SCA 40th
ANNUAL MEETING PROGRAM BOOK
April 28–May 2, 2018
Phoenix, AZ
JW Marriott Phoenix Desert Ridge

7th Annual Thoracic Anesthesia Symposium
April 27, 2018

Experience the Innovation, Explore the Future of Medicine

Join the conversation:
#SCA2018AnnualMeeting
#SCA2018TAS

WiFi Network Name: JW Marriott_Conf    |    Password: SCA18
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HOW TO CONNECT

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

#SCA2018AM
#SCA2018TAS

It’s time to connect.

Find up-to-date information on the meeting by following @scahq on Twitter or liking the SCA Facebook page.
Welcome to this very special 40th Anniversary of the SCA Annual Meeting & Workshops and the 7th Annual Thoracic Anesthesia Symposium (TAS)! We are delighted to introduce the program and venue for these exceptional meetings. The educational agenda is full of innovative content designed to explore contemporary care and examine the best pathways to advance care for the future. These meetings are designed to allow those interested in the care of cardiovascular and thoracic surgical and interventional patients to stretch comfort zones, contemplate healthcare controversies, and extend their influence within the operating room and in the greater healthcare environment.

Each day features speakers from anesthesiology, surgery, cardiology, and intensive care medicine, and sessions will highlight content relevant to the practice of adult and pediatric cardiovascular and thoracic anesthesiology. The SCA Scientific Program and the TAS Program Committees have selected topics that will stimulate ideas, questions, discussion, and friendly debate.

We hope that you will enjoy key sessions such as the Mitral Valve Heart Team discussions, the combined SCA/STS Tricuspid Valve session, the Anesthesia and Analgesia: State-of-the-Art Patient Safety presentations, and the plenary session on Enhanced Recovery Pathways in Cardiac Surgery. The program also includes many choices for concurrent sessions on topics such as critical care, congenital heart disease, patient blood management, healthcare finance, anesthesiologist wellness, mechanical support, thoracic anesthesia updates, aortic surgery, and cardiac valve disease. A key attribute of our meetings is the availability and approachability of the faculty, which allows for great discussions and exchange of ideas with global leaders in cardiovascular anesthesiology.

Over the daily lunch breaks, you will have access to a broad range of high-quality scientific abstract poster presentations. Two oral abstract presentation sessions will feature this year’s top-scoring scientific abstract submissions as judged by a blinded panel of reviewers.

The exhibit hall will feature displays and booths from our supporters in the pharmaceutical, medical device, and software industries. Please visit the hall to learn about the latest technical developments relevant to our specialty.

Lastly, we hope you enjoy the sun, warmth, and relaxation of Arizona in the spring. At this time of year, Phoenix is arguably at its very best!

Warmest regards,

Amanda A. Fox, MD MPH
Scientific Program Committee Chair, 2016–2018

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

PBLDs are held each morning of the meeting from 7 to 8 am. See page 35 for PBLD schedule. See page 71 for TAS schedule.

**Saturday, April 28**

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<td>Grand Saguaro North/South</td>
<td>Refresher Course Lectures</td>
<td>Acute Aortic Syndromes</td>
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<td>Grand Saguaro N/S</td>
<td>Earl Wynands Lecture</td>
<td>SCA/STS: Tricuspid Valve</td>
<td>SOCCA Session</td>
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<td>Current Concepts in Cardiac Critical Care</td>
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<td>ASA Update, Keynote Lecture, SCA Awards, &amp; Business Meeting</td>
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General Information

The Society of Cardiovascular Anesthesiologists (SCA) Annual Meeting & Workshops and the Thoracic Anesthesia Symposium (TAS) are unique educational activities that allow anesthesiologists and other perioperative physicians and providers from around the world to come together and discuss key issues in delivering care to patients undergoing cardiovascular and thoracic surgeries.

CME Information

Attendees can review general continuing medical education (CME) information, including designation and accreditation information, learning objectives, and faculty disclosures by visiting www.scahq.org/2018annualmeeting or www.scahq.org/2018TAS.

How to Claim Your CME

To claim CME credit, visit www.scahq.org/2018annualmeeting or www.scahq.org/2018TAS and complete your 2018 meeting evaluations. You must complete the evaluations by August 1, 2018 to claim credit. The deadline will not be extended.

CME Accreditation

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

Designation

Annual Meeting: SCA designates this live activity for a maximum of 37 AMA PRA Category 1 Credit(s)™.

TAS: SCA designates this live activity for a maximum of 8.5 AMA PRA Category 1 Credit(s)™.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

HOW TO ACCESS MEETING MATERIALS

Annual Meeting and TAS abstracts, evaluations, handouts, and syllabi are only available electronically. To access them:

- Visit www.scahq.org/2018annualmeeting or www.scahq.org/2018TAS on your computer or laptop and click on the link to access our meeting app.
- Download the SCA meeting app to your mobile device or tablet. Search SCA 2018 in your app store or visit www.tripbuildermedia.com/apps/sca.

All preregistered attendees received meeting app login instructions prior to the start of the meeting. The meeting app can be accessed via a mobile device, tablet, or computer. Attendees will have access to meeting materials before, during, and after the meeting. Login with the email used in your registration and the password SCA18. If there are no handouts for a particular presentation, none were provided by the presenter. Meeting materials will be available through the fall of 2018.
Networking With Our Exhibitors

TAS exhibits will be located in Grand Sonoran F during the following hours:
Friday, April 27 ................................................................. 7 am–5:45 pm

Annual Meeting exhibits will be located in Grand Canyon 6–8 during the following hours:
Saturday, April 28 ............................................................... 3:30–4:30 pm
Sunday, April 29 ................................................................. 7 am–6:45 pm
Monday, April 30 ................................................................. 7 am–1:30 pm

All Annual Meeting attendees are welcome to join our exhibitors and sponsors in the exhibit hall from 5:45 to 6:45 pm on Sunday, April 29. Attendees will have the opportunity to enjoy light refreshments and network with colleagues and industry partners.

On Demand Product

Annual Meeting On Demand is an online library with more than 60 hours of educational content from the meeting, including TAS. Revisit sessions you attended and participate in those you missed—anytime, anywhere. Plus, earn additional CME credits. Visit the On Demand sales desk located in the Grand Sonoran Foyer to purchase the product onsite for a discounted rate!

Registration

The registration desk will be located in the Grand Sonoran Foyer during the following hours:
Thursday, April 26: 4–6 pm
Friday, April 27: 7 am–6 pm
Saturday, April 28: 6:30 am–6 pm
Sunday, April 29: 6:30 am–6 pm
Monday, April 30: 6:30 am–4 pm
Tuesday, May 1: 6:30 am–4 pm
Wednesday, May 2: 6:30–8:30 am

Speaker-Ready Room

The speaker-ready room will be located in Grand Sonoran I during the following hours:
Thursday, April 26: 4–6 pm
Friday, April 27: 7 am–6 pm
Saturday, April 28: 7 am–5:30 pm
Sunday, April 29: 7 am–5:30 pm
Monday, April 30: 7 am–4:30 pm
Tuesday, May 1: 7 am–4:30 pm

Committee Meetings

The schedule of SCA Committee Meetings can be found in your meeting app and at the registration desk.

Disclaimer

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

Photography

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

Video Recording

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

Use your mobile device or laptop to access information about the Annual Meeting and Thoracic Anesthesia Symposium. Download the 2018 meeting app to create a personalized meeting experience at your fingertips.

Search SCA 2018 in your app store to download the app or visit www.tripbuildermedia.com/apps/sca to access the app on your laptop!
SCA Leadership

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Mary Beth Brady, MD  
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Frederick C. Cobey, MD  
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Jonathan K. Ho, MD

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Keynote Lecture

**Healthcare Ideas for Tomorrow**

*Delos M. “Toby” Cosgrove, MD*

Dr. Delos “Toby” Cosgrove, president and CEO of Cleveland Clinic, is well known as a leader and visionary in pursuit of technological advancement in the field of cardiac surgery. During his keynote presentation, Dr. Cosgrove will discuss his perspective on healthcare, including how the care of cardiac surgical patients has evolved and how physicians will need to evolve for the future success of medicine. This session will be presented in an interview format, moderated by SCA President Dr. Christopher Trojanos.

Earl Wynands Lecture

**Clinical Trials and Cardiac Surgery**

*David Mazer, MD*

Co-sponsored by SCA, the SCA Foundation (SCAF), and the Canadian Anesthesiologists’ Society (CAS), this distinguished lecture, presented by Dr. David Mazer of the University of Toronto, will focus on clinical trials in cardiac surgery. Dr. Mazer is a world-renowned clinical trialist and clinical cardiac anesthesiologist and intensivist. His lecture will define where we are and what the future may hold for the use of clinical research trials to advance care of cardiovascular surgical patients.

SCA Distinguished Service Award Winner

**Robert N. Sladen, MBChB FCCM**

Dr. Sladen is a native of South Africa who graduated MBChB Summa cum Laude from the University of Cape Town Medical School in 1970, receiving the University Gold Medal for best graduate. He subsequently trained in internal medicine in South Africa and England, anesthesiology at the University of British Columbia in Vancouver, and critical care medicine at Stanford University.

Dr. Sladen is boarded in anesthesiology and critical care, and is a Fellow of the American College of Critical Care Medicine. Dr. Sladen practiced cardiac anesthesiology and critical care at Stanford University, Duke University, and Columbia University.

Dr. Sladen received prestigious teaching awards at Stanford, Duke, and Columbia Universities; was elected to the Virginia Apgar Teaching Academy at Columbia University; and is a recipient of the Shubin-Weil Master Clinician Award from the Society of Critical Care Medicine. He has served as chair of the board of trustees of the International Anesthesia Research Society, president of the Association of Anesthesiology Subspecialty Program Directors, and president of the Society of Critical Care Anesthesiologists, which in 2009 awarded him its Lifetime Achievement Award.

Dr. Sladen has been a member of SCA since 1981. He has served on the Annual Meeting Program Committee, the International Committee, and the Board of Directors.
Schedule

SUNDAY, APRIL 28

6:30 am–6 pm
Grand Sonoran Foyer
Registration Open

6:45–7:55 am
Grand Saguaro East/West
Explore Your Future: Structured Networking Circles
Moderator: Kathryn Glas, MD
This speed-networking-style breakfast is a structured opportunity for Fellows and Residents to meet accomplished leaders in the field of cardiovascular anesthesiology—face to face, in a small group setting.
Separate registration required. Please visit the registration desk for more information.

7–8 am
Problem-Based Learning Discussions (PBLDs)
See page 35 for full schedule. Separate registration required. Breakfast will be available in the Foyer of each room beginning at 6:30 am. The sessions will begin promptly at 7 am.

7–8 am
Sunset Lawn
Continental Breakfast

8–10 am
Grand Saguaro North/South
2018 Updates in Cardiac Anesthesiology—Refresher Course Lectures
Moderator: Amanda Fox, MD

8–8:25 am
Practice Guideline Updates for the Cardiac Anesthesiologist Martin London, MD

8:25–8:50 am
What Is Appropriate Blood Pressure During Adult and Pediatric Cardiac Surgery? Steffen Rex, MD

8:50–9:15 am
Updates in Cardiopulmonary Bypass Eugene Hessel, MD

9:15–9:40 am
Pharmacology and the Cardiac Surgical Patient David Roth, PhD

9:40–10 am
Panel Discussion and Audience Q&A

8–11 am
Morning Workshops
See page 32 for full schedule. Separate registration required.

10–10:30 am
Sunset Lawn
Coffee Break
**10:30 am–Noon**  
**Acute Aortic Syndromes**  
*Moderator: Yasdet Maldonado, MD*

- **10:30–10:50 am**  
  Beyond Echo—State-of-the-Art Imaging for Evaluation of Acute Aortic Syndromes  
  *Brian Ghoshhajra, MD*

- **10:50–11:20 am**  
  Evolving Surgical Approaches to Treatment of Acute Aortic Syndromes Involving the Ascending Aorta, Aortic Arch, and/or Descending Aorta  
  *Brad Taylor, MD*

- **11:20–11:40 am**  
  Anesthetic Management for Repair of Acute Aortic Syndromes  
  *Albert Cheung, MD*

- **11:40 am–Noon**  
  Case-Based Panel Discussion and Audience Q&A

**10:30 am–Noon**  
**Atrial Fibrillation in Cardiac and Thoracic Surgical Patients**  
*Moderator: Jonathan Ho, MD*

- **10:30–10:50 am**  
  Mechanisms of Perioperative Arrhythmia 101  
  *Aman Mahajan, MD*

- **10:50–11:10 am**  
  Application of Atrial Fibrillation Risk Models in Clinical Care of Cardiac Surgical Patients  
  *Nathan Waldron, MD*

- **11:10–11:30 am**  
  SCA Atrial Fibrillation Continuous Practice Improvement Workgroup: Moving Recommendations to Reality in Cardiac Surgical Patients  
  *J. Danny Muehlschlegel, MD*

- **11:30–11:50 pm**  
  Prevention and Treatment of Atrial Fibrillation in Thoracic Surgical Patients  
  *Alessia Pedoto, MD*

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

**11 am–Noon**  
**(Fellow/Resident) Complex Case Poster Presentations: Session 1**

**Noon–1 pm**  
**Lunch on Your Own**  
Quick service menus available at Stonegrill and Twenty6, along with Grab ‘n Go available in the Starbucks foyer. Other onsite restaurants also available.

**1–3:30 pm**  
**Challenges in Perioperative Assessment and Treatment of Mitral Valve Disease**  
*Moderators: Frederick Cobey, MD; J. Mauricio Del Rio, MD*

- **1–1:20 pm**  
  Evolving Solutions for Limitations of Guidelines and Metrics for Evaluation Mitral Regurgitation  
  *Natesa Pandian, MD*

- **1:20–1:40 pm**  
  Limitations of Echocardiographic Grading of Mitral Regurgitation  
  *Filippo Sanfilippo, MD*

- **1:40–2 pm**  
  Controversies in Surgical Management of Mitral Valve Regurgitation  
  *Frederick Chen, MD*

- **2–2:20 pm**  
  Controversies in Catheter-Based Interventions for Management of Mitral Regurgitation  
  *Mary Bechis, MD*

- **2:20–2:40 pm**  
  Challenges in Echocardiographic Guidance for Catheter-Based Mitral Repairs  
  *G. Burkhard Mackensen, MD*

- **2:40–3:30 pm**  
  Case-Based Panel Discussion
SATURDAY, APRIL 28 (continued)

1–3:30 pm Grand Sonoran E
Coagulation Management in Cardiovascular Surgery
Moderator: Priya Kumar, MD
1–1:25 pm Pharmacologic Strategies to “Balance” Coagulation: Aminocaproic Acid, Tranexamic Acid, DDAVP Michael Mazzeffi, MD
1:25–1:50 pm Factor Concentrates: Heroes or Villains? Kenichi Tanaka, MD
1:50–2:15 pm Reversal of Anticoagulation Beyond Protamine: Andexanet Alfa, Heparinase, Vitamin K, and More Kamrouz Ghadimi, MD
2:15–2:40 pm Viscoelastography and Management of the Cardiac Surgical Patient Carlos Galhardo, MD
2:40–3:10 pm Case-Based Panel Discussion
3:10–3:30 pm Panel Discussion and Audience Q&A

1–3:30 pm Grand Canyon 9–12
Fellow and Resident Program
See page 37 for full schedule of Fellow/Resident programming.

1–4 pm Afternoon Workshops
See page 32 for full schedule. Separate registration required.

3:30–4:30 pm Grand Canyon 6–8
Coffee Break With Exhibitors

4–5 pm Grand Canyon 9–12
(Fellow/Resident) Complex Case Discussion with Expert Panel
See page 37 for full schedule of Fellow/Resident programming. 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 Grand Saguaro North/South
Aortic Stenosis: SAVR vs TAVR—Who Wins the Fight?
Moderator: G. Burkhard Mackensen, MD
4–4:20 pm State of the Art: Severe Aortic Stenosis—When AVR? Natesa Pandian, MD
4:20–4:40 pm Dynamics of the Heart Team Approach to TAVR vs SAVR Douglas Shook, MD
4:40–5 pm Moving Toward TAVR in Lower Risk Groups Mias Pretorius, MD
5–5:20 pm When the Unplanned Happens: Management of Complications in TAVR vs SAVR Srdjan Jelacic, MD
5:20–5:30 pm Panel Discussion and Audience Q&A
We Have Always Done It That Way...But Should We? Mitigating Acute Kidney Injury: Hemodynamics, Fluids, and Renal Support

Moderator: Andrew Weisinger, MD

4–4:30 pm Do We Matter? The Effects of Our Intraoperative Hemodynamic Management on AKI Viachaslau Barodka, MD

4:30–5 pm Does Our Intraoperative Fluid Management Make a Difference? Fluids In? Fluids Out? Frederic Billings, MD

5–5:30 pm Is the Die Cast? Goals of Care in First 48 Hours Postop to Protect the Kidneys and the Patient Joseph Meltzer, MD

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

SUNDAY, APRIL 29

6:30 am–6 pm Grand Sonoran Foyer

Registration Open

7–8 am

Problem-Based Learning Discussions (PBLDs)

See page 35 for full schedule. Separate registration required. Breakfast will be available in the Foyer of each room beginning at 6:30 am. The sessions will begin promptly at 7 am.

7–8 am Grand Canyon 6–8

Continental Breakfast With Exhibitors

8–9 am Grand Saguaro North/South

Earl Wynands Lecture

Moderator: Amanda Fox, MD

Clinical Trials and Cardiac Surgery David Mazer, MD

9–10:30 am Grand Saguaro North/South

SCA/STS: Tricuspid Valve: Multidisciplinary Approaches to Complex Pathology

Moderator: Stanton Sherman, MD

9–9:20 am Tricuspid Regurgitation: When to Address Surgically During Left-Sided Valve Surgery Prem Shekar, MD

9:20–9:40 am Percutaneous Tricuspid Valve Repair Therapies Robert Siegel, MD

9:40–10 am Echocardiography in Tricuspid Valve Decision Making Stanton Sherman, MD

10–10:30 am Case-Based Panel Discussion

9 am–Noon Morning Workshop

See page 32 for full schedule. Separate registration required.
10:30–11 am
Coffee Break With Exhibitors

11 am–12:30 pm
Understanding and Preventing Burnout in Cardiothoracic Anesthesiologists
Moderator: Tara Brakke, MD

- 11–11:25 am: Burnout in the Trainee: What Is the ACGME Doing? Annemarie Thompson, MD
- 11:50 am–12:15 pm: Developing Resilience: Tools to Find Your Best Self Sasha Shillcutt, MD
- 12:15–12:30 pm: Panel Discussion and Audience Q&A

11 am–12:30 pm
Anesthesia & Analgesia State of the Art: Patient Safety
Moderator: W. Scott Beattie, MD

- 11–11:25 am: You Need Data: Monitoring and Improving Patient Safety W. Scott Beattie, MD
- 11:25–11:50 am: Effectiveness of Current Methods for Decreasing Medication Errors in Perioperative Medicine Ludwik Fedorko, MD
- 11:50 am–12:15 pm: Root Cause Analysis, the Final Frontier: A Critical Element for Improving Patient Safety Norman Buckley, MD
- 12:15–12:30 pm: Panel Discussion and Audience Q&A

11 am–12:30 pm
SOCCA Session—Identifying Preoperative Considerations for Optimizing Postoperative Outcomes in the Cardiac Surgical Intensive Care Unit
Moderator: Shahzad Shaefi, MD

- 11–11:20 am: Frailty in Cardiac Surgery: What Does It Mean and What Can We Do? Charles Brown, MD
- 11:20–11:40 am: Glycemic Control—Where Do We Stand in 2018? Douglas Coursin, MD
- 11:40 am–Noon: Neurocognition and Delirium in the ICU for Our Cardiac Surgical Patients: Has the Pendulum Shifted? Christopher Hughes, MD
- Noon–12:20 pm: Preoperative Anemia in Postoperative Outcomes—What’s New? Steven Hill, MD
- 12:20–12:30 pm: Panel Discussion and Audience Q&A

12:30–1:30 pm
Lunch With Exhibitors

Scientific Program Poster Presentations: Session 1 (Non-CME)
Cardiac Anesthesia
See page 41 for full abstract list.
1:30–3 pm  Grand Saguaro North/South

**EACTA: Update on Heart Failure Management**
* Moderator: Donna Greenhalgh, MD

1:30–1:50 pm  Perioperative Inotrope Management: Levosimendan vs PDEIII Inhibitors  
* **Michael Sander, MD**

1:50–2:10 pm  Are Catecholamines So Toxic?  
* **Miguel Garcia**

2:10–2:30 pm  IABP, Impella, LVAD vs BIVAD?  
* **Steffen Rex, MD**

2:30–2:50 pm  Right Ventricular Assessment for LVAD and When to Wean Temporary Support  
* **Marian Kukucka, MD**

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

1:30–3 pm  Grand Sonoran E

**Controversies in Major Organ Transplantation**
* Moderator: Priya Kumar, MD

1:30–1:50 pm  Cardiac Transplantation in 2018: Anesthetic Management  
* **Alina Nicoara, MD**

1:50–2:10 pm  Lung Transplantation: To ECMO or Not?  
* **Stuart Weiss, MD**

2:10–2:30 pm  Ex-Vivo Protection of the Donor Lung  
* **Yong Peng, MD**

2:30–2:50 pm  Challenges With Combined Transplants  
* **Sreekanth Cheruku, MD**

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

1:30–3 pm  Grand Sonoran F–G

**Interventional Arrhythmia Management: From the Electrophysiology (EP) Lab to the OR and Back Again**
* Moderator: Jonathan Ho, MD

1:30–1:55 pm  Multidisciplinary Heart Team Management for Complex EP Patients  
* **Noel Boyle, MD**

1:55–2:20 pm  A Surgeon’s View of EP Patients and Procedures  
* **Gregory Couper MD**

2:20–2:40 pm  Pro/Con Debate: EP Lab—Does a Cardiac Anesthesiologist Need to Be Here?  
  Pro:  
  * **Jacques (Prince) Neelankavil, MD**
  Con:  
  * **Jochen Steppan, MD**

2:40–3 pm  Panel Discussion and Audience Q&A

1:30–4:30 pm  Grand Canyon 6–8

**Afternoon Workshop**
See page 32 for full schedule. Separate registration required.

3–3:30 pm  Grand Saguaro North/South

**Coffee Break With Exhibitors**

3:30–5 pm  Grand Saguaro North/South

**Super Echo Panel**
* Co-Organizers: Mary Beth Brady, MD; Kathryn Glas, MD  
  Moderator: Kathryn Glas, MD  
  Panelists: Joshua Zimmerman, MD; Alan Finley, MD; Donna Greenhalgh, MD

(Se1) An Undiagnosed Finding Using Transesophageal Echocardiography During Transcatheter Aortic Valve Replacement  
* Derek Lodico; Feroze Mahmood, MD
SUNDAY, APRIL 29 (continued)

(SE2) Echo Rubik’s Cube: Elevated Pressure Gradients in 3 Different Patients 1 year Post TAVR With Normal Functioning Prosthesis
Tariq Naseem, MD; Yoko Kagemoto, MD; Fred Cobey, MD

(SE3) Percutaneous Closure of a Complex Persistent Shunt After a Previous Percutaneous Patent Foramen Ovale Closure
Shvetak Agarwal, MD; Surbhi Mathur; Melissa Lamrissi, MD; Sean Javaheri, DO; Zahid Amin, MD

(SE4) Right Ventricular Outflow Tract Obstruction in Hypertrophic Cardiomyopathy Patient with Biventricular Hypertrophy
Kevin Wong, DO; Jennifer Hargrave, DO

(SE5) Severe Prosthetic Mitral Stenosis Masquerading as Severe Aortic Insufficiency
Joshua Knight, MD; Mariya Geube, MD

(SE6) Live 3D TEE and Seldinger Technique for a Difficult Coronary Sinus Cannulation
Sridhar Musuku, MD; Dmitriy Yukhvid, MD

(SE7) Near Total Occlusion of Right Ventricle by Cardiac Mass—An Echocardiographic and Anesthetic Challenge
Samhati Mondal, MD; Megan Kostibas, MD; John Jubar, MD

(SE8) Echocardiographic Assessment and Impact of Unrecognized Aortic to Left Ventricular Outflow Tract Fistula in a High-Risk Redo Cardiac Surgical Patient
Alex Leone, MD; Andrej Alfirevic, MD

3:30–5 pm                  Grand Sonoran F–G
Managing Patients on Extracorporeal Membrane Oxygenation
Moderator: J. Mauricio Del Rio, MD

3:30–3:55 pm
Everything You Needed to Know About ECMO: Indications, Cannulas, and Echo Approach Daryl Oakes, MD

3:55–4:20 pm
Troubleshooting and Managing Pitfalls of ECMO Jacob Gutsche, MD

4:20–4:45 pm
Weaning ECMO Eric Ursprung, MD

4:45–5 pm
Panel Discussion and Audience Q&A

3:30–5:45 pm                  Grand Sonoran E
Best of Meeting Oral Abstract Presentations: Session 1
Moderator: W. Scott Beattie, MD
See page 39 for full abstract list.

5:45–6:45 pm                  Grand Canyon 6–8
Reception With Exhibitors

7:30–10:30 pm
40th Anniversary Celebration Reception
Join us for SCA’s 40th Anniversary Celebration at the Musical Instrument Museum (MIM) in Phoenix. Enjoy a night of sips, nibbles, and community with your colleagues. Your ticket ($150; purchase at registration desk) includes one free drink, appetizers, and access to first-floor galleries at the MIM.
- Guests will receive an exchange ticket, which must be brought to the event.
- Round-trip transportation will be available for guests from the JW Marriott Phoenix Desert Ridge to the MIM. Parking is available at the MIM. See your ticket for details.
- Cocktail attire is requested.
MONDAY, APRIL 30

6:30 am–4 pm Grand Sonoran Foyer
Registration Open

7–8 am
Problem-Based Learning Discussions (PBLDs)
See page 35 for full schedule. Separate registration required. Breakfast will be available in the Foyer of each room beginning at 6:30 am. The sessions will begin promptly at 7 am.

7–8 am Grand Canyon 6–8
Continental Breakfast With Exhibitors

8–10 am Grand Saguaro North/South
Enhanced Recovery After Cardiac Surgery (ERACS)
Moderators: Priya Kumar, MD; Frederic Billings, MD

8–8:25 am Lessons Learned From Noncardiac Surgery ERAS Pathways
Gabriel Mena, MD

8:25–8:50 am Making the Case for ERAS Pathway for Cardiac Surgery Stuart Weiss, MD

8:50–9:15 am Building the ERACS Pathway Adam Kingeter, MD

9:15–9:40 am Execution and Implementation of the ERACS Pathway—Strategies to Develop, Implement, and Support an ERACS Pathway Kenneth Catchpole, PhD

9:40–10 am Panel Discussion and Audience Q&A

10–10:30 am Grand Canyon 6–8
Coffee Break With Exhibitors

10:30–11 am Grand Saguaro North/South
ASA Update
Moderator: Christopher Troianos, MD
James Grant, MD, ASA President

11 am–Noon Grand Saguaro North/South
Keynote Lecture
Moderator: Christopher Troianos, MD
Healthcare Ideas for Tomorrow Delos “Toby” Cosgrove, MD

Noon–12:10 pm Grand Saguaro North/South
Research/Kaplan/Distinguished Service Awards
Moderators: J. Danny Muehlschlegel, MD; Tjorvi Perry, MD; Amanda Rhee, MD; Christopher Troianos, MD

12:10–12:30 pm Grand Saguaro North/South
SCA Business Meeting
Moderator: Christopher Troianos, MD
12:30–1:30 pm Grand Canyon 1–8
Lunch With Exhibitors

Scientific Program Poster Presentations: Session 2 (Non-CME)
Basic Science, Critical Care, Echocardiography, Perioperative Medicine, Structural Heart
See page 45 for full abstract list.

1:30–3 pm Grand Sonoran E
Navigating Ventricular Support: When VAD Goes Bad
Moderator: James Anton, MD
1:30–1:50 pm My Patient Needs Mechanical Support: Which One?
   Marc Stone, MD
1:50–2:10 pm Mechanical Support for the Failing Right Heart
   Nicholas Markin, MD
2:10–2:30 pm Complications of Temporary VAD Support
   Timothy Hayes, MBCHb
2:30–3 pm Case-Based Panel Discussion and Audience Q&A

1:30–3 pm Grand Sonoran F–G
CCAS: Adult Congenital Heart Disease—Challenges in a Growing Population
Moderators: Lisa Wise-Faberowski, MD; Michael Eaton, MD
1:30–1:55 pm Adult Congenital Heart Disease in 2017: History, Physiology, Prognosis, and Procedures
   Lisa Wise-Faberowski, MD
1:55–2:40 pm What Is the Right Setting for Care and for Training for Adult Congenital Heart Patients?
   View 1: Congenital Heart Disease Is a Pediatric Problem That Requires a Pediatric Hospital and Pediatric Trained Cardiac Anesthesiologists
   Viviane Nasr, MD
   View 2: Adult Congenital Heart Disease Is an Adult Problem That Requires an Adult Hospital and Adult Trained Cardiac Anesthesiologists
   Gregory Janelle, MD
   View 3: Shouldn’t I Get a Voice? The Patient’s Perspective
   Taylor Ezikian, MSW
2:40–3 pm Panel Discussion and Audience Q&A

1:30–3 pm Grand Sonoran A–D
Researching the Organs—The Science of Organ Protection
Moderator: J. Danny Muehlschlegel, MD
1:30–1:50 pm Myocardial Ischemia-Reperfusion Injury
   David Roth, PhD
1:50–2:10 pm Protecting the Central Nervous System
   Thomas Floyd, MD
2:10–2:30 pm Protecting the Kidney
   Frederic Billings, MD
2:30–2:50 pm Protecting the Gut
   Erik Kistler, MD
2:50–3 pm Panel Discussion and Audience Q&A

3–3:30 pm Sunset Lawn
Coffee Break
3:30–5 pm  
Grand Sonoran F–G

**Practical Approaches to Measuring and Improving Quality**
Moderator: James Abernathy, MD

- 3:30–3:50 pm  
  Clinical Practice Improvement (CPI) and the SCA: What, How, and Why? Nanette Schwann, MD

- 3:50–4:10 pm  
  Quality Metrics in Cardiac Anesthesiology: Are There Any? Laurent Glance, MD

- 4:10–4:30 pm  
  How Are We Doing? Getting Clinical Care Data and Demonstrating Value to Your Hospital Avery Tung, MD

- 4:30–4:50 pm  
  Handover Redesign: Methods and Measures for Detecting (and Sustaining) Improvement Philip Greilich, MD

- 4:50–5 pm  
  Panel Discussion and Audience Q&A

3:30–5 pm  
Grand Sonoran E

**Current Concepts in Cardiac Critical Care**
Moderator: Andrew Weisinger, MD

- 3:30–3:50 pm  
  Resuscitation of the Postcardiac Surgery Patient in 2018 Michael Sander, MD

- 3:50–4:10 pm  
  New Strategies for Mechanical Ventilation in the Cardiac Intensive Care Unit Daniel Johnson, MD

- 4:10–4:30 pm  
  Sleep Disturbances After Cardiovascular Surgery: Is It Important for Our Patients? Dong-Xin Wang, MD

- 4:30–4:50 pm  
  Vasopressin vs Norepinephrine in Patients With Vasoplegic Shock After Cardiac Surgery Colin Royse, MD

- 4:50–5 pm  
  Panel Discussion and Audience Q&A

3:30–6 pm  
Grand Sonoran A–D

**Best of Meeting Oral Abstract Presentations: Session 2**
Moderator: Michael Eaton, MD

This session will include abstract presentations by the recipients of the SCA Fellow and Resident Travel Grants. See page 40 for full abstract list.

5–6 pm  
Grand Saguaro North/South

**Fireside Chat: Career After Fellowship—How to Manage and Grow?**
Moderator: Tara Brakke, MD

Panelists: James Abernathy, MD; W. Travis Lau, MD; Tjorvi Perry, MD; Sasha Shillcutt, MD; Linda Shore-Lesserson, MD; Christopher Troianos, MD; Andrew Weisinger, MD

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**TUESDAY, MAY 1**

6:30 am–4pm  
Grand Sonoran Foyer

**Registration Open**

7–8 am  
Grand Sonoran Foyer

**Problem-Based Learning Discussions (PBLDs)**
See page 35 for full schedule. Separate registration required. Breakfast will be available in the Foyer of each room beginning at 6:30 am. The sessions will begin promptly at 7 am.
TUESDAY, MAY 1 (continued)

7–8 am Continental Breakfast
Sunset Lawn

8–10 am Right Ventricle: Let’s Get It Right!
Grand Saguaro North/South

Moderators: Frederick Cobey, MD; J. Mauricio Del Rio, MD

8–8:20 am Understanding and Managing Right Ventricular Dysfunction in the Intraoperative Setting
Dalia Banks, MD

8:20–8:40 am Indications, Timing, and Titration of Various Inhaled and Oral Pulmonary Vasodilators
Andre Denault, MD

8:40–9 am Echocardiographic Evaluation of the Right Ventricle
Sasha Shillcutt, MD

9–9:20 am Managing Right Ventricular Failure in the Critical Care Setting
Tariq Naseem, MD

9:20–10 am Case-Based Panel Discussion and Audience Q&A

10–10:30 am Coffee Break
Sunset Lawn

10:30 am–Noon New Frontiers in Interventional Echocardiography
Grand Sonoran F–G

Moderator: Nelson Thaemert, MD

10:30–10:45 am TAVR: Is Transthoracic Echocardiography as Good as TEE?
Alina Nicoara, MD

10:45–11 am Beyond TAVR: What Can Go Wrong With Transcatheter Replacement of the Other 3 Valves?
Isaac Wu, MD

11–11:15 am Postprocessing Measurements: Is There a Role for Real-Time Analysis?
Georges Desjardins, MD

11:15–11:30 am Left Atrial Appendage Occluders: What to Look for and Why?
Douglas Shook, MD

11:30–11:45 am Key Elements of Guiding a Mitraclip Procedure
Srdjan Jelacic, MD

11:45 am–Noon Panel Discussion and Audience Q&A

10:30 am–Noon Moving Toward Value-Based Reimbursement in Cardiac Anesthesia: A Primer for the Provider
Grand Sonoran E

Moderators: Bruce Bollen, MD; Tjorvi Perry, MD

10:30–10:55 am Value-Based Payment Models
Gordon Morewood, MD

10:55–11:20 am MACRA, MIPS, APMs, and ACOs
Alexander Hannenberg, MD

11:20–11:45 am Bundled Cardiac Payment Models: Governmental, Employer, and Purchaser Trends
David Reich, MD

11:45 am–Noon Panel Discussion and Audience Q&A
10:30 am–Noon  
**Grand Sonoran A–D**

### 2018 Updates in Thoracic Anesthesiology

*Moderator: Ferenc Puskas, MD*

- **10:30–10:50 am**: Preoperative Optimization of the Thoracic Surgical Patient. *Wanda Popescu, MD*
- **10:50–11:10 am**: One-Lung Ventilation: Hypoxemia and Oxygen Delivery. *Ferenc Puskas, MD*
- **11:10–11:30 am**: Scopes, Tubes, and Stents: Interventional Pulmonology. *Alessia Pedoto, MD*
- **11:30–11:50 am**: New Frontiers of Fluid Management: Role of Glycocalyx. *Jens Lohser, MD*
- **11:50 am–Noon**: Panel Discussion and Audience Q&A

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**Noon–1 pm**  
**Grand Canyon 1–5**

**Lunch on Your Own**

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

**Case Reports, Coagulation, Quality Improvement**

*See page 49 for full abstract list. Quick service menus available at Stonegrill and Twenty6, along with Grab ’n Go available in the Starbucks foyer. Other onsite restaurants also available.*

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**1–2:30 pm  
Grand Sonoran F–G**

### POCUS, FOCUS, FAST, and FATE! What Does This Ultrasound Alphabet Soup Have to Do With Me?

*Moderator: Mary Beth Brady, MD*

- **1–1:15 pm**: Call to Action: Perioperative Ultrasound Training in Anesthesiology. *Feroze Mahmood, MD*
- **1:15–1:35 pm**: Rescue TTE—The Future Is Here. Benefits and Limitations of Rescue TTE. *Tara Brakke, MD*
- **1:35–1:55 pm**: How Fast Is FAST and What Is in FOCUS? What Do These Mean and Who Are They For? *Joshua Zimmerman, MD*
- **1:55–2:15 pm**: A Leadership Perspective on the Evolution of Ultrasound Practice—How We Got Here and Where We Are Going. *Douglas Shook, MD*
- **2:15–3 pm**: Panel Discussion and Audience Q&A

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**1–2:30 pm  
Grand Sonoran A–D**

### ECMO: A Bridge Too Far?

*Moderators: Michele Sumler, MD; J. Danny Muehlschlegel, MD*

- **1–1:05 pm**: Overview of the SCA Ethics Committee. *Michele Sumler, MD*
- **1:05–1:25 pm**: Ethical Principles in Advanced Circulatory Support. *Kenneth Prager, MD*
- **1:25–1:45 pm**: Clinical and Ethical Challenges Regarding ECMO Surgical Decision Making: Building Bridges. *Jacob Gutsche, MD*
- **1:45–2:05 pm**: Implications of ECMO in Critical Care: Where Does This Bridge Go? *Natalia Ivascu, MD*
- **2:05–2:30 pm**: Case-Based Panel Discussion. *Shahzad Shaefi, MD*
1–2:30 pm
**Grand Sonoran E**

**Improving Neurologic Outcome After Cardiac Surgery**

Moderators: Yasdet Maldonado, MD; G. Burkhard Mackensen, MD

- 1–1:20 pm Update from SCA Clinical Practice Improvement Subcommittee Working Group on Cerebral Protection *G. Burkhard Mackensen, MD*
- 1:20–1:40 pm Best Practices for Assessing the Atheromatous Burden of the Aorta *Arno Nierich, MD*
- 1:40–2 pm Patient-Specific Blood Pressure Management: Beyond the Lassen Curve and the Goldilocks Principle *Charles Hogue, MD*
- 2–2:20 pm Cerebral Protection During Percutaneous Structural Heart Interventions: What Do I Need to Know? *Hilary Grocott, MD*
- 2:20–2:30 pm Panel Discussion and Audience Q&A

2:30–3 pm
**Sunset Lawn**

**Coffee Break**

3–4:30 pm
**Grand Sonoran E**

**Big Data and Clinical and Fiscal Decision Making**

Moderators: Miklos Kertai, MD; Bruce Bollen, MD

- 3–3:20 pm Show Me the Data—How Big Data Can Be Made Visible and Understandable Research *Atilio Barbeito, MD*
- 3:20–3:40 pm How Big Data Helped Me With My Business Decisions *Christopher Troianos, MD*
- 3:40–4 pm Role of Big Data in Clinical Research—the STS/SCA Database *Miklos Kertai, MD*
- 4–4:20 pm Role of Big Data in Clinical Research—the MPOG Database *Randal Blank, MD*
- 4:20–4:30 pm Panel Discussion and Audience Q&A

3–4:30 pm
**Grand Sonoran F–G**

**Blood Transfusion/Patient Blood Management**

Moderator: Jenny Kwak, MD

- 3–3:20 pm SCA Continuous Practice Improvement Committee Update on Blood Product Management *W. Travis Lau, MD*
- 3:20–3:40 pm No One Wants a Transfusion: Perioperative Blood Management Strategies Across the Surgical Encounter *Philip Greilich, MD*
- 3:40–4 pm What Does the Best Science Tell Us? Randomized Trials in Transfusion *Mike Mazzeffi, MD*
- 4–4:20 pm Banked Blood: Storage, Washing, Leukoreduction, Radiation, and Other Horrors *Jacob Raphael, MD*
- 4:20–4:30 pm Panel Discussion and Audience Q&A

TUESDAY, MAY 1 (continued)
3–4:30 pm  
**International Perspectives on Cardiac Anesthesiology**  
*Grand Sonoran A–D*  
Moderators: Davy Cheng, MD; Scott Reeves, MD  
3–3:20 pm  
Cardiac Surgery and Anesthesia in China: Anesthesia Management Outcomes *Hushan Ao, MD*  
3:20–3:40 pm  
Rheumatic Heart Disease: Perioperative Monitoring and Management *Carlos Galhardo, MD*  
3:40–4 pm  
ECMO vs VAD: Indications and Management in India *Yatin Mehta, MD*  
4–4:30 pm  
Panel Discussion and Audience Q&A

4:30–6 pm  
**Echo Jeopardy!**  
*Grand Saguaro North/South*  
Moderators: Andrew Maslow, MD; Peter Panzica, MD; Feroze Mahmood, MD

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**WEDNESDAY, MAY 2**

6:30–8:30 am  
**Registration Open**  
*Grand Sonoran Foyer*

7–8 am  
**Problem-Based Learning Discussions (PBLDs)**  
See page 35 for full schedule. Separate registration required. Breakfast will be available in the Foyer of each room beginning at 6:30 am. The sessions will begin promptly at 7 am.

7–8 am  
**Continental Breakfast**  
*Grand Sonoran Foyer*

8–11 am  
**Morning Workshop**  
See page 32 for full schedule. Separate registration required.

8–11 am  
**(Fellow/Resident) Perioperative TEE Review Session**  
*Grand Sonoran F–G*  
See page 37 for full schedule of Fellow/Resident programming.
Schedule: Workshops and PBLDs

Workshop Coordinator: Sasha Shillcutt, MD
Separate registration required.

SATURDAY, APRIL 28

8–11 am

**Grand Sonoran A–D**

**Workshop 1: Hands-On TTE**
Moderators: Tara Brakke, MD; Gregory Janelle, MD

**Presentations:**
- Comparison Views: TTE vs TEE *Heather Reed, MD*
- The Basic Exam *Ravi Joshi, MD*
- How TTE Has Expanded My Practice *Nicholas Markin, MD*

**Station Faculty:**
- *Walker Thomas, BA*
- *Jacob Gutsche, MD*
- *Nicholas Markin, MD*
- *Heather Reed, MD*
- *Georges Desjardins, MD*
- *Ravi Joshi, MD*
- *Kimberly Howard-Quijano, MD*
- *Massimiliano Meineri, MD*

8–11 am

**Grand Canyon 1–5**

**Workshop 2: Mechanical Circulatory Support (MCS)**
Moderators: Annemarie Thompson, MD; Jenny Kwak, MD

**Presentations:**
- Physiology of Continuous Flow Circulation and Long-Term VAD Support *Jenny Kwak, MD*
- Hemodynamic Management of Patients With LVAD Support *Daisuke Nonaka, MD*
- Understanding VAD Systems and Alarms *Annemarie Thompson, MD*
- Mechanical Circulatory Support: New and Emerging Technologies *James Anton, MD*
- Configurations and Cannulation Strategies *Eric Nelson, DO*
- Echo and ECMO: Assessment Strategies in the ICU *Daniel Johnson, MD*

**Hands-On Stations:**
- Left Ventricular Assist Devices I *James Anton, MD; Kevin Collins, BSN*
- Left Ventricular Assist Devices II *Annemarie Thompson, MD; Kevin Collins, BSN*
- Percutaneous Ventricular Assist Devices *Daisuke Nonaka, MD*
- Intra-Aortic Balloon Pump *Jenny Kwak, MD*
- Extracoporeal Mechanical Support Systems *Eric Nelson, DO; Kevin Collins, BSN*
- Percutaneous Partial Circulatory Assist Devices *Daniel Johnson, MD*
1–4 pm

**Workshop 3: Advanced TEE**
Moderators: Nicholas Markin, MD; Kimberly Howard-Quijano, MD

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

**Hands-On Stations:**
- Mitral Valve Measurements, Georges Desjardins, MD; Douglas Shook, MD
- Right Ventricle Quantification, Feroze Mahmood, MD; Srdjan Jelacic, MD
- Cardiac Deformation, Nikolaos Skubas, MD; Kimberly Howard-Quijano, MD
- Advanced Quantification, Michele Sumler, MD; Sharon McCartney, MD

1–4 pm

**Workshop 4: Interventional Valves and Clips**
Moderators: Nelson Thaemert, MD; James Abernathy, MD

**Hands-On Stations:**
- TAVR PBLD, James Abernathy, MD; Heather Reed, MD
- TAVR Qlab, Alan Finley, MD; Alexander Mittnacht, MD
- TAVR Equipment, Nadia Hensley, MD
- Mitraclip PBLD, Ricardo Cardenas, MD; Isaac Wu, MD
- Mitraclip Qlab, Mias Pretorius, MD; M. Megan Chacon, MD
- Mitraclip Equipment, Charles Nyman, MBBCh

SUNDAY, APRIL 29

9 am–Noon

**Workshop 5: Electrophysiology Lab/Pacemaker**
Moderators: Jonathan Ho, MD; Eric Nelson, DO

**Presentations:**
- Pacemaker Function and Programming, Jacques (Prince) Neelankavil, MD
- Guidelines for Perioperative CIED Management, Kimberly Howard-Quijano, MD
- Establishing a Periop PM/ICD Service, Emily Methangkool, MD
- EP Perspectives on Perioperative CIED Service, Noel Boyle, MD

**Hands-On Stations:**
- Pacemaker Mode Selection, Kimberly Howard-Quijano, MD; Emily Methangkool, MD
- Perioperative ICD Therapy Management, Nicholas Markin, MD; Alexander Mittnacht, MD
- Magnet Use, Jonathan Leff, MD; Laeben Lester, MD
- Rate Adaptive Features, Jacques (Prince) Neelankavil, MD; Scott Streckenbach, MD
SUNDAY, APRIL 29 (continued)

1:30–4:30 pm
Grand Sonoran A–D

Workshop 6: Perioperative Ultrasound
Moderators: Bruce Bollen, MD; Andrew Weisinger, MD

Hands-On Stations:
- Ultrasound for Evaluation of Hypoxia/Dyspnea Laeben Lester, MD; Vidya Rao, MD
- FAST Examination Daisuke Nonaka, MD; Ravi Joshi, MD
- FOCUS Cardiac Examination M. Megan Chacon, MD; Georges Desjardins, MD
- CPR and TTE Walker Thomas, BA; Massimiliano Meineri, MD
- Vascular Access Jens Lohser, MD; Ricardo Cardenas, MD

WEDNESDAY, MAY 2

8–11 am
Grand Sonoran F–G

Workshop 7: 3D TEE
Moderators: Alina Nicoara, MD; Tjorvi Perry, MD

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

Hands-On Stations:
- Basic 3D TEE I Charles Nyman, MBBCCh
- Basic 3D TEE II Saket Singh, MD; Sharon McCartney, MD
- Advanced 3D TEE I Emily Methangkool, MD
- Advanced 3D TEE II Alina Nicoara, MD; Tjorvi Perry, MD
- Advanced 3D TEE III Peter Panzica, MD
- Advanced 3D Quantification Georges Desjardins, MD; Nicholas Markin, MD
**Schedule: PBLDs**

*Annual Meeting PBLD Coordinator (8–33): Sasha Shillcutt, MD; TAS PBLD Coordinators (1–7): Philip Hartigan, MD; Rebecca Klinger, MD*

Separate registration required. Each session is limited to 17 participants and 2 faculty members to allow for small-group interaction, discussion, and exchange of ideas. Breakfast will be available in the foyer of each room beginning at 6:30 am.

### Saturday, April 28 (7–8 am)

| PBLD 1 | Optimal Pain Management for VATS  
*Alessia Pedoto, MD; Donn Marciniak, MD* | Grand Canyon 9 |
| PBLD 2 | Carinal Resection: Nuts & Bolts  
*Philip Hartigan, MD; Ju-Mei Ng, MD* | Grand Canyon 10 |
| PBLD 3 | Lung Transplantation: Management Decisions  
*Peter Slinger, MD; Kenichi Ueda, MD* | Grand Canyon 11 |
| PBLD 4 | The Patient With Cardiac Disease for Pulmonary Resection  
*Wanda Popescu, MD; Diana Anca, MD* | Grand Canyon 12 |
| PBLD 5 | Esophagectomy: Just a Belly Case in the Chest?  
*Randal Blank, MD; Stephen Collins, MD* | Grand Canyon 13 |
| PBLD 6 | Post-Op Management of Complications from Pulmonary Resection  
*Jens Lohser, MD; Chris Durkin, MD* | Pinnacle Peak 1 |
| PBLD 7 | ECMO in Thoracic Surgery  
*Rebecca Klinger, MD; Eleanor Vega, MD* | Pinnacle Peak 2 |

### Sunday, April 29 (7–8 am)

| PBLD 8 | Pitfalls and Solutions in Invasive Arterial Pressure Measurement  
*Albert Perrino, MD; Jacob Gutsche, MD* | Grand Canyon 9 |
| PBLD 9 | Managing the Adult Congenital Patient for Elective Surgery  
*Lisa Wise-Faberowski, MD; Alexander Mittnacht, MD* | Grand Canyon 10 |
| PBLD 10 | Still Bleeding: Tips and Tricks for Troubleshooting Perioperative Coagulopathy  
*Prakash Patel, MD and Kamrouz Ghadimi, MD* | Grand Canyon 11 |
| PBLD 11 | STS: Moderate Tricuspid Valve Disease: What Do We Do?  
*Stanton Shernan, MD; Prem Shekar, MD* | Grand Canyon 12 |
| PBLD 12 | Mitral Regurgitation: A Team-Based Approach to Decision Making  
*Frederick Chen, MD; Douglas Shook, MD* | Grand Canyon 13 |
| PBLD 13 | Renal Protection Strategies for Cardiac Surgery: What’s New?  
*Richa Dhawan, MD; Mark Chaney, MD* | Pinnacle Peak 1 |
| PBLD 14 | Intraoperative Diagnosis of Severe Low-Flow, Low-Gradient Aortic Stenosis  
*Dalia Banks, MD; Emily Methangkool, MD* | Pinnacle Peak 2 |
### Monday, April 30 (7–8 am)

<table>
<thead>
<tr>
<th>PBLD 15</th>
<th>Converting From VA ECMO to BIVAD Centrimags: Anesthetic Considerations</th>
<th>Nicholas Markin, MD; Timothy Hayes, MBCHb</th>
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<td>PBLD 16</td>
<td>Mitral Repairs: Minimally Invasive—Maximum Headache?</td>
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<td>PBLD 17</td>
<td>High-Risk Lead Extractions: Who, Where, and How?</td>
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<td>PBLD 18</td>
<td>Managing the Patient Taking the New Oral Anticoagulants</td>
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<td>PBLD 19</td>
<td>Merit-Based Incentive Payment System: Reaching for the STARS</td>
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<td>PBLD 20</td>
<td>Challenges of Ventricular Assist Device Placement</td>
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<td>PBLD 21</td>
<td>When Dissection Meets Aortic Insufficiency</td>
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<td>Pinnacle Peak 1</td>
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### Tuesday, May 1 (7–8 am)

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<tr>
<th>PBLD 22</th>
<th>Right Heart Failure After Heart Transplantation: Help!</th>
<th>André Denault, MD; M. Megan Chacon, MD</th>
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<tr>
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<td>PBLD 23</td>
<td>Factor Recombinants, Factor Concentrates, and Fibrinogen</td>
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<td>PBLD 24</td>
<td>Preventing and Managing Perioperative Delirium</td>
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<td>PBLD 25</td>
<td>Walking on a Wire: TAVR Under Monitored Anesthesia Care</td>
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<td>PBLD 26</td>
<td>Anesthetic Considerations for Hybrid Approaches of the Aortic Arch</td>
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<td>PBLD 27</td>
<td>Severe Pulmonary Hypertension and Noncardiac Surgery</td>
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<td>PBLD 28</td>
<td>Interdisciplinary Challenges in the EP Lab: Beyond Specialty Lines</td>
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### Wednesday, May 2 (7–8 am)

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<th>PBLD 29</th>
<th>Heparin-Induced Thrombocytopenia and Cardiopulmonary Bypass</th>
<th>Michael Eaton, MD; Alycia Wanat-Hawthorne, MD</th>
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<td>PBLD 30</td>
<td>Hypertrophic Cardiomyopathy: Nuts and Bolts</td>
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<td>PBLD 31</td>
<td>Acute Kidney Injury After Cardiac Surgery: What Now?</td>
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<td>PBLD 32</td>
<td>Regional Anesthesia in Cardiac Surgery? Is There Room for Blocks?</td>
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Schedule: Fellow/Resident Program
Fellow and Resident Program Co-Directors: William Culp, MD and Jacques (Prince) Neelankavil, MD

SATURDAY, APRIL 28

6:45–7:55 am
Grand Saguaro East/West
Explore Your Future: Structured Networking Circles
Moderator: Kathryn Glas, MD
This speed-networking-style breakfast is a structured opportunity for Fellows and Residents to meet accomplished leaders in the field of cardiovascular anesthesiology—face to face, in a small group setting.
Separate registration required. Please visit the registration desk for more information.

11 am–Noon
Grand Sonoran F–G
Complex Case Poster Presentations: Session 1

1–2 pm
Grand Canyon 9–12
A Career in Cardiothoracic Anesthesiology: Mission Possible
Moderators: William Culp, MD; Jacques (Prince) Neelankavil, MD
1–1:20 pm Success in Academic Practice: What I Wish I Knew When I Started My First Job
   Alina Nicoara, MD
1:20–1:40 pm A Career in Academics: Research and Clinical Medicine
   Michael Eaton, MD
1:40–2 pm How to Excel at Your First Job
   Bruce Bollen, MD

2–3:30 pm
Grand Canyon 9–12
Problem-Based Learning Discussion: Transcatheter Aortic Valve Replacement (TAVR)
Moderators: James Anton, MD; Ioanna Apostolidou, MD; Wendy Bernstein, MD; Tara Brakke, MD; Albert Cheung, MD; Susan Eagle, MD; John Fox, MD; Brian Gelfand, MD; Yasdet Maldonado, MD; Eric Nelson, DO; Daryl Oakes, MD; Yong Peng, MD; Douglas Shook, MD; Bantayehu Sileshi, MD; Emily Teeter, MD; Annemarie Thompson, MD; J. Clint Tippett, MD; Daniel Tolpin, MD; Justin Wilson, MD

4–5 pm
Grand Canyon 9–12
Complex Case Discussion With Expert Panel
Moderators: William Culp, MD; Jacques Neelankavil, MD
Panelists: Dalia Banks, MD; John Fox, MD; Charles Hogue, MD
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) Single-Center Case Series of Combined Orthotopic Heart and Liver Transplantation: Perioperative Considerations
   Tiffany Williams, MD; Vivek Chellappa, MD; Anahat Dhillon, MD; Vadim Gudzenko, MD; Reshma Biniwale, MD; Ali Salehi, MD
(F2) Off-Pump Implantation of the Right Ventricular Assist Device in a Patient With Left Ventricular Assist Device. Impella RP, and Heparin-Induced Thrombocytopenia
   Nikolai Kolotiniuk, MD; Dalia Banks, MD; Swapnil Khoche, MBBS
(F3) Independent Lung Ventilation for Management of Pulmonary Edema After Unilateral Pulmonary Thromboendarterectomy
   Juan Diaz Soto, MD; Maria Fritock, MD; William Beam, MD; James Newton, MBBS
(F4) Prevention of Left Ventricular Outflow Tract Obstruction in Valve-in-Valve Procedure for Native Mitral Valve Stenosis
Dominik Steck, MD; James McCabe, MD; Richard Sheu, MD; Gabriel Aldea, MD; Mark Reismann, MD; Jaffar Khan, BM BCh; G. Burkhard Mackensen, MD

5–6 pm Grand Sonoran F–G
Complex Case Poster Presentations: Session 2

WEDNESDAY, MAY 2

8–11 am Grand Sonoran E
Fellow and Resident Perioperative TEE Review Session
Moderators: William Culp, MD and Jacques (Prince) Neelankavil, MD
Separate registration required. Please visit the registration desk to reserve your spot.
- Ultrasound Physics Daryl Oakes, MD
- Artifacts & Pitfalls Michele Sumler, MD
- Hemodynamic Calculations Mary Beth Brady, MD
- Congenital Heart Kimberly Howard-Quijano, MD
- Prosthetic Valve Evaluation Jonathan Leff, MD
Scientific Abstracts and Posters
Best of Meeting Oral Abstract Presentations: Session No. 1

**SUNDAY, APRIL 29 | 3:30–5:45 PM**

- **SCA1** Cardiac Index and Brachial Artery Flow Mediated Dilation
  Samiya Saklayen, MD; Frederic T. Billings IV, MD; Marcos Lopez, MD

- **SCA2** Diabetes Alters Autophagy and Apoptosis Response in Patients Undergoing Coronary Artery Bypass Graft Surgery
  Ruby Feng, BA; Robina Matyal, MD; Faraz Mahmood, MD; Jeffrey Bortman, BS; Zhi Feng Gao, MD; David Liu, MD; Louis Chu, MD; Kamal Khambaz, MD; Venkatachalam Senthilnathan, MD; Feroze Mahmood, MD

- **SCA3** Myocardial Ischemia Leads to Disregulation of LPA Signaling in the Central Nervous System
  Louis Saddic, MD; Kimberly Howard; Aman Mahajan, MD; Mansoureh Eghbali

- **SCA4** Mast Cell Activation as a Predictor of Acute Kidney Injury in Cardiopulmonary Bypass Patients
  Santiago Uribe Marquez, MD; Jasmine Fowler, BS; Rebecca Klinger, MD; Miklos Kertai, MD; Bradford Berndt, MD; Jorn Karhausen, MD

- **SCA5** Massive Left Heart Thrombus in a Post-Heart Transplantation Patient
  Perin Kothari, DO; Kristen Holler, DO; Alexander Leone, MD; Carlos Trombetta, MD

- **SCA6** Early Identification of Acute Kidney Stress Using Intraoperative Cell Cycle Arrest Biomarkers in Cardiac Surgery
  Jared Cummings, MD; Andrew Shaw, MB; Frederic T. Billings IV, MD; Jing Shi, PhD

- **SCA7** A Contemporary, Retrospective, Crossover Study of Inhaled Nitric Oxide and Epoprostenol in 160 Postoperative Cardiothoracic Surgical Patients in the Intensive Care Unit
  Stephen Freiberg, MD; Kamrouz Ghadimi, MD; Carmelo Milano, MD; Matthew Bean, DO; Jhaymie Cappiello, MS; Alfredo Farjat, PhD; Cathy Vaughan, PharmD; Jill Engel, ACNP; Matthew Hartwig, MD

- **SCA8** Incidence and Impact of Neurologic Complications After Cardiac Operations
  Albert Cheung, MD; Abe DeAnda, MD; Andrew Shaw, MB

- **SCA9** Increased Postoperative Morbidity for Low Socioeconomic Status Patients Following Abdominal Aortic Aneurysm Repair
  Matthew Perlstein, MD; Robert White, MD; Gulce Askin, MPH; Robert Bowen, MD; Lisa Rong, MD

- **SCA10** Cerebral Autoregulation During and After Cardiac Surgery
  Yohei Nomura, MD; Charles Brown, MD; Mitsunori Nakano, MD; Brian Bush, MD; Ken Brady; Charles Hogue, MD
Best of Meeting Oral Abstract Presentations: Session No. 2

MONDAY, APRIL 30 | 3:30–6 PM

(SCA11) Transthoracic and Transesophageal Echocardiography 4 Chamber Views Underestimate Maximal Tricuspid Valve Annular Diameter
James Lee, MD; Gabriela Querejeta Roca, MD; Jose Rivera; Lindsey Molloy, RCS; Josh Zimmerman, MD; Stanton Sherman, MD

(SCA12) Percutaneous Left Atrial Appendage Occlusion: Comparison of 2 Dimensional Versus 3-Dimensional Echocardiographic Quantitative Assessment
Flora Li, MD; G. Burkhard Mackensen, MD; Kei Togashi, MD; Flora Li, MD; Mark Reisman, MD

(SCA13) Inexpensive and Accessible 3-Dimensional Printing of the Left Atrial Appendage From Intraprocedural Transesophageal Echocardiography
Lori Russo, MD; Alexander Kuo, MD

(SCA14) Comprehensive Echocardiographic Assessment of Cardiac Function During Ex-Vivo Heart Perfusion
Giulia Maria Ruggeri, MD; Emanuela Paradiso, MD; Roberto Ribeiro, MD; Bryan Gellner, MEng; Frank Yu, Mr; Joshua Qua Hiansen, MSc; Mitesh Badiwala, MD; Massimiliano Meineri, MD

(SCA15) Assessment of Left Ventricular Diastolic Dysfunction by 2D-Speckle Tracking Echocardiography: Relation Between Pulmonary Capillary Wedge Pressure and Left Ventricular Global Strain Rate During Isovolumetric Relaxation Time in CABG Patients
David Kohanchi, MD; Farzad Ebrahimi, MD; Bryant England, MD; Vaheh Petrossian, MD

(SCA16) Aortic Symmetry Index—Initial Validation of a Novel Preoperative Echo Predictor of Recurrent Aortic Insufficiency After Valve Sparing Operation
Lisa Rong, MD; Antonino Di Franco, MD; Jonathan Weinsaft, MD; Mario Gaudino, MD; Leonard N. Girardi, MD

SCA FELLOW AND RESIDENT TRAVEL GRANT RECIPIENTS

(SCA17) Does Plasma Volume Replacement With 5% Human Albumin Reduce Postoperative Endothelial and Glycocalyx Disruption, Compared With 6% Hydroxyethyl Starch 130/0.4?
Marta Kelava, MD; Andra Duncan, MD

(SCA18) Metabolomics of Blood Product Transfusion in a Prospective Observational Cohort of Patients Undergoing High-Risk Cardiac Surgery
Nathan Clendenen, MD; Rachel Henderson, BA; Joseph Morabito, DO; Barbara Wilkey, MD; Bryan Ahlgren, DO; Nathana Weitzel, MD

(SCA19) High-Volume Intraoperative Autologous Blood Collection Reduces Postoperative Bleeding and Transfusion
Reney Henderson, MD; Brittney Williams, MD; Michael Mazzeffi, MD; Kenichi Tanaka, MD; Bradley Taylor, MD

(SCA20) Enhanced Preoperative Prediction of Discharge Location With Combination of Patient-Driven FRAIL Screen and Preoperative Score
Heather Lander, MD; Jessica Rydingsward, PT; Jenna Stuebe, PT; Tsuyoshi Kaneko, MD; Prem Shekar, MD; Angela Bader, MD; Simon Body, MBChB

(SCA21) Influence of Perioperative Antibiotic Use on Postoperative Cognition
Sarah Cotter, MD; Paul Wischmeyer, MD; John Hunting, MPH; Joseph Mathew, MD; Rebecca Klinger, MD
(SCA22) The Effect of Oxygen Tension on Cerebral Oximetry and Delirium in Cardiac Surgery: A Subgroup Analysis of a Randomized Controlled Trial
Kirin Belani, MD; Ariel Mueller, MA; Philip Chan, MD; Puja Shankar, MD; Shahzad Shafei, MD

(SCA23) The Effect of High-Dose Remifentanil Infusion on Acute Postoperative Pain After Cardiac Surgery
Andrea Ibarra; Kathirvel Subramaniam, MD

(SCA24) Intraoperative Microvolt T-Wave Alternans and Postoperative Mortality in Cardiac Surgery Patients
Woo Young Jo, MD; Youn Joung Cho, MD; Chang-Hoon Koo, MD; Tae Kyong Kim, MD; Yunseok Jeon, MD; Jae-Hyon Bahk, MD; Karam Nam, MD; Bo Rim Kim, MD

(SCA25) Assessment of Right Ventricular Function Under One Lung Ventilation During Cardiac Surgery
Robert Searles, DO; Alina Nicoara, MD; Eleanor Vega, MD; Madhav Swaminathan, MD; Rebecca Klinger, MD

(SCA26) Preoperative Risk Score for Atrial Fibrillation Following Cardiac Surgery
Raymond Malaperou, MD; Samrachana Adhikari, PhD; Sharon-Lise T. Normand; Shyamal Asher, MD; Jochen Muehlischiegl, MD; Prem Shekar, MD; Douglas Shook, MD; Thoralf M. Sundt, MD; Simon C. Body, MD

(SCA27) The Outcome Effects of Perioperative Continuous Intravenous Infusion of Diltiazem or Nitroglycerine in Patients Undergoing on Pump Coronary Artery Bypass, a Systemic Review and (Network) Meta-Analysis
Xiaopeng Zhang, MD; Yirui Hu, PhD; Xinbei Yang, MS; Xianren Wu, MD; Li Zhang, MD; Alfred Casale, MD; Boscarrino Joseph, PhD; H. Lester Kirchner, PhD

(SCA28) Brain-Derived Neurotrophic Factor Levels After Cardiopulmonary Bypass Are Associated With Postoperative Decline in Memory
Charles Hogue, MD; Rachel Bandi, MD; Masha Kocherginsky, PhD; Jordan Grafman, MD; Charles Brown, MD; Allen Everett, MD

(SCA29) Kidney Function Following Left Ventricular Assist Device
Allison Janda, MD; Mias Pretorius, MD; Frederic T. Billings IV, MD

(SCA30) Ultrasound- Versus Palpation-Guided Radial Artery Catheterization in Infants Under 12 Months Old: A Randomized and Controlled Trial
Dae Kyun Ryu, MD; Jeong Jin Min, MD; Jong-Hwan Lee, MD; Nam-Su Gil, MD; Jungchan Park, MD; Chung Su Kim, MD

(SCA31) Serratus Anterior Plane Block for Robotic Mitral Valve Repair: A Pilot Study
Samion Shabashev, MD; Ryan Potosky, MD; Robert Nampiaparampil, MD; Krystal Dawkins, BS; Germaine Cuff, PhD; Jennie Ngai, MD; Peter Neuburger, MD

(SCA32) Diastolic Dysfunction is Associated With Adverse Perioperative Outcomes in Patients Presenting for Noncardiac Surgery
Michael Doan, MD; Jacques Neelankavil, MD; Theodora Wingert, MD; Tristan Grogan, MS; Kimberly Howard-Quijano, MD; Aman Mahajan, MD

(SCA33) Modified Tricuspid Annular Plane Systolic Excursion Using Transesophageal Echocardiography and Its Utility to Predict Right Ventricular Dysfunction in Left Ventricular Assist Device Implantation
Sharadha Devi Gunasekaran, MD; Tura Lencho, MD; Yoshihisa Morita, MD

(SCA34) Repair of Type I Aortic Dissection in the Jehovah’s Witness Patient Population: A Case Series of 10 Patients
Elizabeth Herrera, MD; Saraswathi Karri, MD; Scott Scheinin, MD; Jessica Varisco, PBMC

(SCA35) Timing of Blood Product Transfusion and Postoperative Outcome in Cardiac Surgery
Jose Vielma, BS; Thomas Suarez, MD

(SCA36) Eye Radiation Exposure During Transcatheter Aortic Valve Replacement
Andrew Notarianni, MD; Daina Blitz, MD; Balachundhar Subramaniam, MD; Robert Schonberger, MD; Manuel Fontes, MD; Amit Bardia, MBBS

(SCA37) Impact of Patient and Surgical Characteristics on Postoperative Acute Kidney Injury in a Contemporary Cohort of Patients Undergoing Minimally Invasive Cardiac Surgery
Michael Ting, MD; John Hunting, MPH; Jorn Karhausen, MD; Mark Stafford-Smith, MD; Donald Glowier, MD; Nazish Hashmi, MD; Miklos Kertai, MD

(SCA38) Metabolites Associated With Platelet Count and Pulmonary Hypertension in High-Risk Cardiac Surgery Patients
Joseph Morabito, DO MS; Nathan Clendenen, MD; Nathaen Weitzel, MD; Bryan Ahlgren, DO; Rachel Henderson, BA

(SCA39) A Novel Study Analyzing the Role of the Anesthesiologist in Impacting the Outcomes of Patients Undergoing Multilevel Staged Percutaneous Coronary Intervention for Chronic Total Occlusion of Coronaries
Sharadha Devi Gunasekaran, MD; Gaurav Chauhan, MD; Jayakar G. Guruswamy, MD; Raj Modak, MD

(SCA40) Combined Systolic and Diastolic Hypertension in Cardiac Surgical Patients
Andrew Notarianni, MD; Denise Franko, MD; Robert Schonberger, MD; Andres Oswaldio Razo Vazquez, MD; Susan Garwood, MB; Armar Geirsson, MD; Manuel Fontes, MD; Feng Dai, PhD
(SCA41) Use of Acute Normovolemic Hemodilution and Perioperative Transfusion Requirements in Cardiac Surgical Patients at a Small Community Hospital
Yousef Ahmed, MD; Henry DeYoung, MD; Derek Lodico, DO; Darian Rice, MD

(SCA42) Preoperative Diastolic Hypotension and Acute Kidney Injury After Cardiac Surgery
Denise Franko, MD; Andrew Notarianni, MD; Robert Schonberger, MD; Manuel Fontes, MD; Susan Garwood, MB; Feng Dai, PhD; Amit Bardia, MBBS; Karen Stavris, RN; Miklos Kertai, MD; Paul Heerdt, MD

(SCA43) A Matter of Time: The Effect of Case Start Time on Intraoperative Transfusion Rates in Adult Cardiac Surgery—a Single-Center Retrospective Analysis
Dylan Addis, MD; Chandrika Garner, MD; Rohesh Fernando, MD; Blake Moore, MD

(SCA44) Assessment of Vascular Compliance With EKG and Arterial Blood Pressure Wave
Yoshihisa Morita, MD; Farayi Mbuvah, MD; Yurie Sakaguchi, MD

(SCA45) Effect of Concurrent Mitral Valve Surgery for Mitral Regurgitation Upon Mortality After Aortic Valve Replacement or Coronary Artery Bypass Surgery
Shyamal Asher, MD; Raymond Malapero, MD; Gregory Malzberg, BA; Prem Shekar, MD; Tsyusni Kaneko, MD; Marc Pelletier, MD; Hari Mallidi, MD; Mahyar Heydarpour, PhD; Douglas Shook, MD; Stanton Shernan, MD; J. Daniel Muehlischlegel, MD; Simon Body, MBChB

(SCA46) Hydroxocobalamin for the Treatment of Refractory Vasoplegia in Patients on Mechanical Circulatory Support: A Case Series
Benjamin Havens, MD; Theodore Cios, MD

(SCA47) Effects of Intraoperative Mechanical Circulatory Support for Patients Undergoing Lung Transplant: Experience From a Single Academic Medical Center.
Mario Farías-Kovac, MD; Yuliana Salamanca-Padilla, MD; Daohai Yu, PhD; Xiaoning Lu, MS; Yoshiya Toyota; Gordon Morewood, MD

(SCA48) Efficacy of Chest Wall Regional Blocks for Pain Management After Minimally Invasive Cardiac Surgery
Allison Overmon, MD; Rebecca Klinger, MD; Wenjing Qi, PhD; Brandi Bottiger, MD; Yasmin Maisonave, MD

(SCA49) Extending Goal Directed Perfusion Beyond Cardiopulmonary Bypass
Benjamin Abrams, MD; Matthew Mosca, MS; Nathan Clendenen, MD; Lyndsey Graber, MD; George Justison, CCP; David Mack, MS; Bryan Ahlgren, DO; Nathanael Weitzel, MD

(SCA50) Analysis of Clinical Outcomes and Costs Following Transfemoral Transcatheter Aortic Valve Replacement With General Anesthesia Versus Conscious Sedation
Carla Andrea Luzzi, MD; David Orlov, MD; Mark Oster; Eric Horlick, Mdcm; Srinivas Coimbatore, MBBS; Jo Carroll, RN; George Djalani, MD

(SCA51) Utilization of Near-Infrared Spectroscopy in Monitoring Cerebral Oxygenation in Response to Intermittent Perfusion During Deep Hypothermic Circulatory Arrest
Andy Chao Hsuan Lee, MD; Samantha Madrid, MD; Clinton Kakazu, MD; Bassam Omari, MD

(SCA52) Preoperative Coagulation Parameters Predict 30-Day Mortality After Cardiac Surgery
Daniel Barlowe, MD; Jiapeng Huang, MD

(SCA53) Volume Therapy With Gelatine Is Associated With Acute Kidney Injury and Renal Replacement Therapy in Cardiac Surgical Patients
Matthias Heringlake, MD; Enno Reemts, MD; Christian Schmidt, MD; Simon Schemke; Felix Balzer, MD; Efstratios I. Charitos, MD; Astrid Ellen Berggreen, MD

(SCA54) 3-D Determined Vena Contracta Length May Be Associated With the Need for Multiple Clips When Using a Percutaneous Approach to Treating Mitral Regurgitation
Tosanath Leeppuengtham, MD; Pankaj Jain, MD; Michael Fabbro, DO

(SCA55) KIM-1 and NGAL as Early Predictors of Renal Damage in a Newborn Population, With Low Body Weight, Undergoing Cardiac Surgery With Cardiopulmonary Bypass
Evelyn Borchert, MD; Katia Gonzalez, MD; Roberto Jalil, MD; Ana Maria Guzmán, MD; René De La Fuente, MD; Bárbara Gaete, MD; Karina Morales, RN; Lucia Arratia, MD; Guillermo Lema, MD

(SCA56) To TAP or Not to TAP, an Opioid Sparing Approach to Transcatheter Aortic Valve Replacement
Mathew Lopez, MD; Kimberly Howard-Quijano, MD; Jacques Neelankavil, MD; Komal Patel, MD; Matthew Fischer, MD; Parisa Rahman, MD; Siamak Rahman, MD; William Suh, MD; Claudia Bueno, BA; Jennifer Scovotti, MA; Jonathan Ho, MD

(SCA57) Day-to-day Variations in Postoperative White Blood Cell Counts and Atrial Fibrillation After Cardiac Surgery
Alan Smeltz, MD; John Hunting, MPH; Joern Karhausen, MD; Miklos Kertai, MD

(SCA58) Factors Associated With Reperfusion Pulmonary Edema After Pulmonary Thromboendarterectomy
Mary Rhee, MD; Susan Eagle, MD; Jeremy Bennett, MD

(SCA59) Acute Kidney Injury After Orthotopic Heart Transplantation: Risk Factors and Association With Mortality
Jeffrey Lyvers, MD; Alina Nicoara, MD; Mary Cooter, MS; Mark Stafford-Smith, MD; Sharon McCartney, MD; Jacob Schroder; Chetan Patel, MD; Madhav Swaminathan, MD
(SCA60) Veno-Arterial Veno-Venous Extracorporeal Membrane Oxygenation 30 days Survival: Retrospective Analysis
Galina Leyvi, MD; Joseph Schwartz, MD; Mudit Kaushal, MD

(SCA61) Low Dose Versus High Dose Tranexamic Acid for Prevention of Perioperative Bleeding in Cardiac Surgery: A Meta-Analysis and Systematic Review
Patrick Broderick, DO; Denise Franko, MD; Sayuri Jinadasa, MD; Alexander Brackett, MA; Robert Schonberger, MD; Manuel Fonteres, MD; Amit Bardia, MBBS

(SCA62) Dose-Dependent Renal Effects of Preoperative Statin in Patients Undergoing Off-Pump Coronary Artery Bypass Grafting
Joan Seungwon Lee, MD; Jeong Jin Min, MD; Jong-Hwan Lee, MD; Junghun Park, MD

(SCA63) Effect of Greater Than 0.5 MAC of Inhalational Agent on the Usage of Potent Inotropes and Vasoconstrictor Medication During the Post-Bypass Period in Elective Cardiac Surgery
Carlos Guerra Londono, MD; Tara Lenk, DO; Prabdeep Hehar, DO; Thomas Graul, DO; Marc Murinson, MD; Raj Modak, MD

(SCA64) Predictors of Inotrope/Vasopressor Use After Transcatheter Aortic Valve Replacement
Akheel Merchant, MD; Amanda Fox, MD; Abu Minhauddin, PhD; Lauren Wehrmann, BS; Lynn Huffman, MD; Michael Jessen, MD; Ravi Joshi, MD

(SCA65) Estrogens and Coagulation System Changes in Patients Undergoing Repeat Sternotomy With Cardiopulmonary Bypass
Rachel Henderson, BA; Barbara Wilkey, MD; Nathan Clendenen, MD; Nathanae Weitzel, MD

(SCA66) No Change in CardiacTroponin I Levels in Patients With End–Stage Renal Disease Undergoing Arteriovenous Access Surgery
Ketan Shevde, MD; Maryam Siddiqui, BS; Bhanu Seth, BA; Jinhui Zhao, MD; Elizabeth Dryland, DO; Alejandro Zuretti, MD; James Kim, MEng; Joanna Serafin, PhD

(SCA67) Access to High-Volume Transcatheter Valve Centers in Florida
Michael Fabbro, DO; Richard Epstein, MD

(SCA68) Choosing the Anesthetic Sedatives for Supraventricular Tachycardia Ablations: A Focused Review
Greta Mitzova-Vladinov, DNP; Tosanath Leepuengtham, MD; Lilibeth Fermin, MD; Renee Longini; Yanell Ramos; Edward Maratea, MD

(SCA69) Retrospective Cohort Analysis of Risk Factors and Postoperative Complications Following Blood Transfusions During Cardiac Surgery
Jonathan Preminger, BA; Daniel Hart, BA; Oonagh Dowling, PhD; Linda Shore-Lesserson, MD

Gina Brown, MD; Davinder Ramsingh, MD; Dustin Wailes, MD; Alec Runyon, MD; Matthew Abschuler, BS; Jason Gatling, MD; Justin Pugh, BS; Ryan Lauer, MD; Colin Garner, MD; Magdalena Dimitrova; Bezon Rustomi; Jennifer Shyong, BS

(SCA71) Intracardiac Thrombosis During Orthotopic Liver Transplantation: Role of Transesophageal Echocardiogram for Early Detection and Management
Gloria Rodriguez, MD; Tatiana Jamroz, MD

(SCA72) Methylene Blue Use During LVAD and Heart Transplant Surgery in a Tertiary Care Center
Yefim Vilnits, MD; Patrick Hussey, MD; Koji Takeda; Isaac Wu, MD

(SCA73) The Comparison of Hemodynamic Effects of Intra-Aortic Versus Intravenous Protamine Administration in Cardiac Surgical Patients—a Single Institution, Retrospective Chart Review
Mama Chura, MBBS; Erica Hawthorne, CCP; Amanda Crosby, CCP; Vaibhav Bora, MBBS; Shvetank Agarwal, MD

(SCA74) Improvements Introduced in Adsorption Filter for Volatile Anesthetic Agents for Cardiopulmonary Bypass
Caetano Negro Neto, MD; Aron Andrade; Edir Leal, MSc

(SCA75) Effect of Anesthetics on Premature Ventricular Contractions: A Pilot Study
Muhammad Salman Tahir Janjua, MD; Frank Cunningham, RN; Carol Dickerson, MS; Nadine Odo, BA; Mary Arthur, MD

(SCA76) International Survey on Lung Transplantation Anesthesia—A Society for Advancement of Transplantation Anesthesia Project
Kathirvel Subramaniam, MD; J. Mauricio Del Rio, MD; Barbara Wilkey, MD; Justin Tawil, MD; Travis Schisler, MD; Himani Bhatt, DO; Shiva Sale, MD; Kenichi Tanaka, MD; Boisen Michael, MD; M. Susan Mandell, MD

(SCA77) In Line Monitorization of Inhaled and Exhaled Gases Through Membrane Oxigenator During Cardiopulmonary Bypass
Laura Gutierrez, MD; Juan Kling, MD; Olga Quintero, MD

(SCA78) Anesthesia Management of High-Frequency Jet Ventilation in the Cardiac Cath Lab: A Single Institution Chart Review of Initial Experience With 123 Patients
Reginald Bulkley, MD; Andrea Reidy, MD; Madeline Easton, MSIII

(SCA79) Effectivity of Acute Normovolemic Hemodilution in Reducing Allogenic Blood Transfusions on Congenital Heart Surgery in Harapan Kita Hospital Indonesia
Riza Cintandy, MD; Dewi Puriani, NS; Ibnu Sofa, RN; Abdurrahman Hadi, MD; Salomo Purba, MD; Cindy E. Boom, MD
(SCA80) Intra-Aortic Balloon Pump-Related Morbidity in Patients Undergoing Cardiac Surgery
Robertas Samalavicius, MD; Ieva Norkiene, MD; Lina Puodziukaite, MD; Indre Radaviciute, MD; Irina Misuriene, MD; Pranas Serpytis, PhD

(SCA81) Anesthesia for Minimally Invasive Cardiac Surgery
Luis Munoz, MD

(SCA82) Hemodialysis Patients Do Not Experience a Prolonged Anesthesia Start Time
James Osorio, MD; Nicole Calautti, BS; Elizabeth Mauer, MS; Kane Pryor, MD; Natalia Ivascu, MD

(SCA83) Impact of Blood Transfusion on Mortality Following Cardiac Surgery
Kiranjit Khazan Singh, MB; Helena Day, RN; Lakshmi Kuppurao, MD

(SCA84) Octogenarian—Growing Population in Cardiac Surgery
Zdenko Povešic-Cevra, MD

(SCA85) The Anesthetic Consideration of Transatrial Left Ventricle Cannulation for Acute Type A Aortic Dissection
Koichiro Seki, MD; Sachiyu Tanjuue, MD; Sachi Munakata, MD; Hiroko Fukushima, MD; Toshihiro Nohmi, MD

(SCA86) Factors Influencing Pre-Intervention Radial Arterial Line Placement for Transfemoral Transcatheter Aortic Valve Replacement
Jose Navas Blanco, MD; Stephanie Cook, DO; Christine Acho, DO; Trevor Szymanski, MD

(SCA87) Refractory Hypotension in Carotid Endarterectomy Requiring Methylene Blue
Frederick Conlin, MD; Saravanakumar Manickam, MD

(SCA88) Transcatheter Aortic Valve Replacement—Management and Early Outcome
Nikola Bradic, MD; Daniel Unic, MD; Boris Starcevic, MD; Mislav Planinc, MD

(SCA89) Is the Extra Poke for Watchman Procedures Even Necessary? A Pilot Study to Examine the Utility of Arterial Lines for Watchman Procedures
Naushad Ahmed, DO; Joseph Sanders, MD

Please visit us at Booth #515
Scientific Poster Session No. 2 (Non-CME): Basic Science, Critical Care, Echocardiography, Perioperative Medicine, Structural Heart

MONDAY, APRIL 30 | 12:30–1:30 PM

(SCA90) PGC-1α and Cardiac Mitophagy in Syngenic Heterotopic Mouse Heart Transplantation
Anne Cherry, MD; Kristine Porter, BS; Hagir Suliman, PhD; Allan Kirk, MD; Claude Plantadosi, MD

(SCA91) DNA Methylation Profiling in Atrial Fibrillation
Caroline Connor, MD; Mahyar Heydarpour, PhD; Sary Aranki; Prem Shekar, MD; Tsuyoshi Kaneko, MD; Marc Pelletier, MD; Hari Mallidi, MD; Simon Body, MBChB; J. Daniel Muehlischlegel, MD

(SCA92) Patient-Specific 3D Printed Transesophageal Echocardiography Heart Phantom: Preliminary Assessment of Image Quality
Joshua Qua Hansen, MSc; Giulia Maria Ruggeri, MD; Azad Mashari, MD; Massimiliano Meineri, MD

(SCA93) The Development of a High-Fidelity and Low-Cost Digital TEE Simulator and a 3D Printed TEE Probe Controller
Joshua Qua Hansen, MSc; Azad Mashari, MD; Massimiliano Meineri, MD

(SCA94) Retrospective Case Series Examining the Clinical Course of Influenza Patients Requiring ECMO and Mechanical Circulatory Support
David Garcia, DO; Nathan Waldron, MD; Rachael Minz-Cole; Mary Cooter, MS; Mani Daneshmand, MD; Shawn Hansberry, MD; Hassan Amhaz, MD; Cameron Wolfe, MBBS; Mihai Podgoreanu, MD; Raquel Bartz, MD; Quintin Quinones, MD

(SCA95) Experience of Low Flow Veno-Venous Extracorporeal Carbon Dioxide Removal in Surgical Patients of 2 Quaternary Cardiothoracic Hospitals
Christopher Walker, MB; Victoria Poppy Laxon, MBBS; Katarina Lenartova, MD; Alex Rosenberg, FCICM

(SCA96) Prognostic Factors for Clinical Outcomes After LVAD Placement: Intraoperative RV Speckle-Tracking Strain Compared to Conventional Echocardiography and Mean PA Pressures
Marvin Chang, MD; Gaston Cedemus, MD

(SCA97) Prognostic Factors Associated With Mortality and Major Neurological Complications After Deep Hypothermic Circulatory Arrest: The Role of Pulmonary Hypertension as a Potential Modifiable Risk Factor?
Marvin Chang, MD; Atsushi Yasuda, MD; Masahiko Ando, MD; Nobuo Sasaki, MD; Serguei Melnitchouk, MD; Fumito Ichinose, MD

(SCA98) Peripheral Venous Waveform Analysis Correlates With Pulmonary Capillary Wedge Pressure in a Porcine Hemorrhagic Shock Model
Kristi Lorenzen, MD; Kelly Kohorst, MD; Kyle Hockering, PhD; Susan Eagle, MD

(SCA99) Eight-Year Institutional ECMO Experience at a Quaternary Referral Center
Jamel Ortoleva, MD; Gaston Cedemus, MD; Adam Dalia, MD

(SCA100) Central Venous Pressure as an Indicator for Post-Left Ventricular Assist Device Implantation Renal Failure
John Fox, MD; Eric Ursprung, MD; Michael Young; Miguel Suarez, MD; Michael Casimir, MD; Ingrid Moreno-Duarte, MD; Fred Cobey, MD

(SCA101) Augmented Reality and Ultrasound Education: Initial Experience
Faraz Mahmood, MD; Ruby Feng, BA; Zhifeng Gao, MD; Jeffrey Bortman, BS; Valeria Hunter; Robina Matyal, MD; Ruma Bose, MD; John Mitchell, MD; Stephanie Jones, MD

(SCA102) Intraoperative Assessment of Mitral Annular Velocity and Displacement by TDI and Speckle-Tracking
Eckhard Mauermann, MD; Michael Vandenheuvel, MD; Stefaan Bouchez; Patrick Wouters, MD

(SCA103) Utility of Novel Alternatives to TAPSE and TDI-Based Tricuspid Annular Velocities in TEE
Eckhard Mauermann, MD; Michael Vandenheuvel, MD; Stefaan Bouchez; Patrick Wouters, MD

(SCA104) Rescue Echo for Noncardiac Surgeries: Analysis of an Institutional Initiative
Crystal Tan, MD; Kenneth Shelton, MD; Genevieve Staudt, MD

(SCA105) Objective Evaluation of the Accuracy of a Transesophageal Echo Image Evidence of Preclinical Proficiency
Faraz Mahmood, MD; Robina Matyal, MD; Jeffrey Bortman, BS; Ziyad Knio, BS; John Mitchell, MD; Feroze Mahmood, MD

(SCA106) Prognostic Factors for Clinical Outcomes After Pulmonary Thromboendarterectomy: Intraoperative RV Speckle-Tracking Strain Compared to Conventional Echocardiography and Mean PA Pressures
Marvin Chang, MD; Gaston Cedemus, MD

(SCA107) The Relationship Between Intraoperative Hypoxia and Echocardiographic Measures of Left Ventricular Systolic Function in Cardiac Surgical Patients
Alexander Shapeton, MD; Shahzad Shaeef, MD; Ariel Mueller, MA; Julia Larson, BS

(SCA108) Comparison of Tricuspid Annular Diameter Measurement Using 2-Dimensional and 3-Dimensional Transesophageal Echocardiography
Robert Ginnebaugh, MD; Lindsey Molloy, RCS; Tiffany Rodrigues, RCS; John Fox, MD; Stanton Shernan, MD; Charles Nyman, MBCh
(SCA131) Epigenome-Wide Association Study of Postoperative Atrial Fibrillation After Cardiac Surgery
Matthew Fischer, MD; Emma Monte, PhD; Maximilian Cabaj, BS; Todd Kimball, BS; Jennifer Scovotti, MA; David Elashoff; Kimberly Howard-Quijano, MD; Aman Mahajan, MD; Thomas Vondriska, PhD

(SCA132) Preoperative Anemia as a Risk Factor for Postoperative Morbidity in Patients Undergoing Lung Transplantation
Marisa Hernandez-Morgan, MD; William Edwards, MD; Kimberly Howard-Quijano, MD; Jacques Neelankavil, MD; Tristan Grogan, MS; Emily Methangkool, MD

(SCA133) Use of Preoperative Chlorhexidine Mouthwash to Reduce Postoperative Pneumonia After Cardiac Surgery: A Meta-Analysis and Systematic Review
Patrick Broderick, DO; Daina Blitz, MD; Sayuri Jinadasa, MD; Denise Hersey, MA; Robert Schonberger, MD; Manuel Fontes, MD; Amit Bardia, MBBS

(SCA134) Health Economic Consequences of Cardiac Surgery-Associated Acute Kidney Injury
Andrew Shaw, MD; Albert Cheung, MD; Abe DeAnda, MD

(SCA135) Lower Discharge Hemoglobin Does Not Impact 30-Day Readmission Rates in Coronary Artery Bypass Surgery Patients
Brian Cho, MD; Vincent DeMario, BS; Nadia Hensley, MD; Charles Brown, MD; Kaushik Mandal, MD; Steven Frank, MD

(SCA136) Impact Assessment of a Perioperative Point of Care Ultrasound Service: A Quality Improvement Initiative
Alec Runyon, MD; Dustin Wailes, MD; Davinder Ramsingh, MD; Jaron Yang, MS; Gary Stier, MD; Robert Martin, MD; Melissa McCabe, MD; Carin Mascetti, MD; Ryan Lauer, MD; Jason Gatling, MD; Michael Benggon, MD; Gina Brown, MD

(SCA137) Latent Class Mixed Modeling of Serum Creatinine Trajectories: A Novel Approach to Assessing Acute Kidney Injury Following Cardiac Surgery
Benjamin Andrew, BS; Carl Pieper, DrPH; Anne Cherry, MD; Jane Pendergast, PhD; Jamie Privratsky, MD; Carrie Moore, MD; Mark Stafford-Smith, MD

(SCA138) Demographic Indicators of Increased Length of Stay Following Abdominal Aortic Aneurysm Repair
Robert Bowen, MD; Robert S White, MD; Matthew Perelstein, MD; Gulce Askin, MPH; Lisa Rong, MD

(SCA139) Outcomes After Transcatheter Aortic Valve Replacement: A Propensity Matched Retrospective Cohort Study
Elithan Browman, MD; Richard Urman, MD; Robert Lekowski, MD

(SCA140) Perioperative Predictors and Impact of Hyperglycemia in Nondiabetic Patients After Cardiac Surgery
Lian Ti, MBBS; Vikaesh Moorthy, MBBS; Ming Ann Sim, MBBS; Sophia Tsong Huey Chew, MD; Welling Liu, BSc

(SCA141) Developing a Proficiency Index for Perioperative Ultrasound Training
Rabia Amir, MD; Stephanie Jones, MD; John Mitchell, MD; Mario Montealegre-Gallegos, MD; Feroze Mahmoud, MD; Ting Hai, MD; Faraz Mahmoud, MD; Jeffrey Bortman, BS; Ruby Feng, BA; Robina Matval, MD

(SCA142) Quantitative and Physiological Predictors of Neurological Dysfunction Following Cardiac Surgery
Joanna Semrau, BSc; Stephen Scott, PhD; G. Andrew Hamilton, MD; Dimitri Petsikas, MD; Gianluigi Bistleri, MD; Darrin Payne, MD; Tarit Saha, MBBS; J. Gordon Boyd, MD

(SCA143) Intercostal Nerve Blocks Using the Combination of Liposomal and Plain Bupivacaine Decrease Postoperative Opioid Use Compared to Liposomal Bupivacaine Alone in Patients Undergoing Video-Assisted Thoracoscopic Surgery for Wedge Resection
Adarn Hill, MD; Lyla Hance, MPH; Paula Stassie, MSPh; Lavinia Kolarczyk, MD; Emily Teeter, MD; Jason Long, MD; Benjamin Haithcock, MD

(SCA144) Intraoperative Effects of Methylene Blue Effects on Pulse Oximetry in Open Thoracoabdominal Aneurysm Repairs
Lisa Rong, MD; Robert White, MD; Elizabeth Mauer, MS; Taylor Mustapich, BA; Stephen Marriott, BS; Michele Steinkamp, RN; Kane Pryor, MD

(SCA145) Effect of Large Volume Paracentesis Performed Just Prior to TIPS Procedure on the Hemodynamic Management During the Procedure
Hanzhou Li, BA; Zhuo Sun, MD; Jayanth Keshavamurthy, MD; Shvetank Agarwal, MD

(SCA146) Evaluation of Clinical Impact of Noninvasive Hemodynamic Monitoring to Optimize Preventative Care of Heart Failure Patients
Alec Runyon, MD; Davinder Ramsingh, MD; Dustin Wailes, MD; Ryan Lauer, MD; Elainz Omran, MD; Gina Brown, MD; Jason Gatling, MD; Justin Pugh, BS; Matthew Alschuler, BS; Laurel Kelley, MS; Shreya Maharana, BS; Rimisha Lal, BS

(SCA147) Current Practice Strategies in the Acute Care Setting and the Utilization of Point of Care Ultrasound: A Survey Study Across All Acute Care Specialties
Gina Brown, MD; Davinder Ramsingh, MD; Dustin Wailes, MD; Alec Runyon, MD; Jason Gatling, MD; Gary Stier, MD; Justin Pugh, BS; Ihab Dorotta, MD; Brian Chung; Matthew Alschuler, BS; Ryan Lauer, MD

Jelena Spyropoulos, PhD; Suzanne Hughes, MSN; Stacey Hughes, BS

(SCA149) Establishing Best Practices for Geriatric Patients Undergoing Transcatheter Aortic Valve Replacement: A Call to Action
Bryan Kidd, MD; Emily Teeter, MD; Lavinia Kolarczyk, MD
(SCA150) Variations in Mitral Valve Reserve Function in Ischemia Cardiomyopathy in Nonregurgitant Valves
Faraz Mahmood, MD; Eitezaz Mahmood, BA; Jeffrey Bortman, BS; Ruby Feng, BA; Zhubeng Gao, MD; Robina Matyal, MD; Feroze Mahmood, MD; Kamal R Khabbaz

(SCA151) Transcatheter Tricuspid Valve Replacement in a Native Tricuspid Valve with a Novel Atrioventricular Valved Stent
Derek Atkinson, MD; Matthew Barajas; Isaac Wu, MD

(SCA152) Transcatheter Mitral Valve Replacement in a Native Mitral Valve With a Novel Dual-Stent Device
Matthew Barajas, MD; Isaac Wu, MD; Derek Atkinson, MD

Satoshi Jujo, MD; Osamu Kobayashi, MD PhD; Yukio Takahashi, MD; Junshi Kawakami, MD; Eriya Imai, MD

(SCA154) Transatrial Implantation of a Balloon-Expandable Transcatheter Heart Valve in a Patient With Severe Mitral Annular Calcification
Todd Dodick, MD; Isaac Wu, MD

(SCA155) Advancing Anesthetic Management in Transcatheter Aortic Valve Replacement
Heidi Davis, DO; Kimberly Nicol, DO; Joseph Sanders, MD

Visit us at booth 501
SCA 2018 annual congress

Visit Masimo Booth #400
**ABSTRACTS/POSTERS**

**TUESDAY, MAY 1 | NOON–1 PM**

(SCA156) Prekallikrein Deficiency: A Challenge in Management of Anticoagulation on Cardiopulmonary Bypass  
Shyamal Asher, MD; Daniel FitzGerald, CCP; Jean Connors, MD; Agnieszka Trzcinka, MD

(SCA157) Aortic Valve Replacement and Coronary Artery Bypass Grafting in a Patient With Erythropoietic Protoporphyria  
Lu Zheng, MD; Donna Kucharski, MD

(SCA158) Aortic Valve Replacement and Coronary Artery Bypass Grafting in a Patient With Erythropoietic Protoporphyria  
Lu Zheng, MD; Donna Kucharski, MD

(SCA159) Unexpected Intraoperative Discovery of Type A Aortic Dissection  
Ronny Munoz-Acuna, MD; Alexander Shapeton, MD; Megan Krajewski, MD

(SCA160) Implantation of Heartware Ventricular Assist Device in Right Atrium on a Patient With Right Ventricular Failure From the D-Transposition of Great Arteries and the Mustard Procedure  
Jeongae Yoon, MD; Yoshiya Toyoda; Gordon Morewood, MD

(SCA161) A Case Report of Left Subclavian TAVR Under Combined Interscalene and Pectoralis Nerve Block With Moderate Sedation  
Michael Block, MD; Darsi Pitchon; Jaeyoon Chung, MD; John Entwistle, MD; Eric Schwenk, MD; Jaime Baratta; Nicholas Ruggiero, MD; Jordan Goldhammer, MD

(SCA162) The Value of Dynamic 3-Dimensional Proximal Isovelocity Surface Area: Preventing Unnecessary Mitral Valve Replacement in a High-Risk Patient  
Andre Gosling, MD; Jeffrey Lyvers, MD; Frederick Cobey, MD

(SCA163) Laparoscopic Sleeve Gastrectomy in a Patient With Fontan Physiology  
Christina Jelly, MD; Kathryn Slattery, MSN; Man Piu (Mark) Wong, MD

(SCA164) A Case of the “Otomies”: Redo-Sternotomy Patient With a Sternal Osteophyte Penetrating the Ascending Aorta  
Raiyah Sheriffdeen, MD; Daryl Oakes, MD; Ethan Jackson, MD

(SCA165) Acute Right Ventricular Failure After Surgical Drainage of Pericardial Tamponade: A Case Report of Pericardial Decompression Syndrome and Review of the Literature  
Jaeyoon Chung, MD; Jordan Goldhammer, MD; Corey Herman, MD; Elizabeth Wolo, MD; Levi Ocken, MD

(SCA166) Embolization of Prosthesis During Transcatheter Aortic Valve Replacement: Are We Doing Our Measurements Correctly?  
Andre Gosling, MD; Frederick Cobey, MD; John Fox, MD; Ali Elsayes, MD; Prakash Patel, MD

Laaben Lester, MD; Mariam Salisu, MD; Domagoj Mladinov, MD; Kimberly Hollander, MD

(SCA168) Mutation of Titin as the Etiology of Dilated Cardiomyopathy: A Case Report  
Gloria Rodriguez, MD; Rafael Cabrales, MD

(SCA169) Placement of Amplatz™ Amulet™ Left Atrial Appendage Occluder  
Marcus Behrens, MD; Aaron Reynolds, MD

(SCA170) Emergent Percutaneous Aortic Valve Replacement Complicated by Arrest, Requiring ECMO and Impella Support  
John Kaminski, MD; Jamel Ortoleva, MD; John Mitchell, MD; Shahzad Shaefi, MD

(SCA171) Pulmonary Endarterectomy in 19-Year-Old Female With May-Thurner Syndrome and Bilateral Pulmonary Emboli Requiring Veno-Arterial Extracorporeal Membrane Oxygenation  
Michelle DaCosta, MD; Michael Duggan, MD

(SCA172) Repair of Acute Aorto-Pulmonic Endocarditis Complicated by Aortic Root Abscess and Aorto-Pulmonary Fistula  
Aki Shinaishin, MD

(SCA173) Transatrial Deployment of Sapien 3 Valve for Mitral Stenosis Via Redo-Redo Sternotomy  
Christina Jelly, MD; Michael Fitzsimons, MD; Yasmine Tameze, MD

(SCA174) Right Atrium-Superior Vena Cava Junction Rupture in Blunt Thoracic Trauma  
Ettore Crimi, MD; John Heinbokel, MD; Bao Hoang, MD

(SCA175) Transesophageal Echocardiographic Guidance for Transseptal Puncture in a Patient With Previous Septal Occluder Device Presenting for PVI Ablation  
Pierre LeVan, MD; Mina Oftadeh; Kimberly Burcar, MD; Michael Majewski, MD

(SCA176) Withdrawn

(SCA177) Complicated Pacemaker Insertion in a Patient With Undiagnosed Cor Triatriatum Dexter  
Rafael Cabrales, MD; Rebecca Wong, MBBS
(SCA178) Successful Hemostatic Management of a Patient With Indeterminate Type Von Willebrand Disease Undergoing Coronary Bypass Surgery
Timothy Del Rosario, MD; Ankit Jain, MBBS; Darius Jamschidian, MD

(SCA179) Serious Brain Injury Possibly Caused by Cerebral Hyperperfusion Syndrome During Total Arch Replacement With Selective Antegrade Cerebral Perfusion
Yuki Okazawa, MD; Yoshiki Ishiguro, MD

(SCA180) Cardiac Tamponade—A Rare But Deadly Complication Following Laparoscopic Paraesophageal Hernia Repair
Sharadha Devi Gunasekaran, MD; Joseph Sanders, MD

(SCA181) Symptomatic Left Atrial Blood-Filled Cyst Characterized by 3-Dimensional Transesophageal Echocardiography
Orlando Suero, MD; Adam Lichtman, MD

(SCA182) Anesthesia Considerations for Williams Syndrome
Vicki Bing, MD; Samhati Mondal, MD; Nadia Hensley, MD

(SCA183) Change in Capnography Waveform With Endobronchial Tubes
Paul Lee, MD; Steven Haddy, MD

(SCA184) Transesophageal Echocardiography in the Intraoperative Management of Renal Cell Carcinoma With Inferior Vena Cava Thrombus
Denic Diep, MD; Malcolm Lucy, MD; Ashraf Fayad, MD

(SCA185) Anesthetic Implications and Management of an Anomalous Left Coronary Artery From the Pulmonary Artery in an Infant
Sheela Ann Datukon, MD; Geraldine Raphaela Jose, MD

(SCA186) Severe Endocarditis With Aortopulmonary Fistula and Thrombocytopenia in a Patient With Cirrhosis Secondary to Remote Schistosomiasis
Gretel Zamora-Berridi, MD; Mabel Chung, MD

(SCA187) Mitral Valve Repair and Valve-Sparing Aortic Root Replacement in a 19-Year-Old Patient With Marfan Syndrome
Zachary Bastian, MD; Kimberly Burcar, MD; Jenny Kwak, MD

(SCA188) Respecting Islam in the Management of End-of-Life Care on ECMO
John Hui, MD; Jonathan Fox, MD

(SCA189) A Rare Case of ALCAPA, 3 Times Repaired
Yi Yi Liu, MD; Jordan Socolar, MS; Henry Shih, MD

(SCA190) Right Ventricular Injury Caused by Internal Cardiac Compressions in the Setting of Severe Protamine Reaction
Nathan Weltman, MD; Samhati Mondal, MD; Viachaslau Barodka, MD

(SCA191) Idiopathic Severe Mitral Stenosis in Young Male Requiring Mitral Valve Repair
Karthik Dwarki, MD; Matthew McConnell, MD

(SCA192) Aortic Root Aneurysm 16 Years After Aortic Valve Repair
Sofia Diaz, MD; Daniel Kinney, MD; Nat Dumrongmongsuk, MD

(SCA193) Left Ventricular Assist Device Implantation in Patient With Complex Congenital Disease and Dextrocardia
Nikola Bradic, MD; Zdenko Povsic-Cevra, MD; Mislav Planinc, MD; Daniel Unic, MD; Sandra Jaksic Jurinjak, MD

(SCA194) The Value of Institutional Protocols and Focused Cardiac Ultrasound Examination During a Case of Ultra-Massive Transfusion
Muhammad Salman Tahir Janjua, MD; Shivank Agarwal, MD; Manuel Castresana, MD

(SCA195) Post-Cardiac Surgery Tamponade Diagnosed With Transthoracic Echocardiography
John Kaminski, MD; Julia Larson, BS; Shahzad Shaefi, MD; Daniel Walsh, MD

(SCA196) Creation of a Novel In Vitro Model of Dilutional Coagulopathy to Functionally Assess Thrombin Generation of Cryoprecipitate in Normal Plasma
Reed Kamyszek, BS; Keaton Stoner, BS; Amudan Srinivasan, BS; Andrea Ansari, BS; Ian Welsby, MD

(SCA197) Use of Prothrombin Complex Concentrate Versus Fresh Frozen Plasma for Bleeding After Cardiac Surgery: A Propensity-Score Matching Analysis
John Fitzgerald, MD; Martin Lenihan, MB; Combiatore Srinivasa, MD; Stuart McCluskey, MD; Kevan Karkourti, MD

(SCA198) Guideline-Based Approach for Factor Concentrate Utilization: Lower Dose Four-Factor Prothrombin Complex Concentrate Does Not Increase Chest Tube Output or Blood Product Usage in High-Risk Cardiac Surgical Patients
Kinz Sentissi, MD; John Fox, MD; Jessica Rimsans, PharmD; Jean Connors, MD; Marc Pelletier, MD; Xinling Xu, PhD; Richard Kaufman, MD

(SCA199) The Velocity Curve of the Clotting Waveform of Rotational Thromboelastometry Predicts Bleeding After Cardiac Surgery but Conventional Rotational Thromboelastometric Parameters Do Not
Dhong Eun Jung, MD; Karam Nam, MD; Yunseok Jeon, MD; Tae Kyong Kim, MD; Woo Young J, MD; Sehee Yoon, MD; Jooh Kwak, BS; Youn Jung Cho, MD

(SCA200) Impact of Individualized Heparin Management on Transfusion Rates in Cardiac Surgery: A Single-Center Retrospective Analysis
Mabel Chung, MD; Michael Andrawes, MD; Kenneth Shann, CCP; Sarah Payne, BS; Hang Lee, PhD; Sara Burns, MS

(SCA201) Withdrawn

(SCA202) Contemporary Analysis of Prothrombin Complex Concentrate Exposure at a University Academic Center
Prakash Patel, MD; Monique Roberts, MD; Pardis Niami, PharmD; Sunberri Murphy, DO; Saumil Patel, MD; John G. Augoustides, MD; Jacob Gutsche, MD; Todd Hecht, MD; Stuart Weiss, MD
(SCA203) Reviewing the Impact of Red Blood Cell Transfusion in Ascending Aortic Replacement Surgeries With Deep Hypothermic Circulatory Arrest
Warren Choi, MD; Shao Feng Zhou, MD; Keith Warner, MD; Roy Sheinbaum; Hazim Safi

(SCA204) Perioperative Plasmapheresis for Acute Heparin Induced Thrombocytopenia
Cassius Kwasi Mensah, MD; Sonia Nhieu, MD

(SCA205) Usability of ROTEM for Indicator of Clotting Ability After Cardiopulmonary Bypass During Open Heart Surgery
Kazuhiro Shirozu, MD; Yuji Karashima, MD; Sumio Hoka, MD

(SCA206) Arterial Catheterization Practice Among Cardiac Anesthesiologists: A Survey of Society of Cardiovascular Anesthesiologist Members
Elizabeth Vue, MD; Christopher Tanaka, MD

(SCA207) Standardization and Provider Consensus to Reduce Cardiac Case Drug Cost and Waste
Lyndsey Graber, MD; Benjamin Abrams, MD; Nathan Clendenen, MD; Nathaen Weitzel, MD

(SCA208) A High-Fidelity Pericardiocentesis Training Model
Yanick Baribeau; Robina Matyal, MD; Jeffrey Bortman, BS; Faraz Mahmood, MD; Ruby Feng, BA; Zhifeng Gao, MD; Ruma Bose, MD; John Mitchell, MD; Feroze Mahmood, MD

(SCA209) Examining the Use of Intraoperative Recombinant Antithrombin III in Heparin Resistance—Practice Patterns at a Large Academic Medical Center
Rishi Vashishta, MD; Brent Darden, PharmD; Robert Raiff, PharmD; Madhav Swaminathan, MD; Cory Maxwell, MD

Lisa Rong, MD; Robert White, MD; Kathleen Sullivan, MD; Gulce Askin, MPH; Christopher Tam, MD

(SCA211) Evaluating the Economic Impact of Single-Use Disposable Bronchoscopes in a High Volume Academic Thoracic Surgery Practice
Eric JohnBull, MD; Rebecca Klinger, MD; Kent Smith, CerAT; Madhav Swaminathan, MD; Cory Maxwell, MD

(SCA212) Use of 3-Dimensional Printing to Create Patient-Specific Abdominal Aortic Aneurysm Models for Preoperative Planning of Fenestrated Endovascular Aortic Repair
Jeffrey Bortman, BS; Robina Matyal, MD; Faraz Mahmood, MD; Yanick Baribeau; Ruby Feng, BA; Ruby Lo; Nicholas Swerdlow, MD; Marc Schermerhorn; Ruma Bose, MD; John Mitchell, MD; Feroze Mahmood, MD; Valeria Hunter

(SCA213) Audit of Anesthesiology Performed Perioperative Transthoracic Echocardiography at University Medical Center—A Quality Improvement Project
Lora Yehushua, MD; Boisen Michael, MD; Dennis Phillips, DO; Kathirvel Subramaniam, MD

(SCA214) Withdrawn

(SCA215) Comparison of Perioperative Hypothermia Rates in Cardiac Cases Using Forced-Air Warming (With Reflective Blankets) and Circulating-Water Warming Systems
Aija Zimmermann, BS; Frederick Cobey, MD; Emily Penick, MD; Michael Casimir, MD

Aurelie Merlo, MD; Benjamin Halthcock, MD; Rodrigo Fano, BS; Lyla Hance, MPH; Paula Strassle, MSPH; Emily Teeter, MD; Lavinia Kolarczyk, MD

(SCA217) Translating Outcomes Into Action: Using Society of Thoracic Surgeons Database to Drive the Development of a Multidisciplinary Quality Improvement Group to Address Blood Product Administration Rates
Michael Greenberg, MS; Meena Bhatia, MD; John Ikonomidou, MS; Lavinia Kolarczyk, MD

(SCA218) Examining the Use of Recombinant Antithrombin III in Critically Ill Intensive Care Patients—Practice Patterns at a Large Academic Medical Center
Eric JohnBull, MD; Brent Darden, PharmD; Robert Raiff, PharmD, Madhav Swaminathan, MD, Cory Maxwell, MD

(SCA219) Clinical Outcomes of Paravertebral Analgesia for Transapical Transcatheter Aortic Valve Replacement
John Cagino, MD; Saroj Pani, MD; Sridhar Musuku, MD; Rachael Judge, RN

(SCA220) Reducing Cost for Blood Product Preparation During Lung Transplant Surgery
Alina Hulsey, MD; Benjamin Bryner, MD; John Hunting, MPH; Nazish Hashmi, MD; Ian Welsby, MBBS; Jacob Klapper, MD; Jessica Poisson, MD; Brandi Bottiger, MD

(SCA221) A Survey of Cardiovascular Anesthesiologists’ Opinions on the Hemostatic Efficacy and Barriers to the Use of Cryoprecipitate
Nadia Krasner, PhD; Marc Stern, MBA; Karen Giordano, MS

(SCA222) Survey of Requests for Cardiac Anesthesia Care Outside of Cardiac Surgery
Nami Phuong Tran, MD; Michael G. Fitzsimons, MD

(SCA223) Congruity and Adherence to ASE Standard Perioperative TEE Exam at a Tertiary Medical Center: A Quality Improvement Project
Benjamin Levin, MD; Angus Christie, MD

Nadia Krasner, PhD; Joanne Meisner, MPH; Marc Stern, MBA; Karen Giordano, MS
(F5) Coronary Sinus Catheter-Induced Heart Block During Aortic Valve Replacement
Aaron Dahl, MD; Daniel Emmert, MD; Teresa Murray-Torres, MD

(F6) A Case of Significant Hypercapnia and Pneumoperitoneum During Coronary Artery Bypass Grafting
Jessica Serini, DO; Michael Grant, MD; Anubhav Kapoor, MD

(F7) Management of Heparin-Induced Thrombocytopenia in a Patient Undergoing Orthotopic Heart Transplantation Utilizing Cardiopulmonary Bypass
Zuhair Siddiqui, MD; Kirsten Steffner, MD; Jacob Schaff, MD; Sonali Shah, MD

(F8) The Expanding Role of Extracorporeal Membrane Oxygenation: A Case Series
Andrew Maresch, MD; Tara Brakke, MD; Shaun Thompson, MD; HelenMari Merritt-Genore, DO

(F9) Intraoperative Management of Systolic Anterior Motion of the Anterior Mitral Leaflet
Joshua Korte, MD; Benu Makkad, MD

(F10) Unexpected Massive Pulmonary Embolism Detected via Transesophageal Echocardiography During Open Heart Aortic Valve Replacement
Andy Chao Hsuan Lee, MD; Clinton Kakazu, MD; Puneet Dhawan, MD

(F11) Case Report: Nonbacterial Thrombotic Endocarditis
Ankur Srivastava, MD; Ying Hui Low, MD

(F12) Localization of an Elusive Prosthetic Mitral Valve Paravalvular Leak by 3D Color TEE
Surbhi Mathur, MBBS; Muhammad Salman Tahir Janjua, MD; Shvetank Agarwal, MD

(F13) Oh, the Places a Valve Can Go: A Tale of 2 TAVRs
Dan Rosenkrans, MD; Emily Teeter, MD; Brian Barrick

(F14) Intraoperative Management of a Mobile, Bialtrial Thrombus in a Patient With PFO Causing Stroke and Cannula Obstruction
Jamie Fleming, MD; Philip Kracpchev, MD; Elifce Cosar, MD

(F15) Coronary Artery Bypass Graft Surgery in a Patient with Unknown Hemophilia B
Blaine Farmer, MD; Rohesh Fernando, MD

(F16) The Value of Institutional Protocols and Focused Cardiac Ultrasound Examination During a Case of Ultra-Massive Transfusion
Muhammad Salman Tahir Janjua, MD; Shvetank Agarwal, MD; Manuel Castresana MD

(F17) Bioprosthetic Valve Thrombosis in Carcinoid Heart Disease
Kimberly Hollander, MD; Brijen Joshi, MD

(F18) Clinical Considerations for Persistent Bleeding in a Patient Who Received tPA Undergoing Cardiopulmonary Bypass
Leonard Lee, MD; Amrik Singh, MD; Neal Fleming, MD

(F19) Listeria Bacterial Endocarditis
Kenneth Neff, MD; Lorraine Lubin, MD

(F20) End of the Line: Administration of Intraoperative Tissue Plasminogen Activator for the In Extremis Patient With Massive Thrombosis of Avalon Catheter
Ashley Fritz, DO; Courtney Scott, DO; Archer Martin, MD

(F21) Listeria Bacterial Endocarditis
Kenneth Neff, MD; Lorraine Lubin, MD

(F22) Intraoperative Stroke During Robotic Totally Endoscopic coronary Artery Bypass (TECAB)
Jennette Hansen, MD; Mark Chaney, MD

(F23) What is Ejection Fraction in the Setting of Large Left Ventricular Aneurysm?
Nam Phuong Tran, MD; Gaston Cedemus, MD

(F24) Nowhere to Clamp: A Case of an Infected Thoracic Endovascular Aortic Graft
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Dean Bowker, MD; Swapnil Khoche, MBBS

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(F149) V-V ECMO to Support Whole Lung Lavage for Pulmonary Alveolar Proteinosis
Thanh-Giang Vu, MD; Victor Ng, MD

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**Exhibits Information**
The following events will take place in the hall:

**Saturday, April 28**
Exhibits Open: 3:30–4:30 pm  
Coffee Break: 3:30–4:30 pm

**Sunday, April 29**
Exhibits Open: 7 am–6:45 pm  
Breakfast: 7–8 am  
Coffee Breaks: 10:30–11 am; 3–3:30 pm  
Lunch: 12:30–1:30 pm  
Reception: 5:45–6:45 pm

**Monday, April 30**
Exhibits Open: 7 am–1:30 pm  
Breakfast: 7–8 am  
Coffee Break: 10–10:30 am  
Lunch: 12:30–1:30 pm

**Non-CME Corporate Satellite Symposia**
The material presented in these symposia is not affiliated with the education content of this meeting or SCA.

**Saturday, April 28 | Noon–1 pm**  
*Location: Grand Saguaro East/West*  
Healthcare-Associated Infections and Blood Transfusions: Diagnosing This “Never Event” and Progress Toward a Solution  
Supported by Cerus

**Sunday, April 29 | 12:30–1:30 pm**  
*Location: Grand Saguaro East/West*  
**CEREBRAL OXIMETRY: Applications and Evolving Concepts in the Care of the Cardiac Patient**  
Supported by CASMED

**Monday, April 30 | 12:30–1:30 pm**  
*Location: Grand Saguaro East/West*  
**Advancing Noninvasive Patient Monitoring in Cardiovascular Anesthesiology**  
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TAS Schedule

FRIDAY, APRIL 27

7 am–6 pm
Registration Open

7–7:50 am
Continental Breakfast With Exhibitors

7:50–8 am
Opening Remarks

8–9 am
Panel 1: Thoracic Dramas
Moderator: Philip Hartigan, MD

8–8:20 am
Three Flavors of Tracheal Obstructions Philip Hartigan, MD
8:20–8:40 am
Broncho-Pleural Fistula Andrew Levin, MBChB
8:40–9 am
Thoracic Trauma Ferenc Puskas, MD

9–9:30 am
Three Best Papers in Thoracic Anesthesia
Moderator: Peter Slinger, MD

9:30–9:45 am
Coffee Break With Exhibitors

9:45–10:45 am
Workshop Breakout 1

10:45–11:45 am
Workshop Breakout 2

WORKSHOP BREAKOUT SESSIONS

Workshop coordinators: Javier Campos, MD; Jagtar Singh Heir, DO
During each of these breakout sessions, attendees will participate in 1 of 3 possible workshops. If you have any questions about your workshop assignments, please visit the registration desk.

Topic A Grand Sonoran A
Lung Isolation: Normal and Challenging Airway
Moderator: Kenichi Ueda, MD
Faculty: Diana Anca, MD; Brandi Bottiger, MD; Richard Galgon, MD; Kenichi Ueda, MD

Topic B Grand Sonoran B
Thoracic Ultrasound: Diagnosis and Management
Moderator: Massimiliano Meineri, MD
Faculty: Chris Durkin, MD; George Kanellakos, MD; Donn Marciniak, MD; Massimiliano Meineri, MD

Topic C Grand Sonoran C-D
Chest Decompression: Tubes, Needles, and Emergencies
Moderator: Emily Teeter, MD
Faculty: Benjamin Haithcock, MD; Lavinia Kolarczyk, MD; Emily Teeter, MD
FRIDAY, APRIL 27 (continued)

11:45 am–12:45 pm
Lunch With Exhibitors

12:45–1:15 pm
Top Abstracts and Difficult Cases
Moderators: Alessia Pedoto, MD; Arne Neyrinck, MD

1:15–2 pm
Poster Session
Organizers: Alessia Pedoto, MD; Arne Neyrinck, MD

2–3 pm
Session 1: Everyday Challenges
Moderator: Javier Campos, MD
2–2:20 pm COPD and the Thoracic Surgical Patient Alan Ross, MD
2:20–2:40 pm Thoracic Surgery in the Morbidly Obese: Challenges and Complications Javier Campos, MD
2:40–3 pm Noninvasive Ventilation to the Rescue in the PACU! Jens Lohser, MD

3–4 pm
Moderator: Wanda Popescu, MD
3–3:20 pm Pre-Op Training and Prehabilitation Donna Greenhalgh, MD
3:20–3:40 pm Surgical Aspects of ERAS Tim Batchelor, MBChB
3:40–4 pm Anesthesia Aspects of ERAS Emily Teeter, MD

4–4:15 pm
Coffee Break With Exhibitors

4:15–5:15 pm
Session 2: Experts and Controversies
Moderator: Arne Neyrinck, MD
4:15–4:45 pm Pro/Con Debate: Liposomal Bupivacaine
Pro: E. Andrew Ochroch, MD
Con: Timothy Jackson, MD
4:45–5:15 pm Town Hall with Experts E. Andrew Ochroch, MD; Timothy Jackson, MD; Arne Neyrinck, MD; Wanda Popescu, MD; Ferenc Puskas, MD

5:15–5:45 pm
Reception With Exhibitors

5:45–6:30 pm
Thoracic Jeopardy!
Moderator: Peter Slinger, MD

FOR SATURDAY’S TAS PBLDs, PLEASE SEE PAGE 35.
If you would like to purchase a ticket for one of the PBLDs, visit the registration desk.
TAS Oral and Poster Abstracts

TAS Top Abstracts and Difficult Cases

(TAS1) Effects of Inhaled Iloprost on Lung Mechanics and Biventricular Function Assessed by Tissue Doppler Echocardiography During 1-Lung Ventilation in Patients With Chronic Obstructive Pulmonary Disease Combined With Poor Lung Oxgenation
Young Jun Oh, MD; Namo Kim, MD

(TAS2) Critical Care After Lung Resection—Incidence and Outcome
Ben Shelley, MD; Izabella Orzechowska, MSc; Adam Glass, MB; Philip McCall, MBChB

(TAS3) Physiology of Lung Collapse During 1-Lung Ventilation
Olivier Moreault, MD

Poster Session | 1:15–2 pm  Grand Sonoran F

(TAS4) Thoracic Epidural Anesthesia for Awake Video-Assisted Thoracic Surgery
Brian Tolly, MD; Hak Wong, MBBS

(TAS5) The Association Between Intraoperative Driving Pressure and Outcome Following Lung Resection
Ben Shelley, MD; Andrew McLean, BSc; Adam Glass, MB; Martin Shaw, PhD; John Kinsella, MD; Philip McCall, MBChB

(TAS6) Perioperative Management of Patient With Tracheobronchomalacia
Mamta Chura, MBBS; Maria Bauer, MD

(TAS7) Lung Separation in Children: Options and Impact on Gas Exchange and Lung Compliance
Emad Mossad, MD

(TAS8) Traumatic Pulmonary Herniation From Blunt Chest Trauma
David Bashover, MD; Johnathan Stubblefield, MD; Tiffany Moon, MD

(TAS9) A Novel Algorithm for Identifying OLV Time in Retrospective Datasets
Ben Shelley, MD, Andrew McLean, BSc; Adam Glass, MB, Martin Shaw, PhD; John Kinsella, MD; Philip McCall, MBChB

(TAS10) Open Thoracotomy for Partial Denture Ingestion in Intravenous Drug User
Brian Abiri, DO; Dung Nguyen, MD; Dinesh Ramiah, MBBS; Annette Rebel, MD; Patrick Myszak, CRNA

(TAS11) Mycobacterium Avium Complex Infection of Biventricular Implantable Cardioverter-Defibrillator Leads
Samantha Arzillo, MD; Edward McGough, MD

(TAS12) Complete Bronchus Transection After Blunt Trauma
Dung Nguyen, MD; Shira Gambrel, MD; Sean Lawson, CRNA MSN, APRN; Brian Abiri, DO

(TAS13) Intraoperative Management of a Young Woman With Hypertrophic Cardiomyopathy and Ectopic Cushing Syndrome Secondary to a Thymic Carcinoid Presenting for Radical Thymectomy
Jamie Sparling, MD; Bushra Taha, MD

(TAS14) Anesthesia for Right Pneumonectomy and Right Lower Lobe Autotransplant
Aaneel Deshmukh, MD; Edward McGough, MD

(TAS15) Role of Percutaneous Coronary Sinus Catheter in Future Cardiac Surgery
Achillina Rianto, MD; Enrique Pantin, MD; Antonio Chiricolo, MD

(TAS16) Critical Care After Lung Resection—Influence of Anaesthetic and Analgesic Technique
Ben Shelley, MD; Izabella Orzechowska, MSc; Adam Glass, MB; Philip McCall, MBChB

(TAS17) Intraoperative Dexmedetomidine Infusion Resulted in Decreases in Both Pro- and Anti-Inflammatory Cytokines in Lung Resection Surgery: A Randomized Controlled Trial
Hyun Joo Ahn, MD; Jie Ae Kim, MD; Mkyoung Yang, MD; In Sun Song

(TAS18) Malignant Pulmonary Vein Thrombosis Causing Multiple Embolic Phenomena
Denise Franko, MD; Adnan Malik, MD
(TAS19) Complications From Pneumonectomy in a Patient With Severe Hypothyroidism Secondary to Immunotherapy: A Case Report and Discussion of Anesthetic Considerations
Alexandra Lewis, MD MSc; Alessia Pedoto, MD; James Isbell; David Jones, MD; Monique James, MD MPH

(TAS20) Is Amiodarone Associated With Hyponatremia When Used for Atrial Fibrillation Prophylaxis After Anatomic Lung Resection?
Jacob Jackson, MD; David Amar, MD; Hao Zhang, MD; Alessia Pedoto, MD; Gregory Fischer, MD; Isbell James

(TAS21) Effect of Preoperative Gabapentin and Acetaminophen on Opioid Consumption in Video-Assisted Thoracoscopic Surgery: A Retrospective Study
Robert Qiu, MD; Nitin Sukumar, MS; Feng Dai, PhD; Albert Perrino, MD; Wanda Popescu, MD

(TAS22) Successful Use of Pectoral Type II and Serratus Anterior Fascial Plane Blocks Utilizing Liposomal Bupivacaine for Postoperative Pain Management for a Single Lung Transplantation
Perin Kothari, DO; Jennifer Hargrave, DO

(TAS23) Erector Spinae Plane Block for Postoperative Analgesia After Thoracotomy
Sin Yeong An, MD; David Li, MD; Orote Badakhsh, MD; Leonard Lee, MD

(TAS24) Does a Combination Paravertebral Block and Intercostal Block Provide Better Pain Control Following Video-Assisted Thoracic Surgery Than Either Modality Alone?
Joseph Schwartz, MD; Christopher Tanaka, MD

(TAS25) Continuous Erector Spinae Plane Block Facilitates Opioid Sparing After VATS Surgery: A Case Series
Rebecca Klinger, MD; Rebecca Anderson, MD; Tera Cushman, MD; Thomas D’Amico, MD

(TAS26) When 1-Lung Ventilation Becomes No Ventilation: A Jet Ventilation Rescue
Matthew Rowland, MD; Sergey Karamnov, MD; Phillip Hartigan, MD; Raphael Bueno, MD; Jeffrey Swanson, MD

(TAS27) Tracheoesophageal Fistula: Unique Airway Strategies for Repair
Meredith Whitacre, MD; Meghan Brennan, MD; Heather Reed, MD

(TAS28) Tracheal T-Tubes: Anesthetic Management in Tracheal Stenosis
Matthew Rowland, MD; Ju-Mei Ng, MD

(TAS29) Clinical Experience of Lung Isolation in a Patient With Rhabdomyosarcoma of the Vocal Cord Following Partial Laryngectomy
Alexandra Lewis, MD

(TAS30) Anesthetic Management of Aortic Homograft Reconstruction for Tracheolaryngeal Surgery
Christina Jelly, MD; Xiaodong Bao, MD; Paul Alfille, MD

(TAS31) A Novel Anesthetic Approach for Tracheal Dilatation in a Heart Failure Patient
Juan Restrepo Cardenas, MD; Nisha Dave, DO; Yilam Rodriguez Blanco, MD; Oscar Aljure, MD; Sixto Arias, MD

(TAS32) Anesthetic Management of Minimally Invasive Bilateral Transthoracic Atrial Maze Procedure for Chronic Atrial Fibrillation—A Single Institution Experience
Zhou Sun, MD; Ping Fu; Ankit Jain, MBBS; Vijay Patel, MD; Shvetank Agarwal, MD

(TAS33) Right Heart Failure, Pulmonary Hypertensive Crisis, Hypovolemia, or Ischemia? Diagnostic Challenges After Pulmonary Thromboendarterectomy
Joseph Pena, MD; Marie-Louise Meng, MD

(TAS34) Pulmonary Artery Catheter Diagnostic Utility in Acute [[WORD MISSING?]] on Chronic Right Heart Failure
Leigh Hickerson, MD; Ryan Hofer, MD

(TAS35) Is Mean Arterial Pressure an Adequate Index of Tissue Perfusion During Minimally Invasive Esophagectomy?
Daniel Tran, MD; Hesham Ezzy, MChB; Paul Heerdt, MD; Lingzhong Meng, MD

(TAS36) It’s Not a Protamine Reaction
Zachary Woodward, MD; James P. Lee, MD; Charles B. Nyman, MD; Nicholas Sadovnikoff, MD; Alissa Sodickson, MD; Paige Georgiadis, MD; Sergey Karamnov, MD

(TAS37) An Approach for Rapid Perioperative Detection of Changes in Right Ventricular Contractility/Afterload Balance
Ryan Noska, MD; Hesham Ezzy, MD; Manuel Fontes, MD; Paul Heerdt, MD
TAS Exhibitors

Exhibitor ................................................................. Booth #
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