cleveland Clinic Foundation²

(SCA39) Type A Dissection Diagnosed by Transesophageal Echocardiography During Ascending Aortic TEVAR and Aortic Debranching

Timothy Sims, MD¹; Marie-Louise Meng, MD²; New York Presbyterian-Columbia University¹; Columbia University²

Scientific Abstracts and Posters

Sunday, April 23, 12:30–1:30 pm (continued)

(SCA40) Cardiac R&R: Recovery From Postoperative Biventricular Cardiogenic Shock With a BiVAD Holiday

Amanda Zarchin, MD¹; Brian Raffel, DO²; Sho Tanaka, MBBCh BAO³; Bhounesh Patel, MD¹; George Batsides, MD; Denes Papp, MD¹; Rutgers Robert Wood Johnson Medical School¹; Rutgers University²; Rutgers Robert Wood Johnson University Hospital³

(SCA41) Acute Opioid Withdrawal After Short-Term Remifentanyl Infusion

Vikram Chawa, MD¹; John D. Srinivasan, MD¹; Saint Louis University¹

(SCA42) Sepsis and Cardiopulmonary Bypass, Rare Complications of a Retained Guidewire

Jillian Dashiell, MD¹; Elizabeth Wolo, MD²; Thomas Jefferson University Hospital¹; Thomas Jefferson University²

(SCA43) Mitral Annular Calcification Causing Multiple Cerebral Infarctions

Tyson Vandagriff, MD¹; Elizabeth Lee Herrera, MD²; University of Texas – Houston¹; Houston Methodist Hospital²

(SCA44) Resolution of Paraplegia After Acute Type B Dissection With Physiologic Neuroprotective Measures

Dane Ingebrigtsen, MD¹; Martha Wynn, MD; University of Wisconsin¹

(SCA45) Pectoral Nerve Fascial Plane Blocks as Rescue Analgesia for Minimally Invasive Cardiac Surgery

Suraj Yalamuri, MD¹; Rebecca Klinger, MD MS¹; W. Michael Bullock, MD PhD¹; Donald Glower, MD¹; Jeffrey Gadsden, MD FRCP FANZCA¹; Brandi Bottiger, MD²; Duke University Medical Center¹; Duke University²

(SCA46) A Membrane Oxygenator Exceeded by a Patient's Predicted Metabolism During Cardiopulmonary Bypass

Rebecca Lee, MD¹; Michael Majewski, MD¹; Pierre LeVan, MD¹; Loyola University Medical Center¹

(SCA47) Use of Cardiopulmonary Bypass to Stabilize a Patient With Suspected Malignant Hyperthermia

Matthew Barajas, MD¹; Steve Miller, MD²; Yefim Vilnits, MD³; Columbia University¹; Columbia University Medical Center²; New York Presbyterian Hospital/Columbia University Medical Center³

(SCA48) Pulmonary Artery Catheter Suture Entrapment During Cardiac Surgery

Gilbert Brown, MD¹; Jiapeng Huang, MD PhD²; University of Louisville¹; Jewish Hospital, University of Louisville²

(SCA49) Repair of Flail Anterior Leaflet in a Barlow Mitral Valve Using the American Correction

Elizabeth Lee Herrera, MD¹; Gerald Lawrie, MD¹; Houston Methodist Hospital¹

(SCA50) Halt the Bleeding Before It Starts: Utility of Intraoperative Viscoelastic Testing to Preemptively Reduce Coagulopathic Bleeding Associated With Prolonged Cardiopulmonary Bypass

Reney Henderson, MD¹; Brittney Williams, MD²; Seema Deshpande, MD³; University of Maryland School of Medicine¹; University of Maryland Baltimore²; University of Maryland Medical System³

(SCA51) Mobile Pedunculated Mass in Left Ventricular Apex—Thrombus or Tumor?

Manuel Castresana, MD¹; Amjad Najim, MBChB²; Shvetank Agarwal, MD FASE¹; Augusta University, Medical College of Georgia¹; Augusta University Medical Center²

(SCA52) Iatrogenic Pneumothorax in Laparoscopic Donor Nephrectomy

Mirza Baig, MD¹; Joseph Mueller, MD¹; MedStar Georgetown University Hospital¹

(SCA53) Management of Large Ventricular Pseudoaneurysm Following Bioprosthetic Mitral Valve Replacement

Michael Miller, MD¹; Asish Das, MBBS MS MCh¹; Oregon Health & Science University¹

(SCA54) Echocardiographic Detection of Extrapulmonary Thrombi During Pulmonary Embolectomy

Wilbert Jones, MD¹; Tina Law, DO¹; Giuseppe Trunfio, MD¹; Maimonides Medical Center¹

(SCA55) Ventricular Perforation Following Open Surgical Balloon Expandable Mitral Valve Replacement

Yousef Hamdeh, DO¹; Jordan Goldhammer, MD²; Thomas Jefferson University Hospital¹; Sidney Kimmel Medical College at Thomas Jefferson University²

(SCA56) Anesthetic Management for Intratracheal Tumor Resection Using a Bronchial Blocker and High-Frequency Jet Ventilation

Kana Fukutoku, MD¹; Katsuyuki Matsushita, MD PhD²; Makoto Sumie, MD PhD¹; Ryohei Miyazaki, MD PhD²; Tadashi Kandabashi; Yuji Karashima, MD PhD²; Sumio Hoka, MD²; Kyushu University Hospital¹; Kyushu University²

(SCA57) Aortic Leaflet Perforation After Ablation Procedure

Jacquelin Cunningham, MD¹; Ricardo Cardenas, MD¹; Allegheny Health Network¹

(SCA58) Intraoperative Preincisional TEE in Diagnosis of False Positive Acute Type A Aortic Dissection

Jacquelin Cunningham, MD¹; Michael Dishart; Robert Moraca; Edward Gologorsky, MD FASE²; Allegheny Health Network¹; Allegheny General Hospital²

(SCA59) Inability to Dialyze After Hydroxocobalamin for Vasoplegic Syndrome

John Hui, MD¹; Erica Wittwer, MD PhD¹; Mayo Clinic¹

(SCA60) Anesthesia for LAMPOON Procedure: A Case Series

Ahmad Itani, DO¹; Michael Isley, MD¹; Jayakar Guruswamy, MD¹; Henry Ford Hospital¹

(SCA61) Echocardiography Guidance of Surgical Excision of an Intracardiac Pheochromocytoma

Dinesh Kurian, MD MBA¹; Angela Li, MD¹; Srikar Rao, MD¹; Agathoklis Konstantinidis, MD²; Sanziana Roman, MD³; Miklos Kertai, MD PhD¹; Duke University Medical Center¹; Duke University Hospital²; Duke University³

(SCA62) Sweating Bullets: Managing a Missile Embolus

Eric Feduska, DO¹; Adam Setren, MD²; Linda Sundt, MD²; Jordan Goldhammer, MD³; John Entwistle, MD PhD¹; Thomas Jefferson University¹; Thomas Jefferson University Hospital²; Sidney Kimmel Medical College at Thomas Jefferson University³

(SCA63) Transcatheter Aortic Valve Repair (TAVR) Using Continuous Arterial Waveform Analysis and Avoidance of Invasive Blood Pressure Monitoring: A Feasibility Study

Kevin Efron, MD¹; Peter Neuburger, MD²; New York University School of Medicine¹; New York University Langone Medical Center²

Scientific Abstracts and Posters

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

Jeongae Yoon, MD¹; Shonali Pawar, MD MPH¹; Yoshida Toyoda; Edo Ginsburg, MD²; Temple University Hospital¹; Temple University²

(SCA65) Tracheal Obstruction Upon One Lung Ventilation in Patient With Kommerell's Diverticulum

Joe Chung, MD¹; Manxu Zhao, MD¹; Cedars-Sinai Medical Center¹

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

Elliott Woodward, MD¹; Francis Fynn-Thompson, MD²; Isaac Okyere, MD FWACS³; Vipin Mehta, MD FFARCSI¹; Sanjeev Singh, MD FA FCA⁴; Beverly Small, RN CCRN²; Christine Placidi, BSN RN²; Massachusetts General Hospital¹; Boston Children's Hospital²; Komfo Anokye Teaching Hospital³; Kwame Nkrumah University of Science and Technology⁴

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

Sara Reader, DO MS; University of Washington

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

Yefim Vilnits, MD¹; David Kiamanesh, MD²; New York Presbyterian Hospital/Columbia University Medical Center¹; Columbia University²

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

Michael Hammer, DO¹; Brit Smith, MD¹; University of Florida¹

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

David Brennenman, MD MBA¹; Yong Peng, MD FASE PhD¹; University of Florida¹

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

Alex Leone, MD¹; Perin Kothari, DO²; Shiva Sale, MD¹; Cleveland Clinic Foundation¹; Cleveland Clinic²

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

Jared Cummings, MD¹; Brian Gelfand, MD¹; Vanderbilt University Medical Center¹

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

Michelle Masnovi, MD¹; Matthew McConnell, MD²; Allegheny General Hospital¹; Allegheny Health Network²

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

Brian Lee, MD; New York Presbyterian Columbia

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

Nathan Belt, MD¹; Elifce Cosar, MD²; Andres Schanzer; University of Massachusetts¹; UMass Memorial Medical Center²

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

John Srinivasan, MD FRCA (UK)¹; Vikram Chawa, MD¹; Saint Louis University¹

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

Kevin Efros, MD¹; Peter Neuburger, MD²; Marc Kanchuger, MD²; Deane Smith, MD²; New York University School of Medicine¹; New York University Langone Medical Center²

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

Matthew Dudley, MD¹; John Turnbull, MD¹; University of California San Francisco¹

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

Matthew Schwartz, MD¹; Elizabeth Kent, MD¹; Ioanna Apostolidou, MD²; University of Minnesota¹; University of Minnesota-Fairview²

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

Arvind Rajagopal, MBBS¹; Raiyah Sherifdeen, MD¹; Kristine Pearson-Chauhan, DO²; Rush University Medical Center¹; Loyola University Medical Center²

(SCA81) Conus Medullaris Infarct Following Thoracic Endovascular Aortic Repair

Eric Leiendecker, MD¹; Martha Wynn, MD²; University of Wisconsin Hospital and Clinics¹; University of Wisconsin²

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

Matthew Ritter, MD¹; Allan Klompas, MB BCh¹; Mayo Clinic¹

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

Megan Olejniczak, MD¹; Ioanna Apostolidou, MD²; University of Minnesota Medical School¹; University of Minnesota-Fairview²

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

Nikola Bradic, MD¹; Davor Baric, MD PhD¹; Boris Starcevic, MD PhD¹; Andrej Sribar, MD¹; University Hospital Dubrava¹

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

James Leonard, MD¹; Samir Kendale, MD¹; Jennie Ngai, MD¹; New York University Langone Medical Center¹

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

John Iguidbashian¹; Bryan Maxwell, MD MPH¹; Peter Chang; Creighton University¹; Oregon Anesthesiology Group²

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

Marcus Burns, DNP¹; Lynelle Schneider; Andrew Wilkey, MD²; Matthew Sundblad, MD³; Ross Garberich, MS MBA⁴; Robert Farivar, MD PhD²; Paul Sorajja, MD¹; Tjorvi Perry, MD MMSc²; Minneapolis Heart Institute - Abbott Northwestern Hospital¹; Abbott Northwestern Hospital²; American Anesthesiology of MN³; Minneapolis Heart Institute Foundation⁴

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

Emad Mossad, MD; Texas Children's Hospital

Scientific Abstracts and Posters

Scientific Program Poster Presentations: Session 2 (Non-CME)

Cardiovascular Anesthesia, Coagulation, Echocardiography, Thoracic Anesthesia

Monday, April 24, 12:30–1:30 pm

(SCA89) Mortality After Cardiac Surgery Corresponded to Mortality of the General Population Indicates That 30-Day Mortality Is a Poor Quality Indicator

Carl-Johan Jakobsen, MD¹; Laura Hansen, MD PhD¹; Pia Ryhammer, MD¹; Aarhus University Hospital¹

(SCA90) A Survey of Current Anesthesia Trends for Electrophysiology Procedures

Eric Nelson, DO¹; Samuel McLaurin, MD¹; Erick Woltz, BS¹; Michael Gold, MD PhD FHRS¹; Medical University of South Carolina¹

(SCA91) Anesthetic Management for Transcatheter Mitral Valve-in-Valve Implantation

Kaveh Marzbani, MD¹; Jayakar Guruswamy, MD¹; Michael Isley, MD¹; Henry Ford Hospital¹

(SCA92) Single Center Experience of Anesthetic Management and Stroke Rates in Transcatheter Aortic Valve Replacements

Opal Raj, MD¹; Sergey Gukasov, MD¹; Timothy Heinke, MD¹; Medical University of South Carolina¹

(SCA93) Risk Factors for Periprocedural Transfusion in Transfemoral Transcatheter Aortic Valve Implantation (tf-TAVI)

Patrick Mayr, MD¹; Gunther Wiesner, MD PhD²; Pieter van der Starre, MD PhD³; Oliver Husser; Sabine Bleiziffer; Heribert Schunkert; Rüdiger Lange; Peter Tassani-Prell, MD¹; Klaus Martin, MD PhD¹; Deutsches Herzzentrum Muenchen¹; German Heart Center Munich²; Stanford University School of Medicine³

(SCA94) Examining Outcomes Following the Implementation of a Delirium Management Program Associated With Sedative and Antipsychotic Use in Critically Ill Patients After Cardiovascular Surgery

Amanda Daniels, BSPACPR¹; Meghan MacKenzie, PharmD¹; Richard Hall, MD FCCP FRCPC²; Nelofar Kureshi, MBBS MHI³; Michael Vician, MD EDIC⁴; Nova Scotia Health Authority¹; Dalhousie University²; Dalhousie University/QEII Health Science³; Division of Cardiac Surgery Dalhousie University⁴

(SCA95) Benchmarking Clinical Productivity for Cardiovascular Non-Operating Room Anesthesia Cases

Max Breidstein; Jeremy Porter, MD¹; Mitchell Tsai, MD MMM²; Robert Hieronimus; Alexia Marmanides; Jacob Martin, MD³; University of Vermont¹; University of Vermont College of Medicine²; University of Vermont Medical Center³

(SCA96) Current Anesthesia and Postprocedure Management Techniques for Transfemoral Aortic Valve Replacement (TAVR) in the United States: A Survey of TAVR Centers

Joseph Wright, MD¹; Davinder Ramsingh, MD¹; Jason Gatling, MD¹; Ryan Lauer, MD¹; Loma Linda University Medical Center¹

(SCA97) Effects of Intraoperative Four-Factor Prothrombin Complex Concentrate Use on Blood Utilization During Orthotopic Cardiac Transplantation

Visal Patel, MD MS¹; Gina Sun, AB²; Gregory Couper, MD¹; Michael Kiernan, MD¹; Stefan Ianchulev, MD¹; David DeNofrio, MD¹; Raymond Comenzo, MD¹; Fred Cobey, MD MPH FASE¹; Grace Kao, MD¹; Tufts Medical Center¹; Tufts University School of Medicine²

(SCA98) Blood Conservation Practice in Cardiac Surgery: A Pilot Study

Albert Tsai, MD¹; Worasak Keeyapaj, MD²; Vivan Nguyen; Stanford University¹; Stanford University School of Medicine²

(SCA99) A Retrospective Review of Aminocaproic Acid Usage in Coronary Artery Bypass Graft Surgery Patients

Austin Adams, MD¹; Tara Brakke, MD FASE²; Katie Goergen, MD¹; University of Nebraska Medical Center¹; University of Nebraska²

(SCA100) ABO Type, Platelet, and Plasma Transfusion During Adult Extracorporeal Membrane Oxygenation

Rishi Gupta, MD¹; Michael Mazzeffi, MD MPH¹; Kenichi Tanaka, MD¹; Zachary Kon, MD²; Terence Lonergan, MD³; University of Maryland¹; University of Maryland School of Medicine²; USAF School of Aerospace Medicine³

(SCA101) Baseline MA-FF, FLEV, and Fibrinogen Levels in Neonates, Infants, and Children with Congenital Heart Defects

Michelle DaCosta, MD¹; Silvia Bunting, MD²; Nina Guzzetta, MD³; Bruce Miller, MD⁴; Thomas Austin, MD¹; Emory University Hospital¹; Children's Healthcare of Atlanta²; Emory University School of Medicine³; Emory University⁴

(SCA102) Outcomes Following Three-Factor Nonactivated Prothrombin Complex Concentrate Versus Recombinant Activated Factor VII Administration During Cardiac Surgery

Patrick Harper, MD¹; Mark Smith, MD¹; David Barbara, MD¹; Nathan Brinkman, PharmD¹; Melissa Passe, RRT¹; Darrell Schroeder, MS¹; Sameh Said, MD¹; Gregory Nuttall, MD²; William Oliver, MD²; Mayo Clinic¹; Mayo Clinic College of Medicine and Science²

(SCA103) A Retrospective Assessment of TRACK Score Utilization in the Perioperative Period for Cardiac Surgery

Gurleen Sidhu, MD¹; Jonathan Leff, MD¹; Singh Nair, PhD¹; Stephanie Gilbert, BS¹; Montefiore Medical Center¹

(SCA104) Leveraging Existing Clinical and Administrative Databases for Population Healthcare in Cardiac Surgery: Combining the Society of Thoracic Surgeons National Database, Hospital Electronic Data Warehouse, and Business Intelligence Software to Drive Patient Care Quality Improvement Programs

Andrew Wilkey, MD¹; Kattie Bear-Pfaffendorf, MBA CPHQ²; Craig Strauss, MD MPH³; Pam Rush, RN MS²; Robert Farivar, MD PhD¹; Tjorvi Perry, MD MMSc¹; Abbott Northwestern Hospital¹; Allina Health²; Minneapolis Heart Institute³

(SCA105) Implementing Viscoelastic Coagulation Testing in Cardiac Surgical Patients: Observed vs. Expected Results of the Transfusion Risk Understanding Scoring Tool (TRUST)

Andrew Wilkey, MD¹; Kattie Bear-Pfaffendorf, MBA CPHQ²; Craig Strauss, MD MPH³; Pam Rush, RN MS²; Robert Farivar, MD PhD¹; Tjorvi Perry, MD MMSc¹; Abbott Northwestern Hospital¹; Allina Health²; Minneapolis Heart Institute³

Scientific Abstracts and Posters

(SCA106) Nonimmune Thrombocytopenia, Acquired Antithrombin Deficiency, and Acute Kidney Injury After Cardiac Surgery

Alena Rady, DO¹; Amit Bardia, MBBS¹; Qianqian Xu, MD²; Sophia Sophonphattana, MD³; Paul Heerdt, MD PhD FCCP¹; Hossam Tantawy, MD³; Miklos Kertai, MD PhD⁴; Feng Dai, PhD³; Manuel Fontes, MD³; Yale University School of Medicine¹; Yale New Haven Hospital²; Yale University³; Duke University Medical Center⁴

(SCA107) Outcomes After Patient Blood Management in Patients Undergoing Coronary Bypass Graft Surgery—7 Years of Clinical Practices

Yongyuan Wang, BA¹; Hongwen Ji, MD¹; Ruohua Yan, MM¹; Xue Zhang, MM¹; Fuwai Hospital, Chinese Academy of Medical Sciences¹

(SCA108) Mortality Associated With Severe Anemia in Patients Refusing Blood Transfusion

Claudia Villalpando Leon, DO¹; Nicole Guinn, MD²; Mary Cooter, MS²; Richard Weiskopf; Duke University Medical Center¹; Duke University²

(SCA109) Effects of Clinically Relevant Protamine Levels on Thromboelastography (TEG) in Healthy Volunteers

Patrick Kinnaird, MD¹; Adam Lerner, MD²; Colin Nabb, MD³; John Berry, MD³; Ariel Mueller, MA¹; Beth Israel Deaconess Medical Center¹; Harvard Medical School²; FirstHealth Moore Regional Hospital³

(SCA110) Antibody Mediated Reversal of Bivalirudin's Anticoagulant Effect

Elliott Woodward, MD¹; Michael D'Ambra, MD²; Jochen Muehlschlegel, MD MMSc³; Fumito Ichinose, MD PhD¹; Trevor Smith, CCP³; Michael Andrawes, MD¹; Massachusetts General Hospital¹; University of Maryland²; Brigham and Women's Hospital³

(SCA111) Acute Normovolemic Hemodilution and Postoperative Outcomes in Cardiac Surgery

Nandini Palaniappa, MD¹; Hung Mo Lin, ScD²; Muntazim Mukit, MD³; Nikhil Ravindran, MSc⁴; Gregory Fischer, MD⁵; Amanda Rhee, MD⁴; Mount Sinai Hospital¹; Icahn School of Medicine at Mount Sinai²; Stony Brook University Hospital³; Mount Sinai Medical Center⁴; Memorial Sloan Kettering Cancer Center⁵

(SCA112) Factors Associated With Improved Quality of Hemostasis Following Adult Heart Transplantation

Diana DeAndrade, MD¹; Sofiane Lazar, MD¹; Stephen Esper, MD MBA²; Luigi Lagazzi; Kathirvel Subramaniam, MD MPH²; University of Pittsburgh Medical Center¹; University of Pittsburgh²

(SCA113) Factors Associated With Increased Composite Morbidity Following Adult Orthotopic Heart Transplantation

Diana DeAndrade, MD¹; Sofiane Lazar, MD¹; Stephen Esper, MD MBA²; Luigi Lagazzi; Kathirvel Subramaniam, MD MPH²; University of Pittsburgh Medical Center¹; University of Pittsburgh²

(SCA114) Pathogen-Reduced (PR) Cryoprecipitate Stored for 5 Days Postthaw: Apheresis Source Plasma Yields More Fibrinogen

Karen Giordano, MS MT(ASCP) SBB; Cerus Corporation

(SCA115)

Withdrawn

(SCA116) Comparison of Venoarterial Extracorporeal Membrane Oxygenation and Cardiopulmonary Bypass in Patients Undergoing Double Lung Transplantation

Vladyslav Melnyk, MD¹; Stephen Esper, MD MBA²; J. W. Awori Hayanga, MD MPH FRCS FACS¹; Jonathan D'Cunha, MD PhD²; Norisha Shigemura, MD PhD²; Kathirvel Subramaniam, MD MPH²; University of Pittsburgh Medical Center¹; University of Pittsburgh²

(SCA117) Tricuspid Valve Effective Regurgitant Orifice Area: A Comparison of Three-Dimensional Versus Two-Dimensional Echocardiographic Measurements

Julie Wyrobek, MD¹; Sergey Karamnov, MD¹; Stanton Sherman, MD FAHA FASE¹; John Fox, MD¹; Brigham and Women's Hospital¹

(SCA118) Utility of Intraoperative 3D TEE for Diagnosing Mechanism of Mitral Valve (MV) Prosthetic Failure Immediately Postreplacement

Betty Hua, MD¹; Jeremy Poppers, MD PhD²; Stony Brook University Hospital¹; Stony Brook University Medical Center²

(SCA119) Axial Dynamism of Tricuspid Annulus: A Possible Metric of Valvular Remodeling

Ting Hai, MD¹; Arash Khamooshian, MD²; Yannis Amador, MD¹; Ziyad Knio, BS¹; Jelliffe Jeganathan, MBBS¹; Rabia Amir, MD¹; Robina Matyal, MD¹; Feroze Mahmood, MD FASE¹; Kamal Khabbaz, MD¹; Beth Israel Deaconess Medical Center¹; University Medical Center Groningen²

(SCA120) Tricuspid Valve Anatomy: 2D versus 3D

Braden Dulong, MD FRCPC¹; Diem Tran, MD MSc¹; Mark Hynes, MD¹; University of Ottawa Heart Institute¹

(SCA121) Assessment of Right Ventricular Systolic Function in Patients Undergoing Left Ventricular Assist Device Placement

Jason Johnson, MD¹; Mary Cooter, MS²; Sharon McCartney, MD¹; Nazish Hashmi, MD³; Mihai Podgoreanu, MD FASE²; Madhav Swaminathan, MD FASE¹; Alina Nicoara, MD FASE¹; Duke University Medical Center¹; Duke University²; Duke University Hospital³

(SCA122) Effect of Ascending Aorta Shortening on Aorto-Mitral Angle Assessed With 3D TEE in Patients With Hypertrophic Obstructive Cardiomyopathy

Jacobo Moreno Garijo, MD MSc EDA¹; Christiane Gruner; David Orlov, MD¹; Anthony Ralph Edwards, MD FRCS FACS¹; Massimiliano Meineri, MD²; Toronto General Hospital¹; University of Toronto²

(SCA123) Mitral Valve Reserve Function in Nonregurgitant Valves

Arash Khamooshian, MD¹; Yannis Amador, MD²; Ting Hai, MD²; Eiteaz Mahmood, BA³; Jayant Jainandunsing, MD¹; Kamal Khabbaz, MD²; Louis Chu, MD²; Robina Matyal, MD²; Feroze Mahmood, MD FASE²; University Medical Center Groningen¹; Beth Israel Deaconess Medical Center²; Northwestern University³

(SCA124) Perioperative Use of Focused Cardiac Ultrasound: A Survey of Practice and Opinion

Frederick Conlin, MD¹; Patrick Broderick, DO¹; Adam Adler, MD MS FAAP²; Neil Connelly; Michael Eaton, MD³; Jennifer Friderici; Baystate Medical Center¹; Texas Children's Hospital²; University of Rochester³

(SCA125) Advanced Age Attenuates Left Ventricular Filling Efficiency Quantified Using Vortex Formation Time in Patients Undergoing Coronary Artery Surgery

Paul Pagel, MD PhD FACC FASE FESC¹; Diana Khatib, MD²; Dominik Steck, MD²; Christine Choi, MD²; Julie Freed, MD PhD²; Brent Boettcher, DO²; Clement J. Zablocki VA Medical Center¹; Medical College of Wisconsin²

(SCA126) Anterior Mitral Leaflet Windsock Lesion

Mindy Juan, MD¹; Christopher McQuitty, MD¹; Alexis McQuitty, MD; Patrick Roughneen; University of Texas Medical Branch¹

(SCA127) Preprocedure Diastolic Dysfunction Assessed by E/e' is Associated With Worse 1-Year Survival in TAVR Patients

Jeffery Lyvers, MD¹; Fred Cobey, MD MPH FASE¹; Benjamin Rohrer, MD¹; Tufts Medical Center¹

Scientific Abstracts and Posters

Monday, April 24, 12:30–1:30 pm (continued)

(SCA128) Left Atrial Volume Index and 1-Year Mortality Posttranscatheter Aortic Valve Replacement

Benjamin Rohrer, MD¹; Jeffery Lyvers, MD¹; Brian Spoelhof, PharmD, BCPS²; Nelson Burbano, MD³; Fred Cobey, MD MPH FASE¹; Tufts Medical Center¹; Lahey Hospital and Medical Center²; Boston Children's Hospital³

(SCA129) REMote SOLutions for Telementoring Pocus-Echocardiography: The RESOLUTE Study

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

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

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

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

Tao Shen, MBBS¹; Michael Andrawes, MD¹; Michael Picard, MD FASE¹; Lanqi Hua, MD RDCS FASE¹; Massachusetts General Hospital¹

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

Andre Gosling, MD¹; Jeffery Lyvers, MD¹; Benjamin Rohrer, MD¹; John Augoustides, MD FASE FAHA²; Nelson Burbano, MD³; Fred Cobey, MD MPH FASE¹; Eric Ursprung, MD¹; Tufts Medical Center¹; University of Pennsylvania²; Boston Children's Hospital³

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

Yoko Kagemoto, MD¹; Jeffery Lyvers, MD¹; Ingrid Moreno-Duarte, MD¹; Nelson Burbano, MD²; Ravi Joshi, MD³; Ayan Patel, MD FACC FASE FHFA¹; Natesa Pandian, MD FACC¹; Fred Cobey, MD MPH FASE¹; Eric Ursprung, MD¹; Tufts Medical Center¹; Boston Children's Hospital²; University of Texas Southwestern Medical³

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

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

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

Nawar Al-Rawas, MD¹; Matthew Bean, DO²; Muath Bishawi, MD MPH¹; Madhav Swaminathan, MD FASE²; Alina Nicoara, MD FASE²; Duke University¹; Duke University Medical Center²

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

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

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

Huan Wang, MD¹; Chuan-Chin Huang, ScD¹; Jamahal Luxford, MBBS FANZCA²; Carolyn Butler, MD³; John Fox, MD¹; Stanton K. Sherman, MD FAHA FASE¹; Jochen Muehlschlegel, MD MMSc¹; Brigham and Women's Hospital¹; St. Vincent's Melbourne²; Boston Children's Hospital³

(SCA138) Estimates of Left Ventricular Filling Pressures by Iso-Velocity Propagation Using M-Mode Color Flow Doppler.

Raj Modak, MD¹; Farzad Ebrahimi, MD²; Henry Ford Hospital¹; Advocate Illinois Masonic Medical Center²

(SCA139) Perioperative Ultrasound: Teaching the Trainers

Yannis Amador, MD¹; Ting Hai, MD¹; Arash Khamooshian, MD²; Jelliffe Jeganathan, MBBS¹; Stephanie Jones, MD¹; Achikam Oren-Grinberg, MD¹; Ruma Bose, MD¹; Feroze Mahmood, MD FASE¹; Robina Matyal, MD¹; Beth Israel Deaconess Medical Center¹; University Medical Center Groningen²

(SCA140) TEE Skill Acquisition Trajectories Among Cardiothoracic Anesthesiology Fellows

Phillip Geiger, MD¹; Benjamin Andrew, BS RD²; Ashley Grantham, PhD³; Yi-Ju Li, PhD⁴; Brandi Bottiger, MD³; Alina Nicoara, MD FASE⁴; Anne Cherry, MD⁴; Duke University Hospital¹; Duke University School of Medicine²; Duke University³; Duke University Medical Center⁴

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

Roupen Hatzakorzian, MD¹; Valerie Villeneuve, MD¹; Sarah McDonald, MD²; Albert Moore, MD¹; Thomas Schricker, MD²; Takumi Codere Maruyama, MD MSc FRCPC²; McGill University Health Center¹; McGill University²

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

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

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

Alexander Cheng, MD¹; Kimberly Howard-Quijano, MD MS²; Jennifer Scovotti, MA²; Einat Mazor, BA RDCS²; Tristan Grogan, MS²; Jacques Neelankavil, MD²; UCLA Medical Center¹; University of California Los Angeles²

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

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

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

Giulia Maria Ruggeri, MD¹; Azad Mashari, MD FRCPC¹; Joshua Qua Hiansen, MSc²; Roberto Ribeiro, MD³; Mitesh Badiwala, MD PhD FRCSC²; Massimiliano Meineri, MD¹; University of Toronto¹; Toronto General Hospital²; University Health Network³

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

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

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

Giulia Maria Ruggeri, MD¹; Azad Mashari, MD FRCPC¹; Joshua Qua Hiansen, MSc²; Massimiliano Meineri, MD¹; University of Toronto¹; Toronto General Hospital²

Scientific Abstracts and Posters

(SCA148) Determining Incidence of Clinically Evident Right Ventricular Strain During Routine Cesarean Section

Abirami Kumaresan, MD¹; Phillip Hess, MD¹; Alex Shapeton; Hongmei Yuan, MD²; Beth Israel Deaconess Medical Center¹; Nanjing Gynecology and Obstetrics Hospital²

(SCA149) Development of a Rescue Echo Protocol for Noncardiac Surgery Patients

Genevieve Staudt, MD¹; Ken Shelton, MD¹; Massachusetts General Hospital¹

(SCA150) Effects of Metabolic Syndrome with Hypertriglyceridemia on Outcomes in Chinese Patients Undergoing Coronary Artery Bypass Grafting

Mingya Wang, MD candidate; Fuwai Hospital, Chinese Academy of Medical Sciences

(SCA151)

Withdrawn

(SCA152) Effect of Intraoperative Dexmedetomidine on Lung Protection Following Thoracic Aorta Surgery With Hypothermic Circulatory Arrest

Soo Jung Park, MD¹; Sang Beom Nam, MD²; Yon Hee Shim, MD PhD¹; Young Song, MD¹; Yonsei University College of Medicine¹; Gangnam Severance Hospital²

(SCA153) Effects of 6% Hydroxyethyl Starch 130/0.4 on Postoperative Blood Loss and Kidney Injury in Patients Undergoing Off-Pump Coronary Arterial Bypass Grafting

Jiyeon Park, MD¹; Wookook Wi, MD¹; Jeong Jin Min, MD²; Jonghwan Lee, MD PhD²; Samsung Seoul Hospital¹; Samsung Medical Center²

(SCA154) Comparison of Desflurane Versus Propofol for Arterial Oxygenation During One-Lung Ventilation

Sanghwan Ji, MD¹; Youn Joung Cho, MD¹; Tae Kyong Kim, MD¹; Jeong-Hwa Seo, MD¹; Jae-Hyon Bahk, MD²; Yunseok Jeon, MD¹; Seoul National University Hospital¹; Seoul National University²

(SCA155) Use of Three-Dimensional Printing to Create Patient-Specific Thoracic Spine Models as Task Trainers

Jelliffe Jeganathan, MBBS¹; Yanick Baribeau¹; Jeffrey Bortman, BS¹; Feroze Mahmood, MD FASE¹; Marc Shnider, MD¹; Muneeb Ahmed, MD FSIR¹; Azad Mashari, MD FRCPC²; Rabia Amir, MD¹; Yannis Amador, MD¹; Robina Matyal, MD¹; Beth Israel Deaconess Medical Center¹; University of Toronto²

(SCA156) Use of a Standard Evidence-Based Ventilation Protocol Reduces the Incidence of Pulmonary Complications in Minimally Invasive Esophagectomies

William Buhrman, MD¹; Richard Pollard, MD¹; Patrick Lorimer, MD¹; Jonathan Salo, MD¹; Mark Reames, MD¹; Carolinas Medical Center¹

(SCA157) The Association of Double-Lumen Endotracheal Tube Size With Laryngeal Injury and Early Dysphagia After Lung Transplantation

Mona Rudnick, MD¹; Yasmin Maisonave, MD²; Mark Stafford-Smith, MD CM FRCPC FASE²; Seth Cohen, MD MPH²; Matthew Hartwig, MD³; Rebecca Klinger, MD MS²; Wenjing Qi, PhD³; Duke University Hospital¹; Duke University Medical Center²; Duke University³



Scientific Abstracts and Posters

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

Tuesday, April 25, Noon–1 pm

(SCA158) Pulmonary Artery Pulsatility Index in the Intensive Care Unit is Associated with Duration of Inotropic Therapy After Heart Transplant

George Plummer, AB¹; Michael Gudejko, BS²; Brian Gebhardt, MD MPH³; Michael Kiernan, MD²; Gregory Couper, MD²; Adel Ghuloom, MD²; Navin Kapur, MD²; Fred Cobey, MD MPH FASE²; Tufts University School of Medicine¹; Tufts Medical Center²; Anesthesia Associates of New Mexico³

(SCA159) Incidence and Impact of Chronic Postthoracotomy Pain in Patients Following Trans-Apical Transcatheter Aortic Valve Replacement

Brian Gebhardt, MD MPH¹; Sarah Basaham, MD²; Ankit Jain, MD³; Stefan Ianchulev, MD²; Andrea Tsai, MD²; Stephanie Cintora, MD⁴; Fred Cobey, MD MPH FASE²; Anesthesia Associates of New Mexico¹; Tufts Medical Center²; Augusta University³; UMass Memorial⁴

(SCA160) Leave the Tricuspid Valve Alone During Double Lung Transplantation

Joseph Sanders, MD¹; Carlos Guerra Londono, MD¹; Hassan Nemeh, MD¹; Andrew Taylor, MA²; Henry Ford Hospital¹; Henry Ford Health System²

(SCA161) A Risk Scoring System for Predicting 30-Day Mortality After Cardiac Surgery Among Southeast Asians

Lawrence Siu-Chun Law, MD¹; Risha Ayuningtyas, MD²; Weiling Liu, BSc¹; Sophia Tsong Hue Chew, MBBS, MMED, FANZCA³; Lian Kah Ti, MBBS²; National University Hospital¹; National University Health System²; Singapore General Hospital³

(SCA162) Cardiac Surgery Without Paralysis: Postoperative Pulmonary Benefits?

Rebecca Gerlach, MD FRCPC¹; Mark Chaney, MD¹; Sajid Shahul, MD²; Takeyoshi Ota, MD PhD¹; Valluvan Jeevanandam, MD¹; Elizabeth Cotter, MD³; Blake Perkins, MD¹; University of Chicago¹; University of Chicago Hospitals²; University of Chicago Medicine³

(SCA163) Preventing Postoperative Atrial Fibrillation With Beta-Blockade: Is Timing Important?

Nathan Waldron, MD MHSc¹; Mary Cooter, MS²; Rebecca Klinger, MD MS¹; Quintin Quinones, MD PhD²; Miklos Kertai, MD PhD¹; Mihai Podgoreanu, MD FASE²; Mark Newman, MD¹; Jonathan Piccini; Joseph Mathew, MD¹; Duke University Medical Center¹; Duke University²

(SCA164) Elevated Preoperative HBA1C Is Associated With Increased Risk of Postoperative AKI and Wound Site Infection

Ming Ann Sim, MBBS¹; Weiling Liu, BSc¹; Lian Kah Ti, MBBS²; Sophia Tsong Huey Chew, MD²; National University Hospital¹; National University Health System²

(SCA165) Regional Cerebral Oxygen Saturation Level Predicts 30-Day Mortality Rate in Left Ventricular Assist Device Surgery

James Chen, MD MBA¹; Jiapeng Huang, MD, PhD²
University of Louisville¹ Jewish Hospital, University of Louisville²

(SCA166) Current Status of Cardiovascular Anesthesia in China

Chris Ethridge, MD¹; Jiapeng Huang, MD PhD²; University of Louisville¹; Jewish Hospital, University of Louisville²

(SCA167) Possession of a Variant Apolipoprotein L1 (APOL1) Allele in African Americans Is Not Associated With Increased Risk of Postcardiac Surgery Acute Kidney Injury

Jamie Privratsky, MD PhD¹; Carol Haynes, AB¹; Yi-Ju Li, PhD¹; Mihai Podgoreanu, MD, FASE²; Svati Shah, MD²; Mark Stafford-Smith, MD CM FRCPC FASE¹; Miklos Kertai, MD PhD¹; Joseph Mathew, MD¹; Duke University Medical Center¹; Duke University²

(SCA168) Optimal Heparin Anticoagulation Monitoring in Adult VA ECMO

Michael Mazzeffi, MD MPH¹; Allison Hollis, PharmD²; Nicole Tobin, CRNP²; Colleen Dugan; Matthew Spicer, PA-C²; Zachary Kon, MD³; Daniel Herr, MD¹; University of Maryland¹; University of Maryland Medical Center²; University of Maryland School of Medicine³

(SCA169) Association Between Packed Red Blood Cell Transfusion and Acute Kidney Injury After Transcatheter Aortic Valve Replacement

Akeel Merchant, MD¹; Javier Neyra, MD MS²; Abu Minhajuddin, PhD³; Lauren Wehrmann, BS¹; Richard Mills, MD³; Sarah Gualano, MD¹; Dharam Kumbhani, MD SM MRCP FACC FAHA FSCAI¹; Lynn Huffman, MD³; Michael Jessen, MD¹; Amanda Fox, MD MPH¹; University of Texas Southwestern Medical Center¹; University of Kentucky Medical Center²; University of Texas Southwestern³

(SCA170) Cardiopulmonary Stability of Patients Undergoing Transcatheter Aortic Valve Replacement Is Not Improved During General Anesthesia Compared to Sedation

Michael Fabbro, DO¹; Abdulla Damluji, MD MPH FACC²; Mauricio Cohen; Richard Epstein; University of Miami¹; Johns Hopkins University²

(SCA171) Urgent and Emergent Noncardiac Intervention Following Open Cardiac Surgery

Emily Mackay, DO¹; Mark D. Neuman, MD²; Michael Stubna, PhD³; Nimesh D. Desai, MD²; Peter W. Groeneveld, MD MS; Stuart Weiss, MD PhD²; Hospital of the University of Pennsylvania¹; University of Pennsylvania²; Mountain Track Apps, LLC³

(SCA172) Renal Resistive Index Prior to Cardiopulmonary Bypass in Patients with Varying Degrees of Aortic Insufficiency

Benjamin Andrew, BS RD¹; Anne Cherry, MD²; Jennifer Hauck, MD³; Ryan Konoske, MD⁴; Cory Maxwell, MD⁴; Alina Nicoara, MD FASE²; Mark Stafford-Smith, MD CM FRCPC FASE²; Duke University School of Medicine¹; Duke University Medical Center²; Duke Department of Anesthesiology³; Duke University⁴

(SCA173) Postoperative Delirium and 6-Year Cognitive Decline

Robert Sickeler, MD¹; Maura Grega, RN MSN CCRP²; Rebecca Gottesman, MD PhD³; Charles Brown, MD²; Johns Hopkins Medical Institute¹; Johns Hopkins University²; Johns Hopkins University School of Medicine³

(SCA174)

Withdrawn

(SCA175) The Effect of Neuromuscular Blockade Reversal on the Incidence of Atrial Fibrillation Post Cardiac Surgery

Bhounesh Patel, MD¹; Brian Raffel, DO²; Antonio Chiricolo, MD¹; Leonard Lee, MD¹; Rutgers Robert Wood Johnson Medical School¹; Rutgers University²

Scientific Abstracts and Posters

(SCA176) Assessing Postthoracotomy Pain After Lung Transplantation: Preliminary Results Using an Electronic Pain Assessment Tool

Claire Cuniff, MD¹; Rebecca Klinger, MD MS²; Thomas Hopkins, MD¹; Mary Cooter, MS³; Alice Gray, MD²; Krista Ingle, PhD²; Matthew Hartwig, MD³; John Haney, MD³; Brandi Bottiger, MD³; Duke University Hospital¹; Duke University Medical Center²; Duke University³

(SCA177) The Correlation Between the Change in Thoracic Fluid Content and the Change in Patient Body Weight in Fontan Procedure

Bomi Shin, MD; Konkuk University Medical Center

(SCA178) A Phenome-Wide Scan Detects Pleiotropic Effect of LY96 on New-Onset Atrial Fibrillation and Diabetes After Coronary Artery Bypass Grafting Surgery

Miklos Kertai, MD PhD¹; Yi-Ju Li, PhD¹; Roy Huang, BS²; Wenjing Qi, PhD³; Mihai Podgoreanu, MD FASE³; Duke University Medical Center¹; University of North Carolina²; Duke University³

(SCA179) Cardiac Stress Tests Ordered by the Perioperative Physician: Are We Doing It Correctly?

Adam Weinstein, MD¹; Angela Bader, MD MPH¹; David Hepner, MD MPH¹; John Fox, MD¹; Brigham and Women's Hospital¹

(SCA180) Perioperative Management and Outcome of Left Ventricular Free Wall Rupture in a Japanese Tertiary Care Hospital: A Retrospective Observational Study

Keiko Kawai, MD¹; Motoko Kimura, MD¹; Kurashiki Central Hospital¹

(SCA181) Acute Kidney Injury After Lung Transplantation

William Edwards, MD¹; Eilon Gabel, MD¹; Tristan Grogan, MS¹; Emily Methangkool, MD¹; Vadim Gudzenko, MD; University of California, Los Angeles¹

(SCA182) The Relationship Between ScO₂ and SvO₂ Differs Between the INVOS® and the Foresight Elite® Cerebral Oximeter

Matthias Heringlake, MD¹; Christian Schmidt, MD²; Patrick Kellner, MD³; Astrid Ellen Berggreen, MD¹; Holger Maurer, MD⁴; Sebastian Brandt, MD³; Efstratios I. Charitos, MD PhD⁵; Michael Petersen, MD¹; University of Luebeck¹; UKSH Campus Lübeck²; University Medical Center Schleswig-Holstein³; University Hospital Schleswig-Holstein⁴; University of Halle (Saale)⁵

(SCA183) Pulsatile Portal Flow and Acute Kidney Injury After Cardiac Surgery

William Beaubien-Souligny, MD¹; André Denault, MD PhD FASE¹; Roberto Eljaiek; Josée Bouchard, MD²; Alexandros Yiorgos Cavayas, MD²; Élise Rodrigue, MD FRCPC³; Annik Fortier, MSc⁴; Montreal Heart Institute¹; Hôpital Sacre-Coeur de Montreal²; CIUSSS-MCQ CHAUR³; Montreal Health Innovations Coordinating Center⁴

(SCA184) Serratus Plane Block for Postoperative Analgesia in Patients Undergoing Robotic Mitral Valve Repair: A Feasibility Study

Saad Rasheed, MD¹; Jennie Ngai, MD²; Robert Nampiaparampil, MD³; Peter Neuburger, MD²; New York University¹; New York University Langone Medical Center²; New York University Medical Center³

(SCA185) The Effect of Intraoperative Remifentanyl Infusion on Glycemic Response in Patients Undergoing Cardiac Surgery with Cardiopulmonary Bypass: An Open Label, Prospective and Randomized Clinical Trial

Kathirvel Subramaniam, MD MPH¹; Amy Monroe, BS²; Stephen Esper, MD MBA¹; Michael Boisen, MD²; Theresa Gelzinis, MD¹; John Caldwell; Erin Sullivan, MD²; Heather Hayanga, MD MPH²; Jose Marquez, MD¹; University of Pittsburgh¹; University of Pittsburgh Medical Center²

(SCA186) Performance of the EuroSCORE II as Mortality Predictor in a Cohort of Patients Undergoing Cardiac Surgery at a Cardiovascular Surgical Center in Colombia

Jorge Alberto Castro Perez, MD¹; Federico Jimenez-Ruiz, MD¹; Nathalia González, MD¹; Clinica Cardiovascular Santamaria¹

(SCA187) Comparison of Results Between Strategies of Fast Track Versus Conventional Extubation After Cardiac Surgery in Adult Patients at a Cardiovascular Center in Colombia: Cross-Sectional Study

Adriana Guerrero, MD¹; Jorge Alberto Castro Perez, MD²; Nathalia González, MD²; Pontificia Bolivariana University¹; Clinica Cardiovascular Santamaria²

(SCA188) Preoperative Risk Score for Postoperative Atrial Fibrillation Following Cardiac Surgery

Shyamal Asher, MD¹; Simon Body, MD¹; Jochen Muehlschlegel, MD MMS¹; Prem Shekar, MD¹; Tsuyoshi Kaneko, MD¹; Jordan Bloom, MD²; Gregory Malzberg, BA¹; Siobhan McGurk, BS¹; Barbara Oxley, RN MS²; Thoralf Sundt, MD²; Mauricio Villavicencio-Theoduloz; Brigham and Women's Hospital¹; Massachusetts General Hospital²

(SCA189) Antifibrinolytic Choice and Atrial Fibrillation After Cardiac Surgery

Nathan Waldron, MD MHSc¹; Mary Cooter, MS²; Miklos Kertai, MD PhD¹; Mihai Podgoreanu, MD FASE²; Mark Newman, MD¹; Joseph Mathew, MD¹; Rebecca Klinger, MD MS¹; Duke University Medical Center¹; Duke University²

(SCA190) ECMO Survival in Single Urban Center

Dustin Cooperman, MD¹; Galina Leyvi, MD¹; William Jakobleff¹; Joseph Schwartz, MD¹; Montefiore Medical Center¹

(SCA191) Blood Transfusion Is Associated With Acute Kidney Injury After Cardiac Surgery in Patients With Preoperative Anemia But Not In Patients With Intraoperative Anemia

Lian Ti, MBBS¹; Jiaying Goh; Dayna Yong²; Weiling Liu, BSc³; Sophia Tsong Huey Chew, MD; National University Health System¹; National University of Singapore²; National University Hospital³

(SCA192) Does the Preoperative Transthoracic or Transesophageal Echocardiogram Better Predict Mortality After Nonmitral Valve Cardiac Surgery?

Shyamal Asher, MD¹; Simon Body, MD¹; Jochen Muehlschlegel, MD MMS¹; Stanton Sherman, MD FAHA FASE¹; Prem Shekar, MD¹; Tsuyoshi Kaneko, MD¹; Chuan-Chin Huang, ScD¹; Gregory Malzberg, BA¹; Carolyn Butler, MD²; Jamahal Luxford, MBBS FANZCA³; Brigham and Women's Hospital¹; Boston Children's Hospital²; St. Vincent's Melbourne³

(SCA193) Predictive Ability of Biomarkers of Aging Measured in Peripheral Blood T-Lymphocytes in Cardiac Surgery-Associated Acute Kidney Injury: A Two-Institution Validation Study

Mihai Podgoreanu, MD FASE¹; Aliaksei Pustavoitau, MD MHS²; Natalia Mitin; Viachaslau Barodka; Mark Stafford-Smith, MD CM FRCPC FASE³; Madhav Swaminathan, MD FASE³; Joseph Mathew, MD³; Dan Berkowitz, MD⁴; Duke University¹; Johns Hopkins University School of Medicine²; Duke University Medical Center³; Johns Hopkins Medicine⁴

(SCA194) Development of an Observed Structured Clinical Exam (OSCE) for Perioperative Ultrasound for Anesthesiology Residents: An Initiative

Rabia Amir, MD¹; John Mitchell, MD¹; Stephanie Jones, MD¹; Feroze Mahmood, MD FASE¹; Mario Montealegre-Gallegos, MD¹; Ruma Bose, MD¹; Vanessa Wong, BS¹; Azad Mashari, MD FRCPC²; Jelliffe Jeganathan, MBBS¹; Ziyad Knio, BS¹; Robina Matyal, MD¹; Beth Israel Deaconess Medical Center¹; University of Toronto²

Scientific Abstracts and Posters

Tuesday, April 25, Noon–1 pm (continued)

(SCA195) Perioperative Glucose Management During Cardiac Surgery to Reduce Postsurgical Complications

Linda Shore-Lesserson, MD FAHA FASE¹; Mengxi Ji, BS¹; Elena Thompson, BA¹; Matthew Palma, MD²; Oonagh Dowling, PhD²; Hofstra Northwell School of Medicine¹; Northwell Health²

(SCA196) Effect of DDAVP on Creatinine Level and Renal Failure

Sachin Bahadur, MD¹; John Blackburn, MD²; Vikas Kumar, MD¹; Manuel Castresana, MD³; Augusta University¹; University of Oklahoma Health Sciences Center²; Medical College of Georgia³

(SCA197) Hospital Readmissions After Left Ventricular Assist Device (LVAD) Placement: A National Readmissions Database Study

Shahzad Shaefi, MD¹; Atul Gupta, MBBS²; Mohammed Minhaj, MD MBA³; Ariel Mueller, MA¹; Avery Tung, MD FCCM³; Junaid Nizamuddin, MD³; Sajid Shahul, MD²; Beth Israel Deaconess Medical Center¹; University of Chicago Hospitals²; University of Chicago³

(SCA198) Standardization of OR to CTSICU Handoff in an Academic Hospital

Harry Garcia, MD¹; Elizabeth Zhou, MD²; Bonnie Milas, MD³; Sunberri Murphy, DO²; Amanda Chin, BA²; Stuart Weiss, MD PhD²; Meghan Lane-Fall, MD MSHP²; Kelly Hoenisch, BSN RN¹; Jason Han, MD⁴; Hospital of the University of Pennsylvania¹; University of Pennsylvania²; University of Pennsylvania Medical Center³; Perelman School of Medicine at University of Pennsylvania⁴

(SCA199) Assessment of Pulmonary Artery Pulsatility Index in Patients Undergoing Left Ventricular Assist Device Placement

Jason Johnson, MD¹; Mary Cooter, MS²; Sharon McCartney, MD¹; Nazish Hashmi, MD³; Mihai Podgoreanu, MD FASE²; Madhav Swaminathan, MD FASE¹; Alina Nicoara, FASE MD¹; Duke University Medical Center¹; Duke University²; Duke University Hospital³

(SCA200) Postoperative Pain Management Strategies and Delirium After Trans-Apical TAVI: A Randomized Controlled Trial

George Djaiani, MD FRCPC FRCA¹; Eva Strike, MD²; Rita Katznelson, MD¹; Eric Horlick; Rima Styra, MD¹; Humara Poonawala, MD (Russia) CCRP¹; Coimbatore Srinivas, MD FRCPC¹; Robert James Cusimano; Jo Carroll, RN BHA¹; Toronto General Hospital, University Health Network¹; Pauls Stradins Clinical University Hospital²

(SCA201) Outcomes and Hospital Readmissions After Heart Transplantation: A National Readmissions Database Study

Shahzad Shaefi, MD¹; Atul Gupta, MBBS²; Mohammed Minhaj, MD MBA³; Ariel Mueller, MA¹; Avery Tung, MD FCCM³; Junaid Nizamuddin, MD³; Sajid Shahul, MD²; Beth Israel Deaconess Medical Center¹; University of Chicago Hospitals²; University of Chicago³

(SCA202) Current Practice Strategies in the Acute Care Setting and the Utilization of Point of Care Ultrasound: A Survey Study Across All Acute Care Specialties

Bryan Frost; Davinder Ramsingh, MD¹; Vi Dinh, MD RDMS RDCS¹; Jason Gatling, MD¹; Gary Stier, MD MBA²; Ryan Lauer, MD¹; Ihab Dorrota; Loma Linda University Medical Center¹; Loma Linda University Health²

(SCA203) Outcomes and Hospital Readmissions after Extracorporeal Membrane Oxygenation (ECMO): A National Readmissions Database Study

Shahzad Shaefi, MD¹; Atul Gupta, MBBS²; Mohammed Minhaj, MD MBA³; Ariel Mueller, MA¹; Avery Tung, MD FCCM³; Junaid Nizamuddin, MD³; Sajid Shahul, MD²; Beth Israel Deaconess Medical Center¹; University of Chicago Hospitals²; University of Chicago³

(SCA204) Evaluation of Clinical Impact of Noninvasive Hemodynamic Monitoring to Optimize Preventative Care of Heart Failure Patients

Alec Runyon, MD¹; Davinder Ramsingh, MD²; Jason Gatling, MD¹; Ryan Lauer, MD¹; Suzanne Hyun, MD²; Jaron Yang; Yela Jung; Laurel Kelley, MS³; Luke Edgson, BSc⁴; Loma Linda University Medical Center¹; Loma Linda Medical Center²; Loma Linda University³; Loma Linda University Medical School⁴

(SCA205) Pretreatment with Levosimendan in Patients Undergoing Left Ventricular Assist Device Implantation

Nikola Bradic, MD¹; Andrej Sribar, MD¹; Danijel Unic, MD¹; University Hospital Dubrava¹

(SCA206) A Pilot Goal-Directed Perfusion Initiative to Prevent Acute Kidney Injury After Cardiac Surgery

Viachaslau Barodka, MD; Johns Hopkins University School of Medicine

(SCA207) High Fidelity Simulation Improves Resident Performance During Rare High Acuity Events

Timothy Heinke, MD¹; George Guldán, MD¹; Medical University of South Carolina¹

(SCA208) Selection and Outcomes of Patients for Transfemoral Transcatheter Aortic Valve Replacement Performed Under Monitored Anesthesia Care Versus General Anesthesia

Saroj Pani, MBBS¹; John Cagino, MD¹; Bruno Natalie, MD¹; Sridhar Musuku, MD FRCA¹; Albany Medical Center¹

(SCA209) Active Humidification and Perioperative Temperature Regulation Using a Novel Heated Airway Circuit After Deep Hypothermic Circulatory Arrest

Matthew Bean, DO¹; Kamrouz Ghadimi, MD¹; Jhaymie Cappiello, MS RRT-ACCS²; Jason Boyle, BSRC RRT-ACCS²; Sebastian Diaz, MS CCP²; Sharon McCartney, MD¹; Ian Welsby, MD BSc FRCA MBBS¹; Duke University Medical Center¹; Duke University Hospital²

(SCA210) Reducing Perioperative Waste of Infused Medications in the Adult Cardiac Operating Rooms at an Academic Medical Center

Tera Cushman, MD MPH¹; Dinesh Kurian, MD MBA²; Phillip Geiger, MD¹; Srikar Rao, MD²; Martin Sigurdsson, MD PhD¹; Brad Taicher, DO MBA²; Claudia Villalpando; Nathan Waldron, MD MHSc²; Cory Maxwell, MD³; Duke University Hospital¹; Duke University Medical Center²; Duke University³

(SCA211) Quality Improvement in Thoracic Surgery: Assessing the Effectiveness of a Perioperative Thoracic Pain Management Algorithm

Tera Cushman, MD MPH¹; Wenjing Qi, PhD²; Austin Traylor, BS³; Betty Tong, MD MHS MS⁴; Brandi Bottiger, MD²; Rebecca Klinger, MD MS⁴; Duke University Hospital¹; Duke University²; Duke University School of Medicine³; Duke University Medical Center⁴

(SCA212) General Anesthesia for Transcatheter Aortic Valve Replacement: Total Intravenous Anesthesia Is Associated With Decreased Hospital Length of Stay and a Trend Toward Less Delirium Compared to Volatile Agent Technique

Allie Goins, BS¹; Alan Smeltz, MD²; Cassandra Ramm, AGNP-C²; Paula Strassle, MSPH¹; Emily Teeter, MD FASE¹; Thomas Caranasos, MD¹; John Vavalle, MD¹; Lavinia Kolarczyk, MD¹; University of North Carolina¹; University of North Carolina Hospital²

Scientific Abstracts and Posters

(SCA213) Postoperative Dysphagia After Intraoperative Transesophageal Echocardiography in Cardiac Surgical Patients

Brian O'Hara, MD¹; Luigino Nascimben, MD PhD¹; Marc Philip Pimentel, MD MPH¹; Chuan-Chin Huang, ScD¹; James Rawn, MD¹; Jo Ann David-Kasdan, RN MS SM¹; Jennifer Beloff, RN MSN APN¹; Semra Koymen, MA, CCC-SLP¹; Brigham and Women's Hospital¹

(SCA214) Identifying Threats to Patient Safety in Cardiac Surgery: Differences Between Teaching and Nonteaching Hospitals

Tara Cohen, MS¹; Albert Boquet, PhD¹; James Abernathy, MD MPH FASE FAHA²; Scott Reeves, MD MBA FACC FASE²; Scott Shappell, PhD¹; Embry-Riddle Aeronautical University¹; Medical University of South Carolina²

(SCA215)

Withdrawn

(SCA216)

Withdrawn

(SCA217) Fellow-Driven Transesophageal Echocardiography Curriculum for Residents

Genevieve Staudt, MD¹; Tao Shen, MBBS¹; Agnieszka Lesicka, MD¹; Yvonne Lai, MD¹; Massachusetts General Hospital¹

(SCA218) Fast-Track Protocols: Is Quality Pushed to the Edge?

Carl-Johan Jakobsen, MD¹; Pia Ryhammer, MD¹; Jacob Greisen, MD¹; Aarhus University Hospital¹

(SCA219) Rotational Thromboelastometry in Cardiovascular Surgery: Initial Experience

Saraswathi Karri, MD¹; Elizabeth Lee Herrera, MD¹; Eric Salazar, MD PhD¹; Houston Methodist Hospital¹

(SCA220) Using Flow Disruptions to Define the Error Space During Cardiovascular Surgery

Albert Boquet, PhD¹; Tara Cohen, MS¹; Scott Reeves, MD MBA FACC FASE²; Scott Shappell, PhD¹; Embry-Riddle Aeronautical University¹; Medical University of South Carolina²

(SCA221) Comparison of Forced-Air and Warm Circulating-Water Warming for Prevention of Hypothermia During Open Cardiac Surgery

Emily Penick, MD¹; Ingrid Moreno-Duarte, MD¹; Henry Rogalin, PhD¹; Benjamin Rohrer, MD¹; Visal Patel, MD MS¹; Alaa Basura, MBBS¹; Farhad Zahedi, MD¹; Fred Cobey, MD MPH FASE¹; Stefan Ianchulev, MD¹; Tufts Medical Center¹

(SCA222) Effect of Preoperative Cardiac Implantable Electronic Device Programming on Perioperative Management

Jose Navas, MD¹; Derrick Williams, MD¹; Henry Ford Hospital¹

(SCA223) Prediction of Delirium After Cardiac Surgery: The Role of Transcranial Doppler and Cerebral Oximetry

Sarah Soh, MD¹; Jae-Kwang Shim, MD PhD¹; Hye-Bin Kim, MD¹; HyeJin Kim, MD¹; Young-Lan Kwak, MD PhD¹; Yonsei University College of Medicine¹

(SCA224) Does Length of Surgery Correlate With Increased Risk of Stroke?

Bradley Kelsheimer, MD¹; Tara Brakke, MD FASE²; University of Nebraska Medical Center¹; University of Nebraska²

(SCA225) Initial Experience of Emergent Extracorporeal Membrane Oxygenation (ECMO) in the Operating Room

Wongook Wi, MD¹; Jiyeon Park, MD¹; Jong-Hwan Lee, MD PhD²; Jeong Jin Min, MD²; Yang Hyun Cho, MD²; Kiick Sung, MD²; Samsung Seoul Hospital¹; Samsung Medical Center²

(SCA226) Vasopressin Cost Inflation: Economic Consequences in the Cardiac Operating Room

Michael Plakke, MD¹; Robert Raiff, PharmD BCPS²; Cory Maxwell, MD¹; Madhav Swaminathan, MD FASE³; Duke University¹; Duke University Hospital²; Duke University Medical Center³

(SCA227) Procedural Recall and Patient Satisfaction Using Monitored Anesthesia Care in Transcatheter Aortic Valve Replacement

Prakash Patel, MD¹; Carissa Livingston, BS²; William Vernick, MD³; Jared Feinman, MD³; John Augoustides, MD FASE FAHA¹; Jacob Gutsche, MD²; Nimesh Desai, MD¹; University of Pennsylvania¹; Perelman School of Medicine²; Hospital of the University of Pennsylvania³

(SCA228) Translation of Blood Conservation Guidelines Into Clinical Practice: Use of a Survey Instrument to Identify Barriers and Drive Adoption

Simon Choi, MD¹; Ravi Joshi, MD¹; Mandy McBroom, MPH¹; William Travis Lau, MD²; Philip Greilich, MD¹; University of Texas Southwestern Medical Center¹; The Queen's Medical Center²

(SCA229) A Comparison of Forced-Air Versus Warm Circulating-Water Devices on the Risk of Transfusion in Cardiac Surgery Patients

Emily Penick, MD¹; Benjamin Rohrer, MD¹; Ingrid Moreno-Duarte, MD¹; Henry Rogalin, PhD¹; Alaa Basura, MBBS¹; Farhad Zahedi, MD¹; Visal Patel, MD MS¹; Fred Cobey, MD MPH FASE¹; Stefan Ianchulev, MD¹; Tufts Medical Center¹

(SCA230) Intraoperative Fluid Management and Cardiac Surgery Patient Data Capture: Parameter-Centered Treatment Platform to Improve Patient Outcomes and Facilitate Physician Coaching

Riva Macbeth, BS¹; Bryan Kwon, BS²; Michael Dobbles; Andrew Wilkey, MD¹; Robert Farivar, MD PhD¹; Tjorvi Perry, MD MMSc¹; Abbott Northwestern Hospital¹; Edwards Lifesciences²

(SCA231) Pharmacy Preparation of Emergency Medication for Cardiac Anesthesia: A Quality Improvement and Cost Study

Victor Neira, MD¹; Vivian Wang; Derek Wong; Matthias Scheffler, MD²; Heather Neville, BScPharm MSc³; Blaine Kent, MD FRCPC⁴; QEII Infirmary Hospital¹; Dalhousie University²; Nova Scotia Health Authority³; QEII Health Sciences Centre, Nova Scotia⁴

(SCA232) Intraoperative Arterial Pulse-Contour Directed Hemodynamic Management Shortens Extubation Times and Intensive Care Unit Length of Stay, and Reduced Total Variable Cost in Cardiac Surgical Patients

Tjorvi Perry, MD MMSc¹; Andrew Wilkey, MD¹; Kathrine Foag; Serina Brueggemann; Erik Stoltenberg; Pamela Rush, RN MS²; Craig Strauss, MD MPH³; Matthew Sundblad, MD⁴; Judah Askew, MD; Robert Farivar, MD PhD¹; Abbott Northwestern Hospital¹; Allina Health²; Minneapolis Heart Institute³; American Anesthesiology of MN⁴

Fellow/Resident Complex Case Presentations

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

Saturday, April 22, 11 am–Noon

(F5) Asynchronous Independent Lung Ventilation for Mesothelioma Resection

Kristine Pearson-Chauhan, DO¹; Pierre LeVan, MD¹; Mina Oftadeh, DO¹; Jenny Kwak, MD¹; Loyola University Medical Center¹

(F6) Uncommon Cause of Acute Onset Coronary Ischemia Following CABG: Compression by Chest Tube

Meredith Kingeter, MD¹; Mias Pretorius, MBChB¹; Vanderbilt University Medical Center¹

(F7) Repair of Severe Aortic Insufficiency in a Pediatric Patient With Left Ventricular Assist Device

Scott Miller, DO¹; Srinivisan Rajagopal, MD²; University of Iowa Hospitals & Clinics¹; University Of Iowa²

(F8) Left Ventricular Failure Following MitraClip Deployment

Adam Dalia, MD MBA¹; Michael Essandoh, MD²; Massachusetts General Hospital Harvard Medical School¹; The Ohio State University²

(F9) Imaging Modalities for Correct Positioning of Percutaneous Right Ventricular Assist Device in a Patient Following Left Ventricular Assist Device (LVAD) Implantation

Bobby Bahadorani, DO¹; Mariya Geube, MD¹; Cleveland Clinic Foundation¹

(F10) Large Pulmonary Artery Aneurysm From a Rare Pulmonary Valve Pathology

Bradford Cardonell, MD¹; Barry Marks, DO¹; Joseph Stemm, MD²; Michael Dorbad, DO¹; Geisinger Medical Center¹; Geisinger Clinic²

(F11) Embolized Watchman Device Dynamically Occludes Left Ventricular Outflow Necessitating Emergent Sternotomy

Elvera Baron, MD PhD¹; Himani Bhatt, DO MPA FASE²; Mount Sinai Hospital¹; Icahn School of Medicine at Mount Sinai²

(F12) Severe Orthopnea Precluding Awake Institution of Venovenous Extracorporeal Membrane Oxygenation

Lauren Hodgson, DO¹; Johannes Steyn; University of Kentucky¹

(F13) AngioVac Suction Thrombectomy Complicated by Thrombus Fragmentation and Distal Embolization Leading to Hemodynamic Collapse

Timothy Del Rosario, MD¹; Mafdy Basta, MD¹; Shvetank Agarwal, MD FASE²; Augusta University¹; Augusta University, Medical College of Georgia²

(F14) Anesthetic Management of a Patient With a Severe Form of Diastolic Dysfunction

Stephen Bird, DO¹; Andra Duncan, MD MS¹; Cleveland Clinic¹

(F15) Management of a Patient with Heparin-Induced Thrombocytopenia Undergoing Heart Transplantation

Jason O'Neal, MD¹; Adam Kingeter, MD¹; Vanderbilt University Medical Center¹

(F16) Ultrasound-Guided Left Stellate Ganglion Block for the Treatment of Refractory Ventricular Storm in a Patient Undergoing Veno-Arterial Extracorporeal Membrane Oxygenation

Alvin Garcia, MD¹; David Creighton, MD²; Vanilla Singh, MD³; Sheela Pai Cole, MD³; Stanford Hospital and Clinics¹; Stanford University School of Medicine²; Stanford University³

(F17) Systemic Right Ventricular Failure: A Late Complication After Mustard Repair for Dextro-Transposition of the Great Arteries

Terrence Coffey, MD¹; Ryan Hood, MD²; Northwestern University¹; Northwestern University Feinberg School of Medicine²

(F18) A Case of Paravalvular Leak and Iatrogenic Aortic Insufficiency Following Mitral Valve Replacement

Vincent Pagano, MD; University of Michigan Health System

(F19) Dual Outflow Obstruction? Worsening Heart Failure After Paravalvular Leak Repair With Amplatzer Vascular Device

Reney Henderson, MD¹; Seema Deshpande, MD²; Andrew Crabbe, MD³; University of Maryland School of Medicine¹; University of Maryland Medical System²; Saint Anthony Hospital³

(F20) Effects of Antiphospholipid Syndrome on Anti-Xa and ACT Levels in Patients Undergoing Transcatheter Aortic Valve Replacement

Kirk Stevens, MD¹; Jose Rios, MD ABIHM¹; Zachary Cargill²; Fred Cobey, MD MPH FASE¹; Tufts Medical Center¹; Northeastern University²

(F21) Intraoperative Management of Cesarean Delivery Following LVAD Implantation for Chronic Heart Failure

Ashley Taylor, MD¹; Michael Isley, MD¹; Kiran Nakai; Ami Attali, DO¹; Henry Ford Hospital¹

(F22) Surgery for Infective Endocarditis—Valve Repair Versus Replacement

Tao Shen, MBBS¹; Heidi Bas, MD¹; Massachusetts General Hospital¹

(F23) Aorto-Cavitary Fistula in Patient with Bicuspid Aortic Valve and Endocarditis: A Rare Complication

Sean Johnson, MD¹; Rohesh Fernando, MD²; Wake Forest Baptist Medical Center¹; Wake Forest University School of Medicine²

(F24) Anesthetic Management for the Implantation of a Total Artificial Heart

Sarah Arnold, MD¹; Cesar Rodriguez-Diaz; Mount Sinai Hospital¹

(F25) Management of Anomalous Right Coronary Artery With Intramural Course

Bryant Bunting, DO; University of Pittsburgh Medical Center

(F26) Severe Pulmonary Hypertension in a Patient on VV ECMO Transferred From an Outside Hospital for Double Lung Transplant

Beau Bergeron, MD¹; Theresa Gelzinis, MD²; Diana DeAndrade, MD¹; University of Pittsburgh Medical Center¹; University of Pittsburgh²

(F27) Intimal Sarcoma Within the Left Atrium

Matthias Grube, MD¹; Ellen Richter, MD²; Emory University¹; Emory University School of Medicine²

(F28) Acute Migration of a Perceval Sutureless Aortic Valve Following Separation From Cardiopulmonary Bypass During CABG/AVR

Janie Nguyen, DO¹; Justin Poltak, MD¹; Maine Medical Center¹

(F29) Left Ventricular Assist Device Explantation: The Off-Pump Approach

Ashley Yager, MD¹; Leonid Gorelik, MD¹; Galina Dimitrova, MD¹; Ohio State University¹

Fellow/Resident Complex Case Presentations

(F30) Vascular Erosion From Central Venous Cannulation With Propofol Extravasation

Will Kurtz, MD¹; Daniel Cormican, MD¹; Allegheny Health Network¹

(F31) Right Atrial Outflow Obstruction With Severe Right-to-Left Shunt and Hypoxia Following Induction of General Anesthesia

Brian O'Hara, MD¹; Albert Kwon, MD¹; Martin Zammert, MD¹; Brigham and Women's Hospital¹

(F32) Multimodal Imaging and Percutaneous Management of Left Ventricular Assist Device Outflow Cannula Obstruction

Srikanth Rao, MD¹; Matthew Read, MD²; Mani Daneshmand, MD²; Ali Zomorodi, MD²; Mandisa-Maia Jones-Haywood, MD FASE³; Kamrouz Ghadimi, MD¹; Duke University Medical Center¹; Duke University²; Duke University Hospital³

(F33) Mustard Takedown and Jatene Arterial Switch in an Adult with D-Transposition of the Great Arteries

Austin Adams, MD¹; Jordan Gozdziński, MD¹; Nicholas Markin, MD FASE²; Thomas Schulte, MD¹; University of Nebraska Medical Center¹; University of Nebraska²

(F34) Combined En-Bloc Heart-Liver Transplant on Cardiopulmonary Bypass (CPB): Implications for the Anesthesiologist

Kimberly Burcar, MD¹; Jayanta Mukherji, MBBS²; Steven Edelstein, MD¹; Loyola University Medical Center¹

(F35) Airway and Pulmonary Artery Compression Associated With Transesophageal Echocardiography Manipulation in a Patient With a Giant Thoracic Aortic Pseudoaneurysm

Brett Myers, MD¹; Kenichi Ueda, MD PhD¹; University of Iowa Hospitals and Clinics¹

(F36) Emergent Lumbar Drain Placement Resulting in Reversal of Paraplegia After Total Aortic Arch Replacement and Stent Grafting of Descending Thoracic Aorta

Maximilian Blanter, MD¹; Manxu Zhao, MD¹; Shawn Coleman, MD¹; Ali Khojenezhad, MD¹; Cedars-Sinai Medical Center¹

(F37) Severe LVOT Obstruction in Setting of Hypertrophied Aberrant Papillary Muscle

Sarah Burke, MD¹; Ellen Richter, MD¹; Emory University School of Medicine¹

(F38) Intraoperative Transesophageal Echocardiography for Watchman Device Implantation: Guiding Device Deployment and Managing Complications

Anubhav Kapoor, MD¹; Mary Beth Brady, MD FASE²; Johns Hopkins Hospital¹; Johns Hopkins School of Medicine²

(F39) Anesthetic Implications of a Case of Cardiac Paraganglioma

Perin Kothari, DO¹; Anand Mehta, MD¹; Shiva Sale, MD²; Alexander Leone, MD²; Cleveland Clinic¹; Cleveland Clinic Foundation²

(F40) Isolated Post Cardiopulmonary Bypass Right Ventricular Dysfunction with Concomitant Subvalvular Left Ventricular Outflow Tract Obstruction Following Aortic Valve Replacement

Kevin Wong, DO¹; Jennifer Hargrave, DO¹; Cleveland Clinic¹

(F41) A Screw Loose: Penetrating Trauma to the Ascending Aorta

Raiyah Sherifdeen, MD¹; Kimberly Kesner, MD¹; Rush University Medical Center¹

(F42) Severe Hypotensive Reaction Following Administration of Fresh Frozen Plasma

Chinwe Nwosu, MD¹; Wendy Bernstein, MD MBA²; Magali Fontaine, MD PhD³; University of Maryland¹; University of Rochester²; University of Maryland School of Medicine³

(F43) Aortic Root Pseudoaneurysm After Transcatheter Aortic Valve Replacement Requiring Left Ventricular Outflow Tract Repair

Tina Shah, MD¹; Aaron Reynolds, MD²; McGaw Medical Center of Northwestern University¹; Northwestern University Feinberg School of Medicine²

(F44) Right Heart Failure Due to Aortic Pseudoaneurysm

Henrique Vale, MD¹; Peter Fliss, DO¹; Bryan Hierlmeier, MD¹; Jeremy Rainey, DO¹; Henrique Vale, MD¹; University of Mississippi Medical Center¹

(F45) Radical Pericardectomy of Calcified Pericardium

Tyson Vandagriff, MD¹; Elizabeth Lee Herrera, MD²; University of Texas-Houston¹; Houston Methodist Hospital²

(F46) Malposition of a Transcatheter Aortic Valve Causing Fatal Arrhythmias in a Patient With a Left Ventricular Assist Device

Keith Mulder, MD; University of Michigan Health System

(F47) An Interesting Case of a Large, Mural Left Ventricular Vegetation Without Valvular Involvement Caused by Group B Streptococcus in a Patient With a Structurally Normal Heart

Joshua Hammond, MD¹; David Grenda, MD, PhD²; Emory University School of Medicine¹; Piedmont Atlanta Hospital²

(F48) Cardiogenic Shock and Urgent Impella 5.0™ Placement: Can Regional Anesthesia Help?

Julie WYROBEK, MD¹; Jeffrey Swanson, MD²; Wendy Gross, MD¹; Kevin Croce, MD PhD¹; Steve Singh, MD MSc FRCSC¹; Brigham and Women's Hospital¹

(F49) Electro-Mechanical Discordance Between the Left Atrium and Appendage

Kimberly Hollander, MD¹; Eitezaz Mahmood, BA²; Feroze Mahmood, MD FASE¹; Beth Israel Deaconess Medical Center¹; Northwestern University²

(F50) Anesthetic Management of a Patient With Renal Cell Carcinoma and Right Atrial Tumor Thrombus

Ryan Hofer, MD¹; Paul Kazanjian, MD²; University of Michigan¹; University of Michigan Medical School²

(F51) Anesthetic Considerations of Laparoscopic Colectomy in Patient With VAD

Bao Ha, MD¹; Jared Feinman, MD²; University of Pennsylvania¹; Hospital of the University of Pennsylvania²

(F52) Anesthesia for Surgical Resection of Primary Cardiac Angiosarcoma in the Right Ventricle

Fernando Cuadrado, MD¹; Yvonne Lai, MD¹; Massachusetts General Hospital¹

(F53) The Weakest Link: Oxygen Supply Failure During Cardiopulmonary Bypass

Clair Secomb, MD¹; Swapnil Khoche, MD¹; Kayla Wallace; University of California, San Diego¹

Fellow/Resident Complex Case Presentations

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

(F54) Isolated Persistent Left Superior Vena Cava (IPLSVC) With Absent Right Superior Vena Cava (RSVC) in Situs Solitus Adult Presenting for Cardiac Surgery

Tyson Smith, DO¹; Rachel Gryta, DO²; Edward Gologorsky, MD FASE²; Allegheny Health Network¹; Allegheny General Hospital²

(F55) Anesthetic Management of a Patient With an Atrial Septal Pouch Complicated by Thrombosis

Emily Williams, MD¹; Andra Duncan, MD MS¹; David Anthony, MD¹; Cleveland Clinic¹

(F56) Multiple Coronary Aneurysms

Jonathan Howard, MD¹; Gerald Rosen, MD²; Orlando Santana, MD¹; Alfredo Armas, BA³; Omar Issa, DO¹; Mount Sinai Medical Center¹; Miami Beach Anesthesiology Association²; Florida International University Herbert Wertheim College of Medicine³

(F57) An Unexpected Highly Mobile Perivalvular Mass Discovered During Routine CABG

Andrew Voris, MD¹; Jeff Gardner, MD²; Wake Forest Baptist Medical Center¹; Wake Forest University²

(F58) Pneumoperitoneum During Endovascular Harvest

Daniel Moseley, MD¹; Luiz Maracaja Neto, MD²; San Antonio Uniformed Services Health Education Consortium¹; University of Texas Health Science Center at San Antonio²

(F59) Acute Right-to-Left Intracardiac Shunting Through Patent Foramen Ovale in a Patient Undergoing Tricuspid Valve Replacement: The Deleterious Impact of Positive Pressure Ventilation

Andrew Hall, MD¹; Beth Webber, DO²; Michael Fabbro, DO³; Pankaj Jain, MD³; University of Miami/Jackson Health System¹; University of Miami/Jackson Memorial Hospital²; University of Miami³

(F60) Left Sinus of Valsalva Aneurysm Involving Left Main Coronary Artery: A Case Report

Marina Vardanyan, MD PhD¹; Himani Bhatt, DO MPA FASE²; Martin Chen, MD³; Mount Sinai Hospital¹; Icahn School of Medicine at Mount Sinai²; Mount Sinai Medical Center³

(F61) Persistent Ventricular Septal Defect and Complete Heart Block Following Septal Myectomy for Hypertrophic Obstructive Cardiomyopathy

Michael McCaughan, MD¹; Timur Dubovoy; University of Michigan¹

(F62) To Clip or Not to Clip, That Is the Question

Michelle Shirak, MD¹; Rebecca Aron, MD¹; Cedars-Sinai Medical Center¹

(F63) Percutaneous Tricuspid Valve Repair for Functional Tricuspid Regurgitation

Deena Perotti, MD¹; Moody Makar, MD¹; Cedars-Sinai Medical Center¹

(F64) Unanticipated Endoaortic Balloon Embolization Causing Catastrophic Distal Aortic Rupture

Alex Leone, MD¹; Perin Kothari, DO²; Anand Mehta, MD²; Cleveland Clinic Foundation¹; Cleveland Clinic²

(F65) A Rare Case of Seroma of ICD Lead Pocket and Its Excision: Anesthetic Management

Samhati Mondal, MD¹; Maninder Singh, MD²; MetroHealth Medical Center, Case Western Reserve University¹; MetroHealth Hospital²

(F66) One Size Fits...Most: A Rare Case of Right Coronary Artery Compression After Tricuspid Valve Replacement

Heather Lander, MD¹; Lauren Cornella, MD¹; Tsuyoshi Kaneko, MD¹; Brigham and Women's Hospital¹

(F67) Post Myocardial Infarction Ventricular Septal Defect Complicated by Pseudoaneurysm: An Unusual Presentation

Jun Xu, MD¹; Sudhakar Subramani, MD MMED²; University of Iowa¹; University of Iowa Hospitals and Clinics²

(F68) Not Too Near, Not Too Far, But Just Right: Two Examples of Transesophageal Echocardiographic Evidence of Malpositioned Perceval™ Sutureless Aortic Valves

Caroline Hunter, MD¹; Scott Streckenbach, MD MD¹; Massachusetts General Hospital¹

(F69) Complete Avoidance of Blood Product Transfusion With Single Dose Prothrombin Complex Concentrates in an Anticoagulated Patient Undergoing Redo Cardiac Surgery

Monique Roberts, MD¹; Prakash Patel, MD²; Jonathan Frogel, MD³; Hospital of the University of Pennsylvania¹; University of Pennsylvania²

(F70) Differential Diagnosis, Intraoperative Anesthesia Management of a Rapidly Growing Right Atrial Mass on Echocardiography

Sajjad Ibrar, MD¹; Enrique Pantin, MD²; Sagar Mungekar, MD¹; Rutgers Robert Wood Johnson Medical School¹; Rutgers University²

(F71) Incidental Discovery of an Aorto-Atrial Fistula During Aortic Valve Replacement

Ashley Gabrielsen, DO¹; Michael Andritsos, MD²; Ohio State University Wexner Medical Center¹; Ohio State University²

(F72) Diagnosis and Treatment of Mitral Stenosis in a Thrombosed Bioprosthetic Mitral Valve

John Dollerschell, MD; University of Missouri, Kansas City

(F73) Anaphylaxis Before Incision: Should We Continue?

Richard Van Trump, DO MS¹; Laura Colboch, MS OMS²; Matthew Waldron, MD³; University of Missouri-Kansas City School of Medicine¹; Kansas City University of Medicine and Biosciences²; Mid America Heart Institute/University of Missouri-Kansas City³

(F74) Lung in a Box: Ex-Vivo Lung Transplantation

Elizabeth Cotter, MD¹; Mark Chaney, MD²; University of Chicago Medicine¹; University of Chicago²

(F75) Intraoperative Detection and Management of Cerebral Vascular Accident During Ascending Aorta Surgery

Jennifer Hong, MD MBA¹; Kathleen Knapp, MD²; Karsten Bartels, MD²; Nathanael Weitzel, MD³; University of Colorado School of Medicine¹; University of Colorado²; University of Colorado Health Sciences Center³

(F76) Cardiopulmonary Embolectomy in a Patient With Preexisting Pulmonary Hypertension and RV Dysfunction Necessitating Postoperative Veno-Arterial-Venous Extracorporeal Membrane Oxygenation

Kelly Kohorst, MD¹; Michael Kreger, MD²; Dorothee Mueller, MD¹; Stuart McGrane, MBChB¹; Kara Siegrist, MD¹; Vanderbilt University Medical Center¹; Vanderbilt Medical Center²

Fellow/Resident Complex Case Presentations

(F77) Left Ventricular Outflow Tract Obstruction From Accessory Mitral Valve Tissue?

Iwan Sofjan, MD¹; Jennifer Hargrave, DO¹; Cleveland Clinic¹

(F78) Better Late than Never: Delayed Diagnosis of a Sinus Venosus Defect

Genevieve Staudt, MD¹; Michael Fitzsimons, MD¹; Massachusetts General Hospital¹

(F79) Hemodynamically Unstable Systolic Anterior Motion Following Mitral Valve Repair

Jimmy Yao, MD¹; Darren Hyatt, MD¹; Matthew Klopman, MD FASE²; Emory University¹; Emory University School of Medicine²

(F80) A Man With Three Hearts: Total Artificial Heart Transplantation in a Patient With Existing Heterotopic Heart Transplantation

Christy George, MD¹; Shaina Sheppard, MD²; University of Texas Health Science Center¹

(F81) The 'Convergent Procedure': Anesthetic Considerations and Technical Complexities

Shashank Shettar, MD¹; Sanjeev Chhangani, MD MBA²; University of Florida, College of Medicine¹

(F82) Double Valve Replacement in a Patient With Severe Rheumatic Heart Disease and Acute Decompensated Heart Failure

Binu Abraham; Megan Burger, MD¹; Sandeep Markan; Yi Deng, MD¹; Baylor College of Medicine¹

(F83) Management of a Patient With a History of Thrombotic Thrombocytopenic Purpura Undergoing Aortic Valve Replacement

Grace Bryant, MD¹; Ravi Joshi, MD¹; University of Texas Southwestern Medical Center¹

(F84) Hydroxocobalamin Administration for Hypotension Refractory to Vasopressor Infusions and Methylene Blue During Cardiopulmonary Bypass

Joseph Morabito, DO MS¹; Bryan Ahlgren, DO¹; Breandan Sullivan, MD²; University of Colorado Hospital¹; University of Colorado Denver²

(F85) Perioperative Management of Postpneumonectomy Pulmonary Edema

Simon Choi, MD¹; Sreekanth Cheruku, MD; Bryan Romito, MD¹; Ravi Joshi, MD¹; Amanda Fox, MD MPH¹; Alycia Wanat-Hawthorne, MD¹; University of Texas Southwestern Medical Center¹

(F86) Unexpected Intraoperative Discovery of Left Main Pulmonary Artery Embolus Prior to Minimally Invasive Valve Surgery

Allison Moriarty, MD¹; Jayeshkumar Patel, MD²; Keck School of Medicine, University of Southern California¹; University of Southern California²

(F87) Acute, Severe Aortic Insufficiency Leading to Cardiac Arrest in Transcatheter Aortic Valve Replacement: Implications and Management

Vishal Dhandha, MD¹; Tim Rohman, MD²; Thomas Caranasos, MD¹; John Vavalle, MD¹; Lavinia Kolarczyk, MD¹; University of North Carolina¹; University of North Carolina Hospitals²

(F88) Seventh Time Reoperative Cardiac Surgery in a Patient With an Aorto-Right Ventricular Fistula and Aortic Pseudoaneurysm Adhered to Retrosternum

Asha Singh, MD¹; Anand Mehta, MD²; Cleveland Clinic Foundation¹; Cleveland Clinic²

(F89) Mechanical Valve Thrombosis from Heparin Induced Thrombocytopenia with Thrombosis: Reoperation With Low Dose Bivalirudin

Adam Weinstein, MD¹; Rene Dekkers, BS CCP LP²; Steve Singh, MD MSc FRCSC¹; John Fox, MD¹; Brigham and Women's Hospital¹

(F90) A Tricuspid Valve Replacement in a 39-Year-Old Patient With Ebstein's Anomaly

Jenna Strother, MD¹; Rachel Roberts, MD¹; Bryan Hierlmeier, MD¹; Henrique Vale, MD¹; University of Mississippi Medical Center¹

(F91) Hybrid Endovascular Repair of the Aortic Arch in a Patient With Ruptured Aneurysm: Using Rapid Ventricular Pacing to Control the 'Windsock' Effect

Jeffrey Kim, MD¹; Michael Bokoch, MD PhD¹; Ahmed Shalabi, MD¹; University of California, San Francisco¹

(F92) Giant Left Atrial Mass Excision 14 Years After Heart Transplant

Matt Maxwell, MD MPH¹; Dionne Peacher, MD¹; University of Iowa Hospitals and Clinics¹

(F93) Ruptured Sinus of Valsalva Aneurysm With VSD

Julius Hamilton, MD¹; Kirk Edwards, MD¹; Ratna Vadlamudi, MD²; Emory University¹; Emory Healthcare²

(F94) Dynamic Right Ventricular Outflow Tract Obstruction After Coronary Artery Bypass Grafting

Eric Lin, MD; Johns Hopkins University School of Medicine

(F95) LVAD Placement as Bridge to Transplant in a Patient With LV Noncompaction and Known LV Thrombus

Matthew Hull, MD; University of Alabama at Birmingham

(F96) Surgical Repair of an Isolated Parachute-Like Asymmetric Mitral Valve (PLAMV) Defect in an Adult

Diana DeAndrade, MD¹; Derek Lauter, MD¹; Heather Hayanga, MD MPH¹; University of Pittsburgh Medical Center¹

(F97) Closed Chest Cardiopulmonary Bypass in a Patient With Aortic Insufficiency and the Need for Alternative Left Ventricular Venting

Brett Wakefield, MD¹; Alexander J. Leone, MD¹; Shiva Sale, MD¹; Cleveland Clinic Foundation¹

(F98) Intra-Aortic Fibrinous Sheath Detected by Echocardiography Associated With Percutaneous Ventricular Assist Device

Alexander Kahan, MD¹; Enrique Pantin, MD²; Denes Papp, MD¹; Rutgers Robert Wood Johnson Medical School¹; Rutgers University²

(F99) Transcatheter Mitral Valve-in-Valve Implantation in a Patient With a Degenerated Bioprosthetic Mitral Valve

Forrest Duncan, MD¹; Bryan Hierlmeier, MD¹; Henrique Vale, MD¹; University of Mississippi Medical Center¹

(F100) An Uncommon Connection: Aorta to Right Atrial Fistulization From Ruptured Sinus of Valsalva Aneurysm in an Otherwise Healthy Patient

Kathryn Boles, DO; PharmD, MPH¹; Ashley Fritz, DO PA²; Gregory Mickus, MD²; Archer Martin, MD²; Mayo Clinic¹; Mayo Clinic Florida²

(F101) Acute Pseudoaneurysm of Right Coronary Ostial Anastomosis and Graft Failure After a Modified Bentall Procedure

Mario Farias-Kovac, MD¹; Christian Balabanoff, MD¹; Edo Ginsburg, MD²; Yuliana Salamanca-Padilla, MD²; Jeongae Yoon, MD¹; Temple University Hospital¹; Temple University²

Fellow/Resident Complex Case Presentations

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

(F102) Management of a Patient With Concomitant Severe Aortic and Mitral Stenosis.

Dinesh Kurian, MD MBA¹; Madhav Swaminathan, MD FASE¹; Duke University Medical Center¹

(F103) General Anesthesia With Cardiopulmonary Bypass for LVAD Implantation in a Patient With McArdle's Disease

Michael Benson, MD¹; Candice Morrissey, MD MSPH¹; University of Utah¹

(F104) Acute Coronary Syndrome in Young Healthy Female: Think About Spontaneous Coronary Artery Dissection (SCAD)

Hussam Nagm, MD MSch¹; Sohail Mahboobi, MD²; Ghaith Abdulkarim, MD³; St. Elizabeth's Medical Center¹; Lahey Hospital and Medical Center²; Barns Jewish Hospital³

(F105) Pseudoaneurysm of the Mitral-Aortic Intervalvular Fibrosa

Allyson Lemay, MD¹; Julie Wyrobek, MD¹; Dirk Varelmann, MD¹; Lauren Cornella, MD¹; Brigham and Women's Hospital¹

(F106) Tricuspid Valve Avulsion After Blunt Chest Wall Trauma: Replace Now or Wait?

Kelly Bruno, MD¹; Lavinia Kolarczyk, MD¹; University of North Carolina¹

(F107) Unrecognized Ipsilateral Tension Pneumothorax During Single Lung Transplant

Luke Dong, MD¹; Hamdy Awad, MD¹; Mohamed Ehab Ramadan, MBBCh¹; Tony Boualoy, BS²; The Ohio State University, Wexner Medical Center¹; The Ohio State University²

(F108) The Imaging and Anesthetic Considerations in Carcinoid Valvular Heart Disease

Daniel Tighe, DO¹; Lingesh Sivasenan, MD²; University of Connecticut¹; University of Connecticut School of Medicine²

(F109) Minimally Invasive Repair of a Double Orifice Mitral Valve

John Gamble, MD¹; Eun Eoh, MD¹; Donald Glower, MD¹; Nicole Guinn, MD²; Duke University Medical Center¹; Duke University²

(F110) Successful Resuscitation of a 14-Year-Old After SVC Tear During ICD Laser Lead Extraction

Jordan Friel, MD¹; Andrew Scharf, MD¹; Scott Reeves, MD MBA FACC FASE¹; Medical University of South Carolina¹

(F111) Localized Pericardial Effusion

Bradley Kelsheimer, MD¹; Tara Brakke, MD FASE²; University of Nebraska Medical Center¹; University of Nebraska²

(F112) Aortic and Mitral Valve Endocarditis With Holodiastolic Flow Reversal and Mitral Drop Lesion With Abscess Extension Appearing as Aortic-Right Ventricular Fistula on Transthoracic Echocardiography

Matthew Desmond, MD¹; Julia Bauerfeind, MD²; University of Florida¹; Malcom Randall VA Medical Center²

(F113) Cholecystectomy, Pneumoperitoneum and Eisenmenger Syndrome: Can NIRS Assessment of Cerebral and Somatic Tissue Oxygenation Improve Outcomes?

Suwarnan Anand, MD¹; Manuel Fontes, MD²; Paul Heerdt, MD PhD FCCP¹; Lingzhong Meng, MD²; Liang Lin; Gregory Lessans, MD³; Yale University School of Medicine¹; Yale University²; Yale–New Haven Hospital³

(F114) Incidental Unicuspid Aortic Valve During Aortic Valve Replacement

Peter Fliss, DO¹; Henrique Vale, MD¹; Bryan Hierlmeier, MD¹; University of Mississippi Medical Center¹

(F115) Partial Left-Heart Bypass (PLHB) During Thoracoabdominal Aortic Aneurysm (TAAA) Repair in the Presence Dynamic Left Ventricular Outflow Tract Obstruction and a Patient Foramen Ovale: Friend or Foe?

Elizabeth Mburu, MD¹; Jennifer Hargrave, DO¹; Cleveland Clinic¹

(F116) Anesthetic Management for Repair of an Aneurysmal Right Coronary Artery to Coronary Sinus Fistula With RV Ischemia and Early High-Output Heart Failure

Davoy Murray, MD¹; Andra Duncan, MD MS¹; Cleveland Clinic¹

(F117) Attempted Percutaneous Repair of Postinfarction VSD With Overlying Aneurysm Under TEE Guidance

Sandeep Sabhlok, MD¹; Nichlesh Patel, MD¹; University of California San Francisco¹

(F118) Management of Electrical Storm Requiring Cardiectomy

Valery Andre, MD¹; Oludare Olatoye, MD¹; Mayo Clinic¹

(F119) Iatrogenic Atrioventricular Fistula Results From Complex Surgical Repair of Aortic Root Abscess

Alex Wakshinsky, MD¹; Lebow Brandon, MD¹; Ahmed Khan, MD²; University of Rochester¹; University of Rochester Medical Center²

(F120) Rescue Prone TEE Changes Management During Spine Surgery

Brian Butala, DO¹; Edward Gologorsky, MD FASE²; Daniel Cormican, MD¹; Joshua Baisden, MD²; Allegheny Health Network¹; Allegheny General Hospital²

(F121) Transcatheter Aortic Valve Replacement in Chronic Type B Dissection: Transesophageal Echocardiography Is Essential!

Gabriela Querejeta Roca, MD¹; Nelson Burbano, MD²; John Fox, MD¹; Brigham and Women's Hospital¹; Boston Children's Hospital²

(F122) Management of Mitral Valve Annuloplasty Ring Dehiscence After Mitral Valve Repair

Kellie Gates, MD¹; Pierre LeVan, MD¹; Jenny Kwak, MD¹; Loyola University Medical Center¹

(F123) Challenging TAVR in Bicuspid Aortic Valve Stenosis: Utility of Transesophageal Echocardiography

Brad Moore, MD¹; G. Burkhard Mackensen, MD PhD FASE¹; Creighton Don, MD¹; Jason Smith, MD¹; Donald Oxorn, MD CM FACC FRCP¹; Gabriel Aldea, MD FACC FACS²; University of Washington¹; University of Washington Medical Center²

(F124) Management of Pulmonary Hemorrhage and Right Ventricular Dysfunction Following Pulmonary Thromboendarterectomy

Sarah Cardillo, MD¹; Ramon Sanchez, MD¹; Dalia Banks, MD FASE¹; University of California San Diego¹

(F125) Anesthetic Management of an Adult with Ebstein's Anomaly Status Post-Fenestrated Lateral Tunnel Fontan Undergoing Posterior Spinal Fusion for Scoliosis.

Shahab Khademi, DO¹; Jochen Steppan, MD DESA²; Aoife Marasco, MB BAO BCh FCARCSI²; Johns Hopkins Hospital¹; Johns Hopkins University²

(F126) Awake ECMO Initiation for Management of Massive Retrosternal Goiter

Brandon Smoller, MD¹; Terrence Truxillo, MD²; Ochsner Clinic Foundation¹; Ochsner Clinic²

Fellow/Resident Complex Case Presentations

(F127) Anesthetic Considerations in Iatrogenic Pulmonary Vein Stenosis With 'Kinked' Pulmonary Vein Stent

Zack Zimmerman, MD¹; Jennifer Hargrave, DO¹; Cleveland Clinic¹

(F128) A New Approach: Intracardiac Shunt Calculation to Aid in Decision Making With Annular Rupture Following TAVR Deployment

Clifford Cutchins, MD¹; J. Christopher Goldstein, MD²; University of Florida¹; Department of Veterans Affairs²

(F129) MitraClip Placement in the Presence of an Amplatzer Atrial Septal Occluder

Elliot Kay, MD¹; Benu Makkad, MD¹; University of Cincinnati Medical Center¹

(F130) Pneumonectomy and Extracorporeal Membrane Oxygenation: When the Cannulas Come Before Resection

Ryan Noska, MD¹; Peter Arrabal, DO¹; Ping Wang, MD¹; University of Cincinnati Medical Center¹

(F131) Intraoperative Management of Pulmonary Hypertension in a Cardiac Surgery Patient

John Albert, MD¹; Ahmed El Kabbani, MBBS²; Nikolaos Skubas, MD DSc FACC FASE³; Weill Cornell University¹; Alfaisal University²; Weill Cornell Medicine³

(F132) The Mustard Procedure: A Historical Perspective on Transposition of the Great Vessels

William Marion, MD¹; Eric Wilkens, MD MPH¹; Christian Balabanoff Acosta, MD¹; Temple University Hospital¹

(F133) Anesthetic Management of an Off-Pump Double Aortic Arch Repair

Shweta Koirala, MD¹; Anand Mehta, MD¹; Cleveland Clinic¹

(F134) An Unexpected Case of Tamponade Physiology

Andrew Bishara, MD¹; Michael Bokoch, MD PhD²; Kevin Thornton, MD¹; University of California, San Francisco¹

(F135) Paradoxical Carbon Dioxide Emboli During Laparoscopic Cholecystectomy: Diagnosis and Management by Cardiothoracic Anesthesiology

Joseph Woo, MD¹; Galina Leyvi, MD¹; Mikhail Chernov, MD PhD¹; Montefiore Medical Center¹

(F136) Minimally Invasive Temporary Tandem Heart-Right Ventricular Support Device (CF-RVSD) in a Patient With Right Ventricular Failure (RVF) During Complex Left Ventricular Assist Device (LVAD) Exchange

Shonali Pawar, MD MPH¹; Eric Wilkens, MD¹; Edo Ginsburg, MD²; Temple University Hospital¹; Temple University²

(F137) Congenital Quadricuspid Aortic Valve in Patients Undergoing AVR for Aortic Insufficiency

Alina Hulsey, MD¹; Ryan Konoske, MD²; Cory D. Maxwell, MD²; Duke University Medical Center¹; Duke University²

(F138) An Incidental Finding of a Patent Ductus Arteriosus in a Septuagenarian Undergoing Mitral Valve Surgery.

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

(F139) Massive Pulmonary Hemorrhage During Open Thoracoabdominal Aortic Aneurysm Repair

Peter Rubenstein, MD¹; Richard Sheu, MD¹; Richard Actis, MD¹; University of Washington¹

(F140) Scoliosis Surgery in a Patient With Single Ventricle Physiology

Matthew Eagles, MD; Mayo Clinic

(F141) Left Atrial Esophageal Fistula After Five-Box Video Transthoracic MAZE Procedure

Muhammad Salman Janjua, MBBS¹; Robert Medearis, DO²; Mohamed Ben Omran, MD¹; Shvetank Agarwal, MD FASE¹; Augusta University Medical Center/Medical College of Georgia¹

(F142) Laparoscopic Surgery With Severe Pulmonary Hypertension

Anushri Desai, MD¹; Hossam Tantawy, MD²; Yale New Haven Hospital¹; Yale University²

(F143) Diagnosis of Displacement of Left Ventricular Assist Device (LVAD) Outflow Graft during Chest Closure With Echocardiography

Venkat Mangunta, MD; Texas Heart Institute/Baylor College of Medicine

(F144) Management of Parturient With New Diagnosis of Critical Aortic Stenosis

Elizabeth McIntyre, MD¹; Julie Kado, MD²; Michael Faulkner, MD³; Beaumont Health System¹; Northwestern University²; Oakland University William Beaumont School of Medicine³

Fellow/Resident Complex Case Presentations

Fellow/Resident Complex Case Poster Presentations: Session 2 (Non-CME)

Saturday, April 22, 5–6 pm

(F145) Ventricular Fibrillation Arrest Due to Coronary Artery Obstruction: An Unusual Mass Effect of Pulmonary Artery Sarcoma

Zachary Glicksman, MD¹; Andrej Alfrevic, MD FASE¹; Cleveland Clinic¹

(F146) TAVR Induced Systolic Anterior Motion of the Mitral Valve

Dane Ingebrigtsen, MD¹; Kari Obma, MD¹; University of Wisconsin¹

(F147) How Clean Is the OR? Endocarditis From a Bypass Circuit Contaminant!

Yi Cai, MD¹; Johnathan Ross Renew, MD²; Mayo Clinic Jacksonville¹; Mayo Clinic Florida²

(F148) Purposeful Transection of Aorta for Pulmonary Artery Repair and Postoperative Tamponade: A Case for Continuous Transesophageal Echocardiography

Andrew Maresch, MD¹; Katie Goergen, MD¹; University of Nebraska Medical Center¹

(F149) Hemodynamic Collapse From Carbon Dioxide Embolism During Saphenous Vein Harvest

James McCowan, CRNA¹; Emily Penick, MD¹; Visal Patel, MD MS¹; Fred Cobey, MD MPH FASE¹; Stefan Ianchulev, MD¹; Tufts Medical Center¹

(F150) Postcardiotomy Extracorporeal Membrane Oxygenation in a Jehovah's Witness

Leigh Hickerson, MD¹; David Barbara, MD¹; Shane Gillespie, DO¹; James Nelson, MBBS¹; Mayo Clinic¹

(F151) Intraoperative Characterization of a Left Ventricular Pseudoaneurysm With Transesophageal Echocardiography for Surgical CardioCel Patch Closure

Matthew Moen, MD¹; Joshua Herborn, MD¹; Northwestern Memorial Hospital¹

(F152) Successful Management of Cardiopulmonary Bypass With Cardiac Arrest in a Patient With Cold Urticaria

James Nelson, MBBS¹; William Mauermann, MD¹; Mayo Clinic¹

(F153) Acute Left Atrial Dissection During Aortic Valve Replacement

Brian Tolly, MD¹; Aaron Reynolds, MD¹; Northwestern University Feinberg School¹

(F154) Robotic Mitral Valve Repair in a Patient With Prior CABG and Mitral Valve Annuloplasty

Joseph Kimmel, MD¹; Jennie Ngai, MD²; Robert Nampiaparampil, MD²; New York University¹; New York University Langone Medical Center²

(F155) To Operate or Not to Operate: Cardiac Papillary Fibroelastoma on a Bicuspid Aortic Valve

Andrea Maria Corujo Rodriguez, MD¹; Elizabeth Lee Herrera, MD²; University of Texas Health Science Center¹; Houston Methodist Hospital²

(F156) Transesophageal Echocardiography Is an Integral Modality in the Diagnosis of Two Unique Gerbode Defects: A Case Comparison and Echo Correlation

Emily Mackay, DO¹; Emily K. Gordon, MD MSEd²; Jared Feinman, MD¹; Hospital of the University of Pennsylvania¹; Perelman School of Medicine at the University of Pennsylvania²

(F157) TEE Rescue in the Hybrid OR

John McGroarty, MD MS¹; Anand Mehta, MD²; Cleveland Clinic Foundation¹; Cleveland Clinic²

(F158) HeartWare Ventricular Assist Device Implantation With Outflow Graft to Left Subclavian Artery in Patient With Previous Bentall Procedure

Aaron Lim, MD¹; Andrew Green, MD MSHA¹; Mohammed Quader, MD²; Virginia Commonwealth University Health¹; Virginia Commonwealth University²

(F159) A Case Report of Ascending Aortic IABP Insertion; Alternative to Retrograde Femoral Route

Ashish Amatya, MD; Shahid Gangalal National Heart Center

(F160) VATS Resection of an Ectopic Parathyroid Gland Overlying the Main Pulmonary Artery in a 14-Week Pregnant Female

Jan-Pablo Kollmar, MD¹; Amanda Kleiman, MD¹; University of Virginia¹

(F161) Epicardial Ventricular Tachycardia Ablation in a Patient With Chagas Disease Complicated by Biventricular Heart Failure Requiring IntraOp Impella Support

Hooman Heravi, MD¹; Amanda Fox, MD MPH¹; University of Texas Southwestern Medical Center¹

(F162) A Case of Tacrolimus-Induced Thrombotic Thrombocytopenic Purpura in a Heart-Liver En Bloc Transplant Patient

Rebecca Lee, MD¹; Jayanta Mukherji, MD¹; Brian Maxfield, DO¹; Jarva Chow, MD MS MPH¹; Loyola University Medical Center¹

(F163) Management of Acute Papillary Muscle Rupture: Decision Making and Device Support

Eva Litvak, MD¹; Agnieszka Lesicka, MD¹; Alexander Kuo, MD¹; Massachusetts General Hospital¹

(F164) Rescue Cell Salvage During Emergent TEVAR in a Jehovah's Witness

Michael Busada, DO¹; Joshua Baisden, MD²; Daniel Cormican, MD¹; Allegheny Health Network¹; Allegheny General Hospital²

(F165) Patent Ductus Arteriosus Causing Left Ventricular Distension During Cardiopulmonary Bypass

Brandon Caddell, DO¹; Daniel Tolpin, MD¹; Texas Heart Institute¹

(F166) Aortobronchial Fistula Following Thoracic Aortic Aneurysm Repair

Ashley Budd, MD¹; Christopher Schilf, MD²; Saadia Sherwani, MD MS³; Northwestern University¹; Northwestern Memorial Hospital²; Northwestern Medicine³

(F167) Unique Application of Left Cervical Stellate Ganglion Block for Recurrent Ventricular Tachycardia (Electrical Storm)

Mona Patel, MD; Loyola University Medical Center

(F168) Tamponade of Left Mainstem Bronchial Hemorrhage With a Double-Lumen Endotracheal Tube

Sara Strowd, MD MPH¹; Irwin Brown, DO¹; Mina Oftadeh, DO¹; Loyola University Medical Center¹

(F169) Pulmonary Band Revision in a Patient with Double Inlet Left Ventricle

Jennette Hansen, MD¹; Kara Siegrist, MD¹; Julian Bick, MD²; Vanderbilt University Medical Center¹; Vanderbilt University²

Fellow/Resident Complex Case Presentations

(F170) Enlarged Coronary Sinus Discovery After Bacterial Endocarditis Diagnosis

Christo Frangopoulos, MD¹; Morgan Marino, MD²; Meena Bhatia, MD¹; University of North Carolina¹; UNC Hospitals, Department of Anesthesiology²

(F171) A Novel Cause of Percutaneous Ventricular Assist Device Failure in a Patient With Cardiogenic Shock After Myocardial Infarction

Jennifer Smith, MD¹; Julie Wyrobek, MD¹; Steve Singh, MD MSc FRCSC¹; Doug Shook, MD FASE¹; Brigham and Women's Hospital¹

(F172) Anesthetic Implications of an Adult Patient With Uncorrected Pentalogy of Fallot Undergoing Debridements of a Lower Extremity Wound

Jennifer Kaplan, MD¹; Patrick Odonkor, MD²; Ashanpreet Grewal, MD²; University of Maryland¹; University of Maryland Medical Center²

(F173) Aortic Stenosis Due to Unicuspid Aortic Valve

Nathaniel Smith, MD¹; Benjamin Tuck, MD¹; University of Alabama at Birmingham¹

(F174) Left Atrial Dissection After Mitral Valve Repair

Warren Spitz, MD¹; Prakash Patel, MD²; Jonathan Frogel, MD¹; Jared Feinman, MD¹; Stuart Weiss, MD PhD²; John Augoustides, MD FASE FAHA²; Jacob Gutsche, MD³; Hospital of the University of Pennsylvania¹; University of Pennsylvania²; Perelman School of Medicine at the University of Pennsylvania³

(F175) Unilateral Pulmonary Edema Due to Acute Severe Mitral Regurgitation

Daryl Banton, MD¹; Zahra Malik, MD²; Daniel Lahm, MD³; Weill Cornell Medical College¹; Weill Cornell Medical Center²; New York Hospital³

(F176) Traumatic Tracheal Perforation From Crush Injury: Anesthesia and Surgical Considerations

Dan Rosenkrans, MD¹; Lavinia Kolarczyk, MD¹; Jason Long, MD MPH¹; University of North Carolina¹

(F177) When Mom Needs a Little Support: Postpartum Extracorporeal Membrane Oxygenation

Wendy Smith, MD¹; Jessica Tashjian, MD¹; Kathryn Rouine-Rapp, MD²; University of California, San Francisco¹; UCSF Department of Anesthesia²

(F178) Tricuspid Valve Clipping Using MitraClip System

Alexander Shapeton, MD¹; Abirami Kumaresan, MD¹; Feroze Mahmood, MD FASE¹; Beth Israel Deaconess Medical Center¹

(F179) Levo-Transposition of the Great Vessels With Dextrocardia and Situs Inversus Undergoing Systemic AV Repair

Ibrahim Warsame, MD¹; Joseph Kuhn; Galina Dimitrova, MD²; Ashley Yager, MD²; The Ohio State University Wexner Medical Center¹; The Ohio State University²

(F180) Unroofed Coronary Sinus Complicates Two Vessel Coronary Artery Bypass Graft Surgery

Joseph Wright, MD¹; Huayong Hu, MD¹; Loma Linda University Medical Center¹

(F181) Platypnea Orthodeoxia and Hyperhomocysteinemia: Rare Disease States in a Patient Presenting for Aortic Root Repair

Blake Watterworth, MD¹; Seema Deshpande, MBBS MBBS²; University of Maryland Medical Center¹; University of Maryland School of Medicine²

(F182) A Tale of Three Valves: Intraoperative Diagnosis and Anesthetic Management of Acute Prosthetic Complications in

Transcatheter Mitral Valve Replacement Using Melody® Valve

Cheuk Yin Lai, MD¹; Himani Bhatt, DO MPA FASE¹; Icahn School of Medicine at Mount Sinai¹

(F183) Cardiac Lymphangioma Involving Aortic Root

Michael Dorbad, DO¹; Ashley Kass; Barry Marks, DO¹; Bradford Cardonell, MD¹; Geisinger Medical Center¹

(F184) Atrial-Oesophageal Fistula: A Rare and Fatal Complication After Ablation Procedure

Teri Zhang, MD¹; Jayesh Patel, MD²; University of Southern California¹; University of South Carolina Keck Hospital²

(F185) Early Distortion Following Sutureless Aortic Valve Implantation

Tanaya Sparkle, MBBS¹; Elizabeth Lee Herrera, MD²; University of Texas Health Science Center¹; Houston Methodist Hospital²

(F186) Bedside Ultrasound Facilitates Detection of Femoral Occlusive Septic Emboli

Melissa Bellomy, MD¹; Yafen Liang, MD¹; Mias Pretorius, MBChB¹; Susan Eagle, MD²; Irida Nikolla, MD²; Vanderbilt University Medical Center¹; Vanderbilt University²

(F187) A Case of Drug-Refractory Sustained Ventricular Tachycardia in Cardiogenic Shock Complicating Acute Myocardial Infarction

Bhounesh Patel, MD¹; Brian Raffel, DO¹; Sho Tanaka, MBBCh BAO¹; Achillina Rianto, MD¹; Sajjad Ibrar, MD¹; Huy Nguyen, MD¹; Amanda Zarchin, MD¹; Rutgers Robert Wood Johnson Medical School¹

(F188) Subluxation and Fracture of Multiple Teeth in a Patient Undergoing a Descending Thoracic Aneurysm Repair Using Muscle Motor Evoked Potential Monitoring With a Transesophageal Echocardiography Probe and Commercial Bite Block in Place

Darren Hyatt, MD¹; Michael Duggan, MD²; Emory University¹

(F189) Sapien XT Valve Placement in the Inferior Vena Cava for Severe Tricuspid Regurgitation and IVC Stenosis

Mark Bombulie, MD¹; Kara Siegrist, MD¹; Yafen Liang, MD¹; Vanderbilt University Medical Center¹

(F190) Utilizing Echocardiography to Guide Anesthetic and Surgical Management for a Challenging Pericardial Biopsy

Brian Cho, MD¹; Brian Bush, MD²; Keri Koszela, MD²; Mary Beth Brady, MD FASE¹; Johns Hopkins University School of Medicine¹; Johns Hopkins University²

(F191) Anesthesia for Left Mainstem and Carinal Resection Necessitating Extracorporeal Circulation: A Challenging Case

Bradford Smith, MD¹; Gregory Nuttall, MD²; Mark Smith, MD¹; Mayo Clinic¹; Mayo Clinic College of Medicine²

(F192) Veno-Venous Extracorporeal Membrane Oxygenation as Treatment for Massive Pulmonary Embolism

Sunberri Murphy, DO¹; Jacob Gutsche, MD²; Prakash Patel, MD¹; Jesse Raiten, MD¹; William Vernick, MD³; John Augoustides, MD FASE FAHA¹; University of Pennsylvania¹; Perelman School of Medicine at the University of Pennsylvania²; Hospital of the University of Pennsylvania³

(F193) Successful Management of Balloon Rupture During Transcatheter Aortic Valve Replacement (TAVR)

Nishank Patel Nooli, MD¹; Sandeep Krishnan, MD²; Wayne State University¹; Wayne State University School of Medicine²

Fellow/Resident Complex Case Presentations

Saturday, April 22, 5–6 pm (continued)

(F194) Combined Impella 5.0 Device and Intra-Aortic Balloon Pump for Management of Cardiogenic Shock

Hina Faisal, MD¹; Fares Raslan, MD FASA FASE²; Case Western Reserve University¹; Cleveland VA Medical Center²

(F195) Hypotension Secondary to Paravertebral Spread of Intercostal Block Using Exparel During Lateral Thoracotomy

Omar Al-Qudsi, MD¹; Mina Oftadeh, DO¹; Jenny Kwak, MD¹; Loyola University Medical Center¹

(F196) Simultaneous Transcatheter Mitral and Aortic Valve Replacements for Severe Bioprosthetic Valve Failure

Joseph Bracker, DO¹; Harry Garcia, MD¹; Prakash Patel, MD²; Jared Feinman, MD¹; Hospital of the University of Pennsylvania Hospital¹; University of Pennsylvania²

(F197) Survival of a Massive Intraoperative Pulmonary Thromboembolism Treated With Intraoperative Alteplase and Subsequent Veno-Arterial Extracorporeal Membrane Oxygenation

Kendal Richard, MD¹; Ioanna Apostolidou, MD²; Lida Trillos, MD¹; Monica Lupei, MD¹; University of Minnesota¹; University of Minnesota-Fairview²

(F198) A Rare Case of an Anomalous Left Coronary Artery From the Pulmonary Artery in an Adult

Belinda Lee, MD¹; Ioanna Apostolidou, MD²; Matthew Culling, MD¹; University of Minnesota¹; University of Minnesota-Fairview²

(F199) Tracheoinnominate Fistula! We Aren't Ventilating...Again!

Gerald Kirenga, MD¹; Jill Lanahan, MD²; University of Rwanda¹; King Faisal Hospital²

(F200) Dynamic Tracheal Obstruction From a Posterior Mediastinal Hematoma

Gregory Maves, MD¹; Lavinia Kolarczyk, MD¹; University of North Carolina¹

(F201) Postpartum Coronary Artery Dissection Treated With Percutaneous Coronary Intervention and Temporary Left Ventricular Assist Device

Lauren Farac, MD¹; Ying Zeng¹; Cedars-Sinai Medical Center¹

(F202) Ruptured Sinus of Valsalva Aneurysm Initially Misdiagnosed as Ventricular Septal Defect

Rachel Roberts, MD¹; Bryan Hierlmeier, MD¹; Henrique Vale, MD¹; University of Mississippi Medical Center¹

(F203) Acute Aortitis and Associated Mycotic Aneurysm After Recent Endovascular Repair

Elizabeth Ungerman, MD MS¹; Mahesh Sardesai, MD MBA²; University of Pittsburgh Medical Center¹; University of Pittsburgh²

(F204) Embolic Strokes in a Young Patient: Multiple Cardiac Papillary Fibroelastomas

Tina Law, DO¹; Walter Bethune, MD¹; Maimonides Medical Center¹

(F205) Right Video Assisted Thoracoscopic Lung Resection After Previous Left Pneumonectomy

Nick Shah, MD¹; Arvind Rajagopal, MBBS¹; Rush University Medical Center¹

(F206) Left Ventricular Rupture Following Mitral Valve Replacement

Peter Sofia, MD; Loyola University Medical Center

(F207) Right Coronary Artery Fistula to the Right Atrium

Jaspreet Lamba, MD¹; Michelle Sumler, MD²; Emory University¹; Emory University School of Medicine²

(F208) Intraoperative Cardiac Arrest During Transcatheter Aortic Valve Implantation

David Bissing, MD¹; Pierre LeVan, MD²; Mina Oftadeh, DO²; Michael Majewski, MD²; Loyola University Medical Center¹

(F209) Transcatheter Aortic Valve Replacement During On-Pump CABG

Norbert Rios, MD¹; Mark Nelson, MD Med¹; Vigneshwar Kasirajan, MBBS²; Virginia Commonwealth University¹; VCU Health²

(F210) Left Ventricular Outflow Tract Obstruction Postmitral Valve Replacement

Nicole Webb, MD FRCPC; Mazankowski Heart Institute

(F211) Unique Anchoring Technique for TMVR Using a Sapien Valve

Sarah Ellis, MD¹; Ovidiu Moise, MD²; Warren Choi, MD³; UTHHealth¹; University of Texas McGovern School of Medicine²; University of Texas Houston³

(F212) Severe Bronchospasm at the Conclusion of Cardiopulmonary Bypass

Gurleen Sidhu, MD¹; Andrey Apinis, MD¹; Montefiore Medical Center¹

(F213) Use of Perioperative Ultrasound and Echocardiography in the Setting of Cardiac Arrest and Hemodynamic Instability During Attempted Open Abdominal Aortic Aneurysm Repair

Kiran Belani, MD¹; Alexander Shapeton, MD¹; Feroze Mahmood, MD FASE¹; Robina Matyal, MD¹; Beth Israel Deaconess Medical Center¹

(F214) Transcatheter Aortic Valve Replacement in a Patient With Child-Turcotte-Pugh Grade B Hepatic Cirrhosis

William Watson, MD¹; Michael Fabbro, DO²; Giselle Baquero, MD³; Eduardo DeMarchena, MD³; Jackson Memorial Hospital¹; University of Miami²; University of Miami Miller School of Medicine³

(F215) Three-Dimensional Transesophageal Echocardiography Was Superior to Two-Dimensional Techniques in Guiding Catheter-Based Aspiration Thrombectomy of Massive Pulmonary Embolism

Sagar Mungekar, MD¹; Jennifer Cowell, MD¹; Antonio Chiricolo, MD¹; Rutgers Robert Wood Johnson Medical School¹

(F216) Ghanaian Tetralogy of Fallot

Elliott Woodward, MD¹; Vipin Mehta, MD FFARCSI¹; Massachusetts General Hospital¹

(F217) Transcatheter Aortic Valve Replacement to Treat Aortic Insufficiency in a Patient With a Left Ventricular Assist Device

Katherine Kozarek, MD¹; Mohammed Minhaj, MD MBA¹; University of Chicago¹

(F218) Transient Myocardial Swelling in Heart Transplant Following Transport With Normothermic Machine Perfusion

Dustin Palm, MD¹; Ioanna Apostolidou, MD²; Daniela Orza, MD³; Mathew Culling, MD³; University of Minnesota Medical Center¹; University of Minnesota-Fairview²; University of Minnesota³

(F219) Transesophageal Echocardiography Guidance for Transcatheter Correction of Mitral Paravalvular Leak After Transcatheter Mitral Valve Replacement (TMVR) Using an Occlusion Device

Alexander Bailey, MD¹; Moody Makar, MD¹; Cedars Sinai Medical Center¹

Fellow/Resident Complex Case Presentations

(F220) Unicuspid Aortic Valve Diagnosed by Transesophageal Echocardiography During Aortic Valve Replacement

Graham Berry, MD¹; Priya Kumar, MD¹; University of North Carolina¹

(F221) Use of TEE and Fluoroscopy to Facilitate Percutaneous Cardioplegic Arrest Prior to Sternal Re-Entry in a Patient With a Large Retro-Sternal Ascending Aortic Pseudoaneurysm

Bradley Hammond, DO¹; Anand Mehta, MD²; Cleveland Clinic Foundation¹; Cleveland Clinic²

(F222) Massive Pulmonary Embolism: Medical and Ethical Decision Making for VA ECMO

Lacey Straube, MD¹; Vishal Dhandha, MD¹; Robert Isaak, DO¹; Bryant Murphy; Lavinia Kolarczyk, MD¹; University of North Carolina¹

(F223) Degenerative Mitral Stenosis: Clinical Implications and the Caveats and Pitfalls of Echocardiographic Evaluation

Craig Davis, MD¹; Andrej Alfrevic, MD FASE¹; Cleveland Clinic¹

(F224) Disaster Averted: Spectacular Prosthetic Mitral Valve Dehiscence Without Insufficiency

Nathaniel Brown, MD PhD¹; Tamas Seres, MD²; University of Colorado¹; University of Colorado Denver²

(F225) Can I Go Home With That Balloon Pump?

Samit Ghia¹; Mark Chaney, MD¹; Valluvan Jeevanandam, MD¹; University of Chicago¹

(F226) Intracardiac Thrombus Following Recombinant Factor VIIa Administration

Vincent Reformato, MD¹; Faraz Chaudhry¹; Rutgers New Jersey Medical School¹

(F227) Veno-Arterial ECMO as a Bridge to Surgical Repair in the Setting of Post-Infarct Ventricular Septal Defect

Regina Linganna, MD¹; Jared Feinman, MD²; University of Pennsylvania¹; Hospital of the University of Pennsylvania²

(F228) Concurrent Administration of Activated Recombinant Coagulation Factor VII (NovoSeven RT[®]) and Prothrombin Complex Concentrate (Kcentra[®]) to Treat Refractory Coagulopathic Hemorrhage Following Aortic Valve Replacement, Ascending Aortic Arch Dissection Repair, and Coronary Bypass Graft

Christopher Larson, DO; Baylor Scott and White

(F229) Resection of Multiple Giant Coronary Aneurysms in a Blood Refusal Patient

Martin Sigurdsson, MD PhD¹; Claire Cuniff, MD¹; Carmelo Milano, MD²; Nicole Guinn, MD²; Brandi Bottiger, MD²; Duke University Hospital¹; Duke University²

(F230) Acquired Mechanical Left Ventricular Inflow Restriction After Orthotopic Heart Transplantation

Maria Bauer, MD¹; Nadia Hensley, MD¹; Johns Hopkins University¹

(F231) Transesophageal Echocardiography Findings and Intraoperative Management of Uncommon Robotic Assisted Anterior Mitral Valve Mass Resection

Matthew Troum, DO¹; Eric Wilkens, MD MPH²; Temple University Hospital¹; Temple University Hospitals²

(F232) Aorto-Pulmonary Artery Fistula After Orthotopic Heart Transplant

Ahmad Itani, DO¹; Prabhkiran Nakai, MD¹; Raj Modak, MD¹; Henry Ford Hospital¹

(F233) Approach to Post-Infarction VSD in the Hemodynamically Unstable Patient

Dustin Cooperman, MD¹; Galina Leyvi, MD¹; Jonathan Leff, MD¹; Stephen Forest, MD¹; Montefiore Medical Center¹

(F234) Severe Re-Expansion Pulmonary Edema Successfully Managed with Extracorporeal Membrane Oxygenation After Large Pleural Tumor Resection

James Leonard, MD¹; Michael Swong, MD²; Anna Jankowska, MD¹; New York University Langone Medical Center¹; New York University School of Medicine²

(F235) Intraoperative TEE for Combined Heart and Kidney Transplant in a Patient With Fabry Disease

Ryan Suda, MD¹; Swapnil Khoche, MD¹; University of California, San Diego¹

(F236) Early Detection and Management of Massive Intraoperative Pulmonary Embolism in a Patient Undergoing Repair of a Traumatic Acetabular Fracture

Tobechi Okoronkwo, MD¹; Matthew Wecksell, MD¹; Jessica Dworet, MD PhD¹; Westchester Medical Center¹

(F237) Ruptured Sinus of Valsalva Aneurysm Presenting With Myocardial Ischemia and Cardiogenic Shock

Elizabeth Kent, MD¹; Daniela Orza, MD¹; University of Minnesota¹

(F238) Extracorporeal Membrane Oxygenation as a Bridge to Recovery for Acute Rejection in a Heart Transplant Patient

John Hamilton, MD¹; Theresa Gelzinis, MD²; University of Pittsburgh Medical Center¹; University of Pittsburgh²

(F239) Unexpected Severe Pulmonary Hypertension Complicating Single Lung Transplantation

Michael Potter, MD¹; Andrew Schroeder, MD¹; Richard Wolman, MD MA¹; University of Wisconsin School of Medicine¹

(F240) Salvage Coronary Artery Bypass Grafting and ECMO Bridge to Decision

Allison Janda, MD¹; Meredith Kingeter, MD¹; Brian Gelfand, MD¹; Vanderbilt University Medical Center¹

(F241) Vigilance in the Immediate Postoperative Period Following Type A Dissection Repair: A Case of Sudden Lower Extremity Ischemia

Pavel Shapiro, MD¹; Matthew McConnell, MD¹; Allegheny Health Network¹

(F242) Management of a Patient With Aortic Stenosis and Left Ventricle Outflow Tract Obstruction: A Multidisciplinary Approach

Andrew Scharf, MD¹; Joseph Abro, MD¹; James Abernathy, MD MPH FASE FAHA¹; Medical University of South Carolina¹

(F243) Curious Cause of Systolic Anterior Motion: Congenital Mitral Valve Cleft Causing Dynamic LVOT Obstruction

Mehran Ebadi-Tehrani, MD¹; Jack Shanewise, MD FASE¹; Columbia University Medical Center¹

(F244) Left Atrial Dissection in AVR/CABG Secondary to Retrograde Catheter Placement

Taylor Carter, MD; Kansas University Physicians Inc.

(F245) Anticoagulation (AC) Management in a Patient With Protein C Deficiency and Hyperhomocysteinemia with End-Stage Heart Failure (HF) and Left Ventricular Assist Device (LVAD) Thrombus

Andrew Anderson, DO¹; Diane Head, MD²; University of Wisconsin Hospital and Clinics¹; University of Wisconsin-Madison²

Fellow/Resident Complex Case Presentations

Saturday, April 22, 5–6 pm (continued)

(F246) Perioperative Management of Aorto-Pulmonary Fistula Associated With Pseudoaneurysm

Zahid Merchant, MD¹; Sreekanth Cheruku, MD; Amanda Fox, MD MPH¹; University of Texas Southwestern Medical Center¹

(F247) Under Pressure: Management and Intraoperative TEE Imaging for Pericardectomy in the Setting of Constrictive Pericarditis

Gregory Mickus, MD¹; Archer Martin, MD¹; Jose Diaz-Gomez, MD²; Mayo Clinic Florida¹; Mayo Clinic²

(F248) Spinal Drain Placement in the Management of Extrapleural Pneumectomy After Preoperative Descending Thoracic Aorta Endograft Placement

Christopher Owsiak, MD¹; Daniel Tolpin, MD¹; Texas Heart Institute, Baylor St. Luke's Medical Center

(F249) Perioperative Management of an Adult With Double Inlet Left Ventricle and Pulmonary Atresia

Joseph Graham, MD¹; Sreekanth Cheruku, MD; Eugene Chung, DO¹; University of Texas Southwestern Medical Center¹

(F250) Intraoperative Inverted Left Atrial Appendage on Echocardiogram After Cardiac Transplantation

Bradley Graustein, MD¹; Tara Humphrey, DO²; University of Southern California¹; Keck Hospital of University of Southern California²

(F251) Epicardial Echocardiographic Guided Perventricular Repair of a Ventricular Septal Rupture in a Patient With an Impella and RVAD

Kristi Lorenzen, MD¹; Nicholas Markin, MD FASE²; Tara Brakke, MD FASE²; University of Nebraska Medical Center¹; University of Nebraska²

(F252) Mitral Valve Replacement and Mymectomy During ECMO Therapy

Qasim Al Hassan, MD¹; Mathew Waldron¹; University of Missouri-Kansas City¹

(F253) Intimo-Intimal Intussusception: TEVAR During TAVR

Thuan Ho, MD¹; Jessica Brodt, MD²; Stanford Health Care¹; Stanford University²

(F254) Systolic Anterior Motion of the Mitral Valve Following Separation From Cardiopulmonary Bypass After Cardiac Transplantation

David Garcia, DO MS¹; Jenny Kwak, MD¹; Loyola University Medical Center¹

(F255) Intraoperative Diagnosis of a Rare Sinus of Valsalva Pseudoaneurysm in a Patient With Bicuspid Aortic Valve Associated Aortopathy

Albert Tsai, MD¹; Sheela Pai Cole, MD¹; Stanford University¹

(F256) Interesting Presentation of Heparin Induced Thrombocytopenia After Mitral Valve Replacement

Abirami Kumaresan, MD¹; Peter Panzica, MD¹; Beth Israel Deaconess Medical Center¹

(F257) Stable Ventricular Fibrillation During LVAD Support

Juan Diaz Soto, MD¹; Shane Gillespie, DO¹; David W. Barbara, MD¹; Mayo Clinic¹

(F258) Diagnosis of a Right Ventricular Injury in a Patient With Cardiac Tamponade

Shawn Falitz, MD¹; Andra Duncan, MD MS²; Donn Marciniak, MD¹; Cleveland Clinic Foundation¹; Cleveland Clinic²

(F259) Combined Left Ventricular Reconstruction With HeartMate II Left Ventricular Assist Device Implantation as Bridge-to-Transplant Therapy

Oran Kremen, MD¹; Christopher Tanaka, MD²; Montefiore Medical Center¹; Montefiore Medical Center/Albert Einstein College of Medicine²

(F260) Multidisciplinary Team Management of a Rare Event of Infective Endocarditis in Pregnancy

Huan Wang, MD¹; Adam Weinstein, MD¹; Katherine Economy, MD MPH¹; Dirk Varelmann, MD¹; Brigham and Women's Hospital¹

(F261) Mechanical Problem Mimicking Significant Regurgitation Posttricuspid Valve Repair

Mary Margaret Lim, MD¹; Theresa Gelzinis, MD¹; Elizabeth Ungerman, MD MS²; University of Pittsburgh¹; University of Pittsburgh Medical Center²

(F262) Pulmonary Embolism During a Sickle Cell Crisis

Jessica Lumsden, DO¹; Edo Ginsburg, MD²; Jeongae Yoon, MD¹; Temple University Hospital¹; Temple University²

(F263) Emergency Transcaval TAVR for Afterload Reduction in Cardiogenic Shock

Shaun Patel, DO¹; Naushad Ahmed, DO¹; Michael Isley, MD¹; Jayakar Guruswamy, MD¹; Henry Ford Hospital¹

(F264) Lung Transplantation in a Patient With History of Acquired Hemophilia A

Laura Gonzalez, MD¹; Andrew Schroeder, MD²; Richard Wolman, MD MA²; University of Wisconsin¹; University of Wisconsin School of Medicine²

(F265) Complex Redo MitraClip: Role of TEE in Procedural Image Guidance and Novel Use of an Amplatzer Septal Occluder

Tiffany Perry, MD¹; Mark Reisman, MD²; Srdjan Jelacic, MD¹; James McCabe, MD¹; G. Burkhard Mackensen, MD PhD FASE¹; University of Washington¹

(F266) A Mitral Valve Replacement Was Aborted: Patient With Occult Aortic Coarctation, Patent Ductus Arteriosus, and Eisenmenger Syndrome

Justin Schulte, MD¹; Tamas Seres, MD²; Breandan Sullivan, MD²; University of Colorado¹; University of Colorado Denver²

(F267) Attempted Endovascular Repair of a Crawford Type Two Thoracoabdominal Aortic Aneurysm Complicated by Congenital Aortic Ring

Jennifer Evansmith, MD¹; Phillip Krapchew¹; University of Massachusetts Medical Center¹

(F268) TEE-Guided Usage of SVC Occlusion Balloon in the Management of SVC Laceration Following Laser Extraction of Implantable Cardioverter Defibrillator Lead

Mark Robitaille, MD¹; Diane Head, MD²; University of Wisconsin Hospital and Clinics¹; University of Wisconsin-Madison²

(F269) Anesthetic Management of an Acute Submassive Saddle Pulmonary Embolectomy

Sara Brown, MD¹; Srikantha Rao, MD MBBS MS¹; Scott Tiedebohl, MD¹; Penn State Hershey Medical Center¹

Fellow/Resident Complex Case Presentations

(F270) Formation of Malformation: Pulmonary Arteriovenous Malformations in the Setting of Post-Glenn Procedure Pulmonary Hypertension

Jordan Gozdziwski, MD¹; Austin Adams, MD¹; Sasha Shillcutt, MD MS FASE²; Nicholas Markin, MD FASE²; University of Nebraska Medical Center¹; University of Nebraska²

(F271) Acute Coronary Artery Occlusion by Primary Surgical Aortic Valve Leaflet During Valve-in-Valve Transcatheter Aortic Valve Replacement

Christopher Owen, MD¹; Logan Kosarek, MD²; Ochsner Clinic Foundation¹; Ochsner²

(F272) Intraoperative Diagnosis of Pulmonary Embolism and Deep Venous Thrombosis Using Point-of-Care Ultrasound and Transesophageal Echocardiography in Lung Transplant Recipient

Vladyslav Melnyk, MD¹; Dennis Phillips, DO¹; Stephen Esper, MD MBA²; Travis Schisler, MD FRCPC³; Kathirvel Subramaniam, MD MPH²; University of Pittsburgh Medical Center¹; University of Pittsburgh²; University of British Columbia³

(F273) TAVR in an LVAD Patient as Bridge to Recovery

Wendy Ma, MD¹; Jessica Brodt, MD²; Stanford Health Care¹; Stanford University²

(F274) Role of TEE in Placement of Percutaneous Right Ventricular Assist Device

Matthew Sabo, MD; University of Rochester

(F275) Conversion From Robotic MVR to Open MVR Due to Intraoperative TEE Finding of New Echodensity

Neil Kalariya, MD¹; Joshua Baisden, MD²; Daniel Cormican, MD¹; Allegheny Health Network¹; Allegheny General Hospital²

(F276) A Novel Use for the Teleflex® Arrow Multilumen Access Catheter (MAC) in the Conduct of Minimally Invasive Aortic Valve Surgery in a Patient With Difficult Cardiopulmonary Bypass Cannulation

Joseph Webb, MD¹; Chen Shi, MD¹; Amanda Fox, MD MPH¹; Ravi Joshi, MD¹; University of Texas Southwestern Medical Center¹

(F277) Subacute Pericardial Effusion in Left Ventricular Free Wall Rupture After Acute Myocardial Infarction

Jared Hooks, MD¹; Michael Haske, MD¹; Loyola University Medical Center¹

(F278) Ascending Aortic Dissection in a 24-Week Pregnant Woman

Jacob Lessing, MD¹; Benjamin Tuck, MD¹; University of Alabama at Birmingham¹

(F279) Combined Operative and Endovascular Management of Complex Stanford Type A Aortic Dissection

Austin Pulliam, MD¹; Sanjeev Chhangani, MD MBA²; University of Florida, Jacksonville¹; University of Florida College of Medicine, Jacksonville²

(F280) Transesophageal Echocardiographic Evaluation and Guidance During Placement of the Left Ventricle Parachute® Device

Joshua Kohtz, MD¹; Lisa Qia Rong, MD²; Nikolaos Skubas, MD DSc FACC FASE¹; Weill Cornell Medicine¹

(F281) Atrio-Esophageal Fistula After a Video-Assisted Thoroscopic Maze Procedure: Is EGD a Contraindication?

Robert Medearis, DO¹; Muhammad Salman Janjua, MBBS²; Ankit Jain, MD²; Shvetank Agarwal, MD FASE¹; Augusta University Medical Center/ Medical College of Georgia¹; Augusta University²

(F282) Successful Extraction of Right Atrial Thrombus by Angiovac System under TEE Guidance

Michael Kissen, MD¹; Rebecca Aron, MD¹; Danny Ramzy, MD PhD FRCSC; Cedars-Sinai Medical Center¹

(F283) Worsening of Preexisting Left Ventricular Outflow Obstruction After Transcatheter Aortic Valve Replacement

Laura Zung, MD¹; Rebecca Aron, MD¹; Cedars-Sinai Medical Center¹

(F284) Management of Mitral Clip Detachment in an Elective Mitral Valve Clipping

Philip Dela Merced, MD¹; Sandeep Krishnan, MD²; Wayne State University¹; Wayne State University School of Medicine²

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Exhibits Information

The following events will take place in the Exhibit Hall.

Saturday, April 22

Exhibits Open	Noon–4 pm
Lunch	Noon–1 pm
Coffee Break	3:30–4 pm

Sunday, April 23

Exhibits Open	7 am–3:30 pm and 5:30–6:30 pm
Breakfast	7–8 am
Coffee Breaks	10:30–11 am and 3–3:30 pm
Lunch	12:30–1:30 pm
Reception	5:30–6:30 pm

Monday, April 24

Exhibits Open	7–10:30 am
Breakfast	7–8 am
Coffee Break	10–10:30 am

Exhibitors

Exhibitor	Booth #	Exhibitor	Booth #
Abbott Structural Heart	415	Karl Storz Endoscopy-America, Inc.	314
Anesthesiology News	201	Masimo Corporation	202
Biomed Simulation	413	Medtronic	209
CASMED	301	Mennen Medical	411
Cerus	401	Mindray USA	309
Chiesi	203	National Board of Echocardiography, Inc.	214
Edwards Lifesciences LLC	302	Nonin Medical/Terumo Cardiovascular Group	407
Feel Good	414	NorthStar Anesthesia	315
Gator Medical Books	216	Ornim, Inc.	410
GE Healthcare	205	Philips Medical Systems	317
Grifols	316	Preferred Physicians Medical	304
HAEMONETICS	210	rEVO Biologics	417
Hawaiian Moon	212	Siemens Healthineers	206
HeartWorks	403	Teleflex	408
Helena Laboratories		TS Consulting	215
Huntsville Hospital Health System	416	Wolters Kluwer	217
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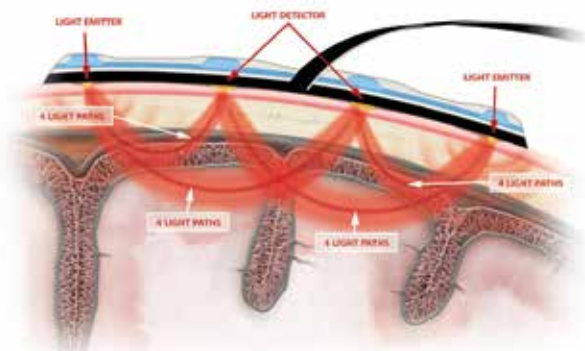
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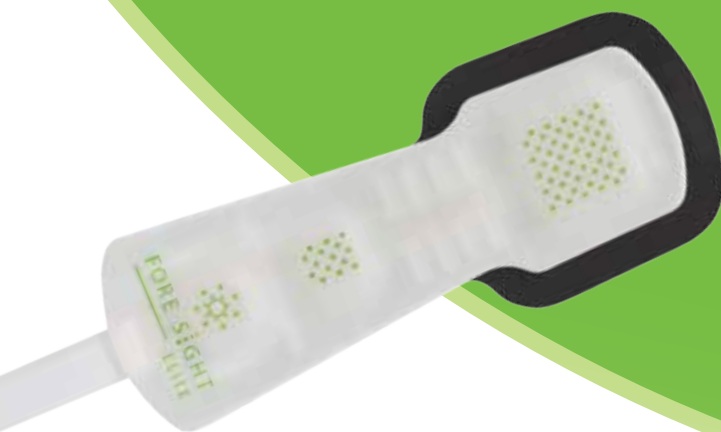
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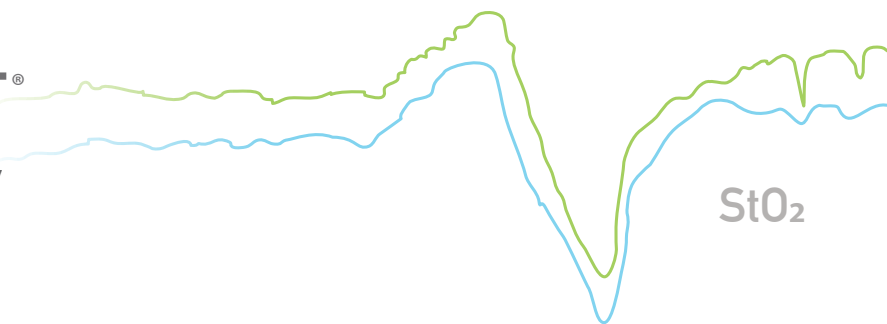
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