

SCA 38TH ANNUAL MEETING & WORKSHOPS

Clinical Decision Making in
Cardiovascular Anesthesiology
and Perioperative Medicine

April 2–6, 2016

Manchester Grand Hyatt
San Diego

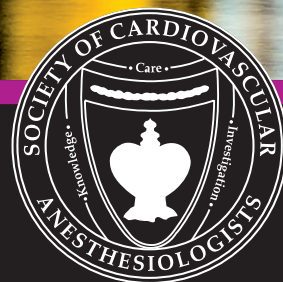
San Diego, CA



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www.scahq.org/2016AnnualMeeting



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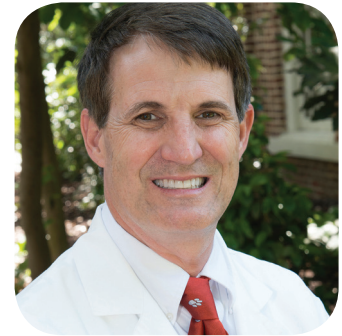
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FASE
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FFICM FRCA
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William (Skip) C. Culp Jr., MD FASE
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Frederic (Josh) T. Billings IV, MD
Tara R. Brakke, MD FASE
C. David Collard, MD MS
J. Mauricio Del Rio, MD
Donna L. Greenhalgh, MB
ChB FFICM FRCA

Paul M. Heerdt, MD PhD
FCCP
Laureen L. Hill, MD MBA
Jonathan Ho, MD
Gregory M. Janelle, MD
FASE
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G. Burkhard Mackensen, MD
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Yasdet Maldonado, MD
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Stanton K. Shernan, MD
FASE
Sasha K. Shillcutt, MD FASE
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Andrew S. Weisinger, MD
FASE

General Information

Target Audience

The target audience for this educational activity includes physician anesthesiologists involved in the care of patients undergoing cardiovascular and thoracic surgery, critical care physicians, general anesthesiologists, nurses, perfusion professionals, and other allied health personnel. All staff involved in the care of cardiovascular and thoracic surgery patients will benefit from attending this meeting.

Statement of Need

Why You Should Attend

Cardiovascular and thoracic anesthesiology is a rapidly developing specialty that continues to evolve in line with the rest of the medical cardiovascular disciplines. Advances in the field include new percutaneous valve interventions, increased use of minimally invasive surgical techniques, novel heart failure devices and electrophysiology procedures with expanded indications, and an increasingly elderly surgical patient population. The 38th Society of Cardiovascular Anesthesiology (SCA) Annual Meeting & Workshops will include didactic lectures, pro-con debates, rapid-fire discussion sessions, problem-based learning discussions, and workshops organized by acknowledged experts centered on patient-oriented educational programs. These educational offerings will equip learners with the requisite skills and concepts necessary for competent and safe care of cardiovascular and thoracic surgical patients. The structure and format of the program ensures that learners are provided with state-of-the-art materials in a variety of teaching and learning environments, inclusive of the various adult learning styles.

What You Can Expect to Gain

The 38th SCA Annual Meeting & Workshops will provide attendees with information about current perioperative management of adult and pediatric patients undergoing cardiac and thoracic surgical procedures. In addition, this meeting will provide multiple workshops designed to give the learner more practical experience in ultrasound imaging, percutaneous valve surgery, transthoracic echocardiography, and extracorporeal support. The presentations in these sessions are designed to enhance the clinical knowledge, competence, and performance of those who attend and will feature content appropriate for professionals at several experience levels.

By participating in this meeting, attendees can expect to be able to

- describe the latest advances in perioperative cardiovascular medicine
- critique current trends in clinical and bench research pertinent to cardiovascular medicine
- evaluate new techniques and diagnostic and interventional procedures in cardiothoracic and vascular anesthesiology.

More specifically, this meeting will provide attendees with an opportunity to

- review more than 400 poster presentations to stay up to date with the latest developments in clinical care and future research direction
- ask questions, engage in debate regarding controversies, and pose questions to speakers
- interact with experts in all areas of adult and pediatric cardiovascular anesthesiology
- discuss issues related to quality of care, including database participation, as mechanisms to assist with quality improvement work within their own institutions
- debate the best way to translate scientific discoveries into clinical practice
- connect with colleagues in different practice settings at numerous networking events, including exhibitor and poster presentation sessions.

CME Accreditation

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

Credit Designation

The Society of Cardiovascular Anesthesiologists designates this live activity for a maximum of 34.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

WIRELESS CONNECTION

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38th Annual Meeting

The registration fee includes continental breakfasts, coffee breaks, (1) lunch, (1) reception, and the electronic syllabus. The annual meeting is certified for a maximum of 34.00 credit hours.

Workshops

The registration fee includes workshops, continental breakfasts (morning workshops), coffee breaks, and the electronic syllabus. Each of the nine workshops is certified for a maximum of 3 credit hours.

Problem-Based Learning Discussions (PBLDs)

The registration fee includes a breakfast buffet and the electronic syllabus. Each of the sessions is certified for a maximum of 1.25 credit hours.

Disclaimer

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

Claim Your CME

To claim CME credit, visit scahq.org/2016annualmeeting to complete your 2016 SCA Annual Meeting & Workshops evaluations. You must complete the evaluations to claim your CME credit.

Successful completion requires that participants register for the meeting, attend, participate, and complete an online evaluation. Participants will receive their CME certificates immediately after submitting the evaluation.

Syllabi and Learning Objectives

Session syllabi and learning objectives are provided to attendees through electronic media only. Visit www.scahq.org/2016annualmeeting to access the meeting handouts.

Committee Meeting Schedule

The schedule of SCA Committee Meetings can be found in your mobile app, at the registration desk, and on the hotel's electronic signage.

Registration Desk

The registration desk will be in Grand Hall on the lobby level of the Manchester Grand Hyatt during the following hours:

- Thursday, March 31: 5–7 pm
- Friday, April 1: 7 am–5:30 pm
- Saturday, April 2: 7 am–5:30 pm
- Sunday, April 3: 6:45 am–5:30 pm
- Monday, April 4: 6:45 am–5:30 pm
- Tuesday, April 5: 6:45 am–5:30 pm
- Wednesday, April 6: 6:45–11 am

Networking Reception with Exhibitors

All attendees are welcome from 5:30–6:30 pm on Monday, April 4, in the Exhibit Hall. Join us in Grand Hall (Lobby Level) for light refreshments and opportunities to network with colleagues and industry partners.

Annual Meeting On-Demand

Upgrade your meeting experience and purchase access to continuing medical education credits from the SCA 38th Annual Meeting at home with SCA Annual Meeting On-Demand. Visit the Learner's Digest booth in the Palm Foyer (2nd Level) to reserve your copy today!

Photography

Please be advised that throughout the SCA Annual Meeting & Workshops, photos may be taken for use in SCA marketing materials, including the e-newsletter and SCA Facebook and Twitter pages.

YOUR MOBILE MEETING

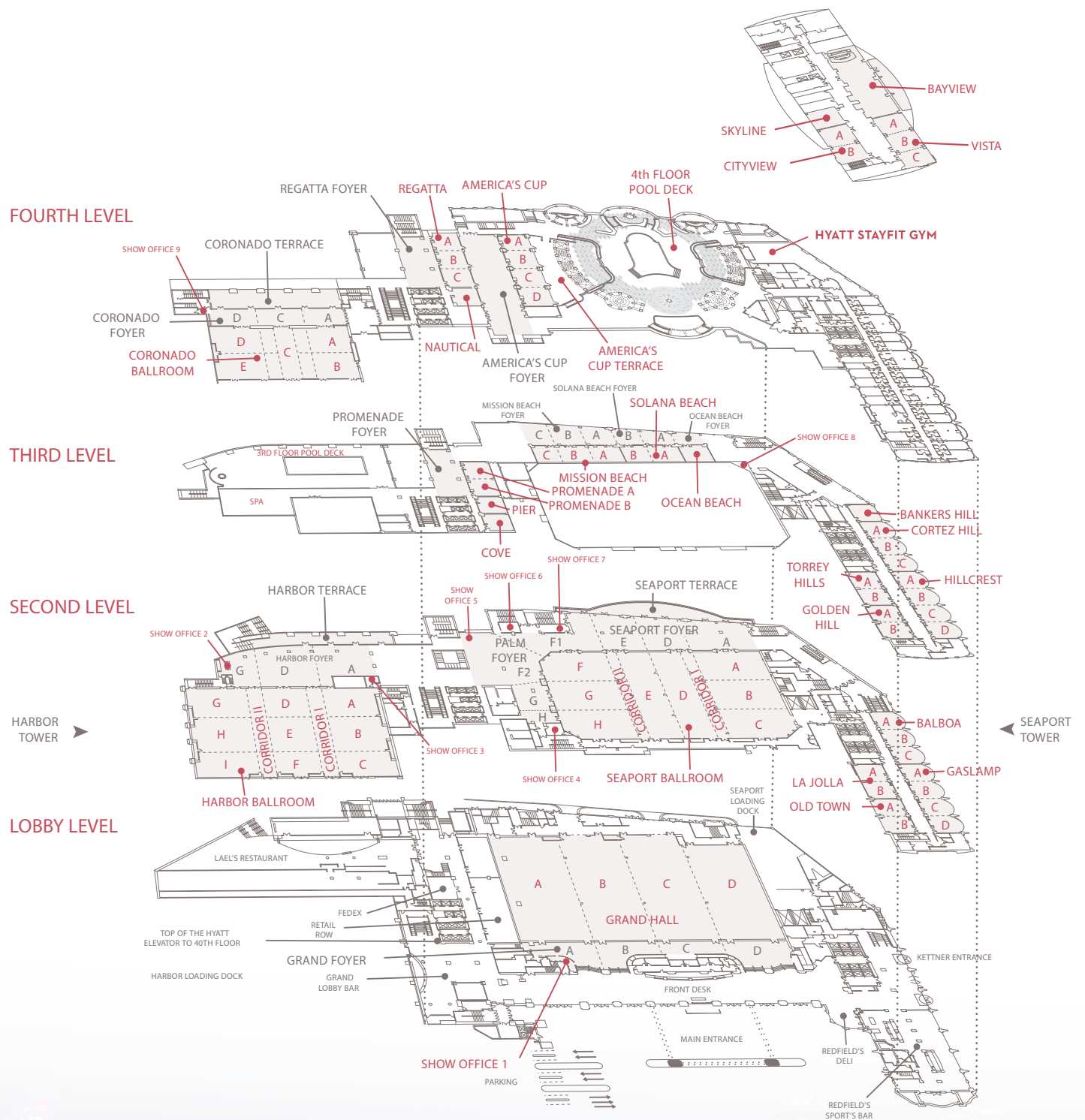
Use your mobile device to access information about the Annual Meeting and Workshops! **Download the 2016 meeting mobile app** to create a personalized meeting experience at your fingertips. Search SCA in your app store or visit www.tripbuildermedia.com/apps/sca.

JOIN THE CONVERSATION



Up-to-date information on the meeting can be easily found by following **@scahq** and our Scientific Program Committee Chair **@andyshaw007** on **Twitter** or liking the **SCA Facebook page**.

Hotel Floor Plans



Keynote Lecture: What Does Moving from Volume to Value Really Mean?

Joanne Conroy, MD
CEO, Lahey Hospital & Medical Center



Most of the articles on the impending transformation in health care focus on how we pay for care. Arguably that can be a very motivating factor for change, but do we know how we are going to deliver care differently?

Most economists would acknowledge that our health systems are currently not organized around assuming financial risk (capitation) or performance risk (caring for populations). Thus, we all need to be prepared for some dramatic changes in where and how we deliver care, where we put our resources, and how we measure our success.

The journey has just begun at several institutions nationally, and we will review the early challenges and victories with all the bumps, bruises, and heartburn! Joanne Conroy, MD, serves as CEO of Lahey Hospital & Medical Center, formerly known as Lahey Clinic, a physician-led, nonprofit, teaching hospital and the tertiary and quaternary care facility for Lahey Health System. Lahey Health includes sister hospitals in Winchester, Beverly, and Gloucester, MA; a network of physician practices across northern Massachusetts and southern New Hampshire; and rehabilitation, home care, elder care, and behavioral health facilities and services. Lahey Hospital & Medical Center's campus also encompasses an ambulatory care center serving more than 3,000 patients each day and a Level II trauma center. The hospital, which includes more than 600 physicians, was ranked as one of the top five hospitals in Massachusetts by *U.S. News & World Report* in 2013-14. It also earned several awards from Healthgrades for 2014, including those for excellence in general surgery, stroke care, cardiac care and surgery, and overall clinical excellence.

SCA Distinguished Service Award Winner

Kenneth J. Tuman, MD



The Distinguished Service Award is given to an individual who has made significant contributions to the specialty of cardiovascular anesthesiology through research, education, service, or some combination of these activities.

Kenneth J. Tuman, MD, obtained his residency training in anesthesiology at Northwestern University and then completed fellowship training in cardiovascular anesthesiology and critical care medicine at Rush University Medical Center (RUMC). Subsequently, he remained at RUMC as a faculty member and quickly rose to the rank of professor. Dr. Tuman has contributed to the knowledge base of anesthesiology in the form of more than 100 peer-reviewed publications, more than 200 abstract presentations, 30 book chapters, and more than 100 invited lectures nationally, including numerous visiting professorships.

SCA John Hinckley Lifetime Outstanding Service Award Winner

Heather Austin Spiess



The John Hinckley Lifetime Outstanding Service Award will be given to a non-anesthesiologist who has made an outstanding contribution to the society. Heather Spiess is the former vice president and chief operating officer of Ruggles Service Corporation, a multiassociation management company in

Richmond, VA. The company was established in 1974 by her father, John Hinckley, who passed away in 2006. Her employment at Ruggles began in 1999, and during her tenure she served as the executive director for the Society for Education in Anesthesia, the American Academy of Anesthesiologist Assistants, the Association of Cardiac Anesthesiologists, and the Society of Cardiovascular Anesthesiologists. Her service to SCA began shortly after joining Ruggles, when her father and the SCA president agreed to turn over the executive director duties to her. In 2016 after 24 years with Ruggles, Heather sold her shares to her brother and business partner, Stewart Hinckley.

Disclosures of Relevant Financial Relationships

Annual meeting attendees are urged to review general CME information for the conference, including disclosures of relevant financial relationships for all persons that affected the content of CME, by reading and/or downloading this information, which is available online at: www.scahq.org/2016annualmeeting.

James (Jake) H. Abernathy, MD MPH FAHA FASE

Associate Professor of Anesthesiology
Medical University of South Carolina
Charleston, SC

Charles Acher, MD

University of Wisconsin
Madison, WI

Marco A. Aguirre, MD

Associate Professor of Anesthesiology
UT Southwestern Medical Center
Dallas, TX

Cory Alwardt, PhD CCP

Chief Perfusionist, Assistant Professor of Surgery
Mayo Clinic Hospital
Phoenix, AZ

David Amar, MD

Professor & Director of Thoracic Anesthesia
Memorial Sloan-Kettering Cancer Center
New York, NY

Erik P. Anderson, MD

Assistant Professor
University of Vermont College of Medicine
South Burlington, VT

Dean B. Andropoulos, MD

Professor and Chief of Pediatric Anesthesiology
Baylor College of Medicine, Texas Children's Hospital
Houston, TX

Ron Angona, MS CCP

University of Rochester Medical Center
Rochester, NY

James Anton, MD

Assistant Professor of Cardiovascular Anesthesiology
Texas Heart Institute, SLEH
Houston, TX

Ioanna Apostolidou, MD

University of Minnesota-Fairview
Minneapolis, MN

Solomon Aronson, MD MBA FACC FAHA FASE

Professor of Anesthesiology
Vice Chair of Business Development & Finance
Duke University Medical Center
Durham, NC

Harendra Arora, MD

Associate Professor
University of North Carolina School of Medicine
Chapel Hill, NC

Sherif I. Assaad, MD

Assistant Professor of Anesthesiology
VA Healthcare Systems
North Haven, CT

John (Yianni) G. Augoustides, MD FAHA FASE

Associate Professor of Anesthesiology
University of Pennsylvania Hospital
Philadelphia, PA

Hamdy M. Awad, MD

Ohio State University
Columbus, OH

Dalia A. Banks, MD FASE

University of California, San Diego
San Diego, CA

Amit Bardia, MBBS

Beth Israel Deaconess Medical Center
Boston, MA

Michael Barron, MD

Associate Professor of Clinical Anesthesiology
University of Miami
Miami, FL

Karsten Bartels, MD

University of Colorado Denver
Denver, CO

Elliott Bennett-Guerrero, MD

Professor and Vice Chair, Clinical Research & Innovation
Stony Brook Medicine, Department of Anesthesiology
Stony Brook, NY

Julian S. Bick, MD

Assistant Professor of Clinical Anesthesiology
Vanderbilt University
Nashville, TN

Frederic (Josh) T. Billings, IV, MD

Vanderbilt University
Nashville, TN

James M. Blum, MD

Emory University
Atlanta, GA

Noel Boyle, MD PhD

Cardiac Arrhythmia Center
University of California, Los Angeles
Los Angeles, CA

Mary Beth Brady, MD FASE

Director, Intraoperative TEE Program
Johns Hopkins School of Medicine
Baltimore, MD

Tara R. Brakke, MD FASE

Associate Professor
University of Nebraska Medical Center
Omaha, NE

Charles Brown, MD

Johns Hopkins
Baltimore, MD

Jonathan R. Bulatao

San Diego, CA

Nelson H. Burbano, MD

Cardiothoracic Anesthesiology Fellow
Brigham and Women's Hospital
Boston, MA

Ricardo A. Cardenas, MD

Western Pennsylvania Allegheny Health System
Pittsburgh, PA

M. Megan Chacon, MD

University of Nebraska Medical Center
Omaha, NE

Davy C. Cheng, MD MSc FRCP

Professor and Chair of Anesthesiology
University of Western Ontario
London, ON, Canada

Sreekanth Cheruku, MD

Assistant Professor of Anesthesiology
University of Texas Southwestern Medical Center
Dallas, TX

Albert T. Cheung, MD

Professor of Anesthesiology
Stanford University
Stanford, CA

Sophia T.H. Chew, MBBS MMED (Anes) FANZCA

Singapore, Singapore

Faculty

C. David Collard, MD MS
Professor & Chief of Anesthesia
Texas Heart Institute / Baylor
St. Luke's Medical Center
Houston, TX

Joanne Conroy, MD
CEO, Lahey Health
Bedford, MA

Lebron Cooper, MD
Professor and Chair of
Anesthesiology
University of Tennessee Health
Science Center
Memphis, TN

**William (Skip) C. Culp, Jr., MD
FASE**
Texas A&M University College
of Medicine
Temple, TX

Draginja R. Cvetkovic, MD
APS Westchester Medical
Center
New York, NY

Ellen M. Dailor, MD
Associate Professor
University of Rochester School
of Medicine
Rochester, NY

Tirone E. David, MD
Attending Surgeon
Toronto General Hospital
Toronto, ON, Canada

Laurie K. Davies, MD
Associate Professor of
Anesthesiology & Surgery
University of Florida
Gainesville, FL

Kim De La Cruz, CCP FPP
Director, Perfusion Services
University of California, Los
Angeles
Los Angeles, CA

J. Mauricio Del Rio, MD
Assistant Professor of
Anesthesiology
Duke University School of
Medicine
Durham, NC

**Georges Desjardins, MD
FRCPC FASE**
Anesthesiology
Montreal Heart Institute
Montréal, QC, Canada

Marc L. Dickstein, MD
Professor of Anesthesiology
Columbia University College of
Physicians
New York, NY

Johannes Dorfling, MD
Associate Professor
University of Kentucky
Lexington, KY

Michelle E. Downing, MD
University of Alabama at
Birmingham
Birmingham, AL

Uriah Dudgeon, MHS CCP
Cardiovascular Perfusionist
Brigham and Women's Hospital
Boston, MA

Susan Eagle, MD
Associate Professor of Clinical
Anesthesiology
Vanderbilt University
Nashville, TN

Joerg Ender, MD
Heartcenter University Leipzig
Leipzig, Germany

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

Adam Evans, MD MBA
Staff Intensivist
Cleveland Clinic Florida
Weston, Florida

Robert S. Farivar, MD PhD
Chairman, Cardiothoracic
Services
Chief, Cardiothoracic Surgery
Abbott Northwestern Hospital,
Minneapolis Heart Institute
Minneapolis, MN

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

Michael Fischbein, MD
Cardiothoracic Surgery Clinic
Stanford, CA

**Nick N. Fletcher, MBBS FRCA
FFICM**
St. George's University Hospital
London, United Kingdom

**Thomas F. Floyd, MD CM
FRCPC**
Stony Brook University Health
Center
Stony Brook, NY

Manuel Fontes, MD
Professor of Anesthesiology
and Critical Care
Yale University
New Haven, CT

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

Carlos Galhardo, MD
Chief of Anesthesia
Department
Unimed Rio Hospital
Rio De Janeiro, RJ, Brazil

Brian J. Gelfand, MD FACS
Associate Chair for Education,
Program Director
University of Florida
Gainesville, FL

George Gellert, MD
Banner Good Samaritan
Cavanagh Heart Center
Phoenix, AZ

Theresa A. Gelzinis, MD
Associate Professor
University of Pittsburgh
Pittsburgh, PA

Kamrouz Ghadimi, MD
Assistant Professor of
Anesthesiology and Critical
Care
Duke University Medical Center
Durham, NC

Laurent G. Glance, MD
Professor of Anesthesiology,
Vice-Chair of Research
University of Rochester School
of Medicine
Rochester, NY

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

Katie Goergen, MD
Assistant Professor
University of Nebraska
Omaha, NE

Andrew Goldberg, MD
Assistant Professor
Icahn School of Medicine at
Mount Sinai
New York, NY

Eugene M. Golts, MD
University of California, San
Diego Health System
La Jolla, CA

Glenn P. Gravlee, MD
Professor of Anesthesiology
University of Colorado Denver
Denver, CO

**Donna L. Greenhalgh, MD
MBChB FRCA**
University Hospital of South
Manchester
Stockport, Cheshire, Great
Britain

Jay S. Grider, DO PhD
Professor
University of Kentucky
Lexington, KY

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

Fabio G. Guarracino, MD
Head, Department of
Anesthesia and Critical Care
Medicine
University Hospital of Pisa
Pisa, Italy

Faculty

Jacob Gutsche, MD

Perelman School of Medicine
University of Pennsylvania
Philadelphia, PA

Paul M. Heerdt, MD PhD FCCP

Professor of Anesthesiology
and Pharmacology
Yale University
New Haven, CT

Lori B. Heller, MD

Acting Instructor, University of
Washington
Physicians Anesthesia Service,
Swedish Medical Center
Seattle, WA

Eugene A. Hessel, II, MD

Professor of Anesthesiology
University of Kentucky College
of Medicine
Lexington, KY

Laureen L. Hill, MD MBA

Professor & Chair of
Anesthesiology
Emory University School of
Medicine
Atlanta, GA

Jonathan Ho, MD

Assistant Clinical Professor
University of California, Los
Angeles
Los Angeles, CA

Kimberly Howard-Quijano, MD MS

Assistant Professor and
Co-Chief Cardiac
Anesthesiology
University of California, Los
Angeles
Los Angeles, CA

Jiapeng Huang, MD PhD

Jewish Hospital & St Mary's
Healthcare
Louisville, KY

Gregory M. Janelle, MD FASE

Associate Professor of
Anesthesiology and Surgery
University of Florida College of
Medicine
Gainesville, FL

Srdjan Jelacic, MD

University of Washington
Seattle, WA

Ravi Vivekanand Joshi, MD

Associate Professor of
Anesthesiology
UT Southwestern Medical
Dallas, TX

Tsuyoshi Kaneko

Brigham and Women's Hospital
Boston, MA

Keyvan Karkouti, MD FRCPC MSc

Professor
Toronto General Hospital
Toronto, ON, Canada

Jason D. Kennedy, MD

Associate Professor
Vanderbilt University
Nashville, TN

Oksana Klimkina, MD

University of Kentucky
Lexington, KY

Steven N. Konstadt, MD

Chairman of Anesthesia
Maimonides Medical Center
Brooklyn, NY

Logan Kosarek, MD

Staff Anesthesiologist
Ochsner Clinic Foundation
Harahan, LA

Priya A. Kumar, MD

Staff Anesthesiologist
The University of North
Carolina, Chapel Hill
Chapel Hill, NC

Jonathan D. Leff, MD

Associate Professor
Montefiore Medical Center
New York, NY

Matthew Levin, MD

Mount Sinai Hospital
New York, NY

Jerrold H. Levy, MD

Professor of Anesthesiology &
Co-Director Cardiothoracic
ICU
Duke University Medical Center
Durham, NC

Galina Leyvi, MD

Assistant Professor
Montefiore Medical Center/
Albert Einstein College
New York, NY

Hong Liu, MD

Associate Professor
University of California, Davis
Health System
Sacramento, CA

Jens Lohser, MD MSc FRCPC

Clinical Associate Professor of
Anesthesiology
University of British Columbia
Vancouver, BC, Canada

Martin J. London, MD

Professor of Clinical Anesthesia
University of California, San
Francisco
San Francisco, CA

G. Burkhard Mackensen, MD PhD FASE

Professor of Anesthesiology
University of Washington
Seattle, WA

Michael Madani, MD FACS

University of California, San
Diego Health System
La Jolla, CA

Aman Mahajan, MD PhD

Professor and Chair,
Department of
Anesthesiology
University of California, Los
Angeles Health
Los Angeles, CA

Thomas Maher, MD

Anesthesiologist
Kentucky One Health
Prospect, KY

Feroze Mahmood, MD

Associate Professor of
Anesthesiology
Harvard Medical School
Boston, MA

Yasdet Maldonado, MD

Clinical Instructor
Allegheny Health Network
Pittsburgh, PA

Jonathan B. Mark, MD

Professor of Anesthesiology
Duke University Medical Center
Durham, NC

Nicholas W. Markin, MD FASE

University of Nebraska Medical
Center
Omaha, NE

Andrew D. Maslow, MD

Associate Professor of
Anesthesiology
Warren Alpert Medical School
Brown University
Needham, MA

Joseph P. Mathew, MD

Professor of Anesthesiology
Duke University Medical Center
Durham, NC

Robina Matyal, MD

Assistant Professor of
Anesthesiology
Beth Israel Deaconess Medical
Center
Boston, MA

Bryan G. Maxwell, MD

Johns Hopkins University
Baltimore, MD

C. David Mazer, MD

St Michael's Hospital
Toronto, ON, Canada

Michael A. Mazzeffi, MD MPH

Assistant Professor
University of Maryland School
of Medicine
Baltimore, MD

Massimiliano Meineri, MD

Associate Professor of
Anesthesia
University of Toronto
Toronto, ON, Canada

Ludmil (Lou) Mitrev, MD

Cooper University Hospital
Camden, NJ

Mario Montealegre-Gallegos, MD

Beth Israel Deaconess Medical
Center
Boston, MA

Gary A. Monteiro, MD

Attending Physician
Houston Methodist Hospital
Houston, TX

Candice R. Montzingo, MD FASE

Associate Professor of Clinical
Anesthesiology
University of Utah Medical
Center
Salt Lake City, UT

Faculty

Jochen (Danny) Muehlschlegel, MD MMSc FAHA
Assistant Professor of Anesthesia
Brigham and Women's Hospital
Boston, MA

Bart E. Muhs, MD PhD
Middlesex Hospital
Middletown, CT

Chirojit Mukherjee, MD PhD FASE
Chairman, Clinic for Cardiac Surgery
Karlsruhe, Baden
Wuerttemberg, Germany

J. Thomas Murphy, MD
University of Kentucky
Lexington, KY

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

Eric W. Nelson, DO
Medical University of South Carolina
Charleston, SC

Mark T. Nelson, MD MED
Assistant Professor of Anesthesiology
Virginia Commonwealth University
Beaverdam, VA

Peter Neuburger, MD
NYU Langone Medical Center
New York, NY

Jennie Yee Ngai, MD
Assistant Professor of Anesthesiology
NYU Langone Medical Center
New York, NY

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

Daisuke Nonaka, MD
UT Southwestern Medical Center
Dallas, TX

Gregory A. Nuttall, MD
Professor of Anesthesiology
Mayo Clinic College of Medicine
Rochester, MN

Charles B. Nyman, MBBCh
Clinical Instructor
Brigham and Women's Hospital
Boston, MA

Achikam Oren-Grinberg, MD
Beth Israel Deaconess Medical Center
Boston, MA

Wendy L. Pabich, MD
Cardiac Anesthesiologist, Swedish Medical Center
Physicians Anesthesia Service
Seattle, WA

Sheela Pai Cole, MD
Stanford University
Stanford, CA

Peter J. Panzica, MD
Vice Chair, Clinical Anesthesia
BIDMC System
Harvard Medical School, Beth Israel Deaconess Medical Center
Boston, MA

Sarah Parker, PhD
Director of Human Factors Research
Virginia Tech Carilion Research Institute
Roanoke, VA

Prakash A. Patel, MD
Assistant Professor
University of Pennsylvania
Philadelphia, PA

Yong G. Peng, MD PhD FASE
Associate Professor of Anesthesiology
University of Florida
Gainesville, FL

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

Tjorvi Perry, MD
Director of Cardiac Anesthesia Services
Northwest Anesthesia, PA
Eden Prairie, MN

Brian Pickering, MBBCh MSc BAO
Mayo Clinic
Rochester, MN

Andrew D. Pitkin, FRCA MRCP
University of Florida
Gainesville, FL

Mihai V. Podgoreanu, MD FASE
Associate Professor of Anesthesiology
Duke University
Durham, NC

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

Mias Pretorius, MBChB
Associate Professor of Anesthesiology and Clinical Pharmacology
Vanderbilt University Medical Center
Nashville, TN

Gert (Victor) D. Pretorius, MBChB
Sulpizio Cardiovascular Center
La Jolla, CA

Gabriela M. Querejeta Roca, MD
Clinical Fellow
Brigham and Women's Hospital
Cambridge, MA

Quintin J. Quinones, MD PhD
Assistant Professor
Duke University
Durham, NC

Lindsay Raleigh, MD
Stanford Hospitals and Clinics
Stanford, CA

James Ramsay, MD
Professor of Anesthesiology
University of California, San Francisco
San Francisco, CA

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

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

Matthias L. Riess, MD PhD
Professor of Anesthesiology and Pharmacology
Vanderbilt University
Nashville, TN

Joseph D. Roberts, MD
Assistant Professor
University of Chicago
Chicago, IL

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

Robert Savage, MD FACC
Vice Chair and Director of Cardiothoracic Anesthesia
University of Alabama at Birmingham
Birmingham, AL

Rebecca A. Schroeder, MD
Associate Professor of Anesthesiology
Duke University Medical Center
Durham, NC

Aryeh Shander, MD
Englewood Hospital
Englewood, NJ

Jack S. Shanewise, MD FASE
Professor and Director of Cardiothoracic Anesthesiology
Columbia University/College of Physicians and Surgeons
New York, NY

Andrew D. Shaw, MB FCCM FFICM FRCA
Professor & Chief, Cardiothoracic Anesthesiology
Vanderbilt University Medical Center
Nashville, TN

Faculty

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

Sasha Shillcutt, MD FASE
Associate Professor of
Anesthesiology
University of Nebraska Medical
Center
Omaha, NE

**Linda Shore-Lesserson, MD
FAHA FASE**
Professor of Anesthesiology
Hofstra Northshore, LIJ
Medical School
New Hyde Park, NY

George Silvay, MD PhD
Professor
Mount Sinai Medical Center
New York, NY

**Nikolaos J. Skubas, MD DSc
FACC FASE**
Weill Cornell Medicine
New York, NY

**Robert N. Sladen, MBChB
FCCM**
Allen Hyman Emeritus
Professor, Critical Care
Anesthesiology
Columbia University College of
Physicians and Surgeons
New York, NY

**Roman M. Sniecinski, MD
FASE**
Associate Professor of
Anesthesiology
Emory University School of
Medicine
Atlanta, GA

**Mark Stafford-Smith, MD
CSM FRCPC FASE**
Duke University Medical Center
Durham, NC

Stanley W. Stead, MD
Chief Executive Officer
Stead Health Group, Inc.
Los Angeles, CA

Jochen Steppan, MD
Johns Hopkins University
Baltimore, MD

**Sudhakar Subramani, MD
MMED**
University of Iowa Hospitals
and Clinics
Iowa City, IA

**Kathirvel Subramaniam, MD
MPH**
Associate Professor
University of Pittsburgh
Medical Center
Pittsburgh, PA

Breandan Sullivan, MD
Assistant Professor of
Anesthesiology
University of Colorado Denver
Denver, CO

Erin A. Sullivan, MD
Associate Professor of
Anesthesiology
University of Pittsburgh
Medical Center/Presbyterian
Hospital
Pittsburgh, PA

Michele Sumler, MD
Assistant Professor
Emory University
Atlanta, GA

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

Joseph W. Szokol, MD
Vice Chairman, Department of
Anesthesiology
NorthShore University
HealthSystem
Winnetka, IL

Kenichi Tanaka, MD
Professor
University of Maryland Medical
Center
Baltimore, MD

Mark A. Taylor, MD FASE
Vice Chair and Chief of
Anesthesia
Allegheny Health Network
Pittsburgh, PA

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

**Walker R. Thomas, BS FASE
RDCS**
University of Nebraska
Omaha, NE

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

Kevin C. Thornton, MD
Assistant Professor
University of California, San
Francisco
San Francisco, CA

Jason Tippet, MD
Assistant Professor of
Anesthesiology
Baylor Scott & White Health
Dallas, TX

Daniel A. Tolpin, MD
Assistant Professor, Associate
Program Director CT
Fellowship
Texas Heart Institute, Baylor St.
Luke's Medical Center
Houston, TX

Matthew M. Townsley, MD
University of Alabama at
Birmingham
Birmingham, AL

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

Eric Ursprung, MD
Tufts Medical Center
Boston, MA

Ratna Vadlamudi, MD
Assistant Professor of
Anesthesiology
Emory University Hospital
Atlanta, GA

**Peter Von Homeyer, MD
FASE**
Assistant Professor of
Anesthesiology
University of Washington
Seattle, WA

Michael S. Wall, MD FCCM
Clinical Chief of
Anesthesiology
University of Minnesota, Dept
of Anesthesiology
Minneapolis, MN

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

**Ian Welsby, MD MBBS BSc
FRCA**
Associate Professor
Duke University Medical Center
Durham, NC

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

Jacek Wojtczak, MD
University of Rochester Medical
Center
Rochester, NY

Martha M. Wynn, MD
Associate Professor
University of Wisconsin
Madison, WI

Schedule

Saturday, April 2

7–8 am

Light Continental Breakfast

Seaport Foyer (2nd Level)

8–10 am

Opening Session

Refresher Course Lectures: Making a Difference in...

Moderator: Andrew D. Shaw, MB FCCM FFICM FRCA

8–8:20 am	Neuroprotection— <i>Hilary P. Grocott, MD FASE FRCPC</i>
8:20–8:40 am	Patient Safety— <i>Jonathan B. Mark, MD</i>
8:40–9 am	Perioperative 3D TEE— <i>Stanton K. Shernan, MD FAHA FASE</i>
9–9:20 am	Red Cell Transfusion— <i>Keyvan Karkouti, MD MSc FRCPC</i>
9:20–10 am	Discussion

Grand Hall CD (Lobby Level)

10–10:30 am

Coffee Break

Seaport Foyer (2nd Level)

10:30 am–Noon

Decision Making in Atrial Fibrillation

Moderator: Jonathan Ho, MD

10:30–10:50 am	Clot or No Clot—How to Tell?— <i>Mias Pretorius, MBChB MSCI</i>
10:50–11:10 am	Post-Op Prophylaxis—Does Anything Work?— <i>Joseph P. Mathew, MD</i>
11:10–11:30 am	Surgical vs. Catheter Ablation—Which is Better?— <i>Aman Mahajan, MD PhD</i>
11:30 am–Noon	Discussion

Grand Hall CD (Lobby Level)

10:30 am–Noon

Ethics of Extracorporeal Membrane Oxygenation (ECMO)

Moderator: Yasdet Maldonado, MD

10:30–10:55 am	A Bridge to What, Exactly? Decision-Making in ECMO— <i>Jason D. Kennedy, MD</i>
10:55–11:20 am	Can We Afford It? Does Payer Status Matter?— <i>Jamie Ramsay, MD</i>
11:20–11:45 am	ECMO for Organ Donors, Too?— <i>Jacob Gutsche, MD</i>
11:45 am–Noon	Discussion

Seaport GH (2nd Level)

11 am–Noon

(Fellows) Complex Case Presentations: Session 1

Seaport AB (2nd Level)

Noon–1 pm

Lunch on Your Own

1–3:30 pm

Cerebral and Spinal Cord Protection During Complex Cardiac and Aortic Cases

Moderator: Albert T. Cheung, MD

1–1:25 pm	Anesthetic Management for DHCA— <i>Hilary P. Grocott, MD FASE FRCPC</i>
1:25–1:50 pm	What's the Role of NIRS?— <i>Mark A. Taylor, MD FASE</i>
1:50–2:15 pm	What's the Role of Embolic Filters?— <i>Hamdy M. Awad, MD</i>
2:15–2:40 pm	What's the Role of CSF Drainage?— <i>James Anton, MD</i>
2:40–3:05 pm	What Can the Surgeon Do?— <i>Michael Fischbein, MD</i>
3:05–3:30 pm	Discussion

Seaport GH (2nd Level)

1–3:30 pm

Decision Making in Perioperative Heart Failure

Moderator: Sasha K. Shillcutt, MD FASE

1–1:25 pm	Intraoperative Heart Failure—Now Get Out of That— <i>James Anton, MD</i>
1:25–1:50 pm	Mechanical Assist for All Failing Hearts?— <i>Annemarie Thompson, MD</i>
1:50–2:15 pm	Case Presentations: Making the Diagnosis— <i>Nicholas W. Markin, MD FASE</i>
	Pro-Con Debate: LVADs for the Heart Failure Epidemic
2:15–2:40 pm	Pro: DT is the Solution— <i>Gert (Victor) D. Pretorius, MBChB</i>
2:40–3:05 pm	Con: VADs Should Only Be Used as Bridge to Transplant— <i>Srdjan Jelacic, MD</i>
3:05–3:30 pm	Discussion

Grand Hall CD (Lobby Level)

Schedule

1:15–2:15 pm **Seaport C (2nd Level)**
(Fellows) Complex Case Discussion with Expert Panel

2:15–3:30 pm **Seaport C (2nd Level)**
(Fellows) Problem-Based Learning Discussion: Lung Transplantation

3:30–4 pm **Seaport Foyer (2nd Level)**
Coffee Break

4–5 pm **Seaport C (2nd Level)**
(Fellows) A Career in CT Anesthesiology: Mission Possible

4–5:30 pm **Grand Hall CD (Lobby Level)**
Controversies in Vascular Surgery

Moderator: Wanda M. Popescu, MD

4–4:20 pm	What's New in Endovascular Repair of a Thoracic Aortic Pathology?— <i>Charles Acher, MD</i>
4:20–4:40 pm	Spinal Cord Protection During TEVAR— <i>Martha M. Wynn, MD</i>
	Pro-Con Debate: The Best Surgical Option for an Abdominal Aortic Aneurysm Is an Endograft
4:40–5 pm	Pro— <i>Bart E. Muhs, MD PhD</i>
5–5:20 pm	Con— <i>Sherif Assaad, MD</i>
5:20–5:30 pm	Discussion

5–6 pm **Seaport AB (2nd Level)**
(Fellows) Complex Case Poster Presentations: Session 2

6–7 pm **Old Town (2nd Level)**
(Fellows) Optional Mentor Program
(For invited mentors and mentees only)

Sunday, April 3

7–8 am **Seaport Foyer (2nd Level) & Seaport AB (2nd Level)**

Light Continental Breakfast
(Fellows) Complex Case Poster Presentations: Session 3

8–9 am **Grand Hall CD (Lobby Level)**
Earl Wynands Lecture

Moderators: Davy C.H. Cheng, MD MSc CCPE FCAHS FRCPC; Andrew D. Shaw, MB FCCM FFICM FRCA
 Valve Sparing Aortic Surgical Procedures—*Tirone E. David, MD*



9–10:30 am **Grand Hall CD (Lobby Level)**
SCA/STS: An Update on Cardiac Surgery and Perioperative Echocardiography for Mitral Regurgitation

Moderator: Stanton K. Shernan, MD FAHA FASE



9–9:20 am	The Cardiac Surgeon's Dilemma for Ischemic Mitral Regurgitation: Coronary Revascularization With or Without Mitral Valve Repair or Replacement?— <i>Tirone E. David, MD</i>
9:20–9:40 am	New Concepts and Controversies in the Echocardiographic Evaluation of Functional Mitral Regurgitation Severity— <i>Stanton K. Shernan, MD FAHA FASE</i>
9:40–10 am	Percutaneous Approaches in the Treatment of Functional Mitral Regurgitation— <i>G. Burkhard Mackensen, MD PhD FASE</i>
10–10:30 am	Discussion

10:30–11 am **Seaport Foyer (2nd Level)**
Coffee Break

11 am–12:30 pm **Grand Hall CD (Lobby Level)**
Heparin and Protamine Shenanigans

Moderator: Priya A. Kumar, MD

11–11:20 am	Alternatives to Heparin— <i>Jerrold H. Levy, MD</i>
11:20–11:40 am	Heparin-Induced Thrombocytopenia— <i>Ian Welsby, MD MBBS BSc FRCA</i>
11:40 am–Noon	Heparin Reversal and Protamine Reactions— <i>Gregory A. Nuttall, MD</i>
Noon–12:20 pm	Heparin Sensitivity and Resistance— <i>Sophia Chew, MMED (Anaes) MBBS FANZCA</i>
12:20–12:30	Discussion

Schedule

Sunday, April 3 [continued]

11 am–12:30 pm

Demystifying the Electrophysiology (EP) Laboratory

Moderator: *Nelson Thaemert, MD*

11–11:20 am	Anesthesia in the EP Lab: What Could Possibly Go Wrong?— <i>Alina Nicoara, MD FASE</i>
11:20–11:40 am	EP Primer for Non-EP Physicians: What's Going on With Mapping and Ablation?— <i>Noel G. Boyle, MD PhD</i>
11:40 am–Noon	How Can Anesthesia Impact the Quality of Ablation?— <i>Aman Mahajan, MD PhD</i>
Noon–12:20 pm	Coming Soon to Your EP Lab: What's New in the Pipeline?— <i>Charles B. Nyman, MBBCh</i>
12:20–12:30 pm	Discussion

Seaport GH (2nd Level)

11 am–12:30 pm

What Causes End-Organ Dysfunction in Cardiac Surgery?

Moderator: *Frederic (Josh) T. Billings IV, MD*

11–11:20 am	Is It the Pump or the Sternotomy?— <i>Jochen (Danny) Muehlschlegel, MD FAHA</i>
11:20–11:40 am	Inflammation—Why Do Some People Mount More of a Response Than Others?— <i>Quintin Quinones, MD PhD</i>
11:40 am–Noon	Ischemia Reperfusion Causes Both Local and Distant Injury— <i>Karsten Bartels, MD</i>
Noon–12:20 pm	Does Preconditioning Work? Laboratory Data and Recent Clinical Trials of Remote Ischemic Preconditioning— <i>Matthias L. Riess, MD PhD</i>
2:20–12:30 pm	Discussion

Seaport F (2nd Level)

12:30–1:30 pm

Lunch on Your Own

Scientific Poster Session 1: Basic Science, Cardiovascular Anesthesiology, Case Reports, Coagulation

Seaport AB (2nd Level)

1:30–3 pm

Heart, Lung, and Liver Transplantation Update

Moderator: *C. David Collard, MD MS*

1:30–1:50 pm	Heart—How to Support a Failing Right Side— <i>Marco A. Aguirre, MD</i>
1:50–2:10 pm	Lung—Partial Lung Assist/ECMO Instead of CPB— <i>Peter Von Homeyer, MD FASE</i>
2:10–2:30 pm	Liver—Is ECHO Necessary in Every Case?— <i>Nicholas W. Markin, MD FASE</i>
2:30–3 pm	Discussion

Grand Hall CD (Lobby Level)

1:30–3 pm

Society of Critical Care Anesthesiologists Session

Moderator: *Laureen L. Hill, MD MBA*

1:30–1:45 pm	Turning the Tide on Alert Fatigue—Using Data Efficiently to Improve Patient Outcomes— <i>Brian W. Pickering, MBBCh BAO BA</i>
1:45–2 pm	Enhanced Recovery in Cardiothoracic Surgery: What Patients? What Agents? What Techniques?— <i>Breandan Sullivan, MD</i>
2–2:15 pm	Improving In-Hospital Cardiopulmonary Resuscitation— <i>James Blum, MD</i>
2:15–2:30 pm	"Futility" and Resource Utilization in Cardiothoracic Critical Care— <i>Michael A. Mazzeffi, MD MPH</i>
2:30–3 pm	Discussion

Seaport GH (2nd Level)



1:30–3 pm

A Practical Guide to Clinical Performance Measures in Cardiac Surgery

Moderator: *Tjorvi Perry, MD*

1:30–1:50 pm	Current State of Collecting and Reporting Clinical Performance Measures— <i>Rebecca A. Schroeder, MD</i>
1:50–2:10 pm	How Can the STS/SCA Database Help Me With Quality?— <i>Robert Farivar, MD PhD</i>
2:10–2:30 pm	Does Everybody Need to Be Above Average? Unexpected Consequences of Performance Assessment— <i>Laurent G. Glance, MD</i>
2:30–3 pm	Discussion

Seaport F (2nd Level)

3–4 pm

Opening of Exhibits and Coffee Break

Grand Hall AB (Lobby Level)

4–5:30 pm

Anesthesia & Analgesia State of the Art

Moderator: *Martin London, MD*

4–4:20 pm	Frailty, Aging, and Cardiovascular Surgery— <i>Charles Brown, MD</i>
4:20–4:40 pm	New Innovations in VAD and ECMO Therapy— <i>Robert N. Sladen, MBChB FCCM</i>

Seaport GH (2nd Level)

ANESTHESIA & ANALGESIA

Schedule

4:40–5 pm
5–5:30 pm

Sedation After Cardiac Surgery—Is One Drug Better Than Another?—*Hong Liu, MD*
Discussion

4–5:30 pm

Super Echo Panel Discussion

Moderators: *Kathryn E. Glas, MD MBA FASE; Sasha K. Shillcutt, MD FASE*

Panelists: *Donna L. Greenhalgh, MBChB FFICM FRCA; Annemarie Thompson, MD; Christopher A. Troianos, MD FASE*

- (SE1) Transesophageal Echocardiographic Facilitation of Percutaneous Closure of a Large Paravalvular Mitral Defect *Paul Anderson, MD¹; Andra Duncan, MD MS¹; Anand Mehta, MD¹ Cleveland Clinic¹*
- (SE2) Identification of an Anomalous Circumflex Coronary Artery During Intraoperative TEE in Patient Undergoing Mitral Valve Repair *Takumi Codere Maruyama, MD MSc¹; Surita Sidhu, MD FRCPC²; Joel Berube, MD FRCPC²; Masaru Yukawa, MD²; John Mullen, MD FRCSC²; Mazankowski Alberta Heart Institute, University of Alberta¹ Mazankowski Alberta Heart Institute²*
- (SE3) Giant Right Atrial Diverticulum *Shihoko Iwata, MD¹; Sumire Yokokawa, MD¹; Futaba Daigo¹; Minoru Nomura, MD¹ Tokyo Women's Medical University¹*
- (SE4) Type B Aortic Dissection Caused By Intra-Aortic Balloon Counterpulsation: An Unexpected Finding During Emergency Coronary Artery Bypass Grafting *Lachlan Miles, MBBS FANZCA¹; Andrew Roscoe, FRCA¹ Papworth Hospital NHS Foundation Trust¹*
- (SE5) Interpretation of Doppler Echocardiographic Findings: Unmasking of the Right Ventricle Dysfunction after Evacuation of Pericardial Effusion *Lisa Rong, MD; Nikolaos Skubas, MD DSc FACC FASE¹ Weill Cornell Medicine¹*
- (SE6) Intraoperative TEE and Treatment of a Paravalvular Aortic Insufficiency(PVAI) After a Transcatheter Aortic Valve Implantation(TAVI) *Sridhar Musuku, MD¹; Natalie Bruno, MD¹; Nathapong Arunakul, MD¹; Saroj Pani, MD FASE¹ Albany Medical Center¹*
- (SE7) Ruptured Congenital Sinus of Valsalva Aneurysm *Sarah Smith, MD¹; Jing Cui, MD¹; Jerri Chen, MD PhD¹ Columbia University¹*

Grand Hall CD (Lobby Level)

4–6 pm

Best of Meeting Oral Abstract Presentations: Session 1

Moderator: *Mark Stafford-Smith, MD CSM FACE FRCPC*

Seaport F (2nd Level)

6:30–9:30 pm

Gala Party

(This is a ticketed event. Please visit the registration desk for details.)

Seaport DE (2nd Level)

Monday, April 4

7–8 am

Light Continental Breakfast With Exhibitors

Grand Hall AB (Lobby Level)

8–10 am

Acute and Chronic Right Heart Failure

Moderator: *G. Burkhard Mackensen, MD PhD FASE*

- 8–8:25 am Right Heart Failure—Pharmacology—*Georges Desjardins, MD FASE FRCPC*
- 8:25–8:50 am Right Heart Failure—Mechanical Assist Options—*Manuel Fontes, MD*
- 8:50–9:15 am Perspectives of the Surgeon With Emphasis on Patient Selection and Intraoperative Technique—*Michael M. Madani, MD FACS*
- 9:15–9:40 am Perspectives of the Anesthesiologist With Emphasis on Perioperative Management—*Dalia A. Banks, MD FASE*
- 9:40–10 am Discussion

Grand Hall CD (Lobby Level)

10–10:30 am

Coffee Break With Exhibitors

Grand Hall AB (Lobby Level)

10:30–11:30 am

Keynote Lecture

Moderator: *Linda Shore-Lesserson, MD FAHA FASE*

What Does Moving From Volume to Value Really Mean?—*Joanne Conroy, MD*

Grand Hall CD (Lobby Level)

11:30 am–Noon

Annual Business Meeting and SCA Awards Presentations

Grand Hall CD (Lobby Level)

Noon–12:30 pm

ASA Update

Speaker: *Stanley W. Stead, MD*

Grand Hall CD (Lobby Level)

Schedule

Monday, April 4 [continued]

12:30–1:30 pm

Grand Hall AB (Lobby Level) & Seaport AB (2nd Level)

Lunch With Exhibitors

Scientific Poster Session 2: Echocardiography–3D, Echocardiography–Other

1:30–3 pm

Grand Hall CD (Lobby Level)

BOD TEE Pros/Cons

Moderator: Madhav Swaminathan, MD FASE

1:30–1:35 pm Introduction of Speakers, Topics, and Format—*Madhav Swaminathan, MD FASE*

TEE for All?

1:35–1:50 pm Pro—*Albert C. Perrino, MD*

1:50–1:55 pm Con Cross-Examination—*Stanton K. Shernan, MD FAHA FASE*

1:55–2:10 pm Con—*Stanton K. Shernan, MD FAHA FASE*

2:10–2:15 pm Pro Cross-Examination—*Albert C. Perrino, MD*

3D TEE Changes Outcomes?

2:15–2:30 pm Pro—*G. Burkhard Mackensen, MD PhD FASE*

2:30–2:35 pm Con Cross-Examination—*Kathryn E. Glas, MD MBA FASE*

2:35–2:50 pm Con—*Kathryn E. Glas, MD MBA FASE*

2:50–2:55 pm Pro Cross-Examination—*G. Burkhard Mackensen, MD PhD FASE*

2:55–3 pm Session Summary and Wrap-Up—*Madhav Swaminathan, MD FASE*

1:30–3 pm

Seaport F (2nd Level)

What Does Elderly Mean for Cardiac Surgery in 2016?

Moderator: Donna L. Greenhalgh, MBChB FFICM FRCA

1:30–1:50 pm Physiology of Aging—*Joerg Ender, MD*

1:50–2:10 pm When Are You Too Old to Have Heart Surgery?—*Fabio G. Guarracino, MD*

2:10–2:30 pm Enough Already? When Is It Time to Change the Emphasis of Care in the ICU?—*S. Nick Fletcher, MBBS FRCA*

2:30–3 pm Discussion



1:30–3 pm

Seaport GH (2nd Level)

New Coagulation Factor Drugs (PCCs, Fibrinogen Concentrates, etc.)

Moderator: Roman M. Sniecinski, MD FASE

1:30–1:50 pm For Reversing NOACs—*Ian Welsby, MD MBBS BSc FRCA*

1:50–2:10 pm For Treating Bleeding—*Kenichi Tanaka, MD*

2:10–2:30 pm Economics—*Gregory A. Nuttal, MD*

2:30–3 pm Discussion

3–3:30 pm

Grand Hall AB (Lobby Level)

Coffee Break With Exhibitors

3:30–5 pm

Grand Hall CD (Lobby Level)

Acute Kidney Injury

Moderator: Andrew S. Weisinger, MD FASE

3:30–3:35 pm Welcome and Introduction—*Andrew S. Weisinger, MD FASE*

3:35–4 pm Acute Kidney Injury Following Cardiac Surgery: Pathobiology and Diagnosis—*Frederic (Josh) T. Billings IV, MD*

4–4:25 pm The Case of Acute Injury: Why an Ounce of Prevention is Worth a Pound of Cure—*Mark Stafford-Smith, MD CSM FRCPC FASE*

4:25–4:50 pm Why We are Unable to Show the Benefits of “Renoprotective” Agents?—*Robert N. Sladen, MBChB FCCM*

4:50–5 pm Discussion

3:30–5 pm

Seaport GH (2nd Level)

Do Cardiac Anesthesiologists Really Make a Difference and at What Cost?

Moderator: Tjorvi Perry, MD

3:30–3:50 pm What Is a Cardiac-Trained Anesthesiologist? Have We Lost Sight of the Floor?—*Bryan G. Maxwell, MD*

3:50–4:10 pm If Only Everyone Was as Well-Trained as Me: Exploring the Impact of Performance on Clinical Outcomes in the Cardiac Surgical Patient—*Laurent G. Glance, MD*

4:10–4:30 pm Reconciling the Cost of a Cardiac Anesthesiologist: How Much Is Too Much?—*Christopher A. Troianos, MD FASE*

4:30–5 pm Discussion

Schedule

3:30–5:30 pm

Best of Meeting Oral Abstract Presentations: Session 2

Moderator: Thomas Floyd, MD CM FRCPC

Seaport F (2nd Level)

5:30–6:30 pm

Reception with Exhibitors

Grand Hall AB (Lobby Level)

Tuesday, April 5

7–8 am

Light Continental Breakfast With Exhibitors

Grand Hall AB (Lobby Level)

8–10 am

Town Hall Debate

Moderator: Scott T. Reeves, MD MBA FACC FASE

Grand Hall CD (Lobby Level)

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|--------------|--|
| 8–8:10 am | Current State of Advanced Perioperative TEE Certification by the National Board of Echocardiography—Stanton K. Shernan, MD FAHA FASE |
| 8:10–8:20 am | Perioperative Ultrasound Training in Anesthesiology—A Call to Action—Feroze Mahmood, MD |
| 8:20–8:30 am | SCA Sponsored Subspecialty Certification in Cardiothoracic and Vascular Anesthesiology—Mark Stafford-Smith, MD CSM FASE FRCPC |
| 8:30–10 am | Training and Certification in Cardiothoracic and Vascular Anesthesiology—Solomon Aronson, MD MBA FACC FACCP FAHA FASE; Donna L. Greenhalgh, MBChB FFICM FRCA; Steven N. Konstadt, MD; Annemarie Thompson, MD; Michael S. Wall, MD FCCM; Andrew S. Weisinger, MD FASE |

10–10:30 am

Coffee Break With Exhibitors

Grand Hall AB (Lobby Level)

10:30 am–Noon

Red Cell Transfusion Controversies

Moderator: J. Mauricio Del Rio, MD

Grand Hall CD (Lobby Level)

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|----------------|---|
| 10:30–10:50 am | Liberal and Conservative Transfusion Triggers—What Do They Mean?—C. David Mazer, MD |
| 10:50–11:10 am | The Storage Lesion—Real Threat or Mythical Beast?—Elliott Bennett-Guerrero, MD |
| 11:10–11:30 am | Preoperative Hemoglobin Management Strategies—Lori B. Heller, MD |
| 11:30–Noon | Discussion |

10:30 am–Noon

Focus on the Tricuspid Valve

Moderator: Tara R. Brakke, MD FASE

Seaport GH (2nd Level)

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|---------------------------|---|
| 10:30–10:50 am | Structure and Function of the Tricuspid Valve—Sreekanth Cheruku, MD |
| 10:50–11:10 am | How to Assess Tricuspid Regurgitation?—Carlos Galhardo, MD |
| 11:10–11:30 am | What Causes Functional TR?—Nikolaos J. Skubas, MD DSc FACC FASE |
| Rapid Fire Pro-Con | |
| 11:30–11:45 am | Pro: Don't Touch It! It Will Get Better on Its Own—Chirojit Mukherjee, MD PhD |
| 11:45 am–Noon | Con: No It Won't—Go Ahead and Fix It—Kent H. Rehfeldt, MD FASE |

Noon–1:30 pm

Dessert With Exhibitors

Scientific Poster Session 3: Perioperative Medicine, Structural Disease, Thoracic Anesthesia

Grand Hall AB (Lobby Level) & Seaport AB (2nd Level)

1:30–3 pm

Navigating the Financial Minefield

Moderator: C. David Collard, MD MS

Seaport GH (2nd Level)

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|--------------|--|
| 1:30–1:50 pm | Evolving Bundled Payment Systems—Stanley W. Stead, MD |
| 1:50–2:10 pm | It's a Dog-Eat-Dog World—What to Do if Your Group Gets Taken Over—Joseph W. Szokol, MD |
| 2:10–2:30 pm | Negotiating for a Slice of the Pie—Christopher A. Troianos, MD FASE |
| 2:30–3 pm | Discussion |

Schedule

Tuesday, April 5 (continued)

1:30–3 pm

Grand Hall CD (Lobby Level)

Research Session: Outside-the-Box Ideas in Cardiovascular Medicine: Hormesis, Turtle Hearts, and Mathematical Models

Moderator: Paul M. Heerdt, MD PhD FCCP

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|--------------|--|
| 1:30–1:50 pm | A Little Bad May Be Good: Hormesis and Adaptive Responses in Health and Disease—Mihai V. Podgoreanu, MD FASE |
| 1:50–2:10 pm | Turtle Hearts on YouTube? Lessons Learned from 3-Chambered Hearts—Paul M. Heerdt, MD PhD FCCP |
| 2:10–2:30 pm | Practical Application of Cardiovascular Modeling and Simulation—Marc L. Dickstein, MD |
| 2:30–3 pm | Discussion |

1:30–3 pm

Seaport F (2nd Level)

Controversies in Interventional Cardiology

Moderator: Wendy L. Pabich, MD

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|--------------|---|
| 1:30–1:50 pm | TAVR vs. SAVR?—Lebron Cooper, MD |
| 1:50–2:10 pm | PCI vs. CABG—Davy C.H. Cheng, MD MSc CCPE FCAHS FRCPC |
| 2:10–2:30 pm | Lead Extractions—Where and How Should These Happen?—Nelson Thaemert, MD |
| 2:30–3 pm | Discussion |

3–3:30 pm

Seaport Foyer (2nd Level)

Coffee Break

3:30–5 pm

Grand Hall CD (Lobby Level)

The Role of Human Factors in CPB Disasters

Moderators: James (Jake) H. Abernathy, MD MPH FAHA FASE; Glenn P. Gravlee, MD

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|--------------|--|
| 3:30–3:35 pm | Introduction and Video Presentation |
| 3:35–3:55 pm | Transitions of Care Between Groups: What Is Best Practice?—Sarah Parker, PhD |
| 3:55–4:15 pm | A Surgeon's Perspective on Teamwork During CPB—Eugene M. Golts, MD |
| 4:15–4:25 pm | Panel Discussion |
| 4:25–4:30 pm | Video Presentation |
| 4:30–4:50 pm | CPB-Related Aortic Dissection: Why It Happens and What We Need to Know—Eugene A. Hessel II, MD |
| 4:50–5 pm | Panel Discussion |

3:30–5 pm

Seaport GH (2nd Level)

Adult Congenital Heart Disease (ACHD): Special Considerations for Patients with CHD Surviving Into Adulthood

Moderator: Gregory M. Janelle, MD FASE

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|--------------|---|
| 3:30–3:50 pm | Current Outcomes and Expectations for Patients With Common Congenital Heart Lesions—Dean B. Andropoulos, MD |
| | Anesthetic Considerations for: |
| 3:50–4:10 pm | Adults With CHD Presenting for Redo-Cardiac Surgical Procedures—Susan Eagle, MD |
| 4:10–4:30 pm | Adults With CHD Presenting for Non-Cardiac Surgery—Andrew D. Pitkin, FRCA MRCP |
| 4:30–4:50 pm | Adults With CHD Presenting to Labor and Delivery—Laurie R. Davies, MD |
| 4:50–5 pm | Discussion |

3:30–5 pm

Seaport F (2nd Level)

Controversies in Thoracic Anesthesiology

Moderator: Jens Lohser, MD MSc FRCPC

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|--------------|---|
| 3:30–3:50 pm | Fluid Management—How Much Is Too Much?—Jens Lohser, MD MSc FRCPC |
| 3:50–4:10 pm | Epidural vs. Paravertebral vs. Wound Infusion—Panel Discussion |
| 4:10–4:30 pm | The Perioperative Thoracic Surgical Home—J. Mauricio Del Rio, MD |
| 4:30–4:50 pm | 2014 AATS Guidelines for the Prevention and Management of Perioperative Atrial Fibrillation and Flutter for Thoracic Surgical Procedures—David Amar, MD |
| 4:50–5 pm | Discussion |

5–6 pm

Grand Hall CD (Lobby Level)

Echo Jeopardy!

Moderators: Feroze Mahmood, MD; Andrew D. Maslow, MD; Peter J. Panzica, MD

Schedule: Workshops *(Separate registration required.)*

Saturday, April 2

8–11 am

Seaport F (2nd Level)

Workshop 1: Advanced Transesophageal Echocardiography (TEE)

Moderators: Jonathan Ho, MD; Stanton K. Shernan, MD FAHA FASE

Right Ventricular Quantification—*Feroze Mahmood, MD*

Mitral Valve Measurements—*Stanton K. Shernan, MD FAHA FASE*

Cardiac Deformation (Strain)—*Kimberly Howard-Quijano, MD MS*

Hands-On Stations

Mitral Valve Measurements—*Nelson Burbano, MD; George Gellert, MD*

Right Ventricular Quantification—*Feroze Mahmood, MD; Gabriela Querejeta Roca, MD*

Cardiac Deformation—*Kimberly Howard-Quijano, MD MS; Nikolaos J. Skubas, MD DSc FACC FASE*

Advanced Quantification Demo—*Jacques (Prince) Neelankavil, MD; Madhav Swaminathan, MD FASE*

8–11 am

Seaport C (2nd Level)

Workshop 2: Coagulation and Transfusion

Moderators: Gregory A. Nuttall, MD; Mark A. Taylor, MD FASE

Point-of-Care Testing and Transfusion Algorithms in Cardiac Surgery—*Keyvan Karkouti, MD MSc FRCPC*

Massive Transfusion Protocols: Advantages and Complications—*Michael A. Mazzeffi, MD MPH*

Blood Conservation in Cardiac Surgery—The When and How—*Aryeh Shander, MD*

Hands-On Stations

Point-of-Care Testing: Qualitative vs. Quantitative Platelet Analysis—*Jason D. Kennedy, MD; Yasdet Maldonado, MD; Linda Shore-Lesserson, MD FAHA FASE*

Point-of-Care Testing: Anticoagulation Monitoring—*Kamrouz Ghadimi, MD; Aryeh Shander, MD*

Point-of-Care Testing: Thromboelastography—*Michael A. Mazzeffi, MD MPH*

Rapid Infusion—*Ellen M. Dailor, MD; Daisuke Nonaka, MD*

Cell Salvage—*Harendra Arora, MD; C. David Mazer, MD*

1–4 pm

Seaport F (2nd Level)

Workshop 3: Non-Cardiac U/S: Lungs, Vascular Access, FAST, and More

Moderators: Achikam Oren-Grinberg, MD; Andrew S. Weisinger, MD FASE

Lung U/S for the Detection of Pneumothorax—*Jacek Wojtczak, MD*

The FAST Exam—*Eric Ursprung, MD*

Vascular Access—*Ellen M. Dailor, MD*

Hands-On Stations

Lung Ultrasound—*Amit Bardia, MBBS; Massimiliano Meineri, MD; Jacek Wojtczak, MD*

FAST—*Robina Matyal, MD; Mario Montealegre, MD; Eric Ursprung, MD*

Vascular Access—*Karsten Bartels, MD; Ellen M. Dailor, MD*

1–4 pm

Hillcrest (3rd Level)

Workshop 4: Case-Based TEE

Moderators: Yasdet Maldonado, MD; Alina Nicoara, MD FASE

Case-Based, Small-Group Discussions

Echo in the ICU: Role in the Patient With Hemodynamic Instability—*J. Mauricio Del Rio, MD*

High Gradient Prosthetic Valves: When to Return to CPB—*Georges Desjardins, MD FASE FRCPC*

Ischemic Mitral Regurgitation: When to Fix—*Gary A. Monteiro, MD*

Paravalvular Leaks: When to Return to CPB—*Charles B. Nyman, MBCh*

Mitral Regurgitation in HOCM: When to Address the Mitral Valve—*Kent H. Rehfeldt, MD FASE*

Imaging in Devices (ECMO, VADS): What Is Real vs. Artifact?—*Stephen A. Esper, MD MBA*

Schedule: Workshops (Separate registration required.)

Sunday, April 3

9 am–Noon

Seaport C (2nd Level)

Workshop 5: Transthoracic Echocardiography

Moderator: Tara R. Brakke, MD FASE

The Basic TTE Exam and Anatomy—Jonathan Ho, MD

TEE to TTE Comparison Anatomy—Candice R. Montzingo, MD FASE

How TTE Has Impacted My Management—Sasha K. Shillcutt, MD FASE

Hands-On Stations

Live Model—Jonathan Ho, MD; Candice R. Montzingo, MD FASE; Nicholas W. Markin, MD FASE; Sasha K. Shillcutt, MD FASE

Simulator—Julian S. Bick, MD; Megan Chacon, MD; Ravi Vivekanand Joshi, MD; Walker R. Thomas, BS RDCS FASE

1:30–4:30 pm

Seaport C (2nd Level)

Workshop 6: Percutaneous Valve

Moderators: John (Yianni) G.T. Augoustides, MD FAHA FASE; Nelson Thaemert, MD

State-of-the-Art TAVR: Where are we in 2016?—Tsuyoshi Kaneko, MD

Complex Case Discussion: TAVR—John (Yianni) G.T. Augoustides, MD FAHA FASE

Percutaneous Valve Repair—Tsuyoshi Kaneko, MD

Complex Case Discussion: MitraClip—G. Burkhard Mackensen, MD PhD FASE

Hands-On Stations

Product Discussion: Technology Overview: What's New?—Erik Anderson, MD; Tsuyoshi Kaneko, MD; Charles B. Nyman, MBBCh; Joseph D. Roberts, MD

Problem-Based Learning Discussion: TAVR Planning Sedation vs. GA—John (Yianni) G.T. Augoustides, MD FAHA FASE; Eric W. Nelson, DO; Mary Beth Brady, MD FASE

Hands-on Imaging Session: Manipulating 3-D Data Sets for Decision Making—Megan Chacon, MD; Brian J. Gelfand, MD; G. Burkhard Mackensen, MD PhD FASE; Nikolaos J. Skubas, MD DSc FASE

Wednesday, April 6

8–11 am

Seaport GH (2nd Level)

Workshop 7: Cardiopulmonary Bypass

Moderators: Eugene A. Hessel II, MD; Gregory M. Janelle, MD FASE

Hands-On Stations—Cory M. Alwardt, CCP; Ron Angona, MS CCP; Jonathan R. Bulatao; Kim De La Cruz, CCP FPP; Uriah Dudgeon, CCP MS

8–11 am

Seaport DE (2nd Level)

Workshop 8: 3D TEE

ModeratorS: Jonathan Ho, MD; Sasha K. Shillcutt, MD FASE

Introduction to 3D Imaging Modalities and Live 3D Acquisition—Nicholas W. Markin, MD FASE

Common Applications and 3D Work Flow in the OR—Jacques (Prince) Neelankavil, MD FASE

Gated 3D Imaging: 3D Full Volume and Color Flow Imaging—Candice R. Montzingo, MD FASE

Hands-on Stations

Station 1: Basic System—Megan Chacon, MD

Station 2: Basic System—Peter Neuburger, MD

Station 3: Basic System—J. Mauricio Del Rio, MD

Station 4: Basic System—Erik Anderson, MD

Station 5: Intermediate System—Jacques (Prince) Neelankavil, MD FASE

Station 6: Intermediate System—Logan Kosarek, MD

Station 7: Intermediate System—Ricardo Cardenas, MD; Candice R. Montzingo, MD FASE

Station 8: Intermediate System—Walker R. Thomas, BS RDCS FASE

Station 9: Intermediate System—Nicholas W. Markin, MD FASE

Station 10: Advanced (off-cart laptop)—Georges Desjardins, MD FASE FRCPC

Schedule: Fellow/Junior Faculty Program

Saturday, April 2

11 am–Noon

Seaport AB (2nd Level)

Complex Case Presentations: Session 1

Moderators: Dalia A. Banks, MD FASE; Tara R. Brakke, MD FASE; Megan Chacon, MD; Albert T. Cheung, MD; Susan Eagle, MD; John A. Fox, MD; Jonathan D. Leff, MD; Eric W. Nelson, DO; Mark T. Nelson, MD MEd; Jennie Yee Ngai, MD; Yong G. Peng, MD PhD FASE; Nelson Thaemert, MD; Kevin C. Thornton, MD; Sudhakar Subramani, MD MMED; Daniel A. Tolpin, MD; Justin Wilson, MD

1:15–2:15 pm

Seaport C (2nd Level)

Complex Case Discussion With Expert Panel

Moderators: William (Skip) C. Culp Jr., MD FASE; Roman M. Sniecinski, MD FASE

Panelists: John A. Fox, MD; Aman Mahajan, MD PhD; Scott T. Reeves, MD MBA FACC FASE

- (F1) Transcaval Approach to Transcatheter Aortic Valve Replacement for Treatment of Prosthetic Aortic Stenosis in a Patient With Simultaneous Prosthetic Mitral Valve Stenosis Mark Henry, MD¹; Joseph Fredi, MD FACC FACP¹; Stephen Ball, MD¹; Mark Robbins, MD¹; Bantayehu Sileshi, MD¹; Vanderbilt University Medical Center¹
- (F2) Uncommon Solution to Intractable Ventricular Tachycardia Meggie Raymond, MD FRCPC¹; Robert Lemery, MD FRCPC¹; Christopher Hudson, MD MPH FRCPC¹; University of Ottawa Heart Institute¹
- (F3) Successful Use of Plasma Exchange in a Patient with Heparin-Induced Thrombocytopenia Thrombosis Undergoing Cardiopulmonary Bypass for Heart Transplantation Min Kim, MD¹; Steven Hill, MD¹; Nicole De Simone, MD MPH¹; Ravindra Sarode, MD¹; UT Southwestern Medical Center¹
- (F4) Intraoperative Hyperacute Multi-Vessel Coronary Vasospasm in Cardiac Allograft: A Case Report Stephanie Jones, MD¹; Jay Pal, MD PhD¹; G. Burkhard Mackensen, MD PHD FASE¹; Richard Sheu, MD¹; University of Washington Medical Center¹

2:15–3:30 pm

Seaport C (2nd Level)

Problem-Based Learning Discussion: Lung Transplantation

Facilitators: Ioanna Apostolidou, MD; Dalia A. Banks, MD FASE; Tara R. Brakke, MD FASE; Megan Chacon, MD; Albert T. Cheung, MD; William (Skip) Culp Jr., MD FASE; Michelle Downing, MD; Susan Eagle, MD; John A. Fox, MD; Brian J. Gelfand, MD; Jonathan Ho, MD; Jacques (Prince) Neelankavil, MD; Mark T. Nelson, MD MEd; Jennie Yee Ngai, MD; Prakash A. Patel, MD; Yong G. Peng, MD PhD FASE; Robert Savage, MD FACC; Jack S. Shanewise, MD FASE; Roman M. Sniecinski, MD FASE; Sudhakar Subramani, MD MMED; Michele Sumler, MD; Nelson Thaemert, MD; Kevin C. Thornton, MD; Jason Tippet, MD; Daniel A. Tolpin, MD; Matthew M. Townsley, MD; Justin Wilson, MD

4–5 pm

Seaport C (2nd Level)

A Career in CT Anesthesiology: Mission Possible

Moderators: William (Skip) C. Culp Jr., MD FASE; Roman M. Sniecinski, MD FASE

Panelists: Kathryn E. Glas, MD MBA FASE; Lori B. Heller, MD; Madhav Swaminathan, MD FASE

5–6 pm

Seaport AB (2nd Level)

Complex Case Poster Presentations: Session 2

Moderators: Ioanna Apostolidou, MD; Dalia A. Banks, MD FASE; J. Mauricio Del Rio, MD; John A. Fox, MD; Jonathan D. Leff, MD; Eric W. Nelson, DO; Jacques (Prince) Neelankavil, MD; Prakash A. Patel, MD; Jack S. Shanewise, MD FASE; Jonathan Ho, MD; Sasha K. Shillcutt, MD FASE; Michele Sumler, MD; Nelson Thaemert, MD; Jason Tippet, MD; Matthew M. Townsley, MD; Ratna Vadlamudi, MD

6–7 pm

Old Town (2nd Level)

Optional Mentor Program

(For invited mentors and mentees only)

Sunday, April 3

7–8 am

Seaport AB (2nd Level)

Complex Case Poster Presentations: Session 3

Moderators: Ioanna Apostolidou, MD; Michelle Downing, MD; Brian J. Gelfand, MD; Nicholas W. Markin, MD FASE; Jacques (Prince) Neelankavil, MD; Jennie Yee Ngai, MD; Yong G. Peng, MD PhD FASE; Jason Tippet, MD; Daniel A. Tolpin, MD; Matthew Townsley, MD

Wednesday, April 6

8–11 am

Seaport F (2nd Level)

Workshop 9: Fellow Transesophageal Echocardiography Review Session (Separate registration required.)

Moderators: William (Skip) C. Culp Jr., MD FASE; Roman M. Sniecinski, MD FASE

- 8–8:30 am Artifacts and Pitfalls—Nikolaos J. Skubas, MD DSc FASE
- 8:30–9 am Ultrasound Physics—Kent H. Rehfeldt, MD FASE
- 9–9:30 am Hemodynamic Calculations—Mary Beth Brady, MD FASE
- 9:30–9:45 am Break
- 9:45–10:15 am Congenital Heart Defects—Kathryn Rouine-Rapp, MD
- 10:15–10:45 am Diastology—Wanda M. Popescu, MD

Schedule: PBLDs

Problem-Based Learning Discussions (Separate Registration Required)

PBLD Coordinator: Michael P. Eaton, MD

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

Sunday, April 3, 2016 [6:45–8 am]		3rd Level
PBLD 1	Showing Value to Your Hospital as a Cardiovascular Anesthesiologist Steven N. Konstadt, MD; Joseph N. Szokol, MD	Cortez Hill C
PBLD 2	Pitfalls and Solutions in Invasive Arterial Pressure Measurement Hamdy M. Awad, MD; Jacek Wojtczak, MD	Hillcrest A
PBLD 3	Blood Management and Transfusion Avoidance Lori B. Heller, MD; Keyvan Karkouti, MD MSc FRCPC	Hillcrest B
PBLD 4	Every Pressor I Can Think of and Still No BP! Managing Vasoplegia Adam Evans, MD MBA; Matthew Levin, MD	Hillcrest C
PBLD 5	Prevention and Management of Atrial Fibrillation After CT Surgery Noel G. Boyle, MD PhD; Aman Mahajan, MD PhD	Hillcrest D
PBLD 6	Hypertrophic Obstructive Cardiomyopathy Jiapeng Huang, MD PhD; Thomas Maher, MD	Golden Hill A
PBLD 7	Perioperative Coagulopathy and Transfusion Prakash A. Patel, MD; Kamrouz Ghadimi, MD	Golden Hill B
Monday, April 4, 2016 [6:45–8 am]		3rd Level
PBLD 8	Lung Transplantation Daisuke Nonaka, MD; Mark Stafford-Smith, MD CM FASE FRCPC	Cortez Hill C
PBLD 9	Avoiding Problems With Pacemakers and ICDs Jonathan Ho, MD; Jacques (Prince) Neelankavil, MD	Hillcrest A
PBLD 10	One-Lung Ventilation in a Patient With Fontan Circulation Undergoing Thoracoscopic Procedure Draginja R. Cvetkovic, MD; Galina Leyvi, MD	Hillcrest B
PBLD 11	Preventing and Managing Perioperative Delirium Hilary P. Grocott, MD FASE FRCPC; Srdjan Jelacic, MD	Hillcrest C
PBLD 12	Can You Be Too Cold? Temperature Management for DHCA Albert T. Cheung, MD; Alexander Gregory, MD	Hillcrest D
PBLD 13	ECMO: When to Start, When to Stop Jacob Gutsche, MD; Yasdet Maldonado, MD	Golden Hill A
PBLD 14	The Adult Patient With Congenital Heart Disease Tara R. Brakke, MD FASE; Katie Goergen, MD	Golden Hill B
Tuesday, April 5, 2016 [6:45–8 am]		3rd Level
PBLD 15	Trials and Tribulations of Initiating CPB Eugene A. Hessel II, MD; Oksana Klimkina, MD	Hillcrest A
PBLD 16	Descending Thoracic Aortic Repair: Aortic Transection Johannes Dorfling, MD; J. Thomas Murphy, MD	Hillcrest B
PBLD 17	Mitral Repairs: Minimally Invasive–Maximum Headache? Ellen M. Dailor, MD; Ludmil (Lou) Mitrev, MD	Hillcrest C
PBLD 18	LVAD Looks Great. Right Heart–Not so Much Theresa A. Gelzinis, MD; Erin A. Sullivan, MD	Hillcrest D
PBLD 19	Pre-Op Clinic for SDA Cardiac Surgery: First Step Toward the Perioperative Surgical Home Andrew Goldberg, MD; George Silvay, MD PhD	Golden Hill A
PBLD 20	High-Risk Lead Extractions: Who, Where, and How? Michael Barron, MD; Lilibeth Fermin, MD	Golden Hill B
PBLD 21	Negotiating Payments for Anesthesia Services With Bundling and Capitation Solomon Aronson, MD MBA FACC FAHA FASE; Nelson Thaemert, MD	Balboa C (2nd Level)
Wednesday, April 6, 2016 [6:45–8 am]		3rd Level
PBLD 22	The Patient With Pulmonary Hypertension for Non-Cardiac Surgery Mary Beth Brady, MD FASE; Jochen Steppan, MD	Hillcrest B
PBLD 23	Secondary Tricuspid Regurgitation: Fix it or Leave it Alone? Ravi Vivekanand Joshi, MD; Kent H. Rehfeldt, MD FASE	Hillcrest C
PBLD 24	The Patient With LVAD for Non-Cardiac Surgery Sheela Pai Cole, MD; Lindsay Raleigh, MD	Hillcrest D
PBLD 25	Fast Track and Enhanced Recovery in Cardiac Surgery Joerg Ender, MD; Kathirvel Subramaniam, MD MPH	Golden Hill A
PBLD 26	Managing the Patient Taking the New Oral Anticoagulants Harendra Arora, MD; Gregory A. Nuttall, MD	Golden Hill B

Scientific Abstracts and Posters

Best of Meeting Oral Abstract Presentations: Session 1

Sunday, April 3, 4–6 pm

Seaport F (2nd Level)

SCA1: Myocardial Gene Expression Is Altered in Patients Developing Postoperative Atrial Fibrillation
Jelliffe Jeganathan, MD¹; Rabya Saraf, BA¹; Aaron Mittel, MD¹; Ruby Feng, BA¹; Feroze Mahmood, MD FASE¹; Manoj Bhasin, PhD¹; Kamal Khabbaz, MD¹; David Liu, MD¹; Venkatachalam Senthilnathan, MD¹; Robina Matyal, MD¹; Beth Israel Deaconess Medical Center¹

SCA2: Remodeling in the Cardiac Nervous System Following Myocardial Infarction
Kimberly Howard-Quijano, MD MS¹; Chen Gao, PhD¹; Christopher Rau, PhD¹; Tatsuo Takamiya, MD¹; Wei Zhou, PhD FAHA¹; Yibin Wang, PhD¹; Aman Mahajan, MD PhD¹; University of California, Los Angeles¹

SCA3: Local Delivery of Nanoparticle-Tagged Neuropeptide Y Improves Functional Blood Flow in a Murine Model of Hind Limb Ischemia
Rabya Saraf, BA¹; Derek Eshun, MD¹; Jelliffe Jeganathan, MD¹; Soochan Bae, PhD¹; Feroze Mahmood, MD FASE¹; Qingen Ke, MD¹; Peter Kang, MD¹; Robina Matyal, MD¹; Beth Israel Deaconess Medical Center¹

SCA4: Haptoglobin Polymorphism is Associated with Increased Risk for AKI and Mortality after CABG Surgery in Patients with Diabetes
Jacob Raphael, MD¹; Chenzhuo Feng, MD²; Swapna Thamishetti, MD¹; David Scalzo, MD¹; Zhiyi Zuo, MD PhD¹; University of Virginia¹; Hangzhou Normal University²

SCA5: Decreased Preoperative Functional Status Is Associated With Increased Mortality Following Coronary Artery Bypass Surgery
Hanjo Ko, MD¹; Julius Ejiofor, MD¹; Jessica Rydingsward, DPT¹; James Rawn, MD¹; Jochen Muehlschlegel, MD MMSc FAHA¹; Kenneth Christopher, MD¹; Brigham and Women's Hospital¹

SCA6: DNA Methylation Is Independently Associated With Postoperative Atrial Fibrillation
Matthew Fischer, MD¹; Emma Monte, PhD¹; Kimberly Howard-Quijano, MD MS¹; Todd Kimball, BS¹; Matteo Pellegrini, PhD¹; Jennifer Scovotti, MA¹; Yibin Wang, PhD¹; Thomas Vondrisk, PhD¹; Aman Mahajan, MD PhD¹; University of California, Los Angeles¹

SCA7: Association Between Intraoperative Jugular Venous Congestion and Postoperative Delirium
Yafen Liang, MD¹; Jennifer Morse, MS¹; Matthew Shotwell, PhD¹; Jason O'Neal, MD¹; Andrew Shaw, MB FCCM FRCA¹; Frederic Billings, MD¹; Vanderbilt University Medical Center¹

SCA8: New-Onset Atrial Fibrillation and Chronic Atrial Fibrillation, and the Risk of Stroke in Post-Cardiac Surgery Patients
Zongbin Li, MD; Weiling Liu, BSc¹; Sophia Chew, MBBS MMED FANZCA²; Lian Kah Ti, MBBS³; National University of Singapore¹; Singapore General Hospital²; National University Hospital³

Best of Meeting Oral Abstract Presentations: Session 2

Monday, April 4, 3:30–5:30 pm

Seaport F (2nd Level)

SCA9: Effects of Delayed, Remote Ischemic Preconditioning on Perioperative Myocardial Injury in Patients Undergoing Cardiac Surgery—A Randomized, Controlled Trial
Susie Yoon, MD¹; Tae Kyong Kim, MD¹; Ho-jin Lee, MD¹; Jeong Jin Min, MD¹; Youn Joung Cho, MD¹; Deok Man Hong¹; Yunseok Jeon, MD¹; Jae-Hyon Bahk, MD¹; Seoul National University Hospital¹

SCA10: Comparison of Propofol/Opioid vs. Dexmedetomidine for Sedation in Transfemoral TAVI Regarding Perioperative Gas Exchange and Catecholaminergic Use
Patrick Mayr, MD¹; Gunther Wiesner, MD PhD¹; Thomas Ried, MD¹; Jürgen Knorr, MD¹; Peter Tassani-Prell, MD Prof¹; Martin Klaus, MD PhD¹; Deutsches Herzzentrum München, TUM¹

SCA11: Comparing Preoperative Measures and Postoperative Outcomes in Diabetic versus Nondiabetic Cardiac Surgery Patients
Ziyad Knio, BS¹; Eitezaz Mahmood, BA²; Mario Montealegre-Gallegos, MD¹; Rabya Saraf, BA¹; Robina Matyal, MD¹; Feroze Mahmood, MD FASE¹; Beth Israel Deaconess Medical Center¹; Feinberg School of Medicine, Northwestern University²

SCA12: Tricuspid Annulus: a Geometric and Temporal Analysis
Ziyad Knio, BS¹; Bilal Chaudary, MD MBA¹; Jelliffe Jeganathan, MD¹; Lu Yeh, MD¹; Mario Montealegre-Gallegos, MD¹; Rabya Saraf, BA¹; Kamal Khabbaz, MD¹; Robina Matyal, MD¹; Feroze Mahmood, MD FASE¹; Beth Israel Deaconess Medical Center¹

SCA13: Risk Factors for Stroke Following Coronary Artery Bypass Graft Surgery
Eitezaz Mahmood, BA¹; Ziyad Knio, BS²; Rabya Saraf, BA²; Mario Montealegre-Gallegos, MD²; Feroze Mahmood, MD FASE²; Robina Matyal, MD²; Feinberg School of Medicine, Northwestern University¹; Beth Israel Deaconess Medical Center²

SCA14: Expression Quantifying Trait Loci Analysis of Genes and Variants Associated with Atrial Fibrillation
Martin Sigurdsson, MD PhD¹; Mahyar Heydarpour, PhD¹; Louis Saddic, MD PhD¹; Tzuu-Wang Chang, PhD¹; Stanton Shernan, MD FAHA FASE¹; Prem Shekar, MD¹; Sary Aranki, MD¹; Gregory Couper, MD¹; Jochen Muehlschlegel, MD MMSc FAHA¹; Simon Body, MBChB MPH FAHA¹; Brigham and Women's Hospital¹

SCA15: Gender-Specific Cardioprotective Effects of Annexin-A1 Bioactive Peptide Involve the Sirtuin-3 Signaling Pathway
Zhiquan Zhang, PhD¹; Qing Ma, MD¹; Alina Nicoara, MD FASE¹; Quintin Quinones, MD PhD¹; Matthew Hirschey, PhD¹; Mihai Podgoreanu, MD FASE¹; Duke University Medical Center¹

Scientific Abstracts and Posters

Scientific Poster Session 1: Basic Science, Cardiovascular Anesthesiology, Case Reports, Coagulation

Sunday, April 3, 12:30–1:30 pm

Seaport AB (2nd Level)

SCA16: Mast Cell Activation and Acute Kidney Injury Following Coronary Artery Bypass Grafting Requiring Cardiopulmonary Bypass

Bradford Berndt, MD¹; Miklos Kertai, MD PhD¹; Joseph Mathew, MD¹; Wenjing Qi, PhD¹; Yi-Ju Li, PhD¹; Jorn Karhausen, MD¹; Duke University Health System¹

SCA17: How Much Is a 14-Gauge Intravenous Catheter Worth? Micropuncture Kits for Peripheral Vein Access

Michael Bowman, DO¹; Luiz Maracaja Neto, MD¹; Olabode Ogunwole, MD¹; University of Texas Health Science Center, San Antonio¹

SCA18: Coactivation of Cardiac Mitochondrial Biogenesis after Syngeneic Heterotopic Mouse Heart Transplantation

Anne Cherry, MD¹; Kris Porter, BS¹; Hagir Suliman, DVM PhD¹; Jun Wang, MD PhD¹; Linda Cendales, MD¹; Allan Kirk, MD PhD¹; Claude Piantadosi, MD¹; Duke University Medical Center¹

SCA19: Thoracic Epidural Anesthesia Prevents Ventricular Arrhythmias by Reducing Dispersion of Repolarization and Electrical Restitution During Myocardial Ischemia

Kimberly Howard-Quijano, MD MS¹; Kentaro Yamakawa, MD¹; Tatsuo Takamiya, MD¹; Wei Zhou, PhD FAHA¹; Jeff Ardell, PhD¹; Kalyanam Shivkumar, MD PhD¹; Aman Mahajan, MD PhD¹; University of California, Los Angeles¹

SCA20: Incidence of Acute Kidney Injury Following Heart Transplantation

Adam Kretzer, MD¹; Mary Cooter, MSc¹; Mark Stafford-Smith, MD CM FASE FRCPC¹; Raquel Bartz, MD¹; Chetan Patel, MD¹; Carmelo Milano, MD¹; Alina Nicoara, MD FASE¹; Duke University Medical Center¹

SCA21: Epinephrine Exposure May Enhance Inflammation Related Gene Expression Changes in Cultured Cardiomyocytes

Henry Liu, MD¹; Lisa Sangkum, MD¹; Geoffrey Liu, BA²; Farshad Rashidian, DO¹; Waqas Anjum, MD¹; Rayhan Tariq, MD¹; Michael Green, DO¹; Marilyn Li, MD²; Alan Kaye, MD PhD³; Drexel University College of Medicine¹; University of Pennsylvania School of Medicine²; LSU School of Medicine³

SCA22: Heart-Specific Release of Immune Mediators During Surgical Ischemia-Reperfusion and Their Association with Post-operative Adverse Outcomes

Ying Hui Low, MD¹; Yi-Ju Li, PhD¹; Aslan Turer, MD²; Jingzhu Zhou, BS¹; Quintin Quinones, MD PhD¹; Mihai Podgoreanu, MD FASE¹; Duke University Hospital¹; UT Southwestern²

SCA23: Sirtuin-3 Ablation Results in Sexual Dimorphism of Cardiac Dysfunction Following Ischemia-Reperfusion

Qing Ma, MD¹; Alina Nicoara, FASE MD¹; Zhiquan Zhang, PhD¹; Quintin Quinones, MD PhD¹; Matthew Hirschey, PhD¹; Mihai Podgoreanu, MD FASE¹; Duke University Medical Center¹

SCA24: Propofol Confers Postconditioning Cardioprotection Against Myocardial Ischemia Reperfusion Injury via Modulation of Caveolin1/Endothelial Nitric Oxide Synthase Interaction
Xiaowen Mao¹; Gordon Wong, MBBS BSc Med MD¹; Michael Irwin, MD¹; Paul M. Vanhoutte¹; Qingquan Lian¹; Zhengyuan Xia, MD PhD¹; The Second Affiliated Hospital & Yuying Children's Hospital of Wenzhou Medical University¹

SCA25: Proteomic Profiling and Multicolor Flow Cytometry Reveal Tissue Compartment Specific Differences in Innate Immunity, Susceptibility to Injury, and Response to Surgical Ischemia-Reperfusion Between Rats and Arctic Ground Squirrels

Quintin Quinones, MD PhD¹; Qing Ma, MD¹; Michael Smith, MS¹; Janet Staats, BS¹; Cliburn Chan, MBBS PhD¹; Kent Weinhold, PhD¹; Brian Barnes, PhD²; Mihai Podgoreanu, MD FASE¹; Duke University Medical Center¹; University of Alaska²

SCA26: Decreasing Force Development in Hypercontractile Cardiac Muscles by Propofol: Potential Implications to Treatment of Heart Diseases with Hypercontractile States

Xianfeng Ren¹; Tao Meng, MD²; Kellie Woll, BS³; Weiming Bu, PhD³; Xinzhong Chen, MD²; Chenghui Li, MD¹; Theodore Abraham, MD⁴; Roselle Abraham, MD⁴; Roderic Eckenhoff, MD³; Wei Dong Gao, MD²; China-Japan Friendship Hospital¹; Huazhong University of Science and Technology, Union Hospital²; University of Pennsylvania, School of Medicine³; Johns Hopkins University⁴

SCA27: Long Noncoding RNA Profile of the Acute Ischemic Human Heart

Louis Saddic, MD PhD¹; Tzuu-Wang Chang, PhD¹; Martin Sigurdsson, MD PhD¹; Mahyar Heydarpour, PhD¹; Stanton Shernan, MD FAHA FASE¹; Sary Aranki, MD¹; Christine Seidman, MD¹; Jon Seidman¹; Simon Body, MBChB MPH¹; Jochen Muehlschlegel, MD MMSc FAHA¹; Brigham and Women's Hospital¹

SCA28: Expression of MicroRNA in the Left Atrium of Patients With and Without Post-Operative Atrial Fibrillation after Cardiac Surgery

Martin Sigurdsson, MD PhD¹; Mahyar Heydarpour, PhD¹; Louis Saddic, MD PhD¹; Tzuu-Wang Chang, PhD¹; Stanton Shernan, MD FAHA FASE¹; Prem Shekar, MD¹; Sary Aranki, MD¹; Gregory Couper, MD¹; Jochen Muehlschlegel, MD MMSc FAHA¹; Simon Body, MBChB MPH FAHA¹; Brigham and Women's Hospital¹

SCA29: A Genome-Wide Association Study of Aortic Stenosis in Patients with Bicuspid Aortic Valve Disease

Jan Sliwa, MD¹; Mahyar Heydarpour, PhD¹; Vanessa Monteiro-Vieira, BSc¹; Karam Habchi, BSc¹; Martin Sigurdsson, MD PhD¹; Jochen Muehlschlegel, MD MMSc FAHA¹; Peter Martin, BA¹; Prem Shekar, MD¹; Eric Isselbacher, MD²; Thor Sundt, MD²; Simon Body, MBChB MPH FAHA¹; Brigham and Women's Hospital; Massachusetts General Hospital²

Scientific Abstracts and Posters

SCA30: Systemic Inflammatory Response Following Percutaneous Coronary Intervention PCI: As a Part of Hybrid Procedure in Comparison to Primary Percutaneous Coronary Intervention Alone

Kumar Vivek, MD¹; Galina Leyvi, MD¹; Sankalp Sehgal, MD²; Kea Moncada, BA¹; Nancy Shilian; Adrienne Warrick, MD³; Jonathan Leff, MD¹; Montefiore Medical Center¹; Hahnemann Hospital²; University of Florida³

SCA31: The Cost of a Cardiothoracic Surgery Team's Presence during Transcatheter Aortic Valve Deployment

Jacob Martin, MD¹; Christopher Mayhew, BS¹; Ari Bensimhon, MD¹; Borzoo Farhang, DO¹; Mitchell Tsai¹; University of Vermont Medical Center¹

SCA32: Minimal Sedation vs. General Endotracheal Anesthesia: A Pilot Study of the Effect of Anesthetic Approach on Inducibility and Stability of Ventricular Tachycardia During Ablation Procedures

Wendy Gross, MD¹; Charles Nyman, MBCh¹; William Stevenson, MD¹; Alan Enriquez, MD²; Douglas Shook, MD FASE¹; Brigham and Women's Hospital¹; Yale University²

SCA33: General Anesthesia vs. Local Anesthesia and Conscious Sedation for Transfemoral Aortic Valve Implantation: A British Single-Center Comparison

Lachlan Miles, FANZCA MBBS¹; Kaustuv Joshi, BA(Hons)²; Andrew Klein, MBBS FRCA FFICM¹; Elizabeth Ogilvie, MBBS FRCA³; Guillermo Martinez, MD¹; Joanne Irons, MBChB MRCP FRCA PG DipCU¹; Papworth Hospital NHS Foundation Trust¹; University of Cambridge²; Barts Heart Centre³

SCA34: Our Cath Lab Experience Using Monitored Anesthesia Care MAC: vs. General Anesthesia for Transfemoral Aortic Valve Replacement (TAVR)

Joseph Sanders, MD¹; Lebron Cooper, MD²; Kimberly Nicol, DO¹; Michael Isley, MD¹; Vanda Ametli, MSIE¹; Seyed Mani Marashi, PhD Candidate³; Henry Ford Hospital¹; University of Tennessee College of Medicine²; Wayne State University³

SCA35: Retrospective Comparison of Sedation vs. General Anesthesia in a Goal-Directed Transfemoral Transcatheter Aortic Valve Replacement Pathway

Huan Wang, MD¹; Douglas Shook, MD FASE²; Pinak Shah, MD¹; Tsuyoshi Kaneko, MD¹; Stanton Shernan, MD FAHA FASE¹; Wendy Gross, MD¹; Chuan-Chin Huang, Sc D¹; Charles Nyman, MBCh¹; Brigham and Women's Hospital¹

SCA36: Ultrasound Imaging of Thoracic Duct in Patients with Different Levels of Left Ventricular Ejection Fraction

Nawar Al-Rawas, MD¹; Alina Nicoara, MD¹; Raquel Bartz, MD MMCI¹; Duke University Medical Center¹

SCA37: Aortic Root Rupture During Transcatheter Aortic Valve Replacement

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

SCA38: Intracardiac Metastasis of Germ Cell Tumor

Reginald Bulkley, MD¹; Michael Kopec, MD¹; Andrea Reidy, MD²; Southern Illinois School of Medicine¹; Baylor College of Medicine²

SCA39: Synthetic Stimulants Reaching Epidemic Proportions: A Case of Flakka-Induced STEMI

Shane Cherry, MD¹; Yilam Rodriguez-Blanco, MD²; University of Miami/JHS¹; University of Miami²

SCA40: Anesthesia Considerations for Da Vinci CABG

Mark Davis, MD¹; Danny Ramzy, MD PhD¹; Manxu Zhao, MD¹; Cedars Sinai Medical Center¹

SCA41: When You Hear Hoofbeats and It Really Is a Unicorn: Evaluation of the Unicuspid Aortic Valve and Its Associated Anomalies

Meredith Degnan, MD¹; Shane Cherry, MD¹; Guillermo Garcia, MD²; University of Miami/JHS¹; Miami Beach Anesthesiology Associates²

SCA42: Avoidance of Transfusion in Stanford Type A Dissection: The Role of Thromboelastography

Adam Eslick, MBBS(Hons) BMedSc FANZCA PGDipCU¹; Jonathan Trinh, BMBS(Hons) BMedSc¹; Monika Kenig, BMed FANZCA¹; Westmead Hospital¹

SCA43: Influenza; Extra-Corporeal Membrane Oxygenation and Mechanical Circulatory Support: A Single Center; 2-Year Case Series

Shawn Hansberry, MD¹; Quintin Quinones, MD PhD¹; Nathan Waldron, MD¹; Rachael Mintz Cole, MD PhD¹; Mani Daneshmand, MD¹; Cameron Wolfe, MBBS MPH¹; Raquel Bartz, MD; MMCI¹; Mary Cooter, MSc¹; Duke University Hospital¹

SCA44: Circulatory Support for Ventricular Tachycardia Ablations: A Case Series

Walead Hessami, MD¹; John Fox, MD¹; James Abernathy, MD FAHA FASE MPH¹; Timothy Heinke, MD¹; George Whitener, MD¹; Alan Finley, MD¹; Eric Nelson, DO¹; George Guldean, MD¹; Medical University of South Carolina¹

SCA45: Delayed Phrenic Nerve Palsy in Supraclavicular Block in a Patient with Chronic Heart Failure

Steven Miller, MD¹; Albert Yen, MD²; Columbia University¹; Columbia University Medical Center²

SCA46: Massive Cardiac Thrombosis: An Unusual Presentation of Disseminated Intravascular Coagulopathy

Basma Mohamed¹; Laurie Davies, MD¹; University of Florida¹

SCA47: Intraoperative Transesophageal Echocardiography Identifies Nonseminomatous Germ Cell Tumor Thrombus Dislodged from Superior Vena Cava into Right Ventricle

Teresa Moon, MD¹; January Tsai, MD¹; Vachhani Shital, MD¹; Jose Banchs, MD FACC FASE¹; Javier Lasala, MD¹; Marc Rozner, PhD MD¹; UT MD Anderson Cancer Center¹

SCA48: Retrograde Aortic Dissection Progression after Discontinuation of Femoro-Femoral Cardiopulmonary Bypass

Mina Oftadeh, DO¹; Pierre LeVan, MD¹; Chad Talarek, MD¹; Jenny Kwak, MD¹; Jayanta Mukherji, MBBS¹; Loyola University Medical Center¹

SCA49: Device Embolization: A Rare Complication of Percutaneous Mitral Valve Edge-to-Edge Repair

Daniela Orza, MD¹; Ernesto Ruiz-Rodriguez, MD²; Emil Missov, MD PhD²; Ioanna Apostolidou, MD²; Gregory Helmer, MD²; Gladwin Das, MD²; University of Illinois at Chicago¹; University of Minnesota²

Scientific Abstracts and Posters

Scientific Poster Session 1: Basic Science, Cardiovascular Anesthesiology, Case Reports, Coagulation

Sunday, April 3, 12:30–1:30 pm [continued]

SCA50: Surgical Revascularization after Myocardial Infarction Due to Coronary Artery Aneurysm Thromboembolism
Lindsay Raleigh¹; Jim Wong, MD MS¹; Stanford Hospitals and Clinics¹

SCA51: Spinal Cord Edema and Reversible Paralysis Following Open Thoracoabdominal Aortic Aneurysm Repair
Jasmine Ryu, DO¹; Mohamed Ehab Ramadan, MD¹; Esmerina Tili, PhD¹; Juan Crestanello, MD¹; Hamdy Awad, MD¹; The Ohio State University, Wexner Medical Center¹

SCA52: Perioperative Outcomes after Watchman Left Atrial Appendage Occlusion Device: A Case Series
Kara Siegrist, MD¹; Robert Deegan, BCh MD PhD¹; Mias Pretorius, MBChB¹; Jeremy Bennett, MD¹; Vanderbilt University Medical Center¹

SCA53: 3D Echocardiography Optimally Guides Pulmonary Vein Stenting in Acquired Adult Pulmonary Vein Stenosis
Jan Sliwa, MD¹; Piotr Sobieszczyk, MD¹; Douglas Shook, MD FASE¹; Dirk Varelmann, MD DESA EDIC¹; Brigham and Women's Hospital¹

SCA54: Transthoracic Echocardiography for Evaluation of Aortic Insufficiency in Patients Undergoing Transcatheter Aortic Valve Replacement under Monitored Anesthesia Care
Rishi Vashishta, MD¹; Ryan Potosky, MD¹; Peter Neuburger, MD¹; NYU Langone Medical Center¹

SCA55: Intracardiac Thrombosis Associated With Cardiopulmonary Bypass: Index Case and Review of Case Reports
Brittney Williams, MD¹; Andrew Crabbe, MD¹; Zachary Kon, MD¹; Michael Mazzeffi, MD MPH¹; Kenichi Tanaka, MD MSc¹; University of Maryland¹

SCA56: Elevated Transvalvular Gradients after Aortic Valve Replacement and the Utility of the Dimensionless Index
Greg Yerington, MD¹; Katja Turner, MD¹; Michael Essandoh, MD¹; Ohio State University¹

SCA57: Is Venovenous Extracorporeal Membrane Oxygenation Appropriate for Acute Respiratory Distress Syndrome Requiring Hemodynamic Support?
Jeongae Yoon, MD¹; William Vernick, MD¹; Jacob Gutsche, MD¹; John Augoustides, MD FASE FAHA¹; Ronak Shah, MD¹; Hospital of the University of Pennsylvania¹

SCA58: Do D-dimer Levels Predict Mortality in Patients with Mechanical Circulatory Support in the Cardiothoracic ICU?
Hassan Amhaz, MD MS¹; Ian Welsby, MBBS¹; Kamrouz Ghadimi, MD¹; Frederick Lombard, MBChB FANZCA¹; Jingzhu (Kathy) Zhou, BS¹; Yi-Ju Li, PhD¹; Raquel Bartz, MD MMCI¹; Jerrold Levy, MD FAHA FCCM¹; Duke University Medical Center¹

SCA59: High Ratios of Red Blood Cells to Fresh Frozen Plasma Are Associated With Increased Mortality in Massively Transfused Cardiac Surgery Patients
Evan Chriss, MD¹; Kenichi Tanaka, MD MSc¹; James Gammie,

MD¹; Michael Mazzeffi, MD MPH¹; University of Maryland¹

SCA60: Estimating Transfusion Risk in Patients Undergoing Aortic Valve Replacement: A Predictive Model
Hannah Dahn, BSc¹; Karen Buth, MSc¹; Jahanara Begum, MSc¹; Jean-Francois Legare, MD¹; Matthias Scheffler, MD¹; Dalhousie University¹

SCA61: The Use of Recombinant Factor VIIa in Congenital Cardiac Patients Increases Thromboembolic Risk: A Propensity-Matched Study
Laura Downey, MD¹; Morgan Brown, MD²; David Faraoni, MD PhD²; David Zurakowski, PhD MS²; James DiNardo, MD²; Stanford University¹; Boston Children's Hospital²

SCA62: Outcomes in Blood Refusal Patients Undergoing Cardiac Surgery and Receiving Erythropoietin Compared to Patients who did not: A Case-Matched Study
Lorent Duce, MD¹; Mary Cooter, MSc¹; Sharon McCartney, MD¹; Frederick Lombard, MBChB FANZCA¹; Nicole Guinn, MD¹; Duke University¹

SCA63: Fibrinogen Targets and Transfusion after Cardiopulmonary Bypass
W. Jonathan Dunkman, MD¹; Kamrouz Ghadimi, MD¹; Ishwori Dhakal, MS¹; Jacob Schroder, MD¹; Jerrold Levy, MD FAHA FCCM¹; Ian Welsby, MBBS¹; Duke University Medical Center¹

SCA64: Can Prothrombin Time, Fibrinogen, and Platelet Values During Cardiopulmonary Bypass Be Used to Predict Postbypass Levels?
Eduardo Goenaga Diaz, MD¹; Zachary Glicksman, MD¹; Andrew Voris, MD¹; Douglas Ririe, MD PhD¹; Roger Royster, MD¹; Wake Forest University Baptist Medical Center¹

SCA65: Three Factor Prothrombin Complex Concentrates for Bleeding in Cardiac Surgery: A Novel Algorithmic Approach
Nazish Hashmi, MD¹; Eric Ehieli, MD¹; Kamrouz Ghadimi, MD¹; Jacob Schroder, MD¹; Jerrold Levy, MD FAHA FCCM¹; Ian Welsby, MBBS¹; Duke University Medical Center¹

SCA66: Nadir Postoperative Platelet Counts in Off Pump vs. On Pump Coronary Artery Bypass Surgery and Associated Risk of Acute Kidney Injury
Simon Kigwana, BA¹; Robert Schonberger, MD MHS¹; Adambeke Nwozuzu, MD¹; Miriam Mascarenhas Monteiro¹; Dai Feng¹; Daniel Kinney, MD¹; Miklos Kertai, MD PhD¹; Karen Conway, MBA BSN RN CCRP¹; Michael Dewar, MD¹; Susan Garwood, MD¹; Roberta Hines; Manuel Fontes, MD¹; Yale University¹

SCA67: Pattern of Postoperative Nadir Hemoglobin; Recovery of Anemia; and Associated Transfusion in Off Pump CABG vs. Standard ONCAB Surgery
Simon Kigwana, BA¹; Michael Dewar, MD¹; Adambeke Nwozuzu, MD¹; Miriam Mascarenhas Monteiro¹; Dai Feng¹; Daniel Kinney, MD¹; Robert Schonberger, MD MHS¹; Irena Vaitkeviciute, MD¹; Karen Conway, MBA BSN RN CCRP¹; Umer Darr, MD¹; Roberta Hines; Manuel Fontes, MD¹; Yale University¹

Scientific Abstracts and Posters

SCA68: Supplemental Antithrombin is Effective in Achieving Adequate Anticoagulation in Infants and Children with an Inadequate Response to Heparin
Mathew Lopez, MD¹; Michael Eaton, MD¹; University of Rochester Medical Center¹

SCA69: Evaluation of Hemosep[®] Cell Salvage Device in Cardiac Surgical Patients
Roofa Mushtaq, MD FRCA¹; Vijay Jeganath¹; Adrian Levine¹; University Hospitals of North Midlands¹

SCA70: Extracellular Histones: Potential Implications in the Coagulopathy and Renal Dysfunction of Cardiopulmonary Bypass
Daryl Reust, MD¹; Ravi Keshari, PhD²; Florea Lupu, PhD²; Hayden Miller, CCP LP¹; University of Oklahoma Health Sciences Center¹; Oklahoma Medical Research Foundation²

SCA71: Can the Dose of Heparin be Decreased in Obese and Morbidly Obese Patients for Cardiopulmonary Bypass?
Bassem Saad, MD¹; John Thurston¹; Jennie Ngai, MD¹; New York University Medical Center¹

SCA72: Thrombocytopenia as Etiology of Bleeding Associated with Veno-Venous ECMO
Ronak Shah, MD¹; Todd Miano, PharmD MSCE¹; Rebekah Williams, BS¹; Yianni Augoustides, MD FASE FAHA¹; Zev Noah Kornfield, MD²; Jacob Gutsche, MD¹; Hospital of the University of Pennsylvania¹; WUSTL School of Medicine²

SCA73: Perioperative Hypocoagulability as Assessed by ROTEM Test is an Independent Predictor of Adverse Outcome Following Off-Pump Coronary Bypass Surgery
Sarah Soh, MD¹; Jae Kwang Shim, MD PhD¹; Young Lan Kwak, MD PhD¹; Yonsei University College of Medicine¹

SCA74: The Effects of Two Different Red Blood Cell Transfusion Thresholds on Short-Term Clinical Outcomes of Patients Undergoing Aortic Surgery with Deep Hypothermic Circulatory Arrest
Yongyuan Wang, MD¹; Hongwen Ji, MD¹; Fu Wai Hospital¹

SCA75: Postoperative Anticoagulation and Impact of Left Ventricular Assist Device Thrombosis Within 1 Year: A Single-Center; Retrospective; Observational Study
Sarah Witt, MD¹; Ian Welsby, MBBS¹; Ishwori Dhakal, MS¹; Chetan Patel, MD¹; Carmelo Milano, MD¹; Kamrouz Ghadimi, MD¹; Duke University Medical Center¹

Scientific Abstracts and Posters

Scientific Poster Session 2: Echocardiography-3D, Echocardiography-Other

Monday, April 4, 12:30-1:30 pm

Seaport AB (2nd Level)

SCA76: Comparison of Cardiac Output Measurement Using 2- and 3-Dimensional Transesophageal Echocardiography with Transpulmonary Thermodilution During Cardiac Surgery
David Cauty, MD¹; Colin Royse, MD²; Ranjan Guha, MBChB FRCA³; Tuan Pham, MBBS BMedSc(Hons)⁴; Martin Kim, FANZCA Diplomate NBE²; Melbourne Hospitals University of Melbourne¹; University of Melbourne²; Royal Melbourne Hospital³; Monash Health⁴

SCA77: Three-Dimensional vs. Two-Dimensional Echocardiographic Assessment of Mitral Valve Stenosis
Sergey Karamnov, MD¹; Nelson Burbano-Vera, MD¹; Rosemary Uzomba, MD MPH¹; John Fox, MD¹; Stanton Shernan, MD FASE FAHA¹; Brigham and Women's Hospital¹

SCA78: Does 3D TEE Offer an Advantage Over PA Catheter Thermodilution in Measuring Cardiac Output?
Daniel Kinney, MD¹; Jamel Ortoleva, MD¹; Manuel Fontes, MD¹; Trevor Banack, MD¹; Yale University¹

SCA79: Hemodynamic Testing of Patient-Specific Mitral Valves Using a Pulse Duplicator: An Introduction to Technology
Ziyad Knio, BS¹; Azad Mashari, MD FRCPC¹; Jelliffe Jeganathan, MD¹; Mario Montealegre-Gallegos, MD¹; Lu Yeh, MD¹; Yannis Amdor, MD¹; Rabya Saraf, BA¹; Feroze Mahmood, MD FASE¹; Robina Matyal, MD¹; Kamal Khabbaz, MD¹; Beth Israel Deaconess Medical Center¹

SCA80: Intraoperative Right Ventricular Ejection Fraction Measured by Three-Dimensional Echocardiography Predicts Mortality Following Tricuspid Valve Surgery
Gabriela Querejeta Roca, MD¹; Ross Hanson, MD¹; Jamahal Luxford, MbChB¹; Kerry Wilusz, BA¹; Anne Purcell BS¹; Carolyn Butler, MD¹; Jochen Muehlschlegel, MD MMSc FAHA¹; John Fox, MD¹; Stanton Shernan, MD FAHA FASE¹; Brigham and Women's Hospital¹

SCA81: Dynamism of the Tricuspid Annulus
Alexander Woltersom, BS¹; Ziyad Knio, BS¹; Robina Matyal, MD¹; Rabya Saraf, BA¹; Jelliffe Jeganathan, MD¹; Feroze Mahmood, MD FASE¹; Kamal Khabbaz, MD¹; Mario Montealegre-Gallegos, MD¹; Beth Israel Deaconess Medical Center¹

SCA82: Three-Dimensional (3D) Transesophageal Echocardiographic TEE: Assessment of Mitral Valve Repair using a Simpli-T Annuloplasty Band on Mitral Valve Annular Geometry: A Retrospective, Observational Study
Nayer Youssef, MD FRCPC¹; David Orlov, MD³; Paaladinesh Thavendiranathan, MD MSc FRCPC³; Tirone David, MD²; Massimiliano Meineri, MD²; Mc Master University¹; University of Toronto²; Toronto General Hospital³

SCA83: Doppler and Strain Based Assessment of Diastolic Function in Cardiac Surgical Patients: Intraoperative Comparison of Transthoracic and Transesophageal Echocardiography
Christopher Aldrich, MD¹; Reed Harvey, MD¹; Kimberly Howard-Quijano, MD MS¹; Einat Mazor, BA RDCS¹; Jennifer Scovotti, MA¹; Aman Mahajan, MD PhD¹; University of California, Los Angeles¹

SCA84: Differential Impact of Temporal Variation on Measurements of Effective Mitral Regurgitant Orifice Area in Functional vs. Degenerative Disease
Nelson Burbano, MD¹; Tom Edrich, MD²; Phebe Ko, MD³; Chuan-Chin Huang, ScD¹; John Fox, MD¹; Douglas Shook, MD FASE¹; James Hardy, MBBS¹; Frederick Cobey, MD MPH FASE¹; Stanton Shernan, MD FAHA FASE¹; Brigham and Women's Hospital¹; General Hospital Landkreis Erding²; California Pacific Medical Center³; Tufts Medical Center⁴

SCA85: Comparison of Practical and Interpretive Focused Cardiac Ultrasound Learning Outcomes Between a Self-Directed Simulator and Traditional Live Model Course
David Cauty, MD¹; Colin Royse, MD²; Jennifer Barth, MD²; Yang Yang, MBBS FCICM²; Martin Kim, MBBS FANZCA PTeXAM PGMastersEcho²; Melbourne Hospitals University of Melbourne¹; University of Melbourne²

SCA86: Use of Transesophageal Echocardiography for the Prediction of Severe Right Heart Failure Following LVAD Implantation
Brian Gebhardt, MD MPH¹; Fredrick Cobey, MD MPH FASE¹; Ankit Jain, MBBS¹; Stefan Ianchulev, MD¹; Tufts Medical Center¹

SCA87: Regional Alteration in Three Dimensional Left Ventricle Myocardial Deformation Following Cardiac Surgery Is Independent Predictor of Postoperative Outcomes
Andrew Ghobrial, MD¹; Kimberly Howard-Quijano, MD MS¹; Emily Methangkool, MD¹; Einat Mazor, BA RDCS¹; Jennifer Scovotti, MA¹; Aman Mahajan, MD PhD¹; University of California, Los Angeles¹

SCA88: Right Ventricular Strain Associated with Failure to Separate from Cardiopulmonary Bypass
Ross Hanson, MD¹; Gabriela Querejeta Roca, MD¹; John Fox, MD¹; Jochen Muehlschlegel, MD MMSc FAHA¹; Dirk Varelmann, MD DESA EDIC¹; Brigham and Women's Hospital¹

SCA89: Left Ventricular Assist Devices Thrombosis is Associated with an Increase in the Systolic to Diastolic Velocity Ratio Measured at the Inflow and Outflow Cannulas Using Transesophageal Echocardiography
Ankit Jain, MBBS¹; Brian Gebhardt, MD¹; Benjamin Rohrer, MD¹; Frederick Cobey, MD MPH FASE¹; Tufts Medical Center¹

SCA90: Effectiveness of the Implementation of Modified Transesophageal Echocardiography on Mortality and Stroke after Cardiac Surgery—A Large Cohort Study
Wouter Jansen Klomp, MD; Clinical Epidemiologist¹; George Brandon Bravo Bruinsma, MD PhD¹; Jan Grandjean, MD PhD²; Arnoud van't Hof¹; Arno Nierich, MD PhD¹; Isala, Zwolle, the Netherlands¹; University of Twente; the Netherlands²

SCA91: TransEsophageal Echocardiography TEE: versus Transthoracic Echocardiography TTE: Demonstrating More Depression of Left ventricular Systolic Function Than Right Ventricular Systolic Function Under General Anesthesia
Yenabi Keflemariam, MD¹; Terrie Vasilopoulos, PhD¹; Yong G. Peng, MD PhD FASE¹; University of Florida¹

Scientific Abstracts and Posters

SCA92: Left Atrial Membrane: Cor Triatriatum; Supravalvular Mitral Ring; or Artifact?

Daniel Kinney, MD¹; Manuel Fontes, MD¹; Irena Vaitkeviciute, MD¹; Yale University¹

SCA93: Left Ventricular Twist is Not Immediately Affected by Aortic Valve Replacement

Nikhil Kumar, MD¹; Andra Duncan, MD MS¹; Cleveland Clinic¹

SCA94: Evaluation of Echocardiographic Parameters in Patients with Hypertrophic Cardiomyopathy Undergoing Septal Myectomy With and Without Mitral Valve Intervention

Oscar Lopez, MD¹; Spencer Drotman, MD¹; Robert Nampiampamil, MD¹; New York University Langone Medical Center¹

SCA95: Layer Specific Longitudinal Strain is Superior to Circumferential Strain for Detection of Acute Ischemia

Melissa McCabe, MD¹; Kimberly Howard-Quijano, MD MS¹; Wei Zhou, PhD FAHA¹; Alexander Cheng, MD¹; Jennifer Scovotti, MA¹; Einat Mazor, BA RDCS¹; Aman Mahajan, MD PHD¹; University of California, Los Angeles¹

SCA96: 3D-Printed, CT-Based, Low-Cost, Open-Source, Heart Model for Teaching Focused Cardiac Ultrasound Views

Massimiliano Meineri, MD¹; Joshua Qua Hiansen, MSc¹; Stephanie Zhou, BSCh¹; Eitan Aziza, MD Candidate¹; Matt Ratto, PhD¹; Azad Mashari, MD FRCPC¹; University of Toronto¹

SCA97: Abbreviated Multimodal Point-of-Care Ultrasound Training in Surgery Interns

Mario Montealegre-Gallegos, MD¹; Azad Mashari, MD FRCPC²; Lu Yeh, MD¹; Romina Ilic, MD¹; Ruma Bose, MD¹; Kiran Belani, MD¹; Vanessa Wong, BS¹; Tara Kent, MD FACS¹; John Mitchell, MD¹; Robina Matyal, MD¹; Beth Israel Deaconess Medical Center¹; Toronto General Hospital²

SCA98: As vs. TTE; TEE May Not Always Underestimate the Severity of Mitral Regurgitation Under Anesthesia

Lateef Opabola, MD¹; Terrie Vasilopoulos, PhD¹; Yong Peng, MD PhD FASE¹; University of Florida¹

SCA99: Moderate Aortic Valvular Insufficiency Falsely Elevates Vortex Formation Time in Patients with Calcific Degenerative Aortic Stenosis Undergoing Aortic Valve Replacement

Paul Pagel, MD PhD FACC¹; Julie Freed, MD PhD¹; Brent Boettcher, DO¹; Derek De Vry, MD¹; Clement J. Zablocki VA Medical Center¹

SCA100: Intraoperative Assessment of Myocardial Function by 2D Transesophageal Echocardiography Strain Imaging in Cardiac Patients Post-Chest Closure

Ivana Radeva, MD¹; Kimberly Howard-Quijano, MD MS¹; Einat Mazor, BA RDCS¹; Jennifer Scovotti, MA¹; Aman Mahajan, MD PhD¹; University of California, Los Angeles¹

SCA101: Qualitative Evaluation of Right Ventricular Function by Cardiac Anesthesiologists: Are We Speaking the Same Language?

Meggie Raymond, MD FRCPC¹; Diem Tran, MD MSc¹; Stephane Lambert, MD FRCPC¹; Bernard McDonald, MD PhD FRCPC¹; Benjamin Sohmer, MD Med FRCPC¹; University of Ottawa Heart Institute¹

SCA102: The Performance of Transesophageal Echocardiography on Patients with Esophageal Strictures

Johnathan Renew, MD¹; Arun Subramanian, MD¹; William Mauer-mann, MD¹; Kent Rehfeldt, MD FASE¹; Mayo Clinic Florida¹; Mayo Clinic Rochester²

SCA103: Postoperative Atrial Fibrillation: Predictive Value of Global Longitudinal Strain Obtained by Intraoperative TEE

Tiffany Richburg, MD¹; Ryan Konoske, MD¹; Wengjing Qi, PhD¹; Cory Maxwell, MD¹; Yi-Ju Li, PhD¹; Atilio Barbiato, MD MPH¹; Duke University¹

SCA104: Intraoperative RV Function Before and After Cardiopulmonary Bypass in Patients Undergoing Pulmonary Endarterectomy for Chronic Thromboembolic Pulmonary Hypertension; Preliminary Results

Natalie Silverton, MD¹; Wendy Tsang, MD¹; Karen McRae¹; Marc DePerrot, MD¹; Massimiliano Meineri, MD¹; University of Toronto¹

SCA105: The Value of Intraoperative Transesophageal Echocardiography Measures of Right Heart Function and Hemodynamic Variables in Predicting Postoperative Outcome in Patients Undergoing Pulmonary Thromboendarterectomy

Bryan Simmons, MD¹; Timothy Tan, PhD MD FRACP FCSANZ FESC²; Massachusetts General Hospital¹; University of Western Sydney²

SCA106: Perioperative Echocardiographic Assessment of Right Ventricular Function: A National Survey

William Simpson, MD¹; Donna Greenhalgh, MBChB FRCA FFICM¹; Andy Roscoe, MB ChB²; Henry Skinner, MBChB FRCA³; University Hospital of South Manchester¹; Papworth Hospital²; Nottingham University Hospitals³

SCA107: A Comparison of Speckle Tracking Echocardiography to Conventional Methods of Right Ventricular Assessment During General Anesthesia Using Transesophageal Echocardiography

Greg Yerington, MD¹; Michael Essandoh, MD¹; Ohio State University¹

SCA108: Assessing Shared Mental Models Among Cardiac Surgery Disciplines: A Multi-Institutional Study

Evans Brown, BA¹; Kathleen Harder, PhD¹; Ioanna Apostolidou, MD¹; Joyce Wahr, MD¹; Douglas Shook, MD FASE²; Robert Farivar, MD PHD³; Tjorvi Perry, MD MMSc³; Mojca Konja, PhD MD¹; University of Minnesota¹; Harvard Medical School²; Minneapolis Heart Institute³

SCA109: Use of Provider Debriefing to Improve Fast-Track Extubation Rates Following Cardiac Surgery at an Academic Medical Center

Scott Davis, MD¹; Jillian Dashiell, MD¹; Jordan Goldhammer, MD¹; Thomas Jefferson University Hospital¹

SCA110: Impact of Cost Conscious Intraoperative Vasodilator Strategy

W Jonathan Dunkman, MD¹; Doug Raiff, PharmD BCPS¹; Stephen Gregory, MD¹; Madhav Swaminathan, MD FASE FAHA¹; Cory Maxwell, MD¹; Duke University Medical Center¹

Scientific Abstracts and Posters

Scientific Poster Session 2: Echocardiography-3D, Echocardiography-Other

Monday, April 4, 12:30-1:30 pm [continued]

SCA111: Implementation of a Bleeding Management Program in Cardiac Surgery

Alan Finley, MD¹; James (Jake) H. Abernathy, MD MPH FASE FAHA¹; Eric Nelson, DO¹; Timothy Heinke, MD¹; George Guldán, MD¹; George Whitener, MD¹; Medical University of South Carolina¹

SCA112: Bundled Care and Quality Improvement in Cardiac Surgery: Results of a Clinical Milestone Valve Pathway

Adam Kingeter, MD¹; Chad Wagner, MD¹; Pikki Lai, PhD¹; Vanderbilt University Medical Center¹

SCA113: Utilization of Cerebral and Tissue Oximetry during Transcatheter Aortic Valve Replacement

Paul Loubser, MD¹; Ceferino Cruz, BS¹; University of Texas Medical School¹

SCA114: Regional Variations in Cardiopulmonary Bypass Practice: Results of the Global Cardiopulmonary Bypass Survey

Lachlan Miles, FANZCA MBBS¹; Florian Falter, MD FRCA FFICM PhD¹; Papworth Hospital NHS Foundation Trust¹

SCA115: Postoperative Dysphagia Related to Transesophageal Echocardiography Use and Duration of Surgery

Joseph Miskulin, MD¹; Mark Schmidt, MD¹; Katie Goergen, MD¹; Tara Brakke, FASE MD¹; University of Nebraska Medical Center¹

SCA116: Blood Transfusion Rate in Pediatric Congenital Cardiac Surgery Patients

Jennie Ngai, MD¹; Thomas Beaulieu, CCP¹; NYU Langone Medical Center¹

SCA117: Imaging of the Superior Vena Cava for Central Line Catheter Positioning

Olubode Ogunwole, MD¹; Steven Lindauer, MD¹; Luiz Maracaja, MD¹; University of Texas Health System Center¹

SCA118: A Protective Association Between Aspirin and Acute Lung Injury: A Systematic Review and Meta-Analysis

Vwaire Orhurhu, MD MPH¹; Rabya Saraf, BA²; Jeffrey Bortman, BS 2017²; Daawar Chaudhry²; Feroze Mahmood, MD FASE²; Daniel Talmor, MD²; Robina Matyal, MD²; Brigham and Women's Hospital¹; Beth Israel Deaconess Medical Center²

SCA119: The Heart of Education: What Cardiac Anesthesia Can Offer via a Community Outreach Program

Juan Perrone, MD¹; Robert Hieronimus, MD¹; Yvonne Lai, MD¹; Michael Fitzsimons, MD¹; Massachusetts General Hospital¹

SCA120: Fast-Track General Anesthesia for Patients Undergoing Transfemoral Transcatheter Aortic Valve Replacement Results in Shorter Intensive Care Unit, Hospital Length of Stay, and Lower Cost

Tjorvi Perry, MD MMSc¹; Andrew Wilkey, MD²; Matthew Sundblad, MD²; Paul Sorajja, MD³; Robert Farivar, MD PhD³; Craig Strauss, MD MPH³; Andrea Sweeney, MBA³; Abbott Northwestern; Hospital¹; Northwest Anesthesia PA²; Minneapolis Heart Institute³

SCA121: A Cardiac Surgery-Specific, Goal-Directed Algorithm Using Stroke Volume Variation Results in Less Variability in Intraoperative Crystalloid Administration: A Pilot Study

Tjorvi Perry, MD MMSc¹; Andrew Wilkey, MD²; Matthew Sundblad, MD²; Serina Brueggemann, CRNA²; Judah Askew, MD³; Robert Farivar, MD PhD³; Abbott Northwestern¹; Northwest Anesthesia PA²; Minneapolis Heart Institute³

SCA122: Leveraging Rapid-Cycle Formative Assessment to Improve Intraoperative Glucose Control in Cardiac Surgical Patients

Tjorvi Perry, MD MMSc¹; Matthew Sundblad, MD²; Andrew Wilkey, MD²; Serina Brueggemann, CRNA²; Robert Farivar, MD PhD³; Craig Strauss, MD MPH³; Pamela Rush, RN MS³; Katherine Foag, MPH³; Dirck Rilla, LP CCP⁴; Abbott Northwestern Hospital¹; Northwest Anesthesia PA²; Minneapolis Heart Institute³; SpecialtyCare⁴

SCA123: Improving Clinical Performance Transparency in Cardiac Anesthesia

Tjorvi Perry, MD MMSc¹; Maiva Lee, BS²; Jason Heuer, CRNA²; Andrew Wilkey, MD²; Matthew Sundblad, MD²; Katherine Foag, MPH³; Pamela Rush, MS RN³; Craig Strauss, MD MPH³; Robert Farivar, MD PhD³; Abbott Northwestern Hospital¹; Northwest Anesthesia PA²; Minneapolis Heart Institute³

SCA124: Transesophageal Echocardiography Complications in Adult Cardiac Surgery: A Retrospective Cohort Study

Razvan Purza, BSc¹; Subhamay Ghosh, MD PhD²; Chris Walker, MBChB³; Brett Hiebert, MSc⁴; Lillian Koley, RN BHScN⁴; Hilary Grocott, MD FASE FRCPC¹; College of Medicine, University of Manitoba¹; Glangwili General Hospital²; Southern District Health Board³; Winnipeg Regional Health Authority⁴

SCA125: Preventing Hypothermia in Transcatheter Aortic Valve Replacement

Benjamin Rohrer, MD¹; Brian Kelly, DO¹; Hocine Tighiouart, MS¹; Fred Cobey, MD MPH FASE¹; Stefan Ianchulev, MD¹; Tufts Medical Center¹

SCA126: Obesity and Positioning-Related Neuropathies in Cardiac Surgery Patients

Mark Schmidt, MD¹; Katie Goergen, MD¹; Joseph Miskulin, MD¹; Tara Brakke, MD FASE¹; University of Nebraska¹

SCA127: Enhanced Recovery in Cardiac Surgery Leads to Shorter Post-Operative Hospital Length of Stay

Thomas Varughese, FFICM FRCA MBBS¹; Gillian Hardman, MRCS MBBS BSc²; Helen Saunders, MbChB FRCA³; Amal Bose, MD⁴; Antony Walker, MD MBChB FRCSTh⁵; South Manchester University Hospital National Health Service Foundation¹; Health Education Northwest²; Lancashire Cardiac Centre³; Blackpool NHS Foundation Trust⁴; National Health Service⁵

Scientific Abstracts and Posters

SCA128: Cost Changes and Its Influencing Factors of Patients undergoing Coronary Artery Bypass Graft in 5 Years of a Cardiovascular Institute in China

Mingya Wang, Postgraduate Candidate¹; Hushan Ao¹; Xin Zhang¹; Fu Wai Hospital, Chinese Academy of Medical Sciences¹

SCA129: Perioperative Pain Control for Transapical Transcatheter Aortic Valve Replacement Using Single-Shot Paravertebral Nerve Blocks

Andrew Wilkey, MD¹; Matthew Sundblad, MD¹; Gregory Morrisette, MD²; Gerald Holguin, MD¹; John Mrachek, MD¹; Paul Sorajja, MD³; Vibhu Kshetry, MD³; Thomas Flavin, MD³; Tjorvi Perry, MD MMSc¹; Northwest Anesthesia¹; Maine Medical Center²; Minneapolis Heart Institute³

SCA130: Patients Undergoing Trans-Apical Mitral Valve Device Placement Benefit From a Combined Fast-Track General Endotracheal and Thoracic Epidural Anesthetic Approach
Tjorvi Perry, MD MMSc¹; Andrew Wilkey, MD²; Matthew Sundblad, MD²; Tory McGrath, MD²; Jonathan Cohen, MD²; Andrea Sweeney, MBA³; Benjamin Sun, MD³; Paul Sorajja, MD³; Robert Farivar, MD PhD³; Abbott Northwestern Hospital¹; Northwest Anesthesia²; Minneapolis Heart Institute³

SCA131: The Conundrum of Upper Extremity Neuropathies After Cardiac Surgery: A Case Control Study of Its Characteristics; Risk Factors; and Time Course

Emily Williams, MD¹; Chen Chau, MD¹; Gabriel Loor, MD¹; Megan Lanigan, MD¹; Mojca Konia, MD PhD¹; Jacob Hutchins, MD¹; Richard Prielipp, MD MBA FCCM¹; Ioanna Apostolidou, MD¹; University of Minnesota¹

Scientific Abstracts and Posters

Scientific Poster Session 3: Perioperative Medicine, Structural Heart Disease, Thoracic Anesthesia

Tuesday, April 5, Noon–1:30 pm

Seaport AB (2nd Level)

SCA132: Intracardiac Abnormality Simulating an LVOT Abscess in a Patient with Clinical Symptoms of Endocarditis
Daniel Castillo, MD¹; Christian Oliver, MD²; Andrea McCann, MD²; University of Florida¹; University of Mississippi²

SCA133: The Effect of Hypoventilation on Pulmonary Blood Flow in Patients with Bi-Directional Glenn Circulation
Satoshi Kurokawa, MD¹; Kenji Doi, MD¹; Shihoko Iwata, MD¹; Keita Sato, MD¹; Yusuke Seino, MD¹; Minoru Nomura, MD¹; Tokyo Women's Medical University¹

SCA134: Cerebral Microembolic Load in Open Heart Surgery with Different Extracorporeal Circulation Systems
Gabor Erdoes MD DESA EDIC FESC FASE FCCP¹; Reto Basciani, MD¹; Erich Gygas Perfusionist¹; David Reineke, MD¹; Thierry Carrel, MD¹; Balthasar Eberle, MD¹; Inselspital; University of Bern¹

SCA135: Withdrawn

SCA136: Implementation of a Thoracic Perioperative Surgical Home (PSH): From Concept to Reality
Joyce Wahr, MD¹; Rafael Andrade, MD¹; Melissa Cohen, BA¹; Joseph Small, BS¹; Jonathan Berger, PA-C²; Eitan Podgaetz, MD MPH FACS¹; University of Minnesota¹; University of Minnesota Physicians²

SCA137: Effect of Cardiopulmonary Bypass on Carbon Monoxide Levels in Cardiac Surgical Patients
Shvetank Agarwal, MD¹; Albert Huh, BA¹; Aaron Sanders, MS¹; Manuel Castresana, MD¹; Georgia Regents University¹

SCA138: Postoperative Wound Infections Are Associated With Retained Blood After Cardiac Surgery: An Observational; Cross-sectional Analysis
Felix Balzer, MD MSc¹; Viktor Mezger, MD¹; Marit Habicher, MD¹; Herko Grubitzsch, MD¹; Christian von Heymann, MD PhD²; Sascha Treskatsch MD¹; Edward Boyle, MD³; Michael Sander, MD⁴; Charite¹; Vivantes Klinikum im Friedrichshain²; St. Charles Medical Center³; University Hospital Giessen⁴

SCA139: Anesthesiology Management and Early Outcome After Transcatheter Aortic Valve Replacement
Nikola Bradic, MD¹; Ino Husedzinovic, MD PhD, Professor¹; Andrej Sribar, MD²; Anesthesiologist and Intensive Care Medicine Sub-specialist¹; Anesthesiologist²

SCA140: Venous-Arterial ECMO and Levosimendan in Graft Failure After Heart Transplantation
Nikola Bradic, MD¹; Ino Husedzinovic, MD PhD¹; Andrej Sribar, MD¹; Davor Baric, MD PhD¹; University Hospital Dubrava¹

SCA141: Risk Factors and Outcomes After Unplanned Reintubation Following Cardiac Surgery
Ethan Brovman, MD¹; Robert Lekowski, MD MPH¹; Richard Urman, MD MBA¹; Brigham and Women's Hospital¹

SCA142: Prospective Validation of Postoperative Atrial Fibrillation Prediction Scores
Matthew Cameron, MDCM FRCPC¹; Jean Abboud, MSc MD candidate¹; Madhuri Thommandru, MD; Diem Tran, MD MSc¹; The University of Ottawa Heart Institute¹

SCA143: Healthcare Associated Infections Among Cardiothoracic ICU Patients: Incidence and Impact on Mortality
Sarah Cardillo, MD¹; Nicholina Haldane-Lutterodt, BA¹; James Gammie, MD¹; Michael Mazzeffi, MD¹; University of Maryland Medical Center¹

SCA144: Withdrawn

SCA145: Perioperative Monitoring of Regional Cerebral Oxygen Saturation and Postoperative Delirium
George Djaiani, FRCA FRCPC MD¹; Jo Carroll, RN BHA¹; Vivek Rao, MD PhD¹; Rita Katznelson, MD¹; Lei Lei, MBBS¹; Humara Poonawala, MD CCRP¹; Rima Styra, MD MEd¹; Toronto General Hospital, University Health Network¹

SCA146: Intraoperative BIS Profile and Predictors of BIS Values in Cardiac Surgical Patients
Adam Dryden, MD BSc(Hons) FRCPC¹; Bernard McDonald, MD PhD FRCPC¹; Michael Bourke, MD FRCPC¹; Diem Tran, MD MSc¹; University of Ottawa Heart Institute¹

SCA147: A Comparison of Aortic Root Pressure and Radial Artery Pressure During Separation of Cardiopulmonary Bypass
Daniel Fitzpatrick, MD¹; Montefiore Medical Center¹

SCA148: Utility of Ultrasound Guided Axillary Arterial Line for Invasive Blood Pressure Monitoring in Critically Ill Patients
Mohamed Gaber, MD¹; Matthew Bean, DO¹; Edward Foley, FCARCSI¹; Shvetank Agarwal, MD²; Manuel Castresana, MD¹; Medical College of Georgia¹; Georgia Regents University²

SCA149: Intraoperative Pulmonary Artery Pulsatility Index Is Associated With Severe Right Ventricular Failure Post Left Ventricular Assist Device Implantation
Michael Gudejko, BS¹; Brian Gebhardt, MD¹; Janis Breeze, MPH¹; Russel Roberts, PharmD¹; Navin Kapur, MD¹; Michael Kiernan, MD¹; Ryan O'Kelly, BS BA¹; Frederick Cobey, FASE MD MPH¹; Tufts Medical Center¹

SCA150: Effectiveness of Carotid Compression in Decreasing the Incidence of Stroke During TAVR
Jayakar Guruswamy, MD¹; Lebron Cooper, MD²; Michael Isley, MD¹; Henry Ford Health System¹; UT Health Science Center, College of Medicine²

Scientific Abstracts and Posters

SCA151: Measuring Intraoperative Blood Pressure Variability with the Coefficient of Variation to Assess Cardiac Surgical Outcomes

Albert Ha, BS¹; Varesh Prasad, BSE²; Fernando Mujica, MD³; Ariel Mueller, MA³; Pooja Mathur, BS³; Victor Novack, MD PhD³; Kamal Khabbaz, MD³; Thomas Heldt, PhD²; Balachundhar Subramaniam, MD MPH³; Harvard Medical School¹; Massachusetts Institute of Technology²; Beth Israel Deaconess Medical Center³

SCA152: The Intraoperative Renal Resistive Index and Early Mortality following Cardiac Surgery

Jennifer Hauck, MD¹; Anne Cherry, MD¹; Yi-Ju Li, PhD¹; Benjamin Andrew, RD BS¹; Lakshmi Kartha, MD²; Ryan Konoske, MD¹; Cory Maxwell, MD¹; Alina Nicoara, FASE MD¹; Mark Stafford-Smith, MD¹; Duke University Medical Center¹; Humana, Inc.²

SCA153: Complexity of Preoperative Blood Pressure Dynamics: Possible Utility in Cardiac Surgical Risk Assessment

Teresa Henriques, PhD¹; Madalena Costa, PhD²; Pooja Mathur, BS¹; Kamal Khabbaz, MD¹; Roger Davis, ScD¹; Murray Mittelman, MD DrPh²; Ary Goldberger, MD¹; Balachundhar Subramaniam, MD MPH¹; Beth Israel Deaconess Medical Center¹; Harvard School of Public Health²

SCA154: High Sensitive Troponin T for Risk Stratification in Cardiac Surgical Patients

Matthias Heringlake, MD¹; Jan Käbler, MD¹; Anna Beilharz, MD¹; Astrid Berggreen, MD¹; Efstratios Charitos, MD PhD¹; Hauke Paarman, MD¹; University of Luebeck¹; Martin-Luther University Halle²

SCA155: Does the Type of Anesthetic Technique Affect In-Hospital and One-Year Outcomes After Off-Pump coronary Arterial Bypass Surgery?

Kwanyoung Hong¹; Dae Kyun Ryu, MD¹; Jeong Jin Min, MD¹; Jong-Hwan Lee, MD PhD¹; Sangmin Maria Lee, MD PhD¹; Samsung Medical Center; Sungkyunkwan University School of Medicine¹

SCA156: Risk Factors and Maternal Outcomes in Pregnant Women with Pulmonary Hypertension at Delivery: A National Inpatient Sample Study

Aaron Hudson, MD¹; Mohammed Minhaj, MD MBA¹; Avery Tung, MD¹; Ariel Mueller, MA²; Sajid Shahul, MD MPH¹; University of Chicago¹; Beth Israel Deaconess Medical Center²

SCA157: The Changes of Ocular Blood Flow Measured by Laser Speckle Flowgraphy and Regional Cerebral Oxygen Saturation During Aortic Arch Surgery with Selective Cerebral Perfusion

Hideaki Kawanishi, Clinical Engineering¹; Hironobu Hayashi, MD¹; Masahiro Okamoto, MD¹; Masahiko Kawaguchi, MD¹; Nara Medical University¹

SCA158: Pre-Operative Neural Network Analysis in the Development of a Post-Operative Risk INDEX in Cardiac Surgery

Keshar Kubal, MD¹; Suryanarayana Pothula, MD¹; Rocco LaFaro, MD¹; Christopher Devlin, MS IV¹; David Betancourth, BS¹; Yelena Krasnozhen, BA¹; Mario Inchiosa, PhD²; Mario Inchiosa, PhD¹; New York Medical College¹; Microsoft²

SCA159: Application of Vancomycin Paste and the Effect on the Incidence of Surgical Site Infection at a Single Center

Heather Lander, MD¹; Julius Ejiofor, MD¹; Siobhan McGurk, BS¹; Tsuyoshi Kaneko, MD¹; Prem Shekar, MD¹; Simon Body, MBChB MPH FAHA¹; Brigham and Women's Hospital/Harvard Medical School¹

SCA160: Paravertebral Continuous Bloc Improve Active Pain Score and Lower Narcotic Consumption After Minimally Invasive Mitral Surgery

Jean-Sebastien Lebon, MD FRCPC¹; Chantal Mercier Laporte, MD²; Alain Deschamps, MD PhD¹; Pierre Couture, MD¹; Antoine Rochon, MD FRCPC¹; Georges Desjardins, FASE FRCPC MD¹; Marie-Eve Chamberland, MD¹; Claudia Viens, MD¹; Jennifer Cogan, MD¹; André Denault, MD PhD FASE¹; Christian Ayoub, MD BPharm¹; Denis Bouchard¹; Michel Pellerin¹; Montreal Heart Institute, Université de Montréal¹; Université de Montréal²

SCA161: Effect of Desflurane-Remifentanyl vs. Propofol-Remifentanyl on Arterial Oxygenation During One-Lung Ventilation: A Prospective Randomized Study

Ho-Jin Lee, MD¹; Susie Yoon, MD¹; Youn Joung Cho, MD¹; Tae Kyong Kim, MD¹; Deok Man Hong¹; Jeong-Hwa Seo, MD¹; Yun-seok Jeon, MD¹; Jae-Hyon Bahk, MD¹; Seoul National University Hospital¹

SCA162: The Effect of Dexmedetomidine on Outcomes of Cardiac Surgery in Elderly Patients

David Li, MD¹; Hong Liu, MD¹; Hao Cheng Professor²; University of California Davis Health System¹; First Hospital of Soochow University²

SCA163: Association Between Intraoperative Cerebral Hypo-Perfusion and Postoperative Delirium

Yafen Liang, MD¹; Jennifer Morse, MS¹; Matthew Shotwell, PhD¹; Jason O'Neal, MD¹; Andrew Shaw, FCCM FRCA MB¹; Frederic Billings, MD¹; Vanderbilt University Medical Center¹

SCA164: Preoperative Transthoracic Echocardiograms Ordered by Perioperative Physician Anesthesiologists: By Guidelines and Impacting Care!

Kate Liberman, MD¹; John Fox, MD¹; Stanton Shernan, MD FAHA FASE¹; Jochen Muehlschlegel, MD MMSc FAHA¹; David Hepner, MD MPH¹; Angela Bader, MD MPH¹; Brigham and Women's Hospital¹

SCA165: Exogenous Creatine Phosphate Combined with Compound Coenzyme Administered During Cardiac Surgery Does Not Improve Long Term Outcomes in Chinese Patients: A Retrospective Cohort Study

Tian Lijuan, Master of Medicine¹; Hushan Ao¹; Chinese Academy of Medical Sciences Fu Wai Hospital¹

SCA166: Effects of Metabolic Syndrome With or Without Obesity on Pneumonia in Patients Undergoing Coronary Artery Bypass Graft

Lin Lizhu, MD¹; Sipeng Chen, MS²; Hushan Ao¹; The First People's Hospital of Qinzhou¹; Capital Medical University²

Scientific Abstracts and Posters

Scientific Poster Session 3: Perioperative Medicine, Structural Heart Disease, Thoracic Anesthesia

Tuesday, April 5, Noon–1:30 pm [continued]

SCA167: Aminocaproic Acid is Associated with Higher Incidence of Early Postoperative Cognitive Dysfunction after Cardiac Surgery Than Tranexamic Acid

Ying Hui Low, MD¹; Mary Cooter, MSc¹; Niccolo Terando, PhD¹; Miles Berger, MD PhD¹; Mihai Podgoreanu, MD FASE¹; Mark Stafford-Smith, CM FASE FRCPC MD¹; Mark Newman, MD¹; Rebecca Klinger, MD¹; Joseph Mathew, MD¹; Duke University Hospital¹

SCA168: Preoperative Diastolic Dysfunction Assessed by E/e' is Associated with Worse 1-Year Survival in Transcatheter Aortic Valve Replacement Patients

Jeffrey Lyvers, MD¹; Benjamin Rohrer, MD¹; Andrew Weintraub, MD¹; Frederick Cobey, MD MPH FASE¹; Tufts Medical Center¹

SCA169: Choice of Perioperative Crystalloids Around Cardiac Surgery

Karthik Raghunathan, MD MPH¹; Sharon McCartney, MD¹; Atilio Barbeito, MD MPH¹; Victor Khangulov, PhD²; Fred Peyerl, PhD²; Andrew Shaw, FCCM FRCA MB³; Duke University Medical Center¹; Boston Strategic Partners; LLC²; Vanderbilt University³

SCA170: Utilization of Intraoperative Transesophageal Echocardiography TEE: in Trauma and Emergency Surgery at a Level I Trauma Center

Samhati Mondal, MD¹; Karl Wagner, MD¹; Charles Smith, MD¹; Metrohealth Medical Center¹

SCA171: Intraoperative Beat-by-Beat Blood Pressure vs. 15-Sec Sampling Variability: Does Resolution Matter?

Fernando Mujica, MD¹; Albert Ha, BS²; Varesh Prasad, BSE³; Ariel Mueller, MA¹; Priyam Mathur, MS¹; Adam Lerner, MD¹; Kamal Khabbaz, MD¹; Thomas Heldt, PhD³; Balachundar Subramaniam, MD MPH¹; Beth Israel Deaconess Medical Center¹; Harvard University²; Massachusetts Institute of Technology³

SCA172: Interrelationship of Preoperative Anemia, Postoperative Anemia, Acute Kidney Injury and Mortality After Coronary Artery Bypass Grafting Surgery

Patrick Nailer¹; Manuel Fontes, MD²; Ishwori Dhakal, MS¹; Jorn Karhausen, MD¹; Mihai Podgoreanu, MD FASE¹; Mark Stafford-Smith, MD CM FASE FRCPC¹; Miklos Kertai, MD PhD¹; Duke University Medical Center¹ Yale School of Medicine²

SCA173: Outcome and Cost Analysis of Postoperative Renal Failure in Elective Cardiac Surgery Patients

Tariq Naseem, MD¹; Edward O'Brien¹; Dalia Banks, MD FASE¹; Ulrich Schmidt, MD PhD¹; University of California, San Diego¹

SCA174: Success Rates of Monitored Anesthesia Care in Transcatheter Aortic Valve Replacement at a High-Volume Academic Center

Prakash Patel, MD¹; William Vernick, MD¹; David Jones, MSN CRNP BC¹; Jeremy Kukafka, MD¹; Jared Feinman, MD¹; Wilson Szeto, MD¹; Howard Herrmann, MD¹; Robert Li, MD¹; Saif Anwaruddin, MD FACC FSCAI¹; Nimesh Desai, MD¹; Jay Giri, MD¹; Neha Quatromoni, MD¹; Stuart Weiss, MD PhD¹; John Augoustides, MD FASE FAHA¹; Jacob Gutsche, MD¹; University of Pennsylvania¹

SCA175: Implementation of a Moderate Sedation Protocol for Transfemoral Transcatheter Aortic Valve Replacement: A Review at 12 Months

Ryan Potosky, MD¹; Mathew Williams, MD¹; Binita Shah, MD MS FACC FSCAI¹; Marc Kanchuger, MD¹; Scott Maddalo, MD MSc¹; Peter Neuburger, MD¹; NYU Langone Medical Center¹

SCA176: Measuring Intraoperative BP Variability via Poincare Plots to Assess Cardiac Surgical Outcomes

Varesh Prasad, BSE¹; Albert Ha, BS²; Teresa Henriques, PhD³; Victor Novack, MD PhD³; Ariel Mueller, MA³; Priyam Mathur, MS³; Fernando Mujica, MD³; Kamal Khabbaz, MD³; Thomas Heldt, PhD¹; Balachundhar Subramaniam, MD MPH³; Massachusetts Institute of Technology¹; Harvard Medical School²; Beth Israel Deaconess Medical Center³

SCA177: Performance of Closed Loop Anesthesia Delivery in Patients with Moderate to severe LV Dysfunction Undergoing Open Cardiac Surgery

Goverdhan Puri, MD PhD¹; Varun Mahajan, MBBS¹; Tanvir Samra, MD¹; Postgraduate Institute of Medical Education and Research¹

SCA178: Risk Factors for Mortality After Neonatal Blalock-Taussig Shunt Procedure

Goverdhan Puri, MD PhD¹; Ajay Kumar, MD¹; Vikas Dutta, MD¹; Shyam Kumar Thingnum, MS MCh¹; Alok Kumar¹; PGIMER¹

SCA179: Anesthetic Management of Patients Undergoing Transapical Implantation of Artificial Chordae to Correct Mitral Regurgitation

Robertas Samalavicius, MD¹; Ieva Norkiene, MD PhD¹; Vilius Janusauskas, MD¹; Diana Zakarkaite, MD PhD¹; Karolis Urbonas, MD¹; Audrius Aidietis, MD PhD¹; Kestutis Rucinskas, MD¹; Vilnius University Hospital Santariskiu¹

SCA180: Duration of Post-Operative Atrial Fibrillation Affects Long-Term Survival After Cardiac Surgery

Martin Sigurdsson, MD PHD¹; Nicholas Longford, PhD²; Mahyar Heydarpour, PhD¹; Louis Saddic, MD PhD¹; Tzuu-Wang Chang, PhD¹; Stanton Shernan, MD FAHA FASE¹; Jochen Muehlschlegel, MD MMSc FAHA¹; Simon Body, MBChB MPH FAHA¹; Brigham and Women's Hospital¹; Imperial College, London²

SCA181: Wider Perioperative Glycemic Fluctuations Increase Risk of Postoperative Atrial Fibrillation

Ming Ann Sim, MBBS¹; Weiling Liu, BSc¹; Lian Kah Ti, MBBS²; Sophia Chew, MBBS MMED FANZCA³; National University of Singapore¹; National University Hospital System²; Singapore General Hospital³

SCA182: Effect of Perioperative Sodium Bicarbonate on Postoperative Acute Kidney Injury in Infective Endocarditis Patients

Sarah Soh, MD¹; Jin Sun Cho, MD¹; Soo Jung Park, MD¹; Jae Kwang Shim, MD PhD¹; Young Lan Kwak, MD PhD¹; Yonsei University College of Medicine¹

Scientific Abstracts and Posters

SCA183: The Minimal Oxygen Delivery During Cardiopulmonary Bypass To Maintain Cellular Brain Integrity
Ilehab Talukder, MD PhD¹; Viachaslau Barodka, MD¹; Charles Hogue, MD¹; Johns Hopkins Hospital¹

SCA184: Dexmedetomidine Administered During Cardiac Surgery Does Not Improve Long Term Outcomes in Chinese Patients. A Cohort and 1-Year Study
Fei Xu, MD¹; Hushan Ao¹; Jun Ma, PhD MD²; Cardiovascular Institute and Fu Wai Hospital¹; Beijing Anzhen Hospital²

SCA185: Does The Ornim c-FLOW™ Perfusion Monitor Produce A Signal Reading From Non-biological Materials?
Dmitriy Yukhvid, MD¹; Enrique Pantin, MD¹; Brian Raffel, MD¹; Rutgers - Robert Wood Johnson University Hospital¹

SCA186: Effects of Metabolic Syndrome With Obesity on Outcomes and Costs After Coronary Artery Bypass Graft
Yu Zhang, Master¹; Hu Shan Ao¹; Fu Wai Hospital¹

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 1

Saturday, April 2, 11 am–Noon

Seaport AB (2nd Level)

F5: Post-TAVR Ventricular Septal Defect During Transfemoral Edwards SAPIEN Valve Implantation
Aaron Dahl, MD¹; Carli Hoaglan, MD¹; James Helman, MD¹; Virginia Mason Medical Center¹

F6: Constrictive Pericarditis: Echocardiographic Diagnosis
Nathaniel Smith, MD¹; University of Utah¹

F7: Unsuccessful Redo MitraClip Procedure Leading To Acute Right Ventricular Failure In a Patient With Homozygous Familial Hypercholesterolemia And Preexisting Atrial Secundum Defect
Poovendran Saththasivam¹; Elizabeth Herrera, MD²; University of Texas at Houston Health Science Center¹; Houston Methodist²

F8: A Case Report: Esophageal Perforation after Radiofrequency Ablation RFA: for Atrial Fibrillation
Jay Chan, MD¹; Jeffrey McMurray, MD¹; Medical University of South Carolina¹

F9: Endovascular Stent Exclusion of a Pedunculated Aortic Thrombus Using TEE Guidance
John McDonald, MD¹; George Gulden, MD¹; Medical University of South Carolina¹

F10: The Use of Intraoperative 2D And 3D Transesophageal Echocardiography for Guiding Surgical Resection of a Right Lung Tumor Invading the Left Atrium Through the Right Superior Pulmonary Vein
Phuong Bui, MD¹; Oscar Aljure, MD¹; Nestor Villamizar, MD¹; Dao Nguyen, MD¹; Yilam Rodriguez-Blanco MD¹; University of Miami, Miller School of Medicine¹

F11: Concurrent Transapical Native Aortic and Bioprosthetic Mitral Valve-in-Valve Replacement
Kara Siegrist, MD¹; Mias Pretorius, MBChB¹; Yafen Liang, MD¹; Vanderbilt University Medical Center¹

F12: Contained Coronary Sinus Rupture in a Redo-Cardiac Surgery Patient
Sridhar Musuku, PhD¹; Jazelle Mealing, MD¹; Asim Raja, MD¹; Albany Medical Center¹

F13: Left Heart Metastatic Carcinoid: Atypical Echocardiographic Appearance
Kiri Mackersey, MBChB¹; Lisa Rong, MD¹; Nikolaos Skubas, MD FASE FACC DSc¹; Weill Cornell Medical Center at NYP¹

F14: Retrieving Iatrogenic Foreign Body, Surgical Scalpel, In the Right Bronchus with Coinciding Difficult Airway
Gianna Casini, MD¹; Enrique Pantin, MD¹; Orlando Gopez, DNAP CRNA¹; Rutgers Robert Wood Johnson Medical School¹

F15: Emergent Transvenous, Transseptal Mitral Valve Replacement: a High Risk Patient With a Success Story
Amelia Fiastro, MD¹; Michelle Downing, MD¹; James Davies, MD¹; University of Alabama at Birmingham¹

F16: Novel Repair of an Annular Rupture After TAVR Via Valve-in-Valve Deployment
Meredith Herzog, MD¹; Jeremy Bennett, MD¹; Vanderbilt University¹

F17: Post-Partum Type A Aortic Dissection in a Patient with Marfan's Syndrome
Tera Cushman, MD MPH¹; Michael Manning, MD PhD¹; Duke University Hospital¹

F18: Ruptured Sinus of Valsalva Aneurysm
Jing Cui, MD¹; Jerri Chen, MD PhD¹; NY Presbyterian—Columbia¹

F19: Left Circumflex Artery Injury During Left Atrial Appendage Ligation with Codominant Coronary Circulation
Nawar Al-Rawas, MD¹; Mani Daneshmand, MD¹; Todd Kiefer MD¹; Kamrouz Ghadimi, MD¹; Duke University Medical Center¹

F20: Adult Presentation of Cor Triatriatum
Brad Meers, MD¹; Bradley Coker, MD¹; James Kirklin, MD¹; University of Alabama at Birmingham¹

F21: Cardiac Mucormycosis Mimicking Acute Pulmonary Embolism
Nelson Burbano, MD¹; Jochen Muehlschlegel, MD MMSc FAHA¹; Brigham and Women's Hospital¹

F22: Dynamic Mitral Regurgitation Complicating Transcatheter Aortic Valve Replacement
June Chan, FANZCA MBBS¹; Nikolaos Skubas, MD FASE FACC DSc¹; New York-Presbyterian Hospital-Cornell¹

F23: Cesarean Delivery in a Patient with Severe Aortic Stenosis
Elliot Kay, MD¹; Andrea Girnius, MD¹; Benu Makkad, MD¹; Lesley Gilbertson, MD¹; University of Cincinnati Medical Center¹

F24: Massive Arterial Air Embolism Detected by TEE After Initiation of Cardiopulmonary Bypass
Matthew Culling, MD¹; Sudarshan Setty, MD¹; Mojca Konja, MD PhD¹; Michael Wall, MD FCCM¹; Ioanna Apostolidou, MD¹; University of Minnesota¹

F25: Left Ventricular Assist Device Insertion in a Patient with Biventricular Noncompaction Cardiomyopathy, Ebstein's Anomaly, and a Left Atrial Mass: Anesthesia Management & Challenges
Nikhil Kumar, MD¹; Christopher Troianos, MD¹; Joshua Baisden, MD¹; Christopher Ahrens, DO¹; Allegheny Health Network¹

F26: An Anti-Coagulation Conundrum: Implantation of Total Artificial Heart in a Patient with Heparin-Induced Thrombocytopenia Type II
Yidy Salamanca, MD¹; Theodore Cios, MD MPH¹; Behzad Soleimani, Assistant Professor¹; Natalia Martinez-Acero, Anesthesiology Resident¹; Dimitri Guvakov, MD¹; Penn State Milton S. Hershey Medical Center¹

F27: A Case of Unidentified Left Atrial Appendage Thrombus
David Lin, MD¹; John Apostolakis, MD¹; Cleveland Clinic¹

Resident/Fellow Complex Case Presentations

F28: A Rare Case of an Acquired Gerbode Defect in Pregnancy
McKenzie Hollon, MD¹; Gautam Sreeram, MD¹; Emory University¹

F29: PA Catheter Entrapment in Intracardiac Suture After MVR Requiring Surgical Removal
Andrea Sandoval, MD¹, Rush University Medical Center¹

F30: Ventricular Assist Device Placement in a Patient with D-Transposition of the Great Vessels Following Mustard Procedure
Landon Farris, MD¹; Aaron Reynolds, MD¹; Northwestern University Feinberg School of Medicine¹

F31: Pulmonary Vein Stenosis Following Pulmonary Vein Isolation and the Use of 2D and 3D Transesophageal Echocardiography to Facilitate Transcatheter Pulmonary Vein Angioplasty
Colin Nabb, MD¹; Feroze Mahmood, MD FASE¹; Beth Israel Deaconess Medical Center¹

F32: Percutaneous Placement of Multiple Amplatzer Devices to Reduce Severe Paravalvular Mitral Regurgitation in a Non-surgical Candidate
Paul Anderson, MD¹; Andra Duncan, MD MS¹; Anand Mehta, MD¹; Cleveland Clinic¹

F33: An Epicardial Mass of Unlikely Etiology
Julio Benitez-Lopez MD¹, Naaman Abdullah MD¹, Yilliam Rodriguez Blanco MD²; Jackson Memorial Hospital¹; University of Miami²

F34: Transfemoral Transcatheter Tricuspid Valve-in-Valve Replacement in a Patient with Recurrent Carcinoid Heart Disease
Andrea Reidy, MD¹; Zeena Husain, MD¹; Samuel Hankins, MD¹; Texas Heart Institute¹

F35: Intraoperative Echocardiography and Management of a 68-Year-Old Woman with a Rare Case of Anomalous Left Coronary Artery from the Pulmonary Artery Bland-White-Garland Syndrome
Shayne Roberts, DO¹; Anand Mehta, MD¹; Cleveland Clinic¹

F36: Removal of Superior Vena Cava Fungal Mass Using Angiovac Aspiration System Guided by Transesophageal Echocardiography Without Venography
Andrew Gentilin, MD¹; Theresa Gelzinis, MD¹; University of Pittsburgh Medical Center¹

F37: Intraoperative use of Avalon Elite® Catheter During Lung Transplantation
Sandra Goyal, MD¹; Mark Chaney, MD¹; Jennifer Banayan, MD¹; University of Chicago¹

F38: Placement of Left Ventricular Assist Device in Patient with Family History of Malignant Hyperthermia
Andrew Maresch, MD¹; Sasha Shillcutt, MD FASE¹; University of Nebraska Medical Center¹

F39: Dual Chamber Pacing Without an Atrial Lead Results in R-on-T Phenomenon and Cardiac Arrest
Lisa Martinez, MD¹; Joel Grigsby, MD¹; University of Kansas Medical Center¹

F40: Treatment of a Biventricular Assist Device Outflow Graft Obstruction with Percutaneous Stenting
Daniel Ford, MD¹; Theresa Gelzinis, MD¹; University of Pittsburgh Medical Center¹

F41: 2-Dimensional and 3-Dimensional TEE Guidance for Transcatheter Correction of Commissural Mitral Regurgitation Using Mitral Valve Clip and Amplatzer Occluder Device
Brian Telesz, MD¹; Rebecca Aron, MD¹; Antonio Hernandez Conte, MD MBA¹; Ying Zeng, MD¹; Cedars-Sinai Medical Center¹

F42: A Late Complication of ASO for Transposition of the Great Arteries
Amy He, MD¹; Michael Majewski, MD¹; Loyola University Medical Center¹

F43: Transcatheter Aortic Valve Replacement While On Extracorporeal Membrane Oxygenation for Severe Decompensated Heart Failure
Justin Farmer, MD¹; Shiva Sale, MD¹; Cleveland Clinic¹

F44: Rescue TEE and Pharmacological Management of a Cardiac Arrest in a Patient with a Heart Transplant
Timothy Rohman, MD¹; Emily Teeter, MD¹; Harendra Arora, MD¹; University of North Carolina¹

F45: Diffuse Intramyocardial Air after David-V Aortic Root Reconstruction
Joshua Kohtz, MD¹; Andrew Bowdle, MD PhD FASE²; Weill Cornell Medical Center¹; University of Washington²

F46: TEE Evaluation of an Investigational LVAD: The Heart-Mate 3 LVAS
Dan Cormican, MD¹; Brian Butala, DO¹; Christopher Ahrens, DO¹; Matthew McConnell, MD¹; Joshua Baisden, MD¹; Allegheny General Hospital¹

F47: Timely TEE Diagnosis of Fontan Defect Circumvents Need for VV ECMO
Fatemah Mamdani, MD MPH¹; Teresa Mulaikal, MD¹; New York Presbyterian Hospital—Columbia University Medical Center¹

F48: Vasoplegia During Pulmonary Thromboendarterectomy in Patient on Remodulin Therapy for Chronic Thromboembolic Pulmonary Hypertension
Nicole Imbriale-Townsend, DO¹; Ali Hamadani, DO¹; Matthew McConnell, MD¹; Allegheny Health Network¹

F49: Perioperative management of In Hospital Cardiac Arrest with Percutaneous Coronary Intervention and Rapid-Response ECMO
Jason Johnson, MD¹; Cornel Mihalache, MD¹; Northwestern Memorial Hospital¹

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 1

Saturday, April 2, 11 am–Noon [continued]

F50: Percutaneous Laser Lead Extraction with Large Intracardiac Vegetation: An Increasingly Common Difficult Risk Stratification Decision
Joe Mahoney, MD¹; Ferenc Puskas, MD PhD¹; Bryan Ahlgren, DO¹; University of Colorado Hospital¹

F51: Paravalvular Leak with Unusual Eccentric Jet Post Aortic Valve Replacement
Bradford Cardonell, MD¹; Xiaren Wu, MD¹; Joseph Stemm, MD¹; Barry Marks, DO¹; Geisinger Medical Center¹

F52: Is It Under-Sizing or Is It Faulty Bio Prosthesis?
Sridhar Musuku, PhD¹; Marcela Hanakova, MD FASE¹; Kareem Kassel, MD¹; Joseph Mossad, BS¹; Albany Medical Center¹

F53: MTHFR Deficiency, Factor V Leiden, And Anomalous Venous Return for Redo-aortic Valve Replacement
Andrew Mortenson, MD MBA¹; Matthew Ritter, MD¹; Mark Smith, MD¹; Mayo Clinic Rochester¹

F54: Anterior Mediastinal Mass Causing Cardiac and Airway Compression: Anesthetic Considerations
Michael Evans, MD¹; Igor Zhukov, MD¹; Emory University School of Medicine¹

F55: Anesthetic Management of a Patient with Pulmonary Artery Sarcoma Causing Luminal Obstruction
Adam Kingeter, MD¹; Vanderbilt University Medical Center¹

F56: Cesarean Section for Eisenmenger's Syndrome with Severe Pulmonary Hypertension
Seri Carney MD¹; Mark Smith, MD¹; William Mauermann, MD¹; Katherine Arendt, MD¹; Thomas Stewart, MD¹; Mayo Clinic Rochester¹

F57: Anesthetic Considerations for Percutaneous Extraction of Pulmonary Valve Mass Using the AngioVac Cannula and Circuit
Kevin Marcus, MD¹; Swapnil Khoche, MD¹; University of California, San Diego¹

F58: Transesophageal Echocardiography TEE: as a Diagnostic Modality for Coronary Artery Aneurysms (CAA) and Coronary Arteriovenous Malformations (CAVM)
Brian Raffel, MD¹; Dmitriy Yuhvid, MD¹; Antonio Chiricolo, MD¹; Rutgers University Robert Wood Johnson Medical School¹

F59: Valve-in-Valve-in-Homograft: A Case of a Repeat Transcatheter Aortic Valve Replacement in a Patient with an Aortic Homograft
Kimberly Hollander, MD¹; Mario Montealegre-Gallegos, MD¹; Feroze Mahmood, MD FASE¹; Beth Israel Deaconess Medical Center¹

F60: Large Bioprosthetic Tricuspid Valve Mass Filling Right Ventricle in a Patient with Prior Endocarditis
Stephen Evans, MD¹; Michelle Downing, MD¹; James Davies, MD¹; University of Alabama at Birmingham Hospital¹

F61: Transcatheter Aortic Valve Replacement in a patient with Left Atrial Appendage Clot
Stephen Au, MD¹; Swapnil Khoche, MD¹; Dalia Banks, MD FASE¹; University of California, San Diego¹

F62: Orthotopic Heart Transplantation in a Patient with Suspected Mulibrey Nanism
Suri Pillai, MD¹; Andrej Alfirovic, MD FASE¹; Cleveland Clinic Foundation¹

F63: Traumatic Left Ventricular Pseudoaneurysm: An Anesthetic Challenge
Samhati Mondal, MD¹; Matthew Joy, MD¹; Charles Smith, MD¹; Metrohealth Medical Center¹

F64: High Spinal for Tricuspid Valve Replacement Due to Carcinoid Heart Disease
George Gilkey, MD¹; Matthew Ritter, MD¹; Mayo Clinic Rochester¹

F65: The Use of Bivalirudin During Cardiopulmonary Bypass in a Patient with Previous Heparin Induced Thrombocytopenia Presenting for Combined Cardiac and Renal Transplant
Ankeet Choxi, MD¹; Julio Benitez-Lopez, MD¹; Yilliam Rodriguez-Blanco, MD¹; Michael Fabbro, DO¹; Kevin Nemeth MD¹; University of Miami/Jackson Memorial Hospital¹

F66: Nonfatal Traumatic Right Ventricular Rupture in Patient with Previous Open Heart Procedure
Grace Bednar, MD¹; Christopher McQuitty, MD¹; The University of Texas Medical Branch¹

F67: Perioperative Coronary Thrombosis in Second-Generation Drug-Eluting Stents: Is It Time for a Dual Antiplatelet Therapy Paradigm Shift?
Adam Dalia, MD MBA¹; Michael Essandoh, MD²; Antolin Flores, MD²; The Ohio State University Wexner Medical School¹; The Ohio State University²

F68: Magic Bullet for Cardiopulmonary Bypass-Induced Vaso-plegic Syndrome
Kaitlin Herald, DO¹; Daniel Tolpin, MD¹; Baylor College of Medicine¹

F69: Systolic Anterior Motion of the Mitral Valve with Left Ventricular Outflow Tract Obstruction: a Rare Cause of Hypotension After Lung Transplantation
Thomas Hertel, MD¹; Jennifer Banayan, MD¹; Mark Chaney, MD¹; University of Chicago¹

F70: Percutaneous LVAD Exclusion Following Recurrent LVAD Thrombosis
Brian O'Hara, MD¹; Kelly Kohorst, MD¹; Joseph Fredi, MD FACC FACP¹; Robert Deegan, BCh MD PhD¹; Vanderbilt University Medical Center¹

F71: Valve-in-Valve-in-Valve Transcatheter Aortic Valve Replacement for Two Prior Prosthesis Failures
Ronak Shah, MD¹; Bonnie Milas, MD¹; Prakash Patel, MD¹; Hospital of the University of Pennsylvania¹

Resident/Fellow Complex Case Presentations

F72: Right Coronary Artery Dissection Following Aortic Valve Replacement: An Uncommon Etiology of Right Ventricular Failure
William McKinney, MD¹; Michael Duggan, MD¹; Emory University School of Medicine¹

F73: Acute Development of Aorta-to-Left Atrium Fistula After Mitral Valve Replacement for Mitral Valve Endocarditis: An Anomalous Complication
Nana Benneh, MD¹; Igor Zhukov, MD¹; Emory University Hospital¹

F74: Intraoperative Three Dimensional Transesophageal Echocardiography to Diagnose the Source of a Right to Left Interatrial Shunt
Travis Schisler, MD¹; Kathirvel Subramaniam, MD MPH¹; University of Pittsburgh Medical Center¹

F75: There is a Fracture...A Case of Traumatic Aortic Rupture in the Setting of Polytrauma
Heather Lander, MD¹; Dean Arnaoutakis, MD¹; Martin Zammert, MD¹; Brigham and Women's Hospital¹

F76: Anomalous Origin of the Left Coronary Artery from the Pulmonary Artery Presenting as a Cardiac Arrest in a Teenager
Susan Cosgrove, MD¹; Riva Ko, MD¹; Columbia University Medical Center¹

F77: Redo Mitral Valve Replacement in Hemophilia a and Factor V deficiency
John Baer, DO¹; Joel Grigsby, MD¹; University of Kansas Medical Center¹

F78: Unusual Interventricular Septal Movement that Demonstrates the Physiology of Ventricular Coupling in Constrictive Pericarditis
Jeffrey Kim, MD¹; Kevin Thornton, MD¹; University of California, San Francisco¹

F79: 70-Year-Old with Severe Pulmonary Hypertension Undergoing Spinal Fusion
Yian Chen, MD¹; Mary Brady, MD¹; Johns Hopkins University School of Medicine¹

F80: Misadventures of a Retrograde Cardioplegia Catheter
Corey Herman, MD¹; Baskaran Sundaram, MD²; Jordan Goldhammer, MD²; Thomas Jefferson University Hospital¹; Sidney Kimmel Medical College²

F81: Epicardial Echocardiogram of the Pulmonic Valve Guiding Surgical Plan on a Patient with Severe Carcinoid Heart Disease
Kathy Zhang, MD¹; Nelson Burbano-Vera, MD¹; Luigino Nascimben, MD PhD¹; Brigham and Women's Hospital¹

F82: Noninfective Endocarditis of Bioprosthetic Mitral Valve Posterior Strut
Jesse Kiefer, MD¹; Reney Henderson, MD¹; Wendy Bernstein, MD MBA¹; University of Maryland School of Medicine¹

F83: Perioperative Management of the Patient with Mitochondrial Myopathy Presenting for Coronary Artery Bypass Grafting
Melanie Liu, MD¹; James Anton, MD¹; Cesar Castillo, MD¹; Texas Heart Institute¹

F84: Ventricular Assist Devices VADs: as a Bridge in Single Ventricle SV: Patients
Michelle DaCosta, MD¹; Mark Shepard, RN CCP²; James Fehr, MD¹; Jacob Christensen, MD¹; Washington University in St Louis, Children's Hospital St Louis¹; Barnes Jewish Hospital²

F85: Left Atrial Thrombus During Left Atrial Appendage Ligation: TEE Findings Change Operative Course
Ameeka Pannu, MD¹; Ruma Bose, MD¹; Feroze Mahmood, MD FASE¹; Beth Israel Deaconess Medical Center¹

F86: Non Hemorrhagic Complication During Trans Catheter Aortic Valve Implantation
Bryan Hierlmeier, MD¹; Ben Morris¹; Wake Forest Baptist Medical Center¹

F87: 3-Dimensional Transesophageal Echocardiography to Diagnose a Malfunctioning Mechanical Valve in the Mitral Position Due to Severe Mitral Annular Calcification
Amar Bhatt, MD¹; Manoj Iyer, MD¹; The Ohio State University¹

F88: Management of a Patient with Kartagener's Disease for Bilateral Orthotopic Lung Transplantation
Andrew Karenz, MD¹; Emily Teeter, MD¹; Brian Barrick, MD¹; Priya Kumar, MD¹; Benjamin Haithcock, MD¹; Susan Martinelli, MD¹; University of North Carolina¹

F89: Endocarditic Aorto-Right Atrial Fistula in a Setting of Unrestrictive ASD: Diagnostic Considerations
David Christianson, MD¹; Igor Zhukov, MD¹; Emory University School of Medicine¹

F90: Dual Chamber Defibrillator Placement in a Duchenne's Muscular Dystrophy Patient with CHF Secondary to Cardiomyopathy
Jamel Ortoleva, MD¹; James Freeman, MD MPH MS¹; Susan Garwood, MD¹; Peter Mancini, MD¹; Yale University School of Medicine¹

F91: Acute Type B Aortic Dissection During the Second Trimester of Pregnancy in a Patient with Marfan Syndrome
Jeongae Yoon, MD¹; Prakash Patel, MD¹; Jacob Gutsche, MD¹; Jared Feinman, MD¹; Onyi Onuoha, MD MPH¹; Stuart Weiss, MD PhD¹; John Augoustides, MD FASE FAHA¹; Hospital of the University of Pennsylvania¹

F92: Cardiac Surgery for the Voice Professional
Christopher Owen, MD¹; Jason Falterman, MD¹; Ochsner Clinic Foundation¹

F93: Point of Care Ultrasonography: An Essential Skill in the Operating Room
Raiyah Sherifdeen, MD¹; Arvind Rajagopal, MD¹; Rush University Medical Center¹

F94: Thoracotomy Approach to Avoid Fourth Sternotomy for Repeat Tricuspid Valve Replacement
Karl Takabayashi, MD¹; Jenny Kwak, MD¹; Loyola University Chicago¹

F95: Tricuspid Valve Replacement for Carcinoid Heart Disease Complicated by Right Heart Dysfunction and Atrial Standstill
Kelly Kohorst, MD¹; Adam Kingeter, MD¹; Brian O'Hara, MD¹; Andrew Shaw, FCCM FRCA MB¹; Vanderbilt University Medical Center¹

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 1

Saturday, April 2, 11 am–Noon [continued]

F96: Transfemoral Aortic Valve Replacement Complicated by Subaortic Valve Mass—An Unusual Presentation
Adrienne Samar, MD¹; Sudhakar Subramani, MD MMED¹; University of Iowa Hospitals and Clinics¹

F97: Bystander Cardiopulmonary Resuscitation, Refractory Cardiogenic Shock, and 3 Days of Veno-Arterial Extracorporeal Membrane Oxygenation: An Unexpected Survival Story
Alexandra Fox, MD¹; Kai Schoenhage, MD¹; Samata Paidy MD¹; University of Arizona¹

F98: Veno-Arterial and Veno-Venous Extracorporeal Membrane Oxygenation in a Patient with Situs Inversus
David Parisian, MD¹; Gregory Weiss, MD¹; Barbara Wilkey, MD¹; University of Colorado¹

F99: Acute Systolic Anterior Motion of the Mitral Valve Following Aortic Valve Replacement Utilizing Intraoperative Echocardiography and Esmolol Infusion
Nathan Belt, MD¹; Rana Badr, MD¹; University of Massachusetts Medical School¹

F100: Pulmonary Cement Embolism after Vertebroplasty Resulting in PFO Flow Reversal and Mitral Valve Destruction
Mary Matyi, MD¹; Peter Gerst, DO¹; Christopher Ahrens, DO¹; Ricardo Cardenas, MD¹; Allegheny Health Network¹

F101: Acute Aorto-Right Ventricular Outflow Tract Fistula after Deployment of Edwards Intuity Valve
William Navarre, MD¹; Andrew Baudo, MD¹; Andrew Feider, MD¹; Northwestern University¹

F102: Multifactorial Late Onset Pulmonic Stenosis After Arterial Switch Procedure for D-Transposition of the Great Arteries
Robert Hieronimus, MD¹; Greg Koski, PhD MD¹; Massachusetts General Hospital¹

F103: Post Aortic Valve Replacement Severe High Gradients in a Patient with Vasoplegic Syndrome
Luis Enriquez, MD¹; Felipe Muriel, Cardiovascular Anesthesiologist²; Javier Osorio, Cardiovascular Anesthesiologist²; Jaime Rodriguez, MD²; Camilo Roa Amaya, MD²; Mauricio Abello, MD, Cardiovascular Anesthesiologist²; Universidad El Bosque y Fundación Clínica Shaio¹; Fundación Clínica Shaio²

F104: Placement of Veno-Arterial Extracorporeal Membrane Oxygenation for a Patient with Neurogenic Cardiomyopathy in Status Epilepticus
Deena Perotti, MD¹; Cedars Sinai Medical Center¹

F105: Perioperative Management of Giant Coronary Artery Aneurysm Resection: A Case Report
Samiya Saklayen, MD¹; Oksana Klimkina, MD¹; University of Kentucky¹

F106: Severe Peripartum Cardiomyopathy Complicated by Sepsis Requiring Left Ventricular Assist Device Implantation
Andrea Girnius, MD¹; Gregory Stecker, MD¹; Erin Grawe MD¹; University of Cincinnati Medical Center¹

F107: A Novel Sternotomy-sparing Configuration for Implantation of a Ventricular Assist Device
Jacob Evers, MD¹; Angela Lee, MD¹; Columbia-Presbyterian¹

F108: TEE Assisted Location of Foreign Body Following LVAD Implantation
Michael Foley, MD¹; Saadia Sherwani, MD¹; Andrew Feider, MD¹; Aaron Reynolds, MD¹; Northwestern Memorial Hospital¹

F109: Transesophageal Echocardiography of Aortic Valve Reconstruction with Autologous Pericardium
Robert Kong, MD¹; Peter Fu, MD¹; Sansan Lo, MD¹; Columbia University¹

F110: Harlequin Syndrome Associated With Multi Level Inter-costal Nerve Block
Jarrod Wilson, MD¹; Frederick Hasty, MD¹; Mount Sinai Medical Center of Florida¹

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 2

Saturday, April 2, 5–6 pm

Seaport AB (2nd Level)

F111: The Novel Use of a Percutaneous Right Ventricular Assist Device in a Patient with Right-Heart Failure Undergoing Tricuspid Valve Replacement
Bryan Simmons, MD¹; Michael Fitzsimons, MD¹; Gaston Cudemus, MD¹; Massachusetts General Hospital¹

F112: A Mobile Left Ventricular Mural Thrombus Detected by Transesophageal Echocardiography During Coronary Artery Bypass Surgery
Khan Chaichana, MD¹; Yafen Liang, MD¹; Massachusetts General Hospital¹

F113: Surgical Retrieval of Retained RCA Rotablator Burr and Stent
Alexander Shapeton, MD¹; Fernando Mujica, MD¹; Ruma Bose, MD¹; Beth Israel Deaconess Medical Center¹

F114: von Willebrand Disease and Aortic Valve Replacement on Cardiopulmonary Bypass using Thromboelastograph to Guide Intra-operative Decision Making
Sherry Chang, MD¹; Beth Israel Deaconess Medical Center¹

F115: Two-In-One Using 3D: Mitral Paravalvular Leak Closure with Concomitant Transcatheter Valve-In-Valve Implantation
Andreas Schuler, MD¹; Thomas Jones, MD²; Elizabeth Perpetua, DNP ARNP BC¹; Gabriel Aldea, MD FACC¹; Mark Reisman, MD¹; G. Burkhard Mackensen, MD PhD FASE¹; University of Washington¹; Seattle Children's Hospital²

F116: Successful Repair of Mixed Atrial Septal Defect Diagnosed in an Adult Patient
Travis Steinke, MD¹; Michele Sumler, MD¹; Emory¹

F117: Back from the Edge: Successfully Treated Hyperacute Rejection Following Orthotopic Heart Transplant using Extracorporeal Membrane Oxygenation and Plasmapheresis
Clifford Cutchins, MD¹; Albert Robinson, MD¹; University of Florida¹

F118: 46 Year Old with Complex Acute Stanford Type B Aortic Dissection Requiring Rescue Thoracic Endovascular Stent Graft and Subsequent Definitive Elephant Trunk Repair
Alex Leone, MD¹; Anand Mehta, MD¹; Cleveland Clinic Foundation¹

F119: Transcatheter Aortic Valve Replacement for Aortic Regurgitation in patient with Erythropoietic Protoporphyrria
Shea Stoops, DO¹; Jason Mensch, MD¹; University of Kansas Medical Center¹

F120: Tricuspid Valve Replacement and Atrial Septal Defect Repair in Patient with Carcinoid Syndrome
Mark Schmidt, MD¹; Sasha Shillcutt, MD FASE¹; University of Nebraska¹

F121: Treatment of Mechanical Valve Thrombosis With Intravenous Thrombolytic Therapy
Nayan Patel, MD¹; Carole Freiburger-O'Keefe, DO¹; University of Missouri Kansas City¹

F122: Intraoperative Rescue Transesophageal Echocardiogram Revealing Cardiac Standstill and Thrombosis Formation
Gene Paek, MD¹; David Smith, MD¹; University of Utah¹

F123: Recurring Pulmonary Emboli in Patient on Therapeutic Anticoagulation
Benjamin Lippert, DO¹; Brendan Dewan, MD¹; Brett Reece, MD¹; Karsten Bartels, MD¹; University of Colorado Denver School of Medicine¹

F124: Mitral Valve Annuloplasty Ring Dehiscence Associated with Fenfluramine-Phentermine Usage in the Setting of Recent Tricuspid Valve Replacement
Joseph Miskulin, MD¹; Nicholas Markin, MD FASE¹; University of Nebraska Medical Center¹

F125: Patent Foramen Ovale Closure in a Professional Diver status post Decompression Illness
Patrick Kinnaird, MD¹; Pete Panzica, MD¹; Colin Nabb, MD¹; Beth Israel Deaconess Medical Center¹

F126: Misplaced Suture Detected by Intraoperative Transesophageal Echocardiography
Benjamin Randall, MD¹; Kenichi Ueda, MD¹; University of Iowa¹

F127: Acute Retrograde Type A Aortic Dissection Developed After a Thoracic Endovascular Repair of Type B Aortic Dissection—A Case Report
Jessica Lumsden, MD¹; Yanfu Shao, MD²; Temple University Hospital¹; Temple University Health System²

F128: Dynamic Left Ventricular Outflow Tract Obstruction Caused By Preserved Mitral Valve Anterior Leaflet—Assessment Using Three-Dimensional Transesophageal Echocardiography
Yi McWhorter¹; Kunal Desai, MD¹; Steven Haddy, MD¹; Mark Cunningham, MD¹; University of Southern California¹

F129: Complex Cardiac Surgery in a Patient with Dextrocardia and Situs Inversus
Frederick Isaacson, DO¹; Logan Kosarek, MD¹; Ochsner Health System¹

F130: A Case of Open Mitral Valve-in-Valve Replacement
Kimberly Nicol, DO¹; Joseph Sanders, MD¹; Henry Ford Hospital¹

F131: Aluminum Toxicity from Combination Therapy of Sucralfate and Citric Acid in a Cardiac Surgery Patient
Andrea Newsome, PharmD¹; Emily Higdon, PharmD¹; Mohamed Gaber, MD¹; Vikas Kumar, MD¹; Georgia Regents Medical Center¹

F132: Venovenous ECMO Placement in a Patient with Severe ARDS Complicated by Intrathoracic Hemorrhage
David Garcia, DO MS¹; Pierre LeVan, MD¹; Jenny Kwak, MD¹; Loyola University Medical Center¹

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 2

Saturday, April 2, 5–6 pm [continued]

F133: Right Femoral to Right Atrial Arteriovenous Graft Using Novel Trans-hepatic Approach Under Transesophageal Echo Guidance

John Blackburn, MD¹; Vikas Kumar, MD¹; Taylor Mueller, BS¹; Georgia Regents University¹

F134: Anesthetic Monitoring Directly Impacts Patient Outcome During Novel Suprasternal TAVR Approach

Dan Rosenkrans, MD¹; Emily Teeter, MD¹; Thomas Caranasos, MD¹; Robert Kyle, DO¹; University of North Carolina Hospitals¹

F135: Successful Transcarotid Approach for Endovascular Stent Placement to Treat a High-Risk Stanford Type A Dissection

Christopher Press, MD¹; Christina Greene, MD¹; Jack Boyd, MD¹; Ehab Sorial, MD¹; Manuel Garcia-Toca, MD¹; Sheela Pai Cole, MD¹; Stanford University Medical Center¹

F136: Multi Vessel Coronary Artery Bypass Graft on a Patient with a V-A ECMO

Victor Enoch, MD¹; Emory University School of Medicine¹

F137: Atrial Myxoma Removal Complicated by Postoperative Right Heart Failure

Gregory Stecker, MD¹; University of Cincinnati¹

F138: Reexpansion Pulmonary Edema Following Cardiopulmonary Bypass

Ian Miller, MD¹; Yasdet Maldonado, MD¹; Allegheny Health Network¹

F139: Acute Non-Cardiogenic Pulmonary Edema Following Cardiopulmonary Bypass and Review of Management Strategies

Brittney Williams, MD¹; Reney Henderson, MD¹; Patrick Odonkor MD¹; University of Maryland¹

F140: Catastrophic Aortic Valve Failure Requiring Emergent Femoral Bypass

Leah Geyer, MD¹; Andrea Girnius, MD¹; Ping Wang, MD¹; University of Cincinnati Hospital¹

F141: Unexpected Left Atrial Thrombus After Aortic Valve Replacement and Left Atrial Ligation with AtriClip AtriCure Device; Should Transesophageal Echocardiography be Routinely Used After AtriClip Device Deployment?

Jon Rost, MD¹; Kinjal Patel, MD¹; Ronak Desai, DO¹; Ahmed Awad, MD¹; Cooper University Hospital/CMSRU¹

F142: Anesthetic Considerations for a Large Rare Invasive Right Atrial Mass

Julie DeVore, DO MPH¹; Wendy Haft, MD¹; University of Pittsburgh Medical Center¹

F143: Intraoperative Anticoagulation in a Patient with Protein S Deficiency Undergoing Cardiopulmonary Bypass

Hanjo Ko, MD¹; Sary Aranki MD¹; Rosemary Uzomba, MD MPH¹; Brigham and Women's Hospital¹

F144: A Case of a MitraClip with an Iatrogenic Atrial Septal Defect

Fernando Mujica, MD¹; Azad Mashari, MD¹; Feroze Mahmood, MD FASE¹; Beth Israel Deaconess Medical Center¹

F145: Left Atrial Dissection from Left Atriotomy Incision During Mitral Valve Repair: Diagnosis and Treatment

Elizabeth Zhou, MD¹; Jared Feinman, MD¹; University of Pennsylvania¹

F146: Misadventures of a Pigtail: Intraoperative Management of a Chest Tube Placed into the Left Atrium

Jonathan Chow, MD¹; Brittney Williams, MD¹; Seema Deshpande, MD¹; University of Maryland School of Medicine¹

F147: Iatrogenic Aortic Pseudoaneurysm After Aortic Valve Replacement Requiring Emergency Reoperation

Suraj Parulkar, MD¹; Himani Bhatt, DO MPA FASE¹; Icahn School of Medicine at Mount Sinai¹

F148: Suicide Left Ventricle Following Aortic Valve Replacement for Aortic Stenosis

Stephanie Willet, MD¹; June Chan, FANZCA MBBS¹; Nikolaos Skubas, MD FASE FACC DSc¹; Weill Cornell Medical College-New York Presbyterian Hospital¹

F149: TAVR via Laparotomy and Direct Catheterization of the Abdominal Aorta

Ethan Brovman, MD¹; Sergey Karamnov, MD¹; Annette Mizuguchi, MD¹; Agnieszka Trzcinka, MD¹; Brigham and Women's Hospital¹

F150: Failure of Intraoperative Imaging to Detect Aortic Root Rupture Associated With TAVR

Meredith Whitacre, MD¹; Brian Gelfand, MD¹; University of Florida¹

F151: Deployment of Two AMPLATZER® Vascular Plug 14-mm Devices for the Closure of Significant Aortic Paravalvular Leaks Post-Transaortic Valvular Repair

Emily Anton, MD¹; Raj Makkar, MD¹; Antonio Conte, MD¹; Moody Makar, MD¹; Cedars Sinai Medical Center¹

F152: Combined Open Mitral Valve Replacement and Transfemoral Aortic Valve Replacement for Severe Mitral Stenosis; and Severe Aortic Stenosis with Porcelain Aorta

Kevin Nemeth, MD¹; Michael Fabbro, DO²; Yiliam Rodriguez-Blanco, MD²; Julio Benitez Lopez, MD²; Ankeet Choksi, MD²; Indiana University¹; University of Miami Hospital²

F153: Non-Invasive Minute Ventilation Monitoring in a Post-Operative Sternotomy Patient

Sarah Robison, MD¹; John Moss, MD¹; Mayo Clinic Florida¹

Resident/Fellow Complex Case Presentations

F154: Transcatheter Aortic Valve Prosthesis in Mixed Native Mitral Valve Disease. How Far Should We Push?

Heather Reed, MD¹; Andreas Schuler, MD¹; Elizabeth Perpetua, DNP ARNP BC¹; Thomas Jones, MD²; Gabriel Aldea, MD FACC¹; Mark Reisman, MD¹; G. Burkhard Mackensen, FASE MD PhD¹; University of Washington¹; Seattle Children's Hospital²

F155: Regional Anesthesia for Non-Cardiac Surgery in a Patient with a Left Ventricular Assist Device

Lacey Straube, MD¹; David Hardman, MD MBA¹; Emily Teeter, MD¹; University of North Carolina Hospitals¹

F156: Anesthetic Implications of the Saber Sheath Trachea

Pankaj Jain, MD¹; Andrej Alfirevic, MD FASE¹; Cleveland Clinic Foundation¹

F157: Therapeutic Hypothermia after Intraoperative PEA with ROSC

Patricia Nwajuaku, MDMPH¹; Huong Le, MD¹; William Smith, MD¹; Brian Gelfand, MD FACS¹; University of Florida¹

F158: Urgent Biventricular Assist Device Placement in the Setting of Left Ventricular Thrombus and Patent Foramen Ovalae

Benjamin Atwood, MD¹; Agnieszka Lesicka, MD¹; Michael Andrawes, MD¹; Massachusetts General Hospital¹

F159: Stenosis of Superior Vena Cava Requiring Internal Jugular to Right Atrium Bypass

Ryan Neal, MD¹; Jiapeng Huang, MD PhD¹; University of Louisville Hospital and Jewish Hospital¹

F160: Pulmonary Artery Stenosis After Cardiac Massage in a Trauma Patient

Cheen Alkhatib, MD¹; Ann Bingham, MD¹; Izumi Harukuni, MD¹; Oregon Health and Science¹

F161: Rupture of Non-Coronary Sinus of Valsava Aneurysm into the Right Atrium

Daniela Iolanda, Ion, MD¹; Jennifer Cogan, MD¹; Nicolas Rousseau-Saine, MD²; Georges Desjardins, MD FASE FRCPC¹; Pierre Emmanuel Noly, MD MSc¹; Phillippe Demers, MD MSc FRCSC¹; Heart Institute Montreal¹; University of Montreal²

F162: Left Ventricular Free Wall Rupture Following Induction for Elective Coronary Artery Bypass Graft

Joseph Schoenfeldt, MD¹; Matthew McConnell, MD²; Rachel Gryta, DO²; Allegheny Health Network¹; Allegheny General Hospital²

F163: BioGlue®-Associated Loss of Aortic Valve Leaflet Motility Sonographically Masked by Newly Replaced Mechanical Mitral Valve

Alan Smeltz, MD¹; Emily Teeter, MD¹; Thomas Caranasos, MD¹; UNC Hospital¹

F164: Transcatheter Aortic Valve Replacement in the Setting of Severe Aortic Stenosis and Basal Septal Hypertrophy

Warren Choi, MD¹; Amanda Fox, MD MPH¹; Alycia Wanat-Hawthorne, MD¹; University of Texas Southwestern¹

F165: Emergency Coronary Artery Bypass Graft in an 18-Year-Old Male with Anomalous Coronary Artery Origin

Jackson Condrey, MD¹; Eric Nelson, DO¹; Valerian Fernandes, MD¹; Medical University of South Carolina¹

F166: Combined Carotid and Coronary Revascularization in a Patient with High-Grade Asymptomatic Unilateral Carotid Stenosis Presenting with Non-ST-Segment Elevation Myocardial Infarction

Maurice Davis, MD¹; Benu Makkad, MD¹; University of Cincinnati Medical Center¹

F167: Recurrent Hemorrhagic Pericardial Effusions Resulting from an Unrecognized Right Atrioventricular Tumor Discovered by Transesophageal Echocardiography (TEE)

Yenabi Keflemariam, MD¹; Yong Peng, FASE MD PhD¹; University of Florida¹

F168: Long-Term Surgical Management in a Patient with a Partial Atrioventricular Septal Defect

Jesse Morrison, MD¹; Bryant Wu, MD¹; University of Michigan¹

F169: A Rare Complication During Percutaneous Mitral Clipping and its Anesthesia Consideration

Ghaith Abdulkarim, MD¹; Jacob Clark, MD²; Galal Gargodhi, MD¹; St Elizabeth Medical Center, Boston, MA¹; Lahey Medical Center²

F170: A Case of Acute Necrotizing Eosinophilic Myocarditis with a Fulminant Course and Successful Management with Biventricular Mechanical Support and Heart Transplantation

Juan Perrone, MD¹; Serguei Melnitchouk, MD MPH¹; David D'Alessandro, MD¹; Sunu Thomas, MD¹; Stephanie Moore, MD¹; Gaston Cudemus, MD¹; Massachusetts General Hospital¹

F171: Paravalvular Regurgitation Through Left Atrial Appendage Fistula After Mitral Valve Replacement

Luke Liang, MD¹; Andrew Feider, MD¹; McGaw Medical Center of Northwestern University¹

F172: A Single Immobile Leaflet Following Placement of a Mechanical Bileaflet Mitral Valve Prosthesis

Justin Tong, MD¹; Antonio Conte, MD¹; Rebecca Aron, MD¹; Alfredo Trento¹; Cedars Sinai Medical Center¹

F173: The Perioperative Management of a Rare Case of Idiopathic Mediastinitis

Charles Minh, MD¹; Samuel DeJoy, MD¹; Case Western Reserve/Metrohealth¹

F174: Cold Agglutinins: A Chilling Tale

Kate Liberman, MD¹; Nicole Tomasello, CCP LP¹; John Fox, MD¹; Brigham and Women's Hospital¹

F175: Right Ventricular Failure Due to RCA Ostial Thrombus After Aortic Valve Replacement

Ying Hui Low, MD¹; Frederick Lombard, MBChB FANZCA¹; Duke University Hospital¹

F176: A 3-Year-Old with Aortopulmonary Window and Moyamoya Disease: A Genetic Connection

Ashley Gabrielsen, DO¹; Eric Ursprung, MD¹; University of Massachusetts¹

F177: Catastrophic Idiopathic Spontaneous Coronary Artery Dissection in an Athletic Young Woman Requiring Staged VA-ECLS Configuration Changes as Bridge to Transplant

Nathaniel Brown, MD PhD¹; Gregory Weiss, MD¹; University of Colorado Hospital¹

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 2

Saturday, April 2, 5–6 pm [continued]

F178: Bilateral Impella Insertion for Refractory Biventricular Failure
Walead Hessami, MD¹; James Abernathy, FAHA FASE MD MPH¹; Medical University of South Carolina¹

F179: Management of Noncardiac Surgery in Patients with Ventricular Assist Devices
Jasmine Ryu, DO¹; Antolin Flores MD¹; The Ohio State University¹

F180: Aorta-Right Ventricular Fistula in Recurrent Infective Endocarditis
Samira Sihabdeen, MD¹; Pierre LeVan, MD¹; Jenny Kwak, MD¹; Loyola University Medical Center¹

F181: Impella Assisted Valvuloplasty as a Bridge to Transcatheter Aortic Valve Replacement (TAVR)
Sapna Govindan, MD¹; Amit Bardia, MBBS¹; Mario Monteleagre-Gallegos, MD¹; Colin Nabb, MD¹; Robert Leckie, MD¹; Beth Israel Deaconess Medical Center¹

F182: Imaging of the Superior Vena Cava for Central Line Catheter Positioning
Olabode Ogunwale, MD¹; Steven Lindauer, MD¹; Luiz Maracaja Neto, MD¹; University of Texas Health Science Center, San Antonio¹

F183: 3D Transesophageal Echocardiography Evaluation of an Improperly Positioned Impella Device
Courtney Castoro, MD¹; Sarah Armour, MD¹; Mayo Clinic¹

F184: Pericardial Tamponade-Induced Right Ventricular Free Wall Rupture: Echocardiographic Diagnosis
Peter Gerst, DO¹; Joshua Baisden, MD¹; Matthew McConnell, MD¹; Daniel Cormican, MD¹; Allegheny Health Network¹

F185: Valve Thrombosis in an On-X Valve in the Aortic Position: A Case Report
Melissa Lamrissi, MD¹; Eric Ursprung, MD¹; Modupeola Diyaolu, BA²; UMass Memorial Medical Center¹; University of Massachusetts Medical School²

F186: Extracorporeal Membrane Oxygenation Cannula Associated Thrombus Removal Using an AngioVac Cannula
Oswaldo Razo Vazquez, MD¹; Nichlesh Patel, MD¹; University of California, San Francisco¹

F187: Postoperative ST Elevation Myocardial Infarction STEMI: After Removal of Pericardial Cyst
Scott Korfhagen, MD¹; Benu Makkad, MD¹; University of Cincinnati Medical Center¹

F188: Type A Dissection and Aortic Root Rupture After Endovascular Repair of Type B Dissection
Tyson Smith, MD¹; Matthew McConnell, MD¹; Joshua Baisden, MD¹; Allegheny Health Network¹

F189: A Case of Biatrial Thrombi
Mabel Chung, MD¹; Timothy Tan, MD PhD FRACP FCSANZ FESC¹; George Tolis, MD¹; Massachusetts General Hospital¹

F190: Anesthetic Concerns for Reoperative Ascending Aortic Aneurysm Repair and Aortic Valve Replacement in a Patient with Vascular Ehlers Danlos Syndrome
Joshua Augustin¹; Cleveland Clinic¹

F191: Esophageal Perforation During TEE: Two Cases; Two Clinical Presentations
Belinda Lee, MD¹; Ioanna Apostolidou, MD¹; Michael Wall, MD FCCM¹; Daniela Orza, MD¹; University of Minnesota¹

F192: Treatment of LVAD Associated Severe Aortic Insufficiency with Percutaneous Aortic Valve Closure
Richard Webb, MD¹; Daniel Castillo, MD¹; University of Mississippi¹

F193: Pre-Incision Transesophageal Echocardiographic Detection of Absence of Aortic Valve Mass Resulting in Avoidance of Cardiac Surgery
Lance Doeden, MD¹; Tara Brakke, FASE MD¹; University of Nebraska Medical Center¹

F194: Open Rescue for an Embolized Left Ventricular TAVR Valve
Lateef Opabola, MD¹; Albert Robinson, MD¹; University of Florida¹

F195: Intermittent Right to Left Shunting After a Right Pneumectomy Presenting as Platypnea-Orthodeoxia
Agnieszka Lesicka, MD¹; Andreas Mauer, MD¹; Igor Palacios, MD¹; Gaston Cudemus, MD¹; Massachusetts General Hospital¹

F196: Anesthetic Considerations for Aortic Root Replacement with a Valve-Graft in a Patient with Loeys-Dietz Syndrome
Mallikarjun Reddy, MD MPH¹; Michael Brown, MD¹; University of Missouri-Columbia¹

F197: Coagulation Assessment After Plasmapheresis Prior to Lung Transplantation
Andrew Crabbe, MD¹; Kenichi Tanaka, MD MSc¹; Seema Deshpande, MD¹; John McNeil, MD¹; University of Maryland School of Medicine¹

F198: Transesophageal Echocardiography TEE: Used to Guide Therapy in Peripartum Pulmonary Embolism
Ryan Parker, MD¹; Huong Le, MD¹; Brian Gelfand, MD FACS¹; University of Florida¹

F199: Redo Sternotomy for Late Pseudoaneurysm and Right Ventricular Compression Following Total Aortic Arch Replacement for Luetic Aortopathy
Robert Ginnebaugh, MD¹; Ross Hanson, MD¹; Levi Bassin, MD PhD¹; Hari Mallidi¹; Agnieszka Trzcinka, MD¹; Brigham and Women's Hospital¹

F200: Case Series of Hypertrophic Cardiomyopathy
Sarah Burke, MD¹; Hung Nguyen, MD¹; University of California, San Francisco¹

Resident/Fellow Complex Case Presentations

F201: Percutaneous Tricuspid Valve-in-Valve Replacement
Kinza Sentissi, MD¹; Sergey Karmnov, MD¹; K. Annette Mizuguchi, MD PhD MMSc¹; Dirk Varelmann, MD DESA EDIC¹; Douglas Shook, MD FASE¹; Pinak Shah, MD¹; Brigham and Women's Hospital¹

F202: Unrecognized Cold Agglutinins and a Stenotic Coronary Sinus: The Perfect Storm
Suraj Yalamuri, MD¹; Sharon McCartney, MD¹; Tera Cushman, MD MPH¹; Michele Heath, CCP²; Cory Maxwell, MD¹; Duke University Medical Center¹; Durham Veterans Affairs Medical Center²

F203: Left Heart Bypass and Lumbar Drain Help Preserve Motor Function in Open Thoracoabdominal Aortic Aneurysm Repair Under Total Intravenous Anesthesia
Jeffrey Olech, MD¹; Joseph Sanders, MD¹; Henry Ford Hospital¹

F204: Operative Intervention for Right Ventricular Failure from High-Grade Spindle Cell Sarcoma Metastatic to the Main Pulmonary Artery
Thomas Krall, MD¹; James Ramsay, MD¹; University of California, San Francisco¹

F205: Broken Heart Syndrome After Fixing Thoracic Aortic Aneurysm
Vaibhav Bora, MD¹; Negmeldeen Mamoun, MD PhD¹; Cleveland Clinic¹

F206: Use of Ultrasound—Tagged Near-Infrared Spectroscopy and Near-Infrared Spectroscopy in a Patient Undergoing Deep Hypothermic Circulatory Arrest
Bradlee Bachar, MD¹; Neal Fleming, MD PhD¹; Tzu-Ang (Leon) Li, BS²; UC Davis Health System¹; University of California, Davis²

F207: Transhepatic Atrial Septal Defect and Patent Foramen Ovale Closure in a Patient with Platypnea-Orthodeoxia Syndrome and Interrupted Inferior Vena Cava
Kristi Lorenzen, MD¹; Katie Goergen, MD¹; University of Nebraska Medical Center¹

F208: Elective Extra Corporeal Membrane Oxygenation Cannulation for Cesarean Section in a Patient with Severe Pulmonary Hypertension and Right Ventricular Dysfunction
Santiago Rojas Paez¹; Charles Hill, MD¹; Stanford University Hospital and Clinics¹

F209: Intravenous Epoprostenol in a Patient with Heparin Induced Thrombocytopenia for Cardiopulmonary Bypass
Tarang Safi, MD¹; Jim Wong, MD MS¹; Stanford University¹

F210: Right Heart Failure from a Right Coronary Artery Infarct from an Acute Formation of an Aortic Root Thrombosis Following Left Ventricular Assist Device Implantation
Brian Gebhardt, MD MPH¹; Stefan Ianchulev, MD¹; Ankit Jain, MBBS¹; Fredrick Cobey, MD MPH FASE¹; Tufts Medical Center¹

F211: Intraoperative Evaluation of the Mitral Valve in Dextrocardia
Sara Nikravan, MD¹; Albert Cheung, MD¹; Stanford University¹

F212: A Breath of Fresh Air—Managing a Veno-Venous ECMO Bridge to Bilateral Lung Transplantation
Gregory Mickus, MD¹; Archer Martin, MD¹; Mayo Clinic Florida¹

F213: Nonfloatable Swan...Look at the Anatomy!
Lakshmi Penugonda, MD¹; Ranjani Venkataramani, MD FRCA¹; Mauricio Garrido, MD²; Rohinton Morris, MD²; Engy Hanna, MD²; Hahnemann University Hospital, Drexel University College of Medicine¹; Abington-Jefferson Health²

F214: Do I Need Lung Protection or Lung Isolation? A Case Report and Review of Literature for One-Lung Ventilation Guidelines
Jian Azimi-Bolourian, MD¹; John Zaki, MD¹; University of Texas at Houston¹

F215: Resection of a Large Vertebral Artery Aneurysm with Cardiopulmonary Bypass and Deep Hypothermic Circulatory Arrest: Considerations and Challenges
Nazish Hashmi, MD¹; Nathan Waldron¹; Nicole Guinn, MD¹; Mani Daneshmand, MD¹; Ali Zomorodi, MD¹; Brandi Bottiger, MD¹; Duke University Medical Center¹

F216: The Importance of a Thoughtful Approach to a Complicated Post-Pneumonectomy Case
Wendy Smith, MD¹; Jessica Tashjian, MD¹; University of California at San Francisco¹

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 3

Sunday, April 3, 7–8 am

Seaport AB (2nd Level)

F217: Pacemaker Lead Perforation Presenting as Chest Wall Pulsation

Brandon Smoller, MD¹; Stephanie Cintora, MD¹; University of Massachusetts¹

F218: Postoperative Hemodynamic Instability in the Setting of a Right Atrial Hematoma After Combined a Coronary Artery Bypass Graft, Tricuspid Valve Repair and Cox-Maze Procedure
Brent Barta, DO¹; Donn Marciniak, MD¹; Cleveland Clinic Foundation¹

F219: “The PA Just Exploded!”: Adventures in the Adult Congenital Cardiac OR

Alina Hulse, MD¹; Michael Plakke, MD¹; Cory Maxwell, MD¹; Duke University Medical Center¹

F220: Transesophageal Echocardiography Aides in Intraoperative Decision Making During Resection of Renal Cell Carcinoma with Inferior Vena Cava Extension

Meghan Brennan, MD¹; Jonathan Hadaway, MD¹; Albert Robinson, MD¹; University of Florida¹

F221: Extracorporeal Membrane Oxygenation Support for Percutaneous Coronary Intervention in the Post-Cardiac Arrest Patient

Kevin Wang, MD¹; John Lawrence, MD MED¹; Benu Makkad, MD¹; University of Cincinnati College of Medicine¹

F222: Incidental Aortic Valve Mass: A Fibroelastoma or a Septic Thrombus?

Waqas Anjum, MD¹; Sankalp Sehgal, MD¹; Hahnemann University Hospital¹

F223: Hybrid TEVAR Procedures in Thoracic Aortic Aneurysms: A Promising Approach

Gerald Rosen, MD¹; Jonathan Howard, MD¹; Jayanand D'Mello, MD¹; S. Howard Wittels, MD¹; Mount Sinai Medical Center of Florida¹

F224: Transapical Transcatheter Tricuspid Valve-In-Ring Implantation in a Patient with History of D-Transposition of the Great Arteries Status Post Mustard Procedure

Ivana Radeva, MD¹; Jamil Aboulhosn, MD FACC FSCAI¹; Brian Reemtsen, MD¹; Johanna Schwarzenberger, MD¹; University of California, Los Angeles¹

F225: Cardiac Tamponade During Percutaneous Mitral Valve Repair

Austin Adams, MD¹; M. Megan Chacon, MD¹; University of Nebraska Medical Center¹

F226: Severe Hemodynamic Instability from Loss of Atrioventricular Synchrony After Composite Aortic Valve Graft Replacement

Dean Bowker, MD¹; Jessica Brodt, MD¹; Stanford University Medical Center¹

F227: Left Atrial Membrane: Cor Triatriatum; Supravalvular Mitral Ring; or Artifact?

Daniel Kinney, MD¹; Manuel Fontes, MD¹; Irena Vaitkeviciute, MD¹; Yale University¹

F228: Convergent Procedure—New Challenge to Cardiac Anesthesiologists in Electrophysiology Labs: A Case Report and Anesthetic Management

Fadi Farah, MD¹; Sohail Mahboobi, MD¹; Lahey Clinic Medical Center¹

F229: Intracardiac Thrombus Formation with Subsequent Left Ventricular Dysfunction in a Patient Undergoing Aortic Valve Replacement for Aortic Stenosis

Barden Berry, MD¹; Morgan Marino, MD¹; Priya Kumar, MD¹; Susan Martinelli, MD¹; University of North Carolina Hospitals¹

F230: Fatal Cardiac Thrombosis Following Factor VII Administration During Postoperative Extracorporeal Membrane Oxygenation Support

Bradley Hammond, DO¹; Gordon Morewood, MD MBA FASE¹; Marshall Lee, MD¹; Akira Shiose, MD PhD¹; Temple University Hospital System¹

F231: Anesthetic Considerations for Cardiopulmonary Bypass in a Malignant Hyperthermia Susceptible Patient

Purav Patel, MD¹; Melissa Burger, MD MS¹; Bill Rippe, DO¹; JL Reeves-Viets, MD MBA¹; University of Missouri, Columbia¹

F232: Retained AICD Lead after Failed Laser Extraction Causing Persistent Vancomycin-Resistant Enterococcus Bacteremia

Michael Plakke, MD¹; Jonathan Mark, MD¹; Duke University Medical Center¹

F233: Immediate Left Ventricular Outflow Tract Obstruction Caused by Native Anterior Mitral Leaflet After Mitral Valve Replacement

Hussam Nagm, MD¹; Sohail Mahboobi, MD²; St. Elizabeth's Medical Center/ Tufts University School of Medicine¹; Lahey Clinic Medical Center²

F234: An Unusual Finding of Mediastinal Lymphadenopathy by TEE in an Emergent Pericardial Window for Iatrogenic Ventricular Puncture

Blake Moore, MD¹; Chandrika Garner, MD¹; Wake Forest University Health System¹

F235: The Significance of Sudden Increase of Mixed Venous Oxygen Saturation in a Patient on ECMO

Cornel Mihalache, MD¹; Jason Johnson¹; Northwestern University¹

F236: Refractory Hypotension on Cardiopulmonary Bypass in a Patient with Kartagener Syndrome Undergoing Bilateral Lung Transplant

Chad Talarek, MD¹; Mina Oftadeh, DO¹; Pierre LeVan, MD¹; Jenny Kwak, MD¹; Loyola University Medical Center¹

Resident/Fellow Complex Case Presentations

F237: Acute Cor Pulmonale following Pulmonary Embolectomy in Transplanted Lung
Wesley Allen, MD¹; Danny Ramzy, MD PhD¹; Antonio Conte, MD¹; Diba Daneshrad, MD¹; Cedars-Sinai Medical Center¹

F238: Stepwise Intraoperative Management of Renal Cell Carcinoma with IVC Thrombosis
Matthew Troum, MD¹; Gordon Morewood, MD MBA FASE¹; Andreas Karachristos, MD¹; Marc Smaldone, MD MSHP¹; Temple University Hospital¹

F239: Global Hypokinesia after Placement of Ascending Aortic Graft Utilizing del Nido Cardioplegia
Matthew Engel, MD¹; Cleveland Clinic Foundation¹

F240: Unexplained Intraoperative Hyperkalemia During Elective Cardiac Surgery
Blake Perkins, MD¹; Mark Chaney, MD¹; University of Chicago¹

F241: Bivalirudin for Off-Pump Coronary Artery Bypass Grafting in a Patient with a Reported History of Heparin Anaphylaxis
Suzana Zorca, MD¹; Christina Jelly²; Geoffrey Vance, CCP¹; Marco Zenati, MD MSc FETCS¹; Patrick Treanor, CCP¹; VA Boston Healthcare System¹; Massachusetts General Hospital²

F242: Right Ventricular Cardiac Calcified Amorphous Tumor an Outflow to Inflow Problem Outlining the Utility of Multimodal Echocardiographic Imaging
Paul Su, MD¹; Oswaldo Razo Vazquez, MD¹; Victor Ng, MD¹; University of California, San Francisco¹

F243: Hypertension on Bypass: A Sign of Cerebral Air Embolism
Jacob Schaff¹; Robert Kong, MD¹; Paul Weyker, MD¹; Bessie Kachulis, MD¹; Columbia University Medical Center—NYP¹

F244: Pulmonary Hemorrhage and Bronchopleural Fistula Formation Complicating Open Repair of a Thoracoabdominal Aortic Aneurysm
Justin Carbonello, MD¹; Montefiore Medical Center¹

F245: Pulmonary Artery Kinking Causing Acute Right Ventricular Failure After Heart Transplantation
Marya Leahy, MD¹; Andrew Baudo, MD¹; Northwestern University¹

F246: Large Unruptured Sinus of Valsalva Aneurysm Presenting as NSTEMI
Michael Dorbad, DO¹; Bradford Cardonell, MD¹; Barry Marks, DO¹; Geisinger Medical Center¹

F247: Management of Acute Right Ventricular Failure and the Benefits of Temporary Mechanical Support Following Emergent Pulmonary Artery Embolectomy
Oscar Lopez, MD¹; Spencer Drotman, MD¹; Jennie Ngai, MD¹; NYU Langone Medical Center¹

F248: Severe; Unexplained Lactic Acidosis during Cardiopulmonary Bypass
Sean Claar, MD¹; Ryan Bialas, MD¹; Lavinia Kolarczyk, MD¹; E. Wilis Weyers, MD¹; Emily Teeter, MD¹; University of North Carolina, Chapel Hill¹

F249: Continuous Spinal Anesthesia for the Management of Pregnant Patient with Pulmonary Hypertension and Severe Right Ventricular Dilation
Hector Casiano, MD¹; Manuel Torres, MD¹; Marcelle Hernandez, MD DABA¹; University of Puerto Rico¹

F250: Persistent Mitral Regurgitation and Systolic Anterior Motion After Edge-to-Edge Repair and Mitral Valve Annuloplasty
Shaconda Junious, MD¹; Jeffrey Gaca, MD¹; Nazish Hashmi, MBBS¹; Brandi Bottiger, MD¹; Duke University Medical Center¹

F251: Acute Right Ventricular Failure after Orthotopic Liver Transplant Treated With Percutaneous Right Ventricular Assist Device: An Ethics Discussion
Ryan Noska, MD¹; Breck Finzer, MD¹; Ping Wang, MD¹; University of Cincinnati Medical Center¹

F252: What You See Is Not Always What You Get
Daniel Castillo, MD¹; Rene Hulet, DO²; Christian Oliver, MD²; University of Florida¹; University of Mississippi Medical Center²

F253: Tracheal Sternal Fistula after Cardiac Surgery
Reney Henderson, MD¹; Wendy Bernstein, MD MBA¹; University of Maryland School of Medicine¹

F254: A Patient with Severe Hemophilia A Going for Cardiac Surgery Leads to a Protocol Driven Approach for Hemostasis
R. Scott Medearis, DO¹; Mohamed Gaber, MD¹; Vikas Kumar, MD¹; Medical College of Georgia¹

F255: Immobility of Mechanical Mitral Valve Leaflet Due to Residual Subvalvular Apparatus Detected By Intraoperative TEE
Morgan Marino, MD¹; Emily Teeter, MD¹; Barden Berry, MD¹; University of North Carolina Hospitals¹

F256: Massive Thrombosis after Prothrombin Complex Concentrate Administration in a Patient Undergoing Orthotopic Heart Transplantation
Joseph Gallombardo¹; Himani Bhatt, DO MPA FASE¹; Mt. Sinai Medical Center¹

F257: Repeated Resection of Intracardiac and Inferior Vena Cava Leiomyomas in a Patient with Intravenous Leiomyomatosis
Joshua Knight, MD¹; Stephen Esper, MD¹; Kathirvel Subramaniam, MD MPH¹; University of Pittsburgh Medical Center¹

F258: Anesthetic Considerations in a Patient with Dextrocardia Complete Situs Inversus Undergoing Coronary Artery Bypass Graft
Alex Wakshinsky, MD¹; Rana Badr, MD¹; University of Massachusetts Medical School¹

F259: High Pressure Gradient After Aortic Valve Replacement; Is It Real?
Jiten Patel, DO¹; Frederick Cobey, MD MPH FASE¹; Stefan Ianchulev, MD¹; Tufts Medical Center¹

F260: The Successful Anesthesia of Aortic Surgical Emergencies under Deep Hypothermic Circulatory Arrest in Young Children with Loeys-Dietz Syndrome
Yu Zhang, Master¹; Lei Chen, MD¹; Fu Wai Hospital¹

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations: Session 3

Sunday, April 3, 7–8 am [continued]

F261: Valve-in-Valve Sapien Mitral Valve Replacement with Cardiopulmonary Bypass
Marissa Kauss, MD¹; Shane Gillespie, DO¹; David Barbara, MD¹; Sameh Said, MD¹; Mayo Clinic¹

F262: Transesophageal Echocardiographic Diagnosis of Tandem Heart Transseptal Migration in the Operating Room
Scott Harter, MD¹; Bryan Ahlgren, DO¹; Tamas Seres, MD¹; University of Colorado¹

F263: Mitral Clipping and the Critical Role of the Cardiac Anesthesiologist
Sarah Arnold, MD¹; Gian Paparcuri, MD²; Jackson Memorial Health System¹; University of Miami Health System²

F264: Management of a Large Anterior Mediastinal Mass in a Patient Presenting for Mitral and Tricuspid Valve Repairs
Ryan Potosky, MD¹; Jennie Ngai, MD¹; NYU Langone Medical Center¹

F265: Management of a Patient with a Biventricular Assist Device with Subdural Hematoma
Anubhav Kapoor, MD¹; John McNeil, MD²; Daniel Nyhan, MD¹; Johns Hopkins School of Medicine¹; University of Maryland Medical Center²

F266: Role of 3D TEE in Assessment of Mitral Valve Area During LVAD Placement in Presence of MitraClip Device
Tariq Naseem, MD¹; Justin Pollock, MD¹; Swapnil Khoche, MD¹; Dalia Banks, MD FASE¹; University of California San Diego¹

F267: Systemic VAD for RV Failure after Mustard Procedure for D-TGA
Muki Muthuswami, MD¹; University of Michigan¹

F268: Acute Mitral Stenosis Secondary to Mechanical Mitral Valve Thrombosis: Successful Management Using ECMO as Bridge to Emergent Surgery
Jordan Fennema, MD¹; Amy Young¹; University of Michigan¹

F269: Novel Approach to LVAD Outflow Tract Obstruction: Stenting of an LVAD Outflow Tract
Rachel Austin, MD¹; M. Megan Chacon, MD¹; University of Nebraska Medical Center¹

F270: Anesthetic Management of a Pediatric Patient on Paracorporeal Lung Assist Device Therapy; Undergoing Heart-Lung Transplantation
Clair Secomb, MD¹; Danton Char, MD MAS²; Stanford University, School of Medicine¹; Stanford University²

F271: Unilateral Pulmonary Edema Following Robotic Mitral Valve Repair Treated With Venoarterial Extracorporeal Support
Paul Villalba, MD¹; Ahmad Adi, MD¹; Balaram Anandamurthy, MD¹; Cleveland Clinic Foundation¹

F272: Third Time's A Charm: The Utility of TEE to Guide the Third Operative Repair of a Recurrent and Massive Left Ventricular Pseudoaneurysm in a 33-Year-Old Patient with Behcet's Disease
Lee Goeddel, MD¹; Mary Beth Brady, MD FASE¹; Wei Dong Gao, MD¹; Johns Hopkins University School of Medicine¹

F273: Echocardiographic Considerations for a Transcatheter Mitral Valve-in-Valve Implantation Using a Trans-septal Approach
Rohesh Fernando, MD¹; Saumil Patel, MD¹; Prakash Patel, MD¹; University of Pennsylvania¹

F274: Perioperative Management of a Patient with Methylentetrahydrofolate Reductase MTHFR: Mutation Undergoing Aortic Valve Surgery
Camellia Asgarian, MD¹; Jennifer Hargrave, DO¹; Cleveland Clinic¹

F275: Preoperative Diagnosis is Not Always Straightforward: A Case of a Double Interatrial Septum Appearing as an Atrial Myxoma
Julie Wyrobek, MD¹; Charles Brown, IV, MD MHS¹; Megan Kostibas, MD¹; Susan Mayer, MD¹; Duke Cameron, MD¹; Heather Hayanga, MD MPH²; Johns Hopkins Hospital¹; University of Pittsburgh Medical Center²

F276: Bird-in-Cage Phenomenon Following Pericardiectomy in a Severe Case of Constrictive Pericarditis
Elliott Woodward, MD¹; Nelson Burbano, MD¹; Lauren Cornella, MD¹; Brigham and Womens Hospital¹

F277: Caseous Calcification of the Mitral Annulus: An Unusual Finding During Mitral Valve Repair
Suzana Zorca, MD¹; Genevieve Staudt, MD²; Marco Zenati, MD¹; Rithy Srey, MS CCP¹; Patrick Treanor, CCP¹; VA Boston Healthcare System¹; Massachusetts General Hospital²

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Sunday, April 3

Exhibits Open	3–4 pm
Coffee with Exhibitors	3–4 pm

Monday, April 4

Exhibits Open	7 am–3:30 pm and 5:30–6:30 pm
Breakfast with Exhibitors	7–8 am
Coffee with Exhibitors	10–10:30 am
Lunch with Exhibitors	12:30–1:30 pm
Coffee with Exhibitors	3–3:30 pm
Reception in Exhibit Hall	5:30–6:30 pm

Tuesday, April 5

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

Exhibitors

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 American Society of Anesthesiologists
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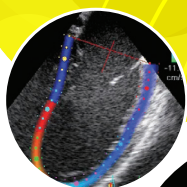
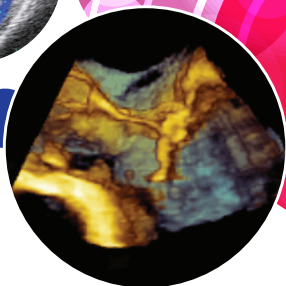
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1. Prabhune A, Sehic A, Spence PA, Church T, Edmonds HL Jr. Cerebral oximetry provides early warning of oxygen delivery failure during cardiopulmonary bypass. *J Cardiothorac Vasc Anesth*. 2002; 16(2):204-6. 2. Colak Z, Borojcic M, Bogovic A, et al. (2014) Influence of intraoperative cerebral oximetry monitoring on neurocognitive function after coronary artery bypass surgery: a randomized, prospective study. *Eur J Cardio-Thorac Surg*. 47(3). 447 – 454. 3. Goldman S, Sutter F, Ferdinand F, Trace C. Optimizing intraoperative cerebral oxygen delivery using noninvasive cerebral oximetry decreases the incidence of stroke for cardiac surgical patients. *Heart Surg Forum*. 2004; 7(5): E376-E381. 4. Murkin JM, Adams SJ, Novick RJ, Quantz M, Bainbridge D, Iglesias I, Cleland A, Schaefer B, Irwin B, Fox S. Monitoring brain oxygen saturation during coronary bypass surgery: a randomized, prospective study. *Anesth Analg*. 2007; 104(1): 51–58. 5. Goldman SM, Sutter FP, Wertan MC, Ferdinand FD, Trace CL, Samuels LE. Outcome improvement and cost reduction in an increasingly morbid cardiac surgery population. *Sern Cardiothorac Vasc Anesth*. 2006;10(2):171-175. 6. Medtronic data on file. INVOS™ Cerebral/Somatic Oximetry Clinical Evidence Bibliography—Cardiac Surgery. 13-PM-0290. 7. FDA 510(k) K082327.

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