





SCA Leadership

Officers



Scott T. Reeves, MD MBA
FACC FASE
President



Linda Shore-Lesserson, MD
FAHA FASE
President-Elect



Christopher A. Troianos, MD
Secretary-Treasurer



Solomon Aronson, MD MBA
FACC FACCP FAHA FASE
Past President

Board of Directors

George E. Burgess, III, MD
Davy Cheng, MD MSc FRCPC
FCAHS CCPE
Amanda Fox, MD MPH

Glenn P. Gravlee, MD
Colleen Koch, MD MS MBA
FACC
G. Burkhard Mackensen, MD
PhD FASE

Feroze Mahmood, MD
Robert J. Marino, MD
Albert Perrino, Jr., MD

Andrew D. Shaw, MB FRCA
FCCM
Douglas C. Shook, MD FASE
Mark Stafford-Smith, MD CM
FRCPC FASE

Scientific Program Committee



Andrew D. Shaw, MB
FRCA FCCM
Scientific Program
Committee Chair
@andyshaw007



Amanda Fox, MD MPH
Scientific Program
Committee Vice Chair



Michael P. Eaton, MD
Coordinator, Workshops
and PBLDs



Davy Cheng, MD MSc
FRCPC FCAHS CCPE
Scientific Program
Committee ICCVA Chair



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

**James H. Abernathy,
III, MD MPH FASE**
FAHA
Tara Brakke, MD FASE
C. David Collard, MD
MS
Mo Ghotbi, MD

**Donna Greenhalgh,
MBChB FRCA FFICM**
Wendy L. Gross, MD
MHCM
Gregg S. Hartman, MD
Paul M. Heerdt, MD
PhD FCCP

Laureen L. Hill, MD
MBA
Gregory M. Janelle,
MD FASE
Priya A. Kumar, MD
G. Burkhard Mackensen,
MD PhD FASE

Alina Nicoara, MD
FASE
Daryl Oakes, MD
Wendy L. Pabich, MD
Wanda M. Popescu,
MD
Sasha K. Shillcutt, MD
FASE

Saket Singh, MD
Gautam Sreeram, MD
Chad E. Wagner, MD
Andrew Weisinger, MD
FASE

General Information

Target Audience

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

Statement of Need

Why You Should Attend

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

This meeting provides attendees the opportunity to

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

What You Can Expect to Gain

The 37th SCA Annual Meeting and Workshops will offer information about current intraoperative management of patients undergoing various cardiac surgical procedures. In addition, this meeting will provide workshops in cardiac imaging, percutaneous valve surgery, transthoracic echocardiography, and extracorporeal support. Presentations are designed to enhance research and/or clinical knowledge and competence pertinent to cardiothoracic and vascular anesthesiology, and will feature content appropriate for professionals at several experience levels. By participating in this meeting, attendees can expect to be able to

- describe the latest advances in perioperative cardiovascular medicine
- critique current trends in clinical and bench research pertinent to cardiovascular medicine
- evaluate new techniques and diagnostic/interventional procedures in cardiothoracic and vascular anesthesiology
- assemble a network of professional colleagues with whom to exchange information about the practice of cardiovascular and thoracic anesthesiology.

Wireless Connection

SSID (Network Name): Marquis_CONF
Password: SCA@2015

Contents

CME Accreditation	4
Washington Marriott Marquis Floor Plans	5
Faculty	8
Schedule	16
Workshops	25
Fellow/Junior Faculty Program	28
PBLDs	29
Scientific Abstracts and Posters	30
Resident/Fellow Complex Case Presentations	43
Sponsors	56
Exhibit Schedule	57
Exhibitors	57
SCA Committee Meeting Schedule	58
Commercial Support	58

General Information

CME Accreditation

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

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

37th Annual Meeting

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

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

Workshops

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

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

Problem-Based Learning Discussions (PBLDs)

The registration fee includes a continental breakfast and the electronic syllabus.

Designation: The Society of Cardiovascular Anesthesiologists designates this live activity for a maximum of 1.25 AMA PRA Category 1 Credit(s)TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Disclaimer

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

Claim Your CME

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

Photography

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



Make sure to follow our Scientific Program Committee Chair on Twitter @andysaw007. Use #SCA2015 when tweeting or posting on Facebook about the meeting.

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



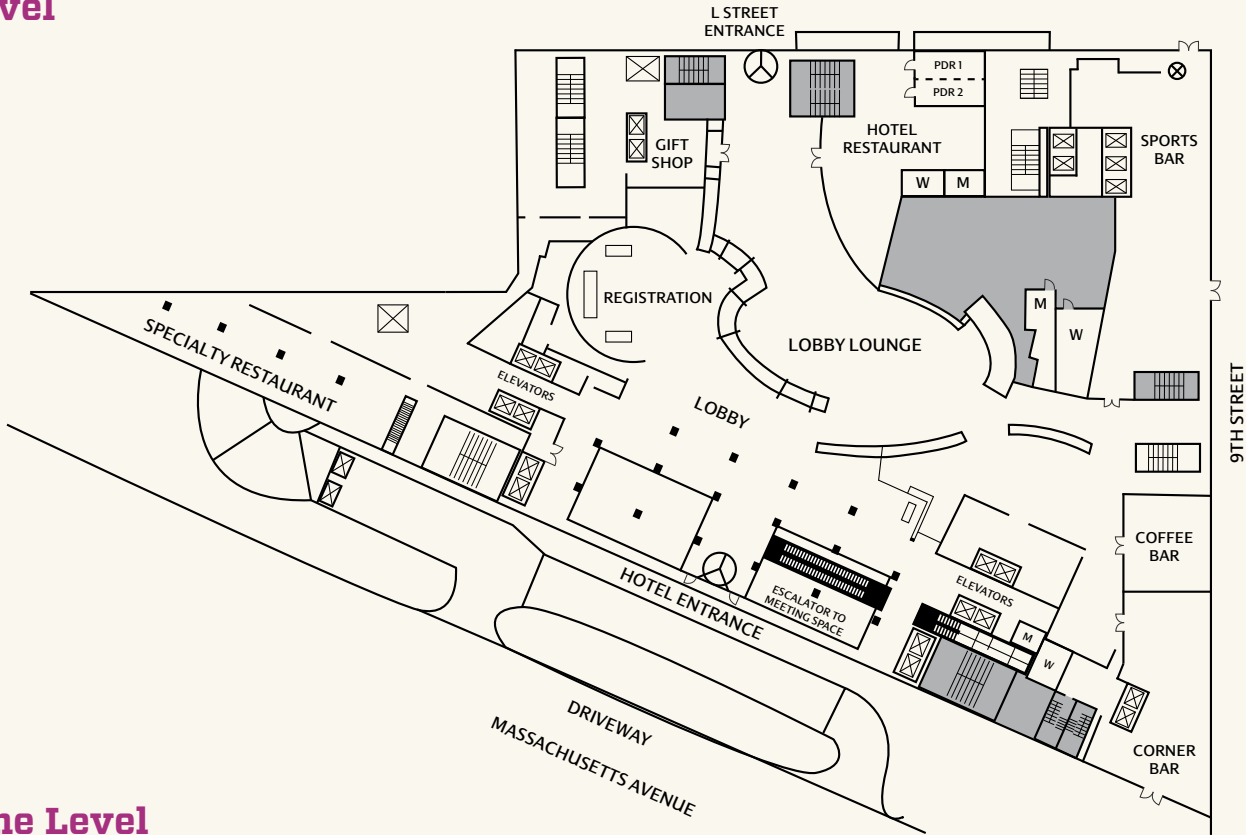
Annual Meeting & Workshops Mobile App

Capture this QR code with your mobile device, or visit <http://eventmobi.com/SCA2015> to take advantage of our mobile app.

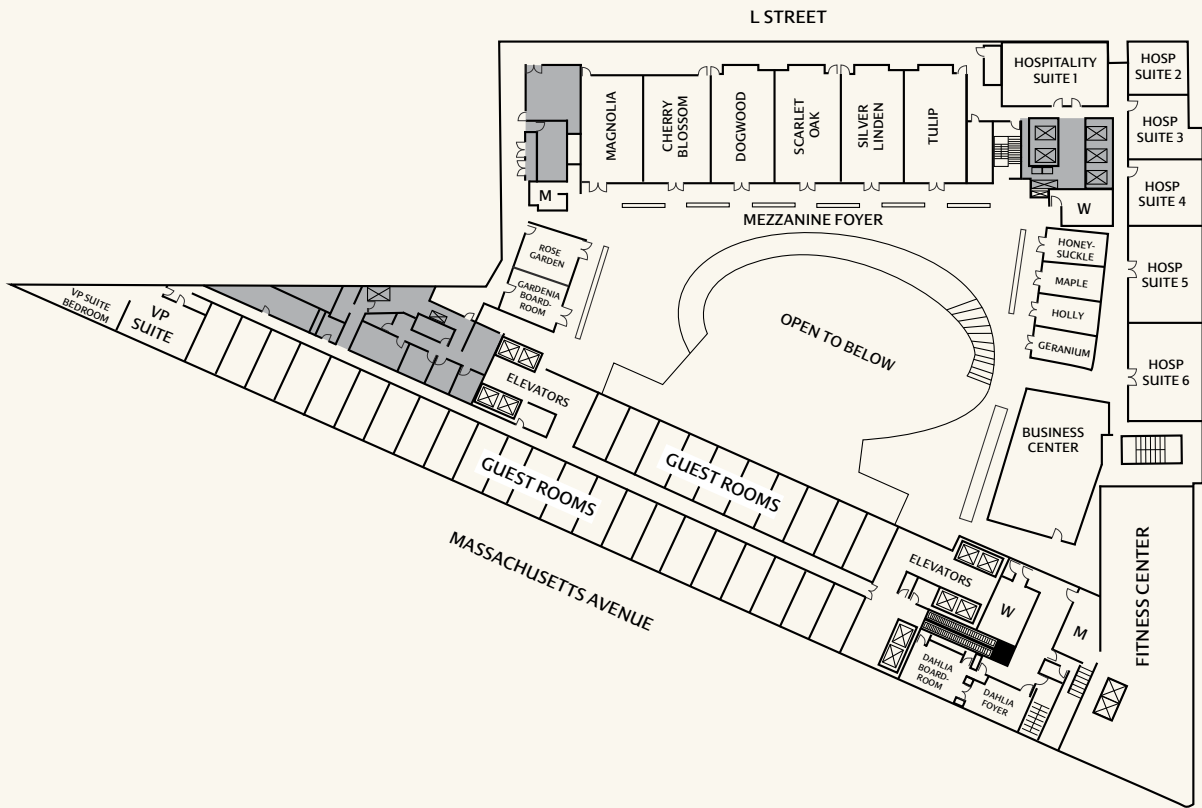


Washington Marriott Marquis Floor Plans

Lobby Level

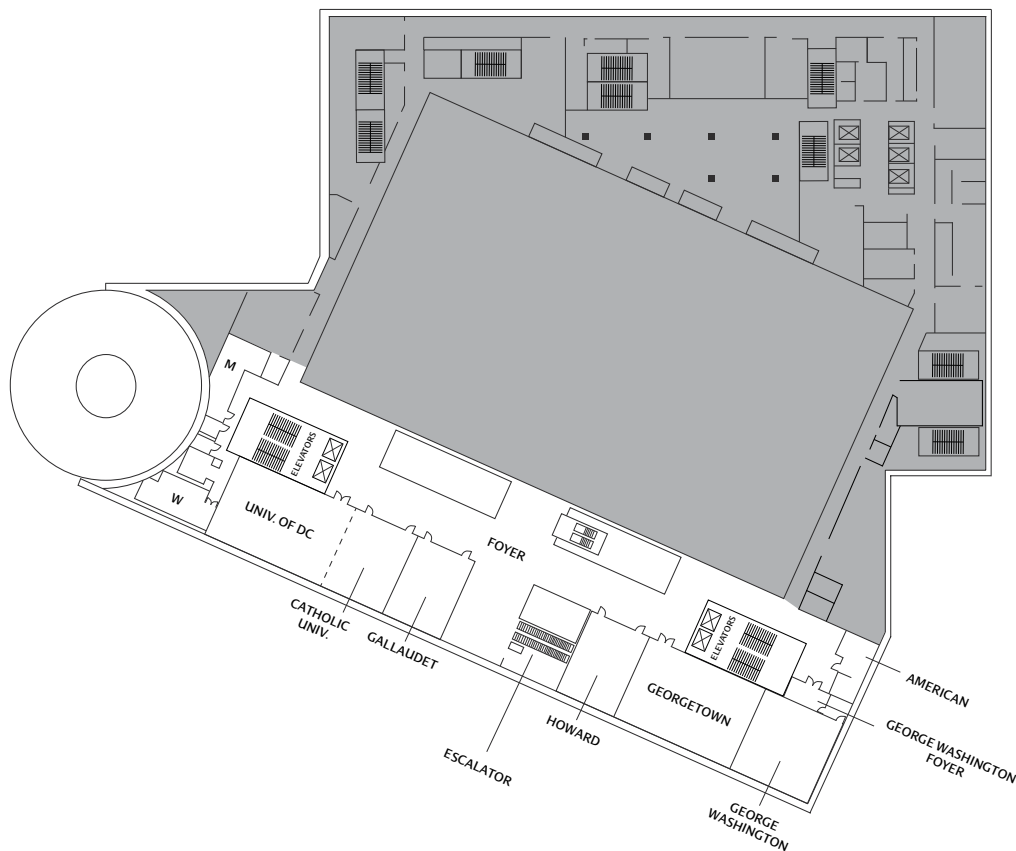


Mezzanine Level



Washington Marriott Marquis Floor Plans

Meeting Level 1

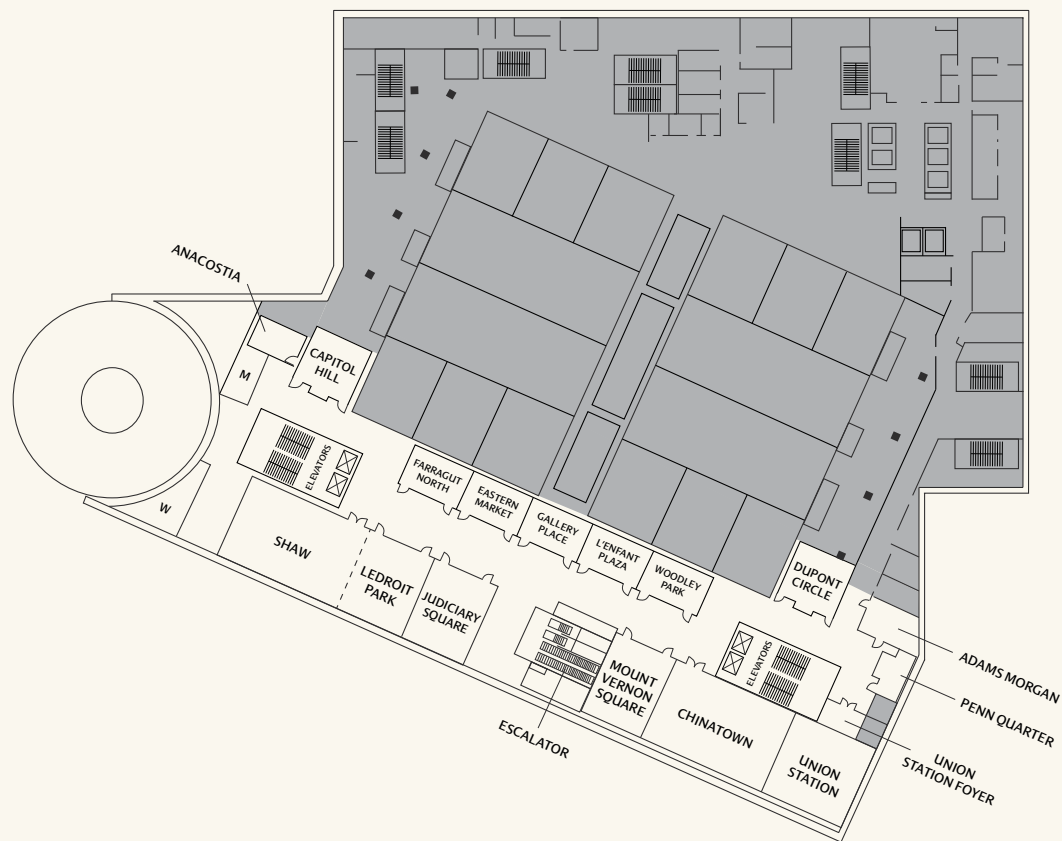


Meeting Level 2



Washington Marriott Marquis Floor Plans

Meeting Level 3



Meeting Level 4



Faculty

Disclosures

Nature of Relationship Key

- | | | |
|---|---|---------------------------|
| 1. No relationship with commercial supporters | 6. Other | 10. Royalties |
| 2. Research support | 7. Faculty member will discuss and disclose unlabeled drug uses during presentation | 11. Advisory Board member |
| 3. Speakers' bureau | 8. Client | 12. Board of Directors |
| 4. Consultant | 9. Principal Investigator | 13. Founder |
| 5. Stockholder | | 14. Education |

Disclosure Policy

It is the policy of the Society of Cardiovascular Anesthesiology (SCA) that the planners, faculty, and this provider disclose the existence of any significant financial interest or other relationships that they or their spouse or partner may have with the manufacturer(s) of any commercial product(s) or services relating to the topics presented in the educational activity. SCA also requires disclosure of the intent to discuss unlabeled uses of a commercial product or investigational use of a product not yet approved for this purpose. It is the responsibility of the Scientific Program Committee to review potential conflicts of interest as submitted in the disclosure form and resolve such conflicts. Resolving the conflict ensures that the content of the activity is aligned with the interests of the public. Detailed disclosure information will be made available to attendees, who will also be informed when no relevant financial relationships exist.

James H. Abernathy, III, MD MPH FASE FAHA

Associate Professor
Chief, Division of Cardiothoracic Anesthesiology
Department of Anesthesia and Perioperative Medicine
Medical University of South Carolina
Charleston, SC
Disclosures: Pharmedium, 9

Abbas Al-Qamari, MD

Assistant Professor
Department of Anesthesiology
Feinberg School of Medicine
Northwestern University
Chicago, IL
Disclosures: 1

Erik P. Anderson, MD

Staff Anesthesiologist
University of Vermont
Fletcher Allen Healthcare
South Burlington, VT
Disclosures: 1

Ron Angona, MS CCP

Chief Perfusionist
ECMO Coordinator
University of Rochester Medical Center
Rochester, NY
Disclosures: 1

Ioanna Apostolidou, MD

Associate Professor
Director, Cardiothoracic Anesthesiology Fellowship
Division Chief, Cardiothoracic Anesthesiology
University of Minnesota
Minneapolis, MN
Disclosures: 1

Solomon Aronson, MD MBA FACC FACP FAHA FASE

Professor
Duke University School of Medicine
Director Business Development
Duke Private Diagnostic Clinic
Executive Vice Chairman,
Department of Anesthesiology
Duke University
Durham, NC
Disclosures: the medicine company, 4

John G. Augoustides, MD FASE FAHA

Associate Professor
Director, Transcatheter Aortic Valve Replacement
Anesthesiology and Critical Care
Perelman School of Medicine
University of Pennsylvania
Philadelphia, PA
Disclosures: 1

Jae-Hyon Bahk, MD PhD

Professor
Department of Anesthesiology
Seoul National University Hospital
Seoul, Korea
Disclosures: Edwards Lifesciences Korea, 4

Daniel Bainbridge, MD FRCPC

Associate Professor
Department of Anesthesiology and Perioperative Medicine
Western University Canada
London, ON, Canada
Disclosures: 1

Dalia Banks, MD FASE

Associate Clinical Professor
University of California San Diego
Director, Cardiothoracic Anesthesiology Fellowship
Division Chief, Cardiothoracic Anesthesiology
Clinical Director, Sulpizio CVC and PTU
San Diego, CA
Disclosures: 1

Julian Barker, MD MBChB MRCP FRCA FFICM

Director of ECMO & Lead Clinician for Cardiothoracic Critical Care and Cardiothoracic Anesthesia
University Hospital of South Manchester
Wythensawe, United Kingdom
Disclosures: 1

Karsten Bartels, MD

Assistant Professor, Anesthesiology and Surgery
Department of Anesthesiology
University of Colorado Denver
Denver, CO
Disclosures: 1

Wendy K. Bernstein, MD MBA

Associate Professor
Department of Anesthesiology
Director, Simulation Program
Director, Cardiothoracic Anesthesia Fellowship Program
University of Maryland School of Medicine
Baltimore, MD
Disclosures: Astra Zeneca, 6

Julian Stephens Bick, MD

Assistant Professor, Clinical Anesthesiology
Division of Adult Cardiothoracic Anesthesiology
Department of Anesthesiology
Vanderbilt University Medical Center
Nashville, TN
Disclosures: 1

Mary Beth Brady, MD FASE

Director, Intraoperative TEE Program
Johns Hopkins University School of Medicine
Baltimore, MD
Disclosures: 1

Tara Brakke, MD FASE

Chief, Division of Cardiovascular Anesthesiology
Director, Cardiothoracic Anesthesiology Fellowship
University of Nebraska Medical Center
Omaha, NE
Disclosures: 1

Jeffrey A. Brinker, MD FACC FSCAI

Johns Hopkins University
Baltimore, MD
Disclosures: 1

Marek Brzezinski, MD PhD

Associate Professor
Department of Anesthesia and Perioperative Care
University of California, San Francisco
San Francisco, CA
Disclosures: Grifols, 3

Faculty

Mark A. Chaney, MD

Professor
Director, Cardiac Anesthesia
Program Director, Adult
Cardiothoracic Fellowship
Department of Anesthesia and
Critical Care
University of Chicago
Chicago, IL
Disclosures: 1

Lakhmir Chawla, MD

Chief, Division of Intensive Care
Medicine
U.S. Department of Veterans Affairs
Washington, DC
Disclosures: Abbvie, 4; Astute
Medical, 4; Alere Medical, 4;
La Jolla Pharmaceutical, 4;
Pfizer, 4; Bard Medical, 4;
Nxstage Medical, 4; Baxter
Medical, 4

Yee Eot Chee, MBBS MHA MA FANZCA FHKAM PGDipECHO PTEeXAM ASCeXAM

Honorary Clinical Associate Professor
Consultant
Queen Mary Hospital
Hong Kong University
Pok Fu Lam, Hong Kong
Disclosures: 1

Davy Cheng, MD MSc FRCP FCAHS CCPE

Distinguished University Professor
and Chair/Chief, Department of
Anesthesia and Perioperative
Medicine
Professor, Critical Care Division
Department of Medicine
Western University
London, ON, Canada
Disclosures: 1

Albert T. Cheung, MD

Professor
Department of Anesthesiology
Division Chief, Cardiothoracic
Anesthesiology
Program Director, Adult
Cardiothoracic Anesthesiology
Stanford University School of
Medicine
Stanford, CA
Disclosures: Covidien, 4; Uptodate, 6

Sophia Chew, MMED (Anaes) MBBS FANZCA

Senior Consultant
Department of Anesthesiology
Singapore General Hospital
Singapore
Disclosures: 1

Y-F Chow, MD MBBS FANZCA FHKCA FHKAM PG Dip Echo MSc

Doctor
Queen Elizabeth Hospital
Kowloon Central Cluster, Hospital
Authority
Kowloon, Hong Kong
Disclosures: 1

C. David Collard, MD MS

Professor and Chief, Anesthesia
Baylor St. Luke's Medical Center
Texas Heart Institute
Houston, TX
Disclosures: 1

R. Lebron Cooper, MD

Professor, Anesthesiology
Wayne State University School of
Medicine
Director, Clinical Operations,
Structural Heart Disease
Catheterization Labs
Interim Chief, Cardiovascular
Anesthesiology
Chief, Research and Quality
Assurance
Department of Anesthesiology
Henry Ford Hospital
Detroit, MI
Disclosures: 1

William (Skip) C. Culp, Jr., MD FASE

Professor
Department of Anesthesiology
Scott & White Hospital
The Texas A&M University System
Health Science Center College
of Medicine
Temple, TX
Disclosures: Self, 6

Ellen M. Dailor, MD

Director, Cardiac Anesthesiology
Division
Director, Cardiothoracic
Anesthesiology Fellowship
Department of Anesthesiology
University of Rochester School of
Medicine and Dentistry
Rochester, NY
Disclosures: 1

David J. Daly, MBBS FANZCA MCLinEpi

Staff Anaesthetist
Alfred Hospital
Senior Lecturer
Monash University
Melbourne, Victoria, Australia
Disclosures: Neurosave Inc., 2;
Slater and Gordon Lawyers, 6;
Stringer Clark Lawyers, 6;
Maurice Blackburn Lawyers, 6;
Holding Redlich Lawyers, 6

Subid Ranjan Das, MBBS FRCA FFARCSI FHKCA FHKAM (Anaes)

Doctor/Consultant
Chief of Service, Department of
Cardiothoracic Anaesthesia
Queen Mary Hospital
Hong Kong, SAR China
Disclosures: 1

Laurie Davies, MD

Associate Professor
Anesthesiology and Surgery
University of Florida
Gainesville, FL
Disclosures: 1

Robert J. Deegan, MB BCH PhD

Associate Professor, Clinical
Anesthesiology
Vanderbilt University Medical
Center
Nashville, TN
Disclosures: 1

J. Mauricio Del Rio, MD

Assistant Professor, Anesthesiology
Division of Cardiothoracic
Anesthesiology and Critical
Care Medicine
Department of Anesthesiology
Duke University School of Medicine
Duke University Medical Center
Durham, NC
Disclosures: 1

Georges Desjardins, MD FRCP FASE

Associate Professor
University of Montreal
Department of Anesthesiology
Montreal Heart Institute
Montreal, QC, Canada
Disclosures: 1

Frank C. Detterbeck, MD

Professor and Chief, Thoracic
Surgery
Yale University School of Medicine
New Haven, CT
Disclosures: Lily Oncology, 3;
Medela, 4

Stefan J. M. Dieleman, MD

Cardiac Anesthesiologist
Department of Anesthesiology,
Intensive Care, and Emergency
Medicine
University Medical Center Utrecht
Utrecht, Netherlands
Disclosures: 1

James A. DiNardo, MD

Professor, Anesthesia
Harvard Medical School
Chief, Division of Cardiac
Anesthesia
Francis X. McGowan, Jr., MD, Chair
in Cardiac Anesthesia
Boston Children's Hospital
Boston, MA
Disclosures: 1

George Djaiani, MD FRCA FRCP

Associate Professor, Anesthesia
University of Toronto
Toronto General Hospital
Toronto, ON, Canada
Disclosures: Hospira, 9

Uriah Dudgeon, MHS CCP

Cardiovascular Perfusionist
Massachusetts General Hospital
Boston, MA
Disclosures: 1

Andra E. Duncan, MD MS

Assistant Professor
Department of Anesthesiology
Cleveland Clinic Lerner College of
Medicine
Cleveland Clinic
Cleveland, OH
Disclosures: Fresenius Kabi, 9

Michael P. Eaton, MD

Denham S. Ward Professor and
Chair of Anesthesiology
University of Rochester School of
Medicine and Dentistry
Rochester, NY
Disclosures: 1

Balthasar Eberle, MD

Associate Professor
Director, Cardiovascular Anesthesia
Department of Anesthesiology and
Pain Medicine
Inselspital, Bern University Hospital
Bern, Switzerland
Disclosures: 1

Joerg Ender, MD

Director
Department of Anesthesiology and
Intensive Care Medicine
Heart Center, Leipzig University
Leipzig, Germany
Disclosures: 1

Stephen A. Esper, MD MBA

Assistant Professor, Anesthesiology
University of Pittsburgh
Pittsburgh, PA
Disclosures: 1

Adam S. Evans, MD MBA

Assistant Professor
Icahn School of Medicine at Mount
Sinai
New York, NY
Disclosures: 1

Stephanie Fischer, MB BCH FCA(SA)

Dunkeld Anesthetic Practice
Johannesburg, South Africa
Disclosures: 1

Faculty

David C. Fitzgerald, BS CCP

Cardiac, Vascular & Thoracic
Surgical Associates, PC
Bristow, VA
Disclosures: 1

Amanda A. Fox, MD MPH

Associate Professor
University of Texas Southwestern
Medical Center
Dallas, TX
Disclosures: 1

John A. Fox, MD

Assistant Professor, Anesthesiology
Harvard Medical School
Director, Intraoperative Ultrasound
Assistant Director, Cardiac
Anesthesiology
Department of Anesthesiology,
Perioperative and Pain
Medicine
Brigham and Women's Hospital
Boston, MA
Disclosures: 1

Carlos Galhardo, Jr., MD

Chief, Anesthesiology Department
Unimed Rio Hospital
Consultant Anesthesiologist
National Institute of Cardiology
Rio de Janeiro, Brazil
Disclosures: 1

Brian J. Gelfand, MD FACS

Chief Intensivist
Cardiovascular Intensive Care Unit
University of Florida
Gainesville, FL
Disclosures: 1

Kam Ghadimi, MD

Assistant Professor
CT Anesthesia and Critical Care
Duke University School of Medicine
Durham, NC
Disclosures: 1

Mo Ghotbi, MD

Chief, Cardiovascular
Anesthesiology
Kaiser Foundation Hospital
San Francisco, CA
Disclosures: 1

Tony Gin, MD

Chair, Department of Anesthesia &
Intensive Care
Chinese University of Hong Kong
Hong Kong
Disclosures: 1

Kathryn Glas, MD MBA FASE

Professor, Anesthesiology
Director, Cardiothoracic
Anesthesiology
Emory University School of
Medicine
Atlanta, GA
Disclosures: LWW, 10

Donna Greenhalgh, MBChB

FRCA FFICM

Consultant, Cardiothoracic
Anaesthesia and Intensive Care
University Hospital of South
Manchester
Manchester, UK
Disclosures: 1

David Grenda, MD PhD

Department of Anesthesiology
Emory University
Disclosures: 1

Hilary P. Grocott, MD FRCP FASE

Professor
Departments of Anesthesiology,
Perioperative Medicine, and
Surgery
University of Manitoba
Winnipeg, MB, Canada
Disclosures: 1

Michael P. W. Grocott, MBBS MD BSc FRCA FRCP FFICM

Professor, Anaesthesia and Critical
Care Medicine
University of Southampton
Southampton, UK
Disclosures: 1

Robert C. Groom, CCP MS

Director, Cardiovascular Perfusion
Maine Medical Center
Portland, ME
Disclosures: 1

Wendy L. Gross, MD MHCM

Assistant Professor, Anesthesiology
Brigham and Women's Hospital
Boston, MA
Disclosures: 1

Fabio Guarracino, MD

Head, Department of Anaesthesia
and Critical Care Medicine
Director, Cardiothoracic
Anaesthesia and Intensive Care
Azienda Ospedaliero Universitaria
Pisana
Pisa, Italy
Disclosures: 1

Jacob T. Gutsche, MD

Assistant Professor
Perelman School of Medicine
University of Pennsylvania
Philadelphia, PA
Disclosures: 1

Kevin W. Hatton, MD FCCM

Chief, Division of Anesthesiology
Critical Care Medicine
Associate Professor,
Anesthesiology and Surgery
University of Kentucky College of
Medicine
Lexington, KY
Disclosures: 1

Nina C. Hauck-Weber, PhD

Department of Anesthesiology
Laboratory of Experimental
Intensive Care and
Anesthesiology L.E.I.C.A.
University of Amsterdam (AMC)
Amsterdam, Netherlands
Disclosures: 1

Paul M. Heerdt, MD PhD FCCP

Professor, Anesthesiology and
Pharmacology
Weill Cornell Medical College
New York, NY
Disclosures: Cheetah Medical, 9;
Dolphys/Ventinova, 9

Hugh Hemmings, MD PhD FRCA

Joseph F. Artusio Professor and
Chair, Anesthesiology
Professor, Pharmacology
Weill Cornell Medical College
Anesthesiologist-in-Chief
NewYork-Presbyterian Hospital/
Weill Cornell
New York, NY
Disclosures: Elsevier, 4; Becton
Dickinson, 4; Cadence, 9

Nadia Hensley, MD

Johns Hopkins University
Baltimore, MD
Disclosures: 1

Antonio Hernandez, MD

Associate Professor, Clinical
Anesthesiology
Division of Critical Care
Medicine & Cardiothoracic
Anesthesiology
VUMC Department of
Anesthesiology
Nashville, TN
Disclosures: 1

Eugene A. Hessel, II, MD FACS

Professor, Anesthesia, Surgery
(Cardiothoracic), Neurosurgery,
and Pediatrics
University of Kentucky College of
Medicine
Lexington, KY
Disclosures: 1

Lauren L. Hill, MD MBA

Professor and Chair, Department of
Anesthesiology
Emory University School of
Medicine
Atlanta, GA
Disclosures: 1

Steven E. Hill, MD

Professor, Anesthesiology
Division Chief, Cardiothoracic
Anesthesiology and Critical Care
Medical Codirector, Clements
University Hospital
Cardiovascular ICU
University of Texas Southwestern
Medical Center
Dallas, TX
Disclosures: 1

Jonathan Ho, MD

Associate Professor,
Anesthesiology
Cochief, Cardiac Anesthesiology
Director of Perioperative
Echocardiography
University of California, Los Angeles
Los Angeles, CA
Disclosures: 1

Charles W. Hogue, MD

Professor, Anesthesia and Critical
Care
Johns Hopkins University School of
Medicine
Baltimore, MD
Disclosures: Covidien, 9; CSL
Behring, 4; Grifols, 11; Ornim, 11

Kimberly Howard-Quijano, MD MS

Assistant Clinical Professor,
Anesthesiology
Cochief, Cardiothoracic
Anesthesiology
Associate Director, Cardiovascular
Research
David Geffen School of Medicine
at UCLA
Los Angeles, CA
Disclosures: 1

Nian Chih Hwang, MBBS

FFARCSI FAMS GDACu
Head, Department of
Cardiothoracic Anaesthesia
National Heart Centre, Singapore
Senior Consultant and
Director, Cardiothoracic
Anesthesia Service
Department of Anaesthesiology
Singapore General Hospital
Professor
Office of Education
Duke-NUS Graduate Medical
School
Singapore
Disclosures: 1

Faculty

Eric Jacobsohn, MBChB MHPE FRCPC

Professor and Head, University of Manitoba Department of Anesthesia
Medical Director, WRHA Anesthesia Program
University of Manitoba
Winnipeg, MB, Canada
Disclosures: 1

Gregory M. Janelle, MD FASE

Associate Professor,
Anesthesiology and Surgery
Chief, Division of Cardiothoracic Anesthesia
University of Florida College of Medicine
Gainesville, FL
Disclosures: 1

Srdjan Jelacic, MD

University of Washington
Seattle, WA
Disclosures: 1

Yunseok Jeon, MD

Associate Professor,
Anesthesiology
Seoul National University Hospital
Seoul, Korea
Disclosures: 1

Philip Jones, MD MSc (Clin Trials) FRCPC

Associate Professor
University of Western Ontario
London, ON, Canada
Disclosures: 1

Ravi Vivekanand Joshi, MD

Associate Professor,
Anesthesiology
University of Texas Southwestern Medical Center
Dallas, TX
Disclosures: 1

Suhaini Kadiman, MD

Deputy Head of Department
Director, Clinical Research
Adjunct Professor, Cardiovascular Engineering
National Heart Institute
Kuala Lumpur, Malaysia
Disclosures: 1

Keyvan Karkouti, MD FRCPC MSc

Associate Professor
Department of Anesthesia
University Health Network
Toronto General Hospital
University of Toronto
Toronto, ON, Canada
Disclosures: Octapharma, 9; Baxter, 9; TEM, 9; Helena, 9; CSL Behring, 6; Octapharma, 11

Jason D. Kennedy, MD

Assistant Professor, Anesthesiology and Critical Care Medicine
Department of Anesthesiology
Vanderbilt
Nashville, TN
Disclosures: 1

Andrew Klein, MD FRCA

Consultant, Anaesthesia and Intensive Care
Papworth Hospital
Cambridge, UK
Disclosures: Brightwake UK Ltd, 9; CSL Behring, 9; Covidien, 3

Matthew A. Klopman, MD FASE

Emory University School of Medicine
Disclosures: 1

Colleen Koch, MD MS MBA FACC

Mark C. Rogers Professor,
Anesthesiology
Chair, Department of Anesthesiology and Critical Care Medicine
Johns Hopkins Medicine
Baltimore, MD
Disclosures: 1

Logan Kosarek, MD

Staff Anesthesiologist
Ochsner Medical Center
New Orleans, LA
Disclosures: 1

Priya A. Kumar, MD

Professor, Anesthesiology
University of North Carolina at Chapel Hill
Chapel Hill, NC
Disclosures: 1

Jonathan D. Leff, MD

Chief, Cardiothoracic Anesthesiology
Director, Cardiothoracic Anesthesia Fellowship
Associate Professor, Clinical Anesthesiology
Montefiore Medical Center
Bronx, NY
Disclosures: Casmed Systems, 4

Sophia ANG Bee Leng, MD

Senior Consultant
Anaesthesia Department
National University Hospital
Singapore
Singapore
Disclosures: 1

Jerrold H. Levy, MD FAHA FCCM

Professor, Anesthesiology
Associate Professor, Surgery
Codirector, Cardiothoracic ICU
Duke University School of Medicine
Durham, NC
Disclosures: Boehringer-Ingelheim, 6; CSL Behring, 6; Grifols, 6; Janssen, 11; Portola, 11

Marc Licker, MD

Professor, Faculty of Medicine
University of Geneva
Director of Cardiovascular, Thoracic, and Emergency Anesthesia
University Hospital Geneva
Geneva, Switzerland
Disclosures: 1

Martin J. London, MD

Professor, Clinical Anesthesia
University of California, San Francisco
San Francisco, CA
Disclosures: 1

James J. Lynch, MD

Assistant Professor, Anesthesiology
Mayo Clinic
Rochester, MN
Disclosures: 1

Michael J. Mack, MD

Baylor Scott & White Health
Plano, TX
Disclosures: 1

G. Burkhard Mackensen, MD PhD FASE

Chief, Division of Cardiothoracic Anesthesiology
UW Medicine Research and Education Endowed Professor, Anesthesiology
Adjunct Professor, Medicine
Department of Anesthesiology and Pain Medicine
University of Washington Medicine
Regional Heart Center (RHC)
University of Washington
Seattle, WA
Disclosures: 1

Aman Mahajan, MD PhD

Professor and Chair, Anesthesiology
David Geffen School of Medicine at UCLA
Los Angeles, CA
Disclosures: 1

Feroze Mahmood, MD

Associate Professor,
Anesthesiology
Beth Israel Deaconess Medical Center
Boston, MA
Disclosures: 1

Yasdet Maldonado, MD

Assistant Professor, Anesthesiology
Temple University School of Medicine
Allegheny Health Network
Pittsburgh, PA
Disclosures: 1

Jonathan B. Mark, MD

Professor, Anesthesiology
Duke University Medical Center
Chief, Anesthesiology Service
Veterans Affairs Medical Center
Durham, NC
Disclosures: 1

Nicholas W. Markin, MD

Assistant Professor
Department of Anesthesia
University of Nebraska Medical Center
Omaha, NE
Disclosures: 1

Janet Martin, PharmD PhD

Director, Centre for Medical Evidence, Decision Integrity and Clinical Impact (MEDICI)
Assistant Professor
Department of Anesthesia and Perioperative Medicine
Department of Epidemiology and Biostatistics
Schulich School of Medicine and Dentistry
Western University
London, ON, Canada
Disclosures: 1

C. David Mazer, MD

Professor, Anesthesia
St. Michael's Hospital
University of Toronto
Toronto, ON, Canada
Disclosures: Thrasos Innovations, 6; Allocure Inc, 6; Fresenius Kabi, 9; CSL Behring, 6

Shay McGuinness, MBChB FRCA FANZCA FFICM

Specialist, Cardiothoracic and Vascular ICU
Auckland City Hospital
Auckland, New Zealand
Disclosures: Baxter Healthcare, 3; Edwards Lifescience, X; Fisher & Paykel Healthcare, 2

Yatin Mehta, MD MNAMS FRCA FAMS

Chairman
Medanta Institute of Critical Care & Anesthesiology
Medanta The Medicity
Haryana, India
Disclosures: 1

Faculty

Alexander Mittnacht, MD FASE

Professor, Anesthesiology
Director, Pediatric Cardiac
Anesthesia
Icahn School of Medicine at Mount
Sinai
New York, NY
Disclosures: Abiomed, 3; Casmel, 3;
Manual Surgical, 4

K. Annette Mizuguchi, MD PhD MMSc

Assistant Professor
Brigham and Women's Hospital
Boston, MA
Disclosures: ptemasters.com, 5

Candice R. Montzingo, MD FASE

Associate Professor
Director of Education, Division of
Cardiothoracic Anesthesia
Department of Anesthesiology
University of Utah
Salt Lake City, UT
Disclosures: 1

Jose Mariano Soares de Moraes, MD PhD

Physician and Medical Director
Hospital Monte Sinai
Suprema Medical School
Juiz De Fora-MG
Brazil
Disclosures: 1

J. Daniel Muehlschlegel, MD MMSc FAHA

Director, Cardiovascular Anesthesia
Research
Associate Professor, Anesthesia
Harvard Medical School
Department of Anesthesiology,
Perioperative and Pain Medicine
Brigham and Women's Hospital
Boston, MA
Disclosures: 1

Chirojit Mukherjee, MD

Director, Fellowship Program and
Senior Consultant
Anesthesia and Intensive Care
Heart Center
Leipzig, Germany
Disclosures: 1

Viviane G. Nasr, MD

Assistant Professor, Anesthesia
Harvard Medical School
Boston Children's Hospital
Boston, MA
Disclosures: 1

J. Prince Neelankavil, MD

Program Director, Cardiothoracic
Fellowship
University of California, Los
Angeles
Los Angeles, CA
Disclosures: 1

Mark T. Nelson, MD MED

Assistant Professor, Anesthesiology
Virginia Commonwealth University
Richmond, VA
Disclosures: 1

Arne Neyrinck, MD PhD

Associate Professor
Department of Anesthesiology
University Hospital Leuven
Leuven, Belgium
Disclosures: Air Liquide France, 6

Alina Nicoara, MD FASE

Assistant Professor, Anesthesiology
Director, Perioperative
Echocardiography
Duke University Medical Center
Durham, NC
Disclosures: 1

Georgios (George) Nicolaou, MB BCH FRCP

Associate Professor and Chief,
Anesthesia
Director and Fellowship
Coordinator, Thoracic and
Vascular Anesthesia
Department of Anesthesia and
Perioperative Medicine
Western University
London Health Sciences Centre
Victoria Hospital
London, ON, Canada
Disclosures: 1

Laura Niklason, MD

Yale University
New Haven, CT
Disclosures: Humacyte, Inc, 12

Minoru Nomura, MD PhD

Professor and Director,
Cardiovascular Anesthesia
Tokyo Women's Medical College
Shinju-Ku, Tokyo, Japan
Disclosures: 1

Florian Nuevo, MD

Disclosures: 1

Nancy A. Nussmeier, MD

Massachusetts General Hospital
Boston, MA
Disclosures: UpToDate (Wolters
Kluwer Health), 6

Gregory A. Nuttall, MD

Professor, Anesthesiology
Mayo Clinic College of Medicine
Rochester, MN
Disclosures: 1

Daryl Oakes, MD

Clinical Associate Professor
Department of Anesthesiology,
Perioperative and Pain
Medicine
Stanford University Medical Center
Stanford, CA
Disclosures: 1

E. Andrew Ochroch, MD MSCE

Associate Professor, Anesthesia,
Critical Care, and Surgery
University of Pennsylvania
Philadelphia, PA
Disclosures: 1

Makoto Ozaki, MD

Professor and Chair, Department of
Anesthesiology
Tokyo Women's Medical University
Shinju-Ku, Tokyo, Japan
Disclosures: Johnson & Johnson,
Japan, 11; Masimo Japan, 11

Wendy L. Pabich, MD

Cardiac Anesthesiologist
Physicians Anesthesia Service
Swedish Medical Center
Seattle, WA
Disclosures: Pensar Development,
13

Sarah Henrickson Parker, PhD

Director, Education and Academic
Affairs
Human Factors Research Scientist
National Center for Human Factors
in Healthcare
MedStar Health
Washington, DC
Disclosures: 1

Ronald Pauldine, MD

Clinical Professor
Department of Anesthesiology and
Pain Medicine
University of Washington
Seattle, WA
Disclosures: 1

Yong G. Peng, MD PhD FASE

Associate Professor,
Anesthesiology
Director, Cardiothoracic Fellowship
Program
Director, Perioperative Transesoph-
ageal Echocardiography
University of Florida College of
Medicine
Gainesville, FL
Disclosures: 1

Albert Perrino, Jr., MD

Professor, Anesthesiology
Yale School of Medicine
Chief, Anesthesiology
VA Connecticut Healthcare System
New Haven, CT
Disclosures: 1

Paul Pisklak, MD

Staff Intensivist
Cardiac Anesthesiologist
Texas Heart Institute
CHI Baylor St. Luke's Medical
Center
Houston, TX
Disclosures: 1

Andrew Pitkin, MRCP FRCA

Assistant Professor
University of Florida
Gainesville, FL
Disclosures: 1

Mihai V. Podgoreanu, MD FASE

Associate Professor with Tenure
Chief, Division of Cardiothoracic
Anesthesia and Critical Care
Director, Perioperative Genomics
Program
Department of Anesthesiology
Duke University
Durham, NC
Disclosures: 1

Wanda M. Popescu, MD

Associate Professor
Anesthesiology
Yale University School of Medicine
New Haven, CT
Disclosures: 1

Mias Pretorius, MBChB MSCI

Associate Professor
Anesthesiology and Clinical
Pharmacology
Director, Adult Cardiothoracic
Anesthesia Fellowship
Division of Cardiothoracic
Anesthesia
Vanderbilt University School of
Medicine
Nashville, TN
Disclosures: 1

Marco Ranucci, MD FESC

Head, Cardiothoracic and
Vascular Anesthesia and ICU
Department
IRCCS Policlinico San Donato
Milan, Italy
Disclosures: CSL Behring, 3; Sorin
Group, 4; Medtronic Inc, 3;
Roche Diagnostics, 3; Grifols
SA, 3

Srikantha Rao, MBBS MD MS

Associate Professor
Anesthesiology
Division Director, Cardiac and
Vascular Anesthesia
Program Director, Adult
Cardiothoracic Anesthesia
Fellowship
PennState College of Medicine
Milton S. Hershey Medical Center
Hershey, PA
Disclosures: 1

Faculty

Scott T. Reeves, MD MBA FACC FASE

President, Society of Cardiovascular Anesthesiologists
The John E. Mahaffey, MD,
Professor and Chairman
Anesthesia and Perioperative
Medicine
Medical University of South Carolina
Charleston, SC
Disclosures: 1

Matthias L. Riess, MD PhD

Professor
Department of Anesthesiology
Vanderbilt University
Staff Anesthesiologist
TVHS VA Medical Center
Nashville, TN
Disclosures: 1

J. Devin Roberts, MD

Assistant Professor, Anesthesiology
Department of Anesthesiology and
Critical Care Medicine
University of Chicago Medical Center
Chicago, IL
Disclosures: 1

Michael F. Roizen, MD

Chief Wellness Officer
Cleveland Clinic
Cleveland, OH
Disclosures: Other, 11

Peter M. J. Rosseel, MD

Anesthesiologist
Amphia Hospital
Breda, Netherlands
President, European Association
of Cardiothoracic
Anaesthesiologists
Department of Anaesthesia and
Intensive Care
Disclosures: 1

Kathryn Rouine-Rapp, MD

Professor, Anesthesia
University of California, San
Francisco
San Francisco, CA
Disclosures: 1

Colin Royse, MD MBBS FANZCA

Professor, Anaesthesia
University of Melbourne
Melbourne, Victoria, Australia
Disclosures: Heartweb Pty Ltd, 5;
iTEACHU PTY LTD, 5

Michael Sander, MD

Vice Chair, Department of
Anesthesiology and Intensive
Care Medicine
Charité-Universitätsmedizin Berlin
Berlin, Germany
Disclosures: Pulsion Medical
Systems, 3; Edwards Life
Sciences, 3; Pulsion Medical
Systems, 9; Edwards Life
Sciences, 9

Robert M. Savage, MD FACC

Vice Chair, Department of
Cardiothoracic Anesthesia
Head, Sections of Perioperative
Echocardiography
Chair, Critical Response and
Resuscitation
Anesthesiology Institute, Heart &
Vascular Institute
Cleveland Clinic
Cleveland, OH
Disclosures: 1

Peter Schulman, MD

Associate Professor
Department of Anesthesiology and
Preoperative Medicine
Oregon Health & Science
University
Portland, OR
Disclosures: Boston Scientific, 9

Manfred D. Seeberger, MD

Professor
Anesthesia and Intensive Care
University of Basel
Head of Anesthesia, Klinik
Hirslanden Zurich
Zurich, Switzerland
Disclosures: 1

Patricia C. Seifert, MSN RN FAAN

Educator, Cardiovascular
Operating Room
Inova Heart and Vascular Institute
Falls Church, VA
Disclosures: 1

Jack Shanewise, MD FASE

Professor
Anesthesiology
Columbia University Medical
Center
New York, NY
Disclosures: 1

Kenneth G. Shann, CCP

Director, Perfusion Services
Massachusetts General Hospital
Boston, MA
Disclosures: 1

Andrew D. Shaw, MB FRCA FCCM

Professor and Chief
Division of Cardiothoracic
Anesthesiology
Vanderbilt University Medical
Center Department of
Anesthesiology
Nashville, TN
Disclosures: Baxter, 4; Thrasos, 11;
Covidien, 11; Astute, 11

Stanton K. Shernan, MD FAHA FASE

Professor, Anesthesia
President, National Board of
Echocardiography
Director, Cardiac Anesthesia
Brigham and Women's Hospital
Harvard Medical School
Boston, MA
Disclosures: e-echocardiography.com,
6; Philips Healthcare, Inc., 6

Sasha K. Shillcutt, MD FASE

Associate Professor
Director, Perioperative
Echocardiography
Director, Clinical Research
Department of Anesthesiology
University of Nebraska Medical
Center
Omaha, NE
Disclosures: E-Echocardiography, 4

Douglas C. Shook, MD FASE

Assistant Professor, Anesthesia
Harvard Medical School
Director, Cardiothoracic
Anesthesiology Fellowship
Director, Interventional Cardiac
Anesthesia
Department of Anesthesiology,
Perioperative and Pain
Medicine
Brigham and Women's Hospital
Boston, MA
Disclosures: Edwards Lifesciences,
14; Sorin Group, 14; St Jude
Medical, 14

Linda Shore-Lesserson, MD FAHA FASE

Professor
Anesthesiology
Hofstra Northshore-LIJ School of
Medicine
Director, Cardiovascular
Anesthesiology
Northshore-LIJ Medical Center
New Hyde Park, NY
Disclosures: Grifols, 4; Elcam
Medical, 4; Haemonetics, 3

George Silvay, MD PhD

Professor
Department of Anesthesiology
Icahn School of Medicine at Mount
Sinai
New York, NY
Disclosures: 1

Saket Singh, MD

Vice Chair for Quality
Department of Anesthesia
Allegheny Health Network
Clinical Assistant Professor
Temple University School of
Medicine
Pittsburgh, PA
Disclosures: 1

Nikolaos J. Skubas, MD FASE DSc

Professor
Clinical Anesthesiology and
Cardiothoracic Surgery
Director, Cardiac Anesthesia
Attending Anesthesiologist
Weill Cornell Medical College
New York, NY
Disclosures: 1

Robert N. Sladen, MBChB FCCM

Professor and Executive Vice Chair
College of Physicians and Surgeons
Columbia University
New York, NY
Disclosures: 1

Roman Sniecinski, MD FASE

Associate Professor, Anesthesiology
Fellowship Program Director, Adult
Cardiothoracic Anesthesiology
Emory University School of
Medicine
Atlanta, GA
Disclosures: Covidien, 9; Grifols, 11
Grifols, 9; ViroPharma, 9

Gautam Sreeram, MD

Assistant Professor
Anesthesiology
Emory University School of
Medicine
Atlanta, GA
Disclosures: 1

Mark Stafford-Smith, MD CM FRCPC FASE

Professor
Anesthesiology
Vice Chair, Education
Director, Adult Cardiothoracic
Anesthesiology Fellowship
Department of Anesthesiology
Duke University Medical Center
Durham, NC
Disclosures: 1

Michele L. Sumler, MD

Assistant Professor
Emory University School of
Medicine
Atlanta, GA
Disclosures: 1

Sugantha Sundar, MD

Assistant Professor
Anesthesia
Beth Israel Deaconess Medical
Center
Boston, MA
Disclosures: 1

Faculty

Thoralf M. Sundt, III, MD

Chief, Division of Cardiac Surgery
Massachusetts General Hospital
Edward D. Churchill Professor of
Surgery
Harvard Medical School
Boston, MA
Disclosures: 1

Madhav Swaminathan, MD FASE

Associate Professor
Anesthesiology
Clinical Director, Cardiothoracic
Anesthesiology
Duke University Medical Center
Durham, NC
Disclosures: 1

Justiaan Swanevelder, MBChB MMed(Anes) FCA(SA) FRCA

Professor
Head, Department of Anaesthesia
University of Cape Town
Cape Town, South Africa
Disclosures: Did not disclose

Kenichi Tanaka, MD

Professor
Director, Cardiac Anesthesiology
Division of Cardiothoracic
Anesthesiology
University of Maryland School of
Medicine
Baltimore, MD
Disclosures: Grifols, 9; TEM
Systems, 4; Octapharma, 4

Bradley S. Taylor, MD MPH

Director, Coronary
Revascularization
University of Maryland Medical
Center
Baltimore, MD
Disclosures: Medtronic, 3

Mark A. Taylor, MD FASE

Associate Professor
Chief, Anesthesia
Forbes Hospital Allegheny Health
Network
Pittsburgh, PA
Disclosures: 1

Nelson L. Thaemert, MD

Assistant Program Director,
Cardiothoracic Anesthesiology
Fellowship
Department of Anesthesiology,
Pain, and Perioperative
Medicine
Brigham and Women's Hospital
Boston, MA
Disclosures: 1

Walker Thomas, BA RDCS FASE

Instructor, School of Medicine
Department of Anesthesiology
University of Nebraska Medical
Center
Omaha, NE
Disclosures: 1

Annemarie Thompson, MD

Professor
Anesthesiology and Medicine
Director, Residency Program
Department of Anesthesiology
Division of Cardiothoracic
Anesthesiology
Duke University
Durham, NC
Disclosures: 1

Daniel A. Tolpin, MD

Assistant Professor
Anesthesiology Assistant Director
Associate Program Director,
Cardiothoracic Anesthesia
Fellowship
Division of Cardiovascular
Anesthesiology
Texas Heart Institute, Baylor
St. Luke's Medical Center
Houston, TX
Disclosures: 1

Christopher A. Troianos, MD

Professor
Chief, Anesthesiology
West Penn Hospital
Allegheny Health Network
Pittsburgh, PA
Disclosures: 1

Avery Tung, MD FCCM

Professor
Quality Chief, Anesthesia
Department of Anesthesia and
Critical Care
University of Chicago
Chicago, IL
Disclosures: Critical Care, 6;
Anesthesia & Analgesia, 6

Konstantine Tzimas, MD

Assistant Professor, Anesthesiology
Codirector, Adult CT Fellowship
University of Rochester
Rochester, NY
Disclosures: 1

Ratna Vadlamudi, MD

Emory University Hospital
Atlanta, GA
Disclosures: 1

Joost van der Maaten, MD

Consultant,
Cardiothoracic Anesthesia and
Intensive Care
Section Cardiac Anesthesia
Departments of Anesthesiology
and Intensive Care
University Medical Center
Groningen
Groningen, Netherlands
Disclosures: 1

Diederik Van Dijk, MD

Professor
Intensive Care Medicine
University Medical Center Utrecht
Utrecht, Netherlands
Disclosures: 1

Annette Vegas, MDCM FRCPC FASE

Associate Professor
Anesthesiology
Toronto General Hospital
University of Toronto, Canada
Toronto, ON, Canada
Disclosures: 1

Peter Von Homeyer, MD FASE

University of Washington
Seattle, WA
Disclosures: 1

Gebhard Wagener, MD

Associate Professor
Clinical Anesthesiology
Department of Anesthesiology
Columbia University
New York, NY
Disclosures: 1

Chad E. Wagner, MD

Associate Professor
Anesthesia and Critical Care
Vanderbilt University
Nashville, TN
Disclosures: 1

Weipeng Wang, MD PhD

Professor
Vice Chairman, Department of
Anesthesiology
Cardiovascular Institute and Fuwai
Hospital
National Center for Cardiovascular
Diseases
Peking Union Medical College
Chinese Academy of Medical
Sciences
Disclosures: 1

Andrew Weisinger, MD FASE

Chair, Department of
Cardiovascular Anesthesia
Providence Hospital
Columbia, SC
Disclosures: 1

Ian J. Welsby, MBBS BSc FRCA

Associate Professor
Anesthesiology and Critical Care
Duke University Medical Center
Durham, NC
Disclosures: 1

George Burke Whitener, MD

Assistant Professor
Medical University of South
Carolina
Charleston, SC
Disclosures: 1

William S. Whitley, MD

Clinical Chief, Cardiothoracic
Anesthesia
Piedmont Hospital
Decatur, GA
Disclosures: 1

Justin W. Wilson, MD

Assistant Professor
Anesthesiology
Director, Perioperative
Echocardiography Services
University of Texas Health Science
Center at San Antonio
San Antonio, TX
Disclosures: 1

Rick Sai-Chuen Wu, MD

Associate Professor
China Medical University Hospital
Taichung, Taiwan
Director of Foreign Affairs and
Board Trustee
Taiwan Society of Cardiovascular
Anesthesia
Disclosures: 1

Josh Zimmerman, MD FASE

Associate Professor
Director, Perioperative
Echocardiography
Director, Preoperative Clinic
University of Utah Department of
Anesthesiology
Salt Lake City, UT
Disclosures: 1

David A. Zvara, MD

Professor
Chair, Department of
Anesthesiology
The University of North Carolina at
Chapel Hill
Chapel Hill, NC
Disclosures: 1

Faculty

International Leaders

Jae-Hyon Bahk, MD PhD (ASCA
South Korea)

Yee Eot Chee, MBBS MHA MA
FANZCA FHKAM PGDipECHO
PTEeXAM ASCeXAM (Hong
Kong)

Sophia Chew, MMED (Anaes)
MBBS FANZCA(Singapore)

Y-F Chow, MD MBBS FANZCA
FHKCA FHKAM PG Dip Echo
MSc (Hong Kong)

David Daly, MBBS FANZCA
MCLinEpi (Australia)

Subid Ranjan Das, MBBS
FRCA FFARCSI FHKCA
FHKAM(Anaes) (Hong Kong)

Stefan J. M. Dieleman, MD
(Netherlands)

Balthazar Eberle, MD
(Switzerland)

Joerg Ender, MD (Germany)

Stephanie Fischer, MB BCh
FCA(SA) (South Africa)

Carlos Galhardo Jr., MD (Brazil)

Tony Gin, MD (Hong Kong)

Donna Greenhalgh, MBChB
FRCA FFICM (United Kingdom)

Michael P. W. Grocott, MBBS
MD BSc FRCA FRCP FFICM
(United Kingdom)

Fabio Guarracino, MD (Italy)

Nian Chih Hwang, MBBS
FFARCSI FAMS GDACU
(Singapore)

Yunseok Jeon, MD (South
Korea)

Suhaini Kadiman, MD (ASCA
Malaysia)

Andrew Klein, MD FRCA
(United Kingdom)

Sophia ANG Bee Leng, MD
(Singapore)

Marc J. Licker, MD
(Switzerland)

Yatin Mehta, MD MNAMS
FRCA FAMS (India)

Shay McGuinness, MBChB
FRCA FANZCA FFICM (New
Zealand)

Jose Mariano Soares de
Moraes, MD PhD (Brazil)

Chirojit Mukherjee, MD
(Germany)

Arne Neyrinck, MD PhD
(Belgium)

Minoru Nomura, MD PhD
(ASCA Japan)

Florian Nuevo, MD (Philippines)

Makoto Ozaki, MD (Japan)

Marco Ranucci, MD FESC (Italy)

Peter M. J. Rosseel, MD
(Netherlands/Germany)

Michael Sander, MD (Germany)

Manfred D. Seeberger, MD
(Switzerland)

Justiaan Swanevelder, MBChB
MMed(Anes) FCA(SA) FRCA
(South Africa)

Weipeng Wang, MD PhD
(ASCA China)

Rick Sai-Chuen Wu, MD
(Taiwan)

Schedule

Saturday, April 11

7-8 am

Marquis Foyer

Continental Breakfast

8-10 am

Marquis Ballroom 1-5

Opening Session

Moderator: Andrew D. Shaw, MB FRCA FCCM

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

10-10:30 am

Marquis Foyer

Morning Break

10:30 am-12:30 pm

Liberty LM

The Interventional Cath Lab: When Is "Good" the Enemy of "Perfect"

Moderator: Wendy L. Gross, MD MHCM

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

10:30 am-12:30 pm

Liberty IJK

A Potpourri of Updates in the Thoracic Cavity

Moderator: Wanda M. Popescu, MD

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

10:30 am-12:30 pm

Marquis Ballroom 1-5

Transfusion Practice Around the World (Audience Response Session)

Moderator: Daryl Oakes, MD

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

12:30-1:30 pm

Marquis Foyer & Salons 12-14

Lunch on Your Own with Exhibitors

Scientific Posters: Perioperative Medicine Abstracts

1:30-3:30 pm

Liberty IJK

Adult Congenital (Structural) Heart Disease

Moderator: Gregory M. Janelle, MD FASE

1:30-1:50 pm	Adult Congenital Heart Surgery in 2014 <i>Weipeng Wang, MD PhD</i>
1:50-2:10 pm	Adult Congenital Heart Disease in the Cath Lab <i>Minoru Nomura, MD PhD</i>

Schedule

2:10–2:30 pm	A Growing Population: Improved Outcomes and Expectations in Congenital Cardiac Anomalies <i>James A. DiNardo, MD</i>
2:30–2:50 pm	Single Ventricle Physiology: A Review <i>Alexander Mittnacht, MD FASE</i>
2:50–3:10 pm	Perioperative Management of the Adult Congenital Parturient <i>Laurie Davies, MD</i>
3:10–3:30 pm	Discussion

1:30–3:30 pm

Liberty LM

Organ Crosstalk in Cardiac Surgery and Critical Care

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

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

1:30–3:30 pm

Marquis Ballroom 1-5

Pulmonary Hypertension: Pearls of Wisdom (Audience Response Session)

Moderator: *Srikantha Rao, MBBS MD MS*

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

3:30–4 pm

Marquis & Liberty Foyers

Afternoon Break

4–6 pm

Liberty IJK

Global Finance in Perioperative Cardiovascular Care

Moderator: *Davy Cheng, MD MSc FRCPC FCAHS CCPE*

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

4–6 pm

Liberty LM

Perioperative Echocardiography in Heart Failure Patients

Moderator: *Christopher A. Troianos, MD*

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

4–6 pm

Marquis Ballroom 1-5

3D TEE Is for Everybody (Audience Response Session)

Moderator: *Alina Nicoara, MD FASE*

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

Schedule

Sunday, April 12

7-8 am

Marquis Foyer

Continental Breakfast

8-9:30 am

Marquis Ballroom 1-5

Revascularization Conference: PCI vs. OPCAB vs. CABG

Moderator: Linda Shore-Lesserson, MD FAHA FASE

8-8:25 am	PCI Is Best Jeffrey A. Brinker, MD FACC FSCAI
8:25-8:50 am	OPCAB Is Best Yatin Mehta, MD MNAMS FRCA FAMS
8:50-9:15 am	CABG Is Best Michael J. Mack, MD
9:15-9:30 am	Panel Discussion

9:30-10:30 am

Marquis Foyer

Morning Break

10:30 am-12:30 pm

Liberty IJK

Perioperative Organ Protection: Role of Translational and Clinical Research

Moderator: C. David Collard, MD MS

10:30-10:50 am	Evidence-Based Neuroprotection in Cardiac Surgery Hilary P. Grocott, MD FRCP FASE
10:50-11:10 am	Role of Big Data in Perioperative Organ Protection Stefan J. M. Dieleman, MD
11:10-11:30 am	Does Genetic Variation Contribute to Perioperative Morbidity? J. Daniel Muehlschlegel, MD MMSc FAHA
11:30-11:50 am	How Can We Protect the Kidneys During Cardiac Surgery? Shay McGuinness, MBChB FRCA FANZCA FFICM
11:50 am-12:10 pm	Myocardial Protection: Insights from Cross-Species Research Mihai V. Podgoreanu, MD FASE
12:10-12:30 pm	Discussion

10:30 am-12:30 pm

Marquis Ballroom 1-5

Perioperative Management of Cardiac Implantable Electrical Devices (Audience Response Session)

Moderator: Douglas C. Shook, MD FASE

10:30-10:50 am	Temporary Pacemakers: Uses and Indications Makoto Ozaki, MD
10:50-11:10 am	Guidelines for Perioperative Management of CIEDs Mias Pretorius, MBChB MSCI
11:10-11:30 am	As, Vs, Ds, Bi-Vs, and ICDs: Review of Cardiac Implantable Electrical Devices Annemarie Thompson, MD
11:30-11:50 am	Pro-Con Debate: Pro—Anesthesiologists Should Learn to Interrogate CIEDs Peter Schulman, MD
11:50 am-12:10 pm	Pro-Con Debate: Con—Anesthesiologists Should Not Be Responsible for Interrogating Permanently Implantable Devices Aman Mahajan, MD PhD
12:10-12:30 pm	Discussion

10:30 am-12:30 pm

Liberty LM

Coagulation Challenges in Cardiovascular Anesthesia

Moderator: Priya A. Kumar, MD

10:30-10:50 am	TEG/ROTEM: What Do I Need to Know and Is It of Any Real Use? C. David Mazer, MD
10:50-11:10 am	Antifibrinolytics: Should We Reconsider Aprotinin? Jose Mariano Soares de Moraes, MD PhD
11:10-11:30 am	Topical Pro-Coagulants Ian J. Welsby, MBBS BSc FRCA
11:30-11:50 am	Role of Factor 7 in Massive Transfusion. Better Late than Never? Kenichi Tanaka, MD
11:50 am-12:10 pm	Anti-Platelet Agents and Cardiac Anesthesia: Quo Vadis? Jerrold H. Levy, MD FAHA FCCM
12:10-12:30 pm	Discussion

12:30-1:30 pm

Marquis Ballroom 6-10, Foyer, & Salons 12-14

Lunch and Grand Opening of Exhibits

Scientific Posters: Basic Science, CV Anesthesia, Coagulation, Structural Heart Disease, and Thoracic Anesthesia Abstracts

1:30-3:30 pm

Marquis Ballroom 1-5

Minimally Invasive Cardiac Surgery (Audience Response Session)

Moderator: Mo Ghotbi, MD

1:30-1:50 pm	Patient Selection and Anesthetic Considerations for Percutaneous Pulmonary Valve Replacement Andrew Pitkin, MRCP FRCA
1:50-2:10 pm	Percutaneous Mitral Surgery: Here to Stay or Gone Tomorrow? Philip Jones, MD MSc(Clin Trials) FRCPC
2:10-2:30 pm	OPCAB George Djaiani, MD FRCA FRCPC
2:30-2:50 pm	Robotic Cardiac Surgery: Long-Term Outcomes and Future Trends Gregory A. Nuttall, MD

Schedule

2:50–3:10 pm	Anesthesia for Off-Pump VAD Placement <i>Robert J. Deegan, MBCh PhD</i>
3:10–3:30 pm	Discussion

1:30–3:30 pm

Liberty IJK

Tricuspid Valve Disease: What's the Big Deal?

Moderator: Tara Brakke, MD FASE

1:30–1:50 pm	Tricuspid Disease in Cardiac Surgery: Does It Matter? (Outcome Review) <i>Yee Eot Chee, MBBS MHA MA FANZCA FHKAMPGDipECHO PTEeXAM ASCeXAM</i>
1:50–2:10 pm	Tricuspid Anatomy and Repair: the Basics <i>Balthasar Eberle, MD</i>
2:10–2:30 pm	Echo Evaluation of TR: How Bad Is It? <i>G. Burkhard Mackensen, MD PhD FASE</i>
2:30–2:50 pm	Tricuspid Regurgitation in the Setting of Right Heart Failure <i>Alina Nicoara, MD FASE</i>
2:50–3:10 pm	Moderate Tricuspid Regurgitation in Cardiac Surgery: Do We Fix? <i>Bradley S. Taylor, MD MPH</i>
3:10–3:30 pm	Discussion

1:30–3:30 pm

Liberty LM

Fluid Therapy in Cardiovascular Surgery

Moderator: Wanda M. Popescu, MD

1:30–1:50 pm	Practical Aspects of Fluid Management <i>Albert Perrino, Jr. MD</i>
1:50–2:10 pm	The Third Space: Fact or Fiction? <i>Sophia Chew, MMED(Anes) MBBS FANZCA</i>
2:10–2:30 pm	Fluid Responsiveness Is Not the Same as Fluid Deficiency: How to Tell the Difference <i>J. Mauricio Del Rio, MD</i>
2:30–2:50 pm	Does the Choice of Crystalloid Make a Difference? <i>Janet Martin, PharmD PhD</i>
2:50–3:10 pm	Hemoglobin-Based Oxygen Carriers <i>Steven E. Hill, MD</i>
3:10–3:30 pm	Discussion

3:30–4 pm

Marquis Ballroom 6-10

Afternoon Break and Refreshments with Exhibits

4–6 pm

Liberty LM

TEE for Mitral Regurgitation: A Comprehensive Approach

Moderator: Sasha K. Shillcutt, MD FASE

4–4:20 pm	Mitral Regurgitation (Type I) <i>Nian Chih Hwang, MBBS FFARCSI FAMS GDAcu</i>
4:20–4:40 pm	Mitral Regurgitation (Type II) <i>Minoru Nomura, MD PhD</i>
4:40–5 pm	Mitral Regurgitation (Type III) <i>Feroze Mahmood, MD</i>
5–5:20 pm	Intraop MR: What the Surgeon Wants to Know <i>Bradley S. Taylor, MD MPH</i>
5:20–5:40 pm	The Mitral Exam: Putting It All Together <i>Madhav Swaminathan, MD FASE</i>
5:40–6 pm	Discussion

4–6 pm

Liberty IJK

ECMO: Do We Still Need Ventilators?

Moderator: Donna Greenhalgh, MBChB FRCA FFICM

4–4:20 pm	Does Echocardiography Influence ECMO Management? <i>Justiaan Swanevelder, MBChB MMed(Anes) FCA(SA) FRCA</i>
4:20–4:40 pm	ECMO as an Alternative to Ventilation <i>Tony Gin, MD</i>
4:40–5 pm	How to Set Up an ECMO Service <i>Jason D. Kennedy, MD</i>
5–5:20 pm	Management of Bugs and Blood in ECMO <i>Julian Barker, MD</i>
5:20–5:40 pm	Now What? Common Problems That Arise in ECMO and How to Fix Them <i>Annette Vegas, MDCM FRCPC FASE</i>
5:40–6 pm	Discussion

4–6 pm

Marquis 1-5

SCA/STS: Guidelines for Valvular Heart Disease (Audience Response Session)

Moderator: Stanton K. Shernan, MD FAHA FASE

4–4:30 pm	The Importance of the Heart Team and Heart Valve Centers of Excellence <i>Michael J. Mack, MD</i>
4:30–5 pm	The Impact of the AHA Guidelines for Valvular Heart Disease for Cardiac Surgery <i>Thoralf M. Sundt, III, MD</i>
5–5:30 pm	The Impact of the AHA Guidelines for Valvular Heart Disease for Cardiac Anesthesia <i>Nikolaos J. Skubas, MD FASE DSc</i>
5:30–6 pm	Panel Discussion

6–7 pm

Marquis Ballroom 6-10

Networking Reception with Exhibits

Schedule

Monday, April 13

7-8 am

Marquis Ballroom 6-10

Continental Breakfast with Exhibits

8-10 am

Marquis 1-5

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

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

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

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

10-10:30 am

Marquis Ballroom 6-10

Morning Break and Coffee with Exhibits

10:30 am-12:30 pm

Liberty NOP

Best Abstracts Session 1

Moderator: Aman Mahajan, MD PhD

10:30 am-12:30 pm

Marquis 1-5

International Perspectives on Best TAVR Practices (Audience Response Session)

Moderator: G. Burkhard Mackensen, MD PhD FASE

10:30-10:50 am Fast-Track Pathways for TAVR Patients to Reduce Cost and LOS Balthasar Eberle, MD

10:50-11:10 am Strategies for Success as the Anesthesia Leader for TAVR in the Heart Team Model Daniel Bainbridge, MD FRCPC

11:10-11:30 am The Role of Echocardiographic Imaging for TAVR Andrew Klein, MD FRCA

11:30-11:50 am Update on the Latest TAVR Technology and Clinical Trials Chirojit Mukherjee, MD

11:50 am-12:10 pm What Can Go Wrong and What to Do When It Does John G. Augoustides, MD FASE FAHA

12:10-12:30 am Discussion

10:30 am-12:30 pm

Liberty LM

Neuromonitoring

Moderator: Daryl Oakes, MD

10:30-10:50 am Should We Be Monitoring Depth of Anesthesia During CPB? Nelson L. Thaemert, MD

10:50-11:10 am Optimizing Cerebral Blood Flow During CPB: Monitoring Cerebral Autoregulation Suhaini Kadiman, MD

11:10-11:30 am Role of TEE and Epi-aortic Scanning in Preventing Embolic Cerebrovascular Events Kathryn Glas, MD MBA FASE

11:30-11:50 am CNS Protection During Circulatory Arrest for Ascending Aortic Procedures Hilary P. Grocott, MD FRCP FASE

11:50 am-12:10 pm Spinal Cord Protection During Thoracic Aortic Procedures Albert T. Cheung, MD

12:10-12:30 am Discussion

10:30 am-12:30 pm

Liberty IJK

Process Measures for Quality Improvement

Moderator: C. David Collard, MD MS

10:30-10:50 am Temperature Management Sophia ANG Bee Leng, MD

10:50-11:10 am Beta-Blocker Management Martin J. London, MD

11:10-11:30 am Glucose Management Andra E. Duncan, MD MS

11:30-11:50 am VTE Management Chad E. Wagner, MD

11:50 am-12:10 pm Antibiotic and Infection Management Paul Pisklak, MD

12:10-12:30 pm Discussion

12:30-1:30 pm

Marquis Ballroom 6-10,

Lunch with Exhibits

Foyer, Salons 12-14

Scientific Posters: Echocardiography and Quality Improvement Abstracts

Schedule

12:45-1:15 pm

Annual Business Meeting

Marquis 1-5

1:30-3:30 pm

Critical Care Controversies

Moderator: Laureen L. Hill, MD MBA

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

Liberty LM

1:30-3:30 pm

Enhancing Recovery (EACTA Session) (Audience Response Session)

Moderator: Donna Greenhalgh, MBChB FRCA FFICM

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

Marquis 1-5

1:30-3:30 pm

International Quality Issues in Cardiac Surgery

Moderator: Saket Singh, MD

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

Liberty IJK

3:30-4 pm

Afternoon Break and Refreshments with Exhibits

Marquis Ballroom 6-10

4-6 pm

Cardiopulmonary Bypass Disasters

Moderator: Wendy L. Pabich, MD

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

Liberty IJK

Schedule

Monday, April 13 (continued)

4-6 pm

Marquis 1-5

Super Echo

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

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

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

4-6 pm

Liberty LM

Anemia and Solutions

Moderator: Donna Greenhalgh, MBChB FRCA FFICM

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

Tuesday, April 14

7-8 am

Marquis Ballroom 6-10

Continental Breakfast with Exhibits

8-10 am

Marquis 1-5

Earl Wynands Lecture

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

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

10-10:30 am

Marquis Ballroom 6-10

Morning Break and Coffee with Exhibits

10:30 am-12:30 pm

Liberty NOP

Best Abstracts Session 2

Moderator: Martin J. London, MD

10:30 am-12:30 pm

Liberty LM

Aortic Root to Aortic Arch Repair

Moderator: George Silvay, MD PhD

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

Schedule

10:30 am–12:30 pm

Marquis 1-5

The Right Heart (Audience Response Session)

Moderator: G. Burkhard Mackensen, MD PhD FASE

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

10:30 am–12:30 pm

Liberty IJK

Global Approaches to Quality and Safety

Moderator: Philip Jones, MD MSc(Clin Trials) FRCPC

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

12:30–1:30 pm

Marquis Ballroom 6-10, Foyer, Salons 12-14

Dessert with Exhibits

Scientific Posters: Perioperative Medicine Abstracts and Interesting Case Reports

1:30–3:30 pm

Liberty LM

Descending Thoracic Aortic Surgery

Moderator: Tara Brakke, MD FASE

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

1:30–3:30 pm

Liberty IJK

Research: How an SCA Research Award Contributed to My Career

Moderator: Paul M. Heerd, MD PhD FCCP

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

1:30–3:30 pm

Marquis 1-5

Problem Solving in Anticoagulation for CPB (Audience Response Session)

Moderator: Linda Shore-Lesserson, MD FAHA FASE

1:30–1:50 pm	Heparin Sensitivity and Resistance Nian Chih Hwang, MBBS FFARCSI FAMS GDAcu
1:50–2:10 pm	Heparin Dosing: Too Much, Too Little, or Just Right? David Daly, MBBA FANZCA MCLinEpi
2:10–2:30 pm	Alternatives to Heparin Stephen A. Esper, MD MBA
2:30–2:50 pm	Heparin Induced Thrombocytopenia: Diagnosis and Management During CPB Andra E. Duncan, MD MS
2:50–3:10 pm	Heparin Reversal and Protamine Reactions Yee Eot Chee, MBBS MHA MA FANZCA FHKAMPGDipECHO PTEeXAM ASCeXAM
3:10–3:30 pm	Discussion

3:30–4 pm

Marquis & Liberty Foyers

Afternoon Break

Schedule

Tuesday, April 14 (continued)

4–6 pm

Liberty LM

Percutaneous Valve Surgery

Moderator: Gautam Sreeram, MD

4–4:20 pm	Who Needs Open-Valve Surgery Anymore? Patient Selection for Percutaneous vs. Open-Valve Procedures <i>Logan Kosarek, MD</i>
4:20–4:40 pm	Which and Why? Transfemoral, Transapical, and Transaortic Approaches <i>Ratna Vadlamudi, MD</i>
4:40–5 pm	Does My Patient Need a General Anesthetic? Options for Anesthesia in the Cath Lab and Hybrid Room <i>Fabio Guarracino, MD</i>
5–5:20 pm	Ensuring Successful Deployment: Echo for Percutaneous Valves <i>Chirojit Mukherjee, MD</i>
5:20–5:40 pm	Will My Patient Wake Up and Live a Productive Life? Neurologic Outcomes and Future Areas of Investigation <i>Karsten Bartels, MD</i>
5:40–6 pm	Discussion

4–6 pm

Liberty IJK

SOCCA

Moderator: Lauren L. Hill, MD MBA

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

4–6 pm

Marquis 1–5

Ventricular Assist Device (VAD) Update (Audience Response Session)

Moderator: J. Daniel Muehlschlegel, MD MMSc FAHA

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

Schedule: Workshops

Workshops Coordinator: Michael P. Eaton, MD

Saturday, April 11

10 am-1 pm

Liberty NOP

Morning Workshop

Workshop 1: Percutaneous Valve

Moderators: Kathryn Glas, MD MBA FASE; Gautam Sreeram, MD

TAVR: Where We Are in 2015 Joerg Ender, MD

Mitral and Pulmonic Valves: State of the Art G. Burkhard Mackensen, MD PhD FASE

Optimal Imaging Modalities for Percutaneous Valves Candice R. Montzingo, MD

Controversial Topics in Anesthetic Management Brian J. Gelfand, MD FACS; Konstantine Tzimas, MD

Challenging Cases Joerg Ender, MD; Madhav Swaminathan, MD FASE

Hands-On Stations

Assessment of Percutaneous Aortic Valves Stanton K. Shernan, MD FAHA FASE; Annemarie Thompson, MD;

Fabio Guarracino, MD

Assessment of Percutaneous Mitral and Pulmonic Valve Repair Techniques Chirojit Mukherjee, MD; Candice R.

Montzingo, MD; G. Burkhard Mackensen, MD PhD FASE

2-5 pm

Liberty NOP

Afternoon Workshop

Workshop 2: Transthoracic Echocardiography

Moderator: Tara Brakke, MD FASE

The Basic TTE Exam Josh Zimmerman, MD FASE

Basic TTE Views and the Comparison TEE Views Sasha K. Shillcutt, MD FASE

Expanding Your Practice: A Cardiac Anesthesiologist's Guide to TTE Julian Stephens Bick, MD

Hands-On Stations

Heartworks Simulator Josh Zimmerman, MD FASE; Julian Stephens Bick, MD

CAE Simulator Candice R. Montzingo, MD; Walker Thomas, BA RDCS FASE

GE Machine Live Models Nicholas W. Markin, MD; Jonathan Ho, MD

Philips Machine Live Models Sasha K. Shillcutt, MD FASE; Ravi Vivekanand Joshi, MD

Sunday, April 12

9:30 am-12:30 pm

Liberty NOP

Morning Workshop

Workshop 3: Fundamentals of Aortic Reconstruction

Moderators: Bradley S. Taylor, MD MPH; Andrew Weisinger, MD FASE

Introduction Bradley S. Taylor, MD MPH; Andrew Weisinger, MD FASE

Hands-On Stations

CSF Drainage Jason D. Kennedy, MD; K. Annette Mizuguchi, MD PhD MMSc

Point-of-Care Coag Testing Gregory A. Nuttall, MD; Kenichi Tanaka, MD

Airway Management R. Lebron Cooper, MD; Yasdet Maldonado, MD

TEVAR Tools and Techniques Bradley S. Taylor, MD MPH; Jacob T. Gutsche, MD

Neurologic Monitoring Daryl Oakes, MD; Suhaini Kadiman, MD

Cannulation-Bypass Support C. David Collard, MD MS; Chad E. Wagner, MD

2-5 pm

Liberty NOP

Afternoon Workshop

Workshop 4: Cardiopulmonary Bypass

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

Introduction Gregory M. Janelle, MD FASE

Basics of Perfusion: Equipment/Monitoring Andrew Pitkin, MRCP FRCA

Evidence-Based Perfusion Goals Eugene A. Hessel, II, MD FACS

Complications Kenneth G. Shann, CCP

Hands-On Stations

Basic Circuit

Going On and Coming Off CPB

Complications Perfusionist David C. Fitzgerald, BS CCP; Robert C. Groom, MS CCP; Uriah Dudgeon, MHS CCP;

Ron Angona, MS CCP

Schedule: Workshops

Monday, April 13

2-5 pm

Liberty NOP

Workshop 5: Advanced Transesophageal Echocardiography

Moderator: *Feroze Mahmood, MD*

How Does This Thing Work? Learning to Teach Echo with a Simulator *Feroze Mahmood, MD*

Beyond Good and Bad: Quantitative Analysis of Right Ventricular *Alexander Mittnacht, MD FASE*

Strain and Speckle Tracking for Ventricular Function *Alina Nicoara, MD FASE*

TEE Imaging in Infectious Conditions: Endocarditis and Aortic Root Abscess *Ravi Vivekanand Joshi, MD*

Hands-On Stations

Echo Simulation: Training the Trainer *Feroze Mahmood, MD*

Quantitative Right Ventricular Assessment *Alexander Mittnacht, MD FASE; Kimberly Howard-Quijano, MD MS*

Speckle and Strain Tracking *Alina Nicoara, MD FASE; Madhav Swaminathan, MD FASE*

What a Mess! TEE Imaging in Acute Endocarditis *Ravi Vivekanand Joshi, MD*

Tuesday, April 14

2-5 pm

Liberty NOP

Workshop 6: Case-Based Echocardiography

Moderators: *Alina Nicoara, MD FASE; Sasha K. Shillcutt, MD FASE*

Case-Based, Small-Group Discussions

Tricuspid Regurgitation in MV Surgery: When to Intervene *Nicholas W. Markin, MD*

Unsuspected AS in a CABG Patient *Candice R. Montzingo, MD*

Challenges in Adult Congenital TEE *Christopher A. Troianos, MD*

Post Valve Repair Assessment: When to Return to Bypass *Nikolaos J. Skubas, MD FASE DSc*

Valvular Lesions in the VAD Patient: When to Fix *Annemarie Thompson, MD*

Disasters in the Cath Lab *Wanda M. Popescu, MD*

Wednesday, April 15

8-11 am

Shaw/Ledroit

Workshop 7: Fellow Transesophageal Echocardiography Review Session

Moderators: *William (Skip) C. Culp, Jr., MD FASE; Roman Snieciński, MD FASE*

Ultrasound Physics *Madhav Swaminathan, MD FASE*

Artifacts and Pitfalls *Justiaan Swanevelde, MBChB MMed(Anes) FCA(SA) FRCA*

Hemodynamic Calculations *Mary Beth Brady, MD FASE*

Congenital Heart Defects *Kathryn Rouine-Rapp, MD*

Diastology *Wanda M. Popescu, MD*

Closing Remarks and Panelist Q & A

8-11 am

University DC/Catholic University

Workshop 8: 3D TEE

Moderators: *Sasha K. Shillcutt, MD FASE*

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

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

Common Applications and 3D Workflow in the OR *Douglas C. Shook, MD FASE*

Hands-On Stations

Station 1: (Basic) *George Burke Whitener, MD*

Station 2: (Intermediate) *Alina Nicoara, MD FASE*

Station 3: (Basic) *Logan Kosarek, MD; Erik P. Anderson, MD*

Station 4: (Basic) *Candice R. Montzingo, MD FASE; Tara Brakke, MD FASE*

Station 5: (Intermediate) *Josh Zimmerman, MD FASE*

Station 6: (Intermediate) *Walker Thomas, BA RDCS FASE*

Station 7: (Off-cart laptop, Advanced) *Georges Desjardins, MD*

Station 8: (Off-cart laptop, Advanced) *Nicholas W. Markin, MD*

Schedule: Workshops

8–11 am

Capitol/Congress

Workshop 9: EP—Perioperative Management of Pacers and ICDs

Moderators: Jonathan Ho, MD; Saket Singh, MD

Guidelines for Perioperative Management of Patients with a Cardiac Implantable Electrical Device *Annemarie Thompson, MD*

Pacemaker Function and Programming *Aman Mahajan, MD PhD*

Pacemaker Failures: What's Real, What's Not! *Peter Schulman, MD*

Hands-On Stations

Station 1: *Kimberly Howard-Quijano, MD MS*

Station 2: *Aman Mahajan, MD PhD*

Station 3: *Annemarie Thompson, MD*

Station 4: *Jonathan D. Leff, MD*

Station 5: *Peter Schulman, MD*

Station 6: Temporary Pacing *J. Prince Needlankavil, MD*

Station 7: Chest X Ray *J. Prince Neelankavil, MD*

Schedule: Fellow/Junior Faculty Program

Saturday, April 11

10-11 am

Marquis Foyer & Salons 12-14

Complex Case Poster Presentations

Moderators: Makoto Ozaki, MD; Robert M. Savage, MD FACC; Daniel A. Tolpin, MD; John A. Fox, MD; Albert T. Cheung, MD; Sugantha Sundar, MD; Antonio Hernandez, MD; Mark T. Neslon, MD MED

1-2 pm

Monument

Complex Case Discussion with Expert Panel

Panelists: James H. Abernathy, III, MD MPH FASE FAHA; Colin Royse, MD MBBS FANZCA; Annemarie Thompson, MD

2-3 pm

Monument

A Career in CT Anesthesiology: Mission Possible

Panelists: Joerg Ender, MD; Colleen Koch, MD MS MBA FACC; William S. Whitley, MD

3:30-4:45 pm

Monument

PBLD: Transcatheter Aortic Valve Replacement

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

5-6 pm

Marquis Foyer & Salons 12-14

Complex Case Poster Presentations

Moderators: Makoto Ozaki, MD; Robert M. Savage, MD FACC; Daniel A. Tolpin, MD; Wendy K. Bernstein, MD MBA; Justin W. Wilson, MD; Nian Chih Hwang, MBBS FFARCSI FAMS GDACU; Mark A. Chaney, MD; Jack Shanewise, MD FASE; J. Mauricio Del Rio, MD; J. Prince Neelankavil, MD

Sunday, April 12

10-11 am

Marquis Foyer & Salons 12-14

Complex Case Poster Presentations

Moderators: John A. Fox, MD; Albert T. Cheung, MD; Dalia Banks, MD FASE; Sugantha Sundar, MD; Wendy K. Bernstein, MD MBA; Michele L. Sumler, MD; Nelson L. Thaemert, MD; Brian J. Gelfand, MD FACS; Ioanna Apostolidou, MD; Chirojit Mukherjee, MD

5-6 pm

Marquis Foyer & Salons 12-14

Complex Case Poster Presentations

Moderators: Antonio Hernandez, MD; Mark T. Nelson, MD MED; Justin W. Wilson, MD; Michele L. Sumler, MD; Nelson L. Thaemert, MD; Brian J. Gelfand, MD FACS; Ioanna Apostolidou, MD; Carlos Galhardo, Jr., MD; Douglas C. Shook, MD FASE; John A. Fox, MD

Wednesday, April 15

8 am-11 am

Shaw/Ledriot

Workshop 7: Fellow Transesophageal Echocardiography Review Session

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

Ultrasound Physics Madhav Swaminathan, MD FASE

Artifacts and Pitfalls Justiaan Swanevelder, MBChB MMed(Anes) FCA(SA) FRCA

Hemodynamic Calculations Mary Beth Brady, MD FASE

Congenital Heart Defects Kathryn Rouine-Rapp, MD

Diastology Wanda M. Popescu, MD

Closing Remarks and Panelist Q & A

Schedule: PBLDs

Problem-Based Learning Discussions

PBLD Coordinator: Michael P. Eaton, MD

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

Sunday, April 12 (6:45–8 am)		
PBLD 1	Modifying Renal Injury Risk in Cardiovascular Surgery <i>Sophia Chew, MMED(Anes) MBBS FANZCA; Stephanie Fischer, MB BCh FCA(SA)</i>	Magnolia
PBLD 2	Lung Transplantation <i>Arne Neyrinck, MD PhD; Kam Ghadimi, MD</i>	Cherry Blossom
PBLD 3	Navigating Off-Pump CABG Surgery <i>George Djaiani, MD FRCA FRCPC; Yong G. Peng, MD PhD FASE</i>	Dogwood
PBLD 4	Rational Treatment of Post-CPB Bleeding <i>Matthew A. Klopman, MD FASE; Kenichi Tanaka, MD</i>	Scarlet Oak
PBLD 5	Negotiating Payments for Anesthesia Services with Bundling and Capitation <i>Solomon Aronson, MD MBA FACC FACCP FAHA FASE; Nelson L. Thaemert, MD</i>	Silver Linden
PBLD 6	Lung Protective Ventilation in the OR—It Does Matter! <i>Mary Beth Brady, MD FASE; Adam S. Evans, MD MBA</i>	Tulip
PBLD 7	Avoiding Problems with Pacemakers and ICDs <i>Jonathan Ho, MD; Annemarie Thompson, MD</i>	Senate
PBLD 8	Preventing and Managing Neurological Dysfunction After Cardiac Surgery <i>Srdjan Jelacic, MD; Hilary P. Grocott, MD FRCP FASE</i>	Mint
PBLD 9	STS/SCA: Functional MR <i>Stanton K. Sherman, MD FAHA FASE; Bradley S. Taylor, MD MPH</i>	Treasury
Monday, April 13 (6:45–8 am)		
PBLD 10	Brain Protection During Deep Hypothermic Circulatory Arrest <i>Yasdet Maldonado, MD; Andrew Klein, MD FRCA</i>	Magnolia
PBLD 11	ECMO in Practice <i>Tony Gin, MD; James J. Lynch, MD</i>	Cherry Blossom
PBLD 12	Robotic Cardiac Surgery <i>Daniel Bainbridge, MD FRCPC; J. Devin Roberts, MD</i>	Dogwood
PBLD 13	Noncardiac Surgery and the Adult Congenital Heart Patient <i>James A. DiNardo, MD; Viviana G. Nasr, MD</i>	Scarlet Oak
PBLD 14	Transcatheter Aortic Valve Replacement (TAVR) <i>Chirojit Mukherjee, MD; Konstantine Tzimas, MD</i>	Silver Linden
PBLD 15	Prevention and Management of Atrial Fibrillation After CT Surgery <i>Jacob T. Gutsche, MD; Peter Schulman, MD</i>	Tulip
Tuesday, April 14 (6:45–8 am)		
PBLD 16	Descending Thoracic Aortic Repair: Spinal Cord Protection Strategies <i>Sophia ANG Bee Leng, MD; Georgios (George) Nicolaou; MBBCh FRCPC</i>	Magnolia
PBLD 17	Global Health: How Can I Do My Share as a Cardiac Anesthesiologist? <i>Davy Cheng, MD MSc FRCPC FCAHS CCPE; Ellen M. Dailor, MD</i>	Cherry Blossom
PBLD 18	Conflict Resolution <i>Manfred D. Seeberger, MD; David A. Zvara, MD</i>	Dogwood
PBLD 19	Ventricular Assist Devices: Troubleshooting After Implantation <i>Robert J. Deegan, MB BCh PhD; Annette Vegas, MDCM FRCPC FASE</i>	Scarlet Oak
PBLD 20	Blood Conservation and Management <i>Keyvan Karkouti, MD; Jerrold H. Levy, MD FAHA FCCM</i>	Silver Linden
PBLD 21	Teaching and Learning TTE in a Busy Practice <i>Tara Brakke, MD FASE; Josh Zimmerman, MD FASE</i>	Tulip
Wednesday, April 15 (6:45–8 am)		
PBLD 22	Cardiac Surgery in the Parturient <i>Gautam Sreeram, MD; Michele L. Sumler, MD</i>	Magnolia
PBLD 23	The Perioperative Surgical Home in Cardiac Surgery: Pre-Op Optimization to 30 Days Post-Op <i>Logan Kosarek, MD; George Silvay, MD PhD</i>	Cherry Blossom
PBLD 24	Mitral Repairs: Acute Severe Mitral Regurgitation <i>Nicholas W. Markin, MD; Minoru Nomura, MD PhD</i>	Dogwood
PBLD 25	Pregnancy and HOCM <i>Mary Beth Brady, MD FASE; Nadia Hensley, MD</i>	Scarlet Oak
PBLD 26	What to Do About Secondary Tricuspid Regurgitation <i>Georges Desjardins, MD; Ratna Vadlamudi, MD</i>	Silver Linden

Scientific Abstracts and Posters

Best of Meeting Abstract Oral Presentations: Session 1

Monday, April 13, 10:30 am-12:30 pm

Room: Liberty NOP

1: Severity of Tricuspid Regurgitation Associated With Long-Term Mortality in a 21,000-Patient Cohort of Cardiac Surgical Patients

Jamahal Luxford, MBBS; Carolyn Butler; Kerry Wilusz, BA; Douglas Shook, MD FASE; Danny Muehlschlegel, MD; John Fox, MD; Stanton Shernan, MD FASE; Brigham and Women's Hospital

2: Increased Sirtuin 3 Expression and Signaling Confers Natural Cardioprotection in Hibernating Mammals

Mihai Podgoreanu, MD; Qing Ma, MD; Zhiquan Zhang, PhD; Quintin Quinones; Brian Barnes, PhD; Duke University; University of Alaska

3: Aortic Atheroma Increase the Risk of Long-Term Mortality

Carolyn Butler; Kerry Wilusz, BA; Chuan-Chin Huang, ScD; Stanton Shernan, MD FASE; Danny Muehlschlegel, MD; Brigham and Women's Hospital

4: A Multistate Analysis of Post-Operative Morbidity and Mortality Rates for Carotid Artery Stenting (CAS) al-ra

Robert White, MD; Bess Storch, MD; Wu Wu, MPH; Licia Gaber-Baylis, BA; Gregory Giambone, MS; Akshay Bhat Meng; Ramin Zabih, PhD; Peter Fleischut, MD; Kane Pryor, MD; NewYork-Presbyterian Hospital/Weill Cornell Medical College; New York University; Cornell University

5: Myocardial Longitudinal Strain Predicts the Need for Inotropic Support After Cardiopulmonary Bypass

Richard Sheu, MD; Xiaohong Li; Andra Duncan, MD; Cleveland Clinic

6: Improved Ability to Predict Postoperative Atrial Fibrillation With the McSPI AFRisk Index Versus the CHA2DS2Vasc or POAF Scores

Nathan Waldron; Mary Cooter, MSc; Rebecca Klinger, MD MS; Miklos Kertai, MD PhD; Mihai Podgoreanu, MD; Mark Stafford-Smith, MD; Mark Newman, MD; Joseph Mathew, MD; Duke University

7: Molecular Mechanism of Anesthetic-Induced Depression of Myocardial Contraction

Tao Meng, PhD Student; Wei Dong Gao, PhD MD; Johns Hopkins University School of Medicine

8: Acute Right Ventricular Failure After Heart Transplantation: Trends and Patient Characteristics

David Ruffin, MD; Mary Cooter, MSc; Mark Stafford-Smith, MD; Raquel Bartz, MD MMCI; Madhav Swaminathan, MD FASE; Carmelo Milano, MD; Chetan Patel, MD; Alina Nicoara, MD

Best of Meeting Abstract Oral Presentations: Session 2

Tuesday, April 14, 10:30 am-12:30 pm

Room: Liberty NOP

9: PPAR γ Agonist Rosiglitazone Provides Neuroprotection in Atherosclerosis-Prone JCR Rats Following Deep Hypothermic Circulatory Arrest: A Pivotal Role of Sirtuin 6

Qing Ma, MD; Zhiquan Zhang, PhD; Mihai Podgoreanu, MD; Duke University Medical Center

10: Effects of Metabolic Syndrome With or Without Obesity on Outcomes After Coronary Artery Bypass Graft: A Cohort and 5-Year Study

Fei Xu, MD; Hushan Ao; Fuwai Hospital

11: Effects of Race and Common Genetic Variation on Therapeutic Response Disparities in Postoperative Atrial Fibrillation

Nazish Hashmi, MB BS; Mary Cooter, MSc; Yi-Ju Li, PhD; Miklos Kertai, MD PhD; Joseph Mathew, MD; Mark Stafford-Smith, MD; Mark Newman, MD; Madhav Swaminathan, MD FASE; John Alexander, MD MHS; Mihai Podgoreanu, MD; Duke University Medical Center

12: Impact of Acute Kidney Injury on Long-Term Kidney Function in Patients Undergoing LVAD Placement

Mias Pretorius, MBCHB MSCI; Frederic Billings, MD; Vanderbilt University Medical Center; Vanderbilt University School of Medicine

13: Intravenous Lidocaine Reduces Transcerebral Inflammatory Response During Cardiac Surgery

Rebecca Klinger, MD MS; Igor Akushevich; Miles Berger, MD PhD; Mihai Podgoreanu, MD; Mark Stafford-Smith, MD; Mark Newman, MD; Thomas Ortel, MD PhD; Ian Welsby, MBBS FRCA; Jerrold Levy; Joseph Mathew, MD; Duke University Medical Center

14: Flow Cytometry Reveals Species-Specific, Tissue-Specific, and Hibernation-State-Specific Differences in Innate Immunity and Response to Surgical Ischemia-Reperfusion

Quintin Quinones; Qing Ma, MD; Michael Smith, MS; Janet Staats, BS; Cliburn Chan, MBBS PhD; Kent Weinhold, PhD; Brian Barnes, PhD; Mihai Podgoreanu, MD; Duke University; University of Alaska Fairbanks

15: Gene Expression in Human Left Atria of Patients With and Without Atrial Fibrillation After Cardiac Surgery

Martin Sigurdsson, MD PhD; Mahyar Heydari, PhD; Louis Saddic, MD PhD; Tzuu-Wang Chang, PhD; Stanton Shernan, MD FASE; Danny Muehlschlegel, MD; Simon Body, MD; Brigham and Women's Hospital

16: Validation of the FORE-SIGHT Elite Pediatric Tissue Oximeter in Children

Viviane Nasr, MD; Lisa Bergersen, MD MPH; Paul Benni, PhD; Rachel Bernier, MPH; Michelle Anderson, RN BSN; Barry Kussman, MBCH

Scientific Abstracts and Posters

Poster Session 1: Perioperative Medicine Abstracts

Saturday, April 11, 12:30-1:30 pm

Room: Marquis Foyer & Salons 12-14

17: Poor Post-Operative Blood Pressure Control in Cardiac Surgery Patients Is Associated With Acute Kidney Injury and Death

Felix Balzer, MD MSC; Solomon Aronson, MD MBA; Sascha Treskatsch, MD; Claudia Spies, MD; Professor Li Ding, MS MA; Jason Campagna, MD PHD; Michael Sander, MD; Charite Duke University School of Medicine; The Medicines Company, Inc.

18: The Effects of Dexmedetomidine on Postoperative Renal Function in Valvular Heart Surgery: A Randomized, Placebo-Controlled Study

Lee Woo Kyung; Jae-Kwang Shim, MD; Yon Hee Shim, MD PhD; Young-Lan Kwak, MD; Yonsei University College of Medicine

19: Intraoperative Awareness in Cardiac Surgery: A Large Retrospective Observational Study

Qingshui Zheng Bachelor; Qian Wang, MD; Hushan Ao

20: Dexmedetomidine Reduces Delirium After Cardiac Surgery: A Randomized, Controlled Trial

George Djaiani, MD; Natalie Silverton, MD; Rita Katznelson, MD; Rima Styra, MD MEd; Jo Carroll, RN BHA; Vivek Rao MD PhD; Ludwik Fedorko, MD PhD FRCPS; Toronto General Hospital; UHN

21: Serum Glial Fibrillary Acid Protein Levels Are Associated With Postoperative Neurocognitive Dysfunction After Non-Cardiac But Not Cardiac Surgery

Charles Hogue, MD; Tommy Rappold, BS; Daijiro Hori, MD; Allen Everett, MD; Gayane Yenokyan, PhD; Charles Brown, MD; Andrew Laflam, BS; The Johns Hopkins University School of Medicine; The Johns Hopkins University; The Johns Hopkins University

22: Cortical Amyloid Burden Is Not Significantly Associated With Early Cognitive Dysfunction After Cardiac Surgery

Rebecca Klinger, MD MS; Olga James, MD; Salvador Borges-Neto, MD; Tiffany Bisanar, RN BSN CCRP; Yi-Ju Li, PhD; William White, MPH; Mark Newman, MD; Pudu Doraiswamy, MBBS; Joseph Mathew, MD; Duke University Medical Center

23: Clinical Prediction Model for Post-Cardiac Surgery Atrial Fibrillation in an Asian Population

Lian Ti, MBBS; Wei Zhang Nil; Sophia Chew; Weiling Liu, BSc; National University Health System Singapore; Yong Loo Lin School of Medicine; Singapore General Hospital; National University Health System

24: Risk Stratification in Cardiac Surgery by the Combined Use of Cerebral Oxygen Saturation and Growth-Differentiation Factor 15

Matthias Heringlake, MD; Hauke Paarmann, MD; Anna Beilharz; Astrid Berggreen, MD; Efstratios Charitos, MD PhD; University of Luebeck

25: The Association of Baseline Frailty and Postoperative Delirium After Cardiac Surgery

F. Louis Kirk, MD; Andrew LaFlam, BS; Laura Max; Karin Neufeld, MD MPH; Charles Hogue, MD; Aliaksei Pustavoitau, MD; Charles Brown, MD; Johns Hopkins

26: The Effects of Atrial Pacing for Hemodynamic Recovery Immediately After Rapid Ventricular Pacing in Transcatheter Aortic Valve Replacement

Prakash Patel, MD; William Vernick, MD; Wilson Szeto, MD; Robert Li, MD; Jeremy Kukafka, MD; Michael Fabbro; John Augoustides, MD; Jacob Gutsche, MD; University of Pennsylvania; Penn Presbyterian Medical Center

27: 6-Minute Walk Test as a Predictor of Perioperative Ischemic Events

Andrew Disque; Christine Nguyen-Buckley, MD; Anahat Kaur Dhillon, MD; Jacques Neelankavil, MD

28: Serum Nitric Oxide Is an Early Marker of Inflammation Following Cardiac Surgery

Tsz Chuen Chan; Kimberly Howard-Quijano, MD MS; Ji Youn Youn, PhD; Jennifer Scovotti, MA; Aman Mahajan, MD PhD; Hua Linda Cai, MD PhD; UCLA

29: Respiratory Failure After Open Repair of Thoracic and Thoracoabdominal Aortic Aneurysms

Dan Farber; Charles Acher, MD; Erich Marks, MD; Charles Acher, MD; Martha Wynn, MD; UW-Madison Hospital and Clinics

30: Albumin Administration Within One Day of On-Pump Cardiac Surgery Is Associated With Improved Survival When Compared With Crystalloid Fluid Therapy

Adam Kingeter, MD; Sibyl Munson; David Hayashida, BA; Martin Bunke, MD; Andrew Shaw, FCCM FRCA MB

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

32: The Reno-Protective Effect of Intraoperative Dexmedetomidine Infusion in Elective Coronary Bypass Graft Surgery

Anantachote Vimuktanandana, MD; Faculty of Medicine, Chulalongkorn University, Bangkok, NA

33: Transthoracic Echocardiography to Assess Intravascular Volume Status and Predict Hypotension After Induction of General Anesthesia in Non-Cardiac Surgery Patients

Christopher Tanaka, MD; Ofer Burshtain, MD; Shenche Hsieh, PharmD MS; Singh Nair, MD; Jonathan Leff, MD; Montefiore Medical Center

34: The Incidence of Major Adverse Kidney Events (MAKE) Following Cardiac Surgery

Frederic Billings, MD; Mias Pretorius, MBCHB MSCI; Andrew Shaw, FCCM FRCA MB; Vanderbilt University

Scientific Abstracts and Posters

Poster Session 1: Perioperative Medicine Abstracts

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

35: Intraoperative Left Ventricular Longitudinal Strain and Strain Rate Do Not Predict Postoperative N-Terminal Pro B-Type Natriuretic Peptide Concentrations

Geoffrey Lively, MD; Xiaohong Li; Andra Duncan, MD; Cleveland Clinic

36: Management of Post-Operative Pain in Transcatheter Aortic Valve Replacements: How Can We Do Better?

Lingesh Sivanesan, MD; Nikolaos Skubas, MD DSC FASE; Andrew Sosa, MD; Rajiv Shah, MD; Shreyajit Kumar, MD; Weill Cornell Medical Center

37: Does Impaired Right Ventricular Function Impact Postoperative Outcomes After Cardiac Surgery?

Sanyo Tsai; Andra Duncan, MD; Cleveland Clinic Foundation

38: Intrabdominal Hypertension and Acute Kidney Injury After Cardiac Surgery (IAH-KICS): Interim Analysis and Early Study Trends

Michael Mazzeffi; Karin Wallace, RN BSN CCRN; Philip Roman, MD MPH; Patrick Odonkor, MD; Seema Deshpande, MD; Ashanpreet Grewal, MD; Erik Strauss, MD; Wendy Bernstein, MD MBA; Daniel Herr, MD; James Gammie, MD; Patrick Stafford, BS; La Toya Stubbs, BS; Peter Rock, MD MBA; Faisal Cheema, MD; University of Maryland School of Medicine; University of Maryland School of Medicine; University of Maryland

39: The Association of Post-Cardiac Surgery Delirium and Increased Length of Stay, Length of Stay in the ICU, and Hospital Charges

Daria Lyman, MD; Andrew LaFlam, BS; Laura Max; Karin Neufeld, MD MPH; Ashish Shah, MD; Glenn Whitman, MD; Charles Hogue, MD; Charles Brown, MD; Johns Hopkins

40: Paravertebral Analgesia in Transapical Transcatheter Aortic Valve Replacement

Justin Poltak, MD; Frederick Cobey, MD MPH FASE; John Augoustides, MD; Christopher Connors, MD; Maine Medical Center; Tufts Medical Center; University of Pennsylvania

41: Withdrawn

42: Paravertebral Nerve Block Does Not Improve Arterial Oxygen Tension After Mini-Thoracotomy for Minimally Invasive CABG: A Retrospective Review

Brady Warnick, MD FRCPC; Marc Ruel, MD MPH FRCSC; Benjamin Sohmer, MD; University of Ottawa Heart Institute

43: Effect of Sodium Bicarbonate on Prevention of Acute Kidney Injury in High-Risk Patients Undergoing Off-Pump Coronary Artery Bypass

Sowoon Ahn, MD; Sung Yong Park, MD; JongChan Kim, MD; YoungLan Kwak, MD PhD; CHA Bundang Medical Center; Ajou University College of Medicine; Yonsei University College of Medicine

205: Postoperative Nausea or Vomiting Apfel Score Validity Among Cardiac Surgery Patients

Vincent J. Umbrain, MD PhD; Christian Verborgh, PhD; Jan I. Poelaert; Jan Nijs

44: Anesthetic Management of Patients With Left Ventricular Assist Devices Presenting for Endoscopy

William Mauermann, MD; David Barbara, MD; Juan Pulido, MD; David Olsen, MD; Mayo Clinic Rochester

45: The Effect of High Spinal Anesthesia on the Incidence of Delirium Following Cardiac Surgery: A Historical Case-Control Study

Andrea Petropolis, MD; Doug Maguire, MD; Stephen Kowalski, MD; Hilary Grocott, MD; Trevor Lee, MD; Rakesh Arora, MD PhD FRCSC

46: Variation in Acute Kidney Injury Rates Following First- and Second-Staged Sequential Single-Lung Transplants in a Patient Cohort

Adam Varady, MD; Mark Stafford-Smith, MD; Jennifer Hauck, MD; Matthew Hartwig, MD; Madhav Swaminathan, MD FASE; Mihai Podgoreanu, MD; Joseph Mathew, MD; Duke University Medical Center

47: Serum Fluoride Levels During Long-Term Volatile Sedation Within the Intensive Care Unit

Angela Jerath, MBBS FANZCA; Kelvin Wong, BSc; Deep Grewal, MD; Niall Ferguson, MD FRCPC; Andrew Steel, MB BS MRCP FRCA FFICM FRCPC EDIC; George Djaiani, MD; Marcin Wasowicz, MD PhD; Toronto General Hospital; University of Toronto

48: Cardiopulmonary Bypass and Acute Pulmonary Dysfunction Following Cardiac Surgery

Ryan Butterworth, MD; Jonathan Wanderer, MD MPhil; Andrew Shaw, FCCM FRCA MB; Frederic Billings, MD; Vanderbilt University

49: Non-Cardiac Anesthesiologists Can Safely Provide Care for Patients Supported by Ventricular Assist Devices Presenting for Non-Cardiac Surgery: A 10-Year Retrospective Review From a High-Volume Tertiary Care Center

Joseph Hinchey, MD PhD; Marc Stone, MD; Adam Evans, MD; Christopher Sattler; Mount Sinai

50: Progression of Mitral Regurgitation After Lung Transplantation

Sharon McCartney, MD; Mary Cooter, MSc; Zainab Samad, MBBS MHS FAC; Joseph Sivak, MD; Anthony Castleberry, MD MMCI; Stephen Gregory, MD; John Haney, MD; Matthew Hartwig, MD; Madhav Swaminathan, MD FASE; Duke University Medical Center

51: The Inflammatory Response Between Miniaturized and Conventional Cardiopulmonary Bypass After Cardiac Surgery in an Asian Population

Lian Ti, MBBS; Roderica Ng; Sophia Chew; Weiling Liu, BSc; National University Health System; Yong Loo Lin School of Medicine; Singapore General Hospital

52: Apicoaortic Conduit: The Rise and Fall of a Procedure for High-Risk Patients in the TAVR Era

John McNeil, MD; David Lehenbauer, MD; John Conte, MD; Bryan Maxwell, MD; Johns Hopkins Hospital

Scientific Abstracts and Posters

53: Patient Characteristics and Surgical Factors Associated With Intraoperative Inhaled Nitric Oxide in Adult Cardiac Surgery

Megan Krajewski, MD; Mary Cooter, MSc; Betsy Hale, BS; Anne Cherry, MD; Duke University

54: Perioperative Dexmedetomidine Improves Outcome of Pediatric Cardiac Surgery Patients

Lei Li, MD; Hushan Ao; Fuwai Hospital

55: Intraoperative Beat-by-Beat Blood Pressure Variability (Area Under the Curve) and Postoperative Outcome in Cardiac Surgery: A Pilot Study

Fernando Mujica, MD; Balachundhar Subramaniam, MD MPH; Thomas Heldt, PhD; Priyam Mathur, MS; Kamal Khabbaz, MD; Adam Lerner, MD; Varesb Prasad; Beth Israel Deaconess Medical Center; Massachusetts Institute of Technology

56: Perioperative Takotsubo Cardiomyopathy: A Systematic Review of Published Cases

Matthew Bean; Manuel Castresana, MD; Shvetank Agarwal, MD; Resident; Professor; Assistant Professor

57: Influence of Left Ventricular Distension Associated With Ventricular Fibrillation During Pulmonary Valve Replacement on Postoperative Outcomes

Ji-Hyun Lee, MD; Eun-Jin Chung; In-kyung Song, MD; Jae-Hyon Bahk, MD; Jin-Tae Kim, MD; Eun-Hee Kim, MD; Seoul National University Hospital

58: Impact of Dexmedetomidine for Sedation in Cardiac Surgery on Post-Operative Atrial Fibrillation Incidence and ICU Length of Stay

Anupama Gopinath; Brian Kelly; Janis Breeze, MPH; Barbara Oxley, MS RN; John Devlin, PharmD FCCM; Russel Roberts, PharmD; Michael England, MD; Kenneth Warner, MD; Frederick Cobey, MD MPH FASE; Tufts Medical Center

59: Microvascular Reactivity and Clinical Outcomes in Cardiac Surgery

Susie Yoon, MD; Chang-Hoon Koo, MD; Jae-Hyon Bahk, MD; Deok-Man Hong, MD; Yunseok Jeon, MD; Seoul National University Hospital

60: Cardioprotection With Volatile Anesthesia During Coronary Artery Bypass Grafting

Nikola Bradic, MD; Ino Husedzinovic, MD PhD Professor; Andrej Sribar, MD; Cardiac Anesthesiology and Critical Care Medicine; Cardiac Anesthesiology and Critical Care

61: The Impact of Perioperative β -Blockers on Outcomes in Patients Undergoing Cardiac Surgery

Bo Dou, master's degree; Fei Xu, MD; Shan Ao

62: A Retrospective Chart Analysis of Patients Undergoing Transmyocardial Laser Revascularization

Shvetank Agarwal, MD; Sachin Bahadur, MBBS; Manuel Castresana, MD; Georgia Regents University

63: Postoperative Pain Management by Morphine After the Cardiovascular Surgery

Koichiro Seki, MD; Hiroko Fukushima; Yuki Higa, MD; Atsuko Takata; Toshihiro Nohmi, MD; IMS Katsushika Heart Center

64: Impact of Dedicated Liver Transplant Anesthesia Team on Patient Safety and Clinical Outcomes in a Tertiary Care Medical Center

Anoop Chhina, MD; Dragos Galusca, MD; R. Lebron Cooper, MD; William Alarcon, MD; Naveen Gandreti, MDFASE

Scientific Abstracts and Posters

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

Sunday, April 12, 12:30-1:30 pm

Room: Marquis Foyer & Salons 12-14

65: Thoracic Epidural Anesthesia Suppresses Cardiac Excitability Induced by Stellate Ganglion Stimulation in a Porcine Model

Kimberly Howard-Quijano, MD MS; Kentaro Yamakawa, MD; Tatsuo Takamiya, MD; Wei Zhou, PhD FAHA; Jeffrey Ardell, PhD; Kalyanam Shivkumar, MD PhD; Aman Mahajan, MD PhD; University of California-Los Angeles; UCLA

66: Platelet Activation as a Determinant of Inflammation and Tissue Injury in a Rat Model of Deep Hypothermic Circulatory Arrest

Jorn Karhausen, MD PhD; Hae Woong Choi, PhD; Laura Mitrescu, BS; Qing Ma, MD; Soman Abraham, PhD; Duke University; Duke University Medical Center

67: MiR-155 Ablation Reduces the Rate of Paralysis in a Mouse Model of TAAA Patients

Hamdy ElSayed Awad, MD; Sujatha Bhandary, MD; Anna Bratasz, PhD; Soumya Bouchachi; Motaz Abas, BS; Esmerina Tili, PhD; Ohio State University

68: Effects of Digoxin 24-Hour Exposure on Gene Expressions Related to Ventricular Remodeling in Cultured Cardiomyocytes

Henry Liu, MD; Marcia Henry, PhD; Geoffrey Liu, BA; Lisa Sangkum, MD; Nakeisha Landry-Pierre, MD; Sabrina Bent, MD; Alan Kaye, MD PhD; Frank Rosinia, MD; Tulane University Medical Center; LSUHSC-New Orleans

69: Changes in Myocardial Angiotensin II Levels During Cardiopulmonary Bypass in Cardiac Surgery

Michael Manning, MD PhD; Dawn Bowles, PhD; Michael Watson, BS; Mihai Podgoreanu, MD; Duke University; Duke

70: Administration of Protamine Via Ascending Aorta May Improve Hemodynamic Stability and Postoperative Oxygenation

Joseph Roberts, MD; Edris Negron, MD; Kristen Wroblewski, MS; Ross Gaudet, MD; Mark Chaney, MD; University of Chicago

71: LOXL2: A Novel Target in Vascular Stiffness

Jochen Steppan, MD; Daijiro Hori; Steven An, PhD; Dan Berkowitz, MD; Lakshmi Santhanam, PhD; Johns Hopkins University

72: Aging and Autonomic Regulation of Right Ventricular Contraction Pattern

Paul Heerdt, MD PhD; Emma Heerdt; Cornell University; Greenwich High School

73: Epigallocatechin-3-Gallate, a Green Tea Catechin, Protects the Heart Against Regional Ischemia-Reperfusion Injuries Through Activation of RISK Survival Pathways in Rats

Kyung Yoo, MD PhD; Chonnam National University Hospital, Gwangju, Gwangju

74: Intraoperative Autologous Blood Donation in Cardiac Surgery: Physiological Changes in Oxygen Transport and Utilization

Matthew Bean; Julian Bass, CCP RRT; Mary Arthur, MD; Sanjay Dwarakanath, MD; Georgia Regents University

75: Macrophage Characteristics Persists Long After CPB Even After Uncomplicated Heart Surgery in Certain Individuals

Krzysztof Laudanski, MD PhD; George Worthen, MD; Jacob Gutsche, MD; Pawan Alturi; Wilson Szeto, MD; University of Pennsylvania; Children's Hospital of Philadelphia

76: Transcaval Delivery of Transcatheter Aortic Valve Replacement in a Patient Unsuitable for Femoral, Apical, or Transaortic Approaches

William Nelson, MD; Rosemary Uzomba, MD; Brigham and Women's Hospital

77: The Use of Dexmedetomidine and Intravenous Acetaminophen for the Prevention of Postoperative Delirium in Cardiac Surgery Patients Over 60 Years of Age: A Pilot Study

Jason O'Neal, MD; Shruthi Dighe, MBBS MPH; Kashaine Gray, BS; Adam Lerner, MD; Daniel Talmor, MD; Edward Marcantonio, MD; Balachundhar Subramaniam, MD MPH; Beth Israel Deaconess Medical Center

206: Mast Cell Specific Chymase as an Early Marker of Inflammatory Activation Following Aortic Circulatory Arrest Procedures

Sreekanth R. Cheruku, MD; Yi-Ju Li, PhD; Wenjing Qi, PhD; Laura Mitrescu, BS; Miklos D. Kertai, MD PhD; G. Chad Hughes, MD; Joseph P. Mathew, MD; Jorn Karhausen, MD PhD

78: Impact of Opening Hours of the Post-Anesthetic Care Unit on Performance of a Fast Track Protocol

Chris Grass; Sarah Eibel, MD; Waseem Zakhary; Stefan Probst; Joerg Ender, MD; Heartcenter University Leipzig

79: Sedation Strategies for Procedures in the Cardiac Electrophysiology Laboratory

Julie DeVore, DO MPH; Anne Kamarchik, MD; Samir Saba, MD; Raveen Bazaz, MD; Kathirvel Subramaniam, MD MPH; University of Pittsburgh Medical Center

80: Sedation for Transfemoral TAVI: No General Anesthesia, No Problems?

Patrick Mayr, MD; Gunther Wiesner, MD PhD; Thomas Ried, MD; Juergen Knorr, MD; Peter Tassani, MD PhD; Deutsches Herzzentrum Muenchen, TUM

81: Anesthesia Management for the Transcatheter Aortic Valve Replacement

Nikola Bradic, MD; Ino Husedzinovic, MD PhD Professor; Andrej Sribar, MD; Daniel Unic, MD; Cardiac Anesthesiology and Critical Care Medicine; Cardiac Anesthesiology and Critical Care; Cardiac Surgery

82: Heparin Concentration (Hepcon HMS) vs. ACT-Guided Anticoagulation During Cardiac Surgery: A Meta-Analysis

Thomas Varughese, MBBS FRCA; Ravi Taneja, MBBS; Janet Martin, PhD; Blackpool Teaching Hospitals NHS Foundation Trust; University of Western Ontario

Scientific Abstracts and Posters

83: Risk Factors for Excessive Perioperative Blood Loss in Infants and Children Undergoing Surgery for Congenital Heart Disease

Kim Won Ho, MD; Hyo Jin Kim; Eunhee Kim, MD; Chung Su Kim; Samsung Changwon Hospital; Samsung Medical Center

207: Cardiopulmonary Bypass and Lung Ultrasound
Clayne Benson, MD; Justin Tawii, MD; Andrew Xavier, MD; Dennis P. Phillips, DO; Kathivvel Subramiam

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Scientific Abstracts and Posters

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

Sunday, April 12, 12:30-1:30 pm

Room: Marquis Foyer & Salons 12-14

103: Management of Massive Hemoptysis

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

104: Comparison of Individually Modified Angled Tube and Conventional Angled Tube in Double-Lumen Tube Insertion: A Randomized, Controlled Clinical Trial

Jeong Jin Min, MD; Jong Hwan Lee, MD PhD; Sangmin Lee, MD PhD; Eunjung Oh, MD; Seunghyeon Lee, MD; Samsung Medical Center

105: Knowing the Angle of Right Upper Lobe Bronchus Brings the Resurgence of the R-DLT

Jean Bussi eres, MD; Michel Gingras; Lindsay Perron, MD; Jacques Somma; IUCPQ; Laval University

106: Knowing the Length of the Right Main Stem Bronchus Allows the Safe Use of the R-DLT

Jean Bussi eres, MD; Michel Gingras; Lindsay Perron, MD; Jacques Somma; IUCPQ; Laval University

107: The Clinical Effectiveness of Pulmonary Artery Catheters Use on Costs and Long-Term Outcomes in Coronary Artery Bypass Grafting Surgery

Fei Xu, MD; Hushan Ao; Fuwai Hospital

108: Risk of Acute Kidney Injury in Thoracic Surgery by Fluid Restriction and Use of Hydroxyethyl Starch

Yeon-Kyeong Yoo, MD; Hyun Joo Ahn; Jie Ae Kim; Mikyung Yang; Samsung Medical Center

109: Perioperative Management of Large Anterior Mediastinal Mass in 13-Year-Old Patient

Emil Malamud, MD; Abisola Ayodeji; Maimonides Medical Center

110: Algorithm for Performing One-Lung Isolation in Patients With Aberrant Tracheal Bronchi

Michael Adeleye, MD; Tao Hong, MD; Georgia Regents University

Scientific Abstracts and Posters

Poster Session 3: Echocardiography Abstracts and Quality Improvement Abstracts

Monday, April 13, 12:30–1:30 pm

Room: Marquis Foyer & Salons 12-14

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

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

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

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

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

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

117: Withdrawn

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

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

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

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

122: Association of Paravalvular Leak on Echocardiography After Transcatheter Aortic Valve Replacement With Mortality: The Agreement of Transesophageal and Transthoracic Echocardiography.
Claire Dakik, MD; Emily Teeter, MD; Mary Cooter, MSc; Jeffrey Gaca, MD; Mark Stafford-Smith, MD; Brandi Bottiger, MD

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

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

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

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

Scientific Abstracts and Posters

Poster Session 3: Echocardiography Abstracts and Quality Improvement Abstracts

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

127: Intraoperative Right Ventricular Longitudinal Strain Is Not Associated With Adverse Outcomes After Left Ventricular Assist Device Implantation

Jackson Rowe, BS; Daniel Beck, MD; Angela Moss, MS Biostatistics; Tamas Seres, MD; Jennifer Dorosz, MD; Ashok Babu; T. Brett Reece, MD FACS FAHA; David Fullerton, MD; Joseph Cleveland, MD; Karsten Bartels, MD; University of Colorado Denver; Anesthesiology; Kaiser Permanente Denver

128: Low Agreement Between TTE and TEE on Evaluation of Less-Than-Severe Mitral Valve Regurgitation

Jonathan Hadaway, MD; Yong Peng, MD PhD; Terrie Vasilopoulos, PhD; University of Florida

129: Worsening Myocardial Performance Index Correlates With Increased Mortality in Sepsis

Junaid Nizamuddin, MD; Shahzad Shaefi, MD; Sajid Shahul; Beth Israel Deaconess Medical Center, Harvard Medical School; Beth Israel Deaconess Medical Center, Ha; University of Chicago

130: Diastolic Dysfunction as a Prognostic Factor for Patients Undergoing Transcatheter Aortic Valve Replacement

Jeffrey Lyvers, MD; Philip Krapchev, MD; Andrew Weintraub, MD; Bonnie Corrigan, RN BSN; Frederick Cobey, MD MPH FASE; Tufts Medical Center

131: The Relationship Between Pulmonary Vein Flow Propagation Velocity and Pulmonary Artery Occlusion Pressure Using M-Mode Color Flow Doppler Echocardiography

Farzad Ebrahimi, MD; Alejandro Hernandez, MD; Feng Dai, PhD; Raj Modak, MD; Yale University

132: Bedside Focused Transthoracic Echocardiography in the Assessment of Acute Cardiopulmonary Abnormalities in the Post-Anesthesia Care Unit

Megan Lanigan, MD; Colin Boettcher, BA; Mojca Remskar Konia, MD PhD; Rehan Siddiqui, MD; Ying Lu, None; Michael Wall, MD; Ioanna Apostolidou, MD; University of Minnesota

133: Focused Cardiac Ultrasound (FoCUS): A Survey of Training Practices

Frederick Conlin, MD; Neil Connelly, MD; Adam Schwabauer, DO; Karthik Raghunathan, MD MPH; Jennifer Friderici; Research Assistant Professor

134: Transesophageal Echocardiography and Transthoracic Echocardiography Have a Low Agreement When Assessing Moderate RV and LV Systolic Dysfunction

Jason Drennan, DO; Yong Peng, MD PhD; Terrie Vasilopoulos, PhD; Robert Covington; University of Florida

135: Evaluating Right Ventricular Function With Transesophageal Echocardiography Before and After Pulmonary Artery Thromboendarterectomy Performed Under Deep Hypothermic Circulatory Arrest

Adrian Ionescu, MD; Vipin Mehta, MD FFARCSI; Massachusetts General Hospital - Harvard Medical School

136: Correlation Between Trans-Hepatic and Subcostal IVC Views to Assess IVC Variation: A Pilot Study

Jacobo Moreno Garijo, MD; Massimiliano Meineri, MD; Duminda Wijeyesundera, MD PhD; Toronto General Hospital; University Health Network.

137: Moderate Correlation and Fair Agreement Comparing Transthoracic Echocardiography (TTE) vs. Transesophageal Echocardiography (TEE) Modalities in Left Atrial (LA) and Left Ventricular End Diastolic Diameter (LVED) Measurements

Robert Covington; Terrie Vasilopoulos, PhD; Yong Peng, MD PhD; University of Florida

138: The Current State of Transesophageal Echocardiography at U.S. Academic Medical Centers

Aris Sophocles, MD; Prakash Patel, MD; Jacob Gutsche, MD; John Augoustides, MD; Ronak Shah, MD; Lance Atchley, MD; Univ of Pennsylvania; University of Pennsylvania

139: Intraoperative Pulmonary Artery Acceleration Time as a Predictor of Systolic Pulmonary Artery Pressure

Joshua Quick, MD; Frederick Cobey, MD MPH FASE; Philip Krapchev, MD; Tufts Medical Center

140: Evaluation of Alfieri Repair With Doppler Technique vs. Planimetry Shows Different Results When Comparing Intraoperative and Pre-Discharge Measurements

Auhood Bukhary; Jaqueline Grace Da Rocha e Silva, MD; Joerg Ender, MD; Heart Center, University Leipzig

141: Intraoperative Pressure Half-Time Measurements by Transesophageal Echocardiography as an Endpoint for Goal-Directed Percutaneous Mitral Balloon Valvuloplasty

William Grubb, MD; Sagar Mungekar, MD; Lilianna Cohen, MD FACC; Mohammad Chaudhry; Rutgers Robert Wood Johnson Medical School; Rutgers Robert Wood Johnson Medical School

142: Intraoperative Right and Left Ventricular Strain and Strain Rate Do Not Predict Postoperative Atrial Fibrillation After Cardiac Surgery

Jody Chou, MD; Andra Duncan, MD; Xiaohong Li

143: The Role of Transesophageal Echocardiography in Endocardial Lead Extraction for Cardiac Implantable Electronic Device Related Infection: A Single-Center Experience

Luyang JIANG; Yi Feng, MD; Hui Ju, MD; Yan Jiang, MD; Peking University People's Hospital

144: Acute Risk Change in Cardiothoracic Admissions to Intensive Care (ARCTIC): A New Metric for Identifying Quality of Care in Cardiac Surgery

Tim Coulson; Michael Bailey, PhD MSc BSc(hons); Chris Reid, PhD; Dan Mullany; Lavinia Tran, PhD; David Pilcher

145: Effects of Modified Ultrafiltration on Vancomycin Levels During Cardiopulmonary Bypass

Daniel Hernandez Barajas, MD; Aaron Seller, DO; Nikolaus Gravenstein, MD; Kent Berg, MD MBA; Jennifer Ashton, PharmD; Ettore Crimi, MD; Univeristy of Florida; University of Florida; UF Health

Scientific Abstracts and Posters

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

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

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

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

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

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

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

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

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

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

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

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

Scientific Abstracts and Posters

Poster Session 4: Perioperative Medicine Abstracts and Interesting Case Reports

Tuesday, April 14, 12:30-1:30 pm

Room: Marquis Foyer & Salons 12-14

158: Cardiorespiratory Dynamics of Using Volatile Agents for Long-Term Intensive Care Unit Sedation

Angela Jerath, MBBS FANZCA; Deep Grewal, MD; Andrew Steel, MB BS MRCP FRCA FFICM FRCPC EDIC; Niall Ferguson, MD FRCPC; George Djaiani, MD; Marcin Wasowicz, MD PhD; Toronto General Hospital

159: Echocardiography Did Not Provide a Predictive Value for Postoperative Atrial Fibrillation in Lung And Esophageal Cancer Surgery

Javier Lasala, MD; Juan Cata, MD; Jose Banchs, MD FACC FASE; Reza Mehran, MD; Di Ai, MD PhD; MD Anderson Cancer Center

160: Recent Pattern of Statin Use in Cardiac Surgery on Stroke and Mortality Outcomes

Vanetta Levesque, MD; Manuel Fontes, MD; Mihai Podgoreanu, MD; Mark Newman, MD; Joseph Mathew, MD; Mark Stafford-Smith, MD; Miklos Kertai, MD PhD; Duke University Medical Center

161: Elevated Preoperative Hemoglobin A1c Level Is Not Associated With Major Adverse Events in Patients Undergoing Isolated Valvular Cardiac Surgery

Amit Bardia, MMBS; Priyam Mathur, MS; Adam Lerner, MD; Kamal Khabbaz, MD; Daniel Talmor, MD; Balachundhar Subramaniam, MD MPH; Beth Israel Deaconess Medical Center

162: Withdrawn

163: Patterns of Early Distant Organ Injury Following Adult Cardiac Surgery

Antonio Hernandez, MD; Andrea Westman, MD; Andrew Shaw, FCCM FRCA MB; Frederic Billings, MD; Vanderbilt University

164: Greater Intraoperative Fluid Administration Increases the Risk for Primary Graft Dysfunction After Lung Transplantation

Mariya Geube, MD; Silvia Perez-Protto, MD; Tory McGrath, MD; Andra Duncan, MD; Dongsheng Yang, MS; Daniel Sessler, MD

165: Prediction of Fluid Responsiveness in Patients With Atrial Fibrillation: Peep-Induced Increase in Central Venous Pressure vs. Passive Leg Raising

Young Song, MD; Jae-Kwang Shim, MD; Yon Hee Shim, MD PhD; Lee Woo Kyung; Young-Lan Kwak, MD; Yonsei University College of Medicine

166: Impact of Aorta Cross-Clamp and Cardioplegia on Myocardial Injury

Jeremy Bennett, MD; Susan Eagle, MD; Frederic Billings, MD; Vanderbilt University

167: Platelet Counts and Postoperative Stroke in Coronary Artery Bypass Surgery

Aimen El Manafi, MD MB ChB; Mary Cooter, MSc; Manuel Fontes, MD; Jorn Karhausen, MD PhD; Mark Stafford-Smith, MD; Mihai Podgoreanu, MD; Mark Newman, MD; Joseph Mathew, MD; Miklos Kertai, MD PhD; Duke University Medical Center

168: Impact of Increments of Propofol-Dosage on Left Ventricular Systolic Function During Propofol-Remifentanyl Anesthesia for Cardiac Surgery

Tae-Yop Kim, MD PhD; Cheol-Hwan Park; Won-Kyoung Kwon; Nazri Mohamed, MD (UKM); Woon-Seok Kang; Joon Hum Yon, MD; Tae-Yoon Seong; Konkuk University Medical Center; Konkuk University School of Medicine; Sanggye Paik Hospital, Inje University; Konyang University Medical Center

169: Is Antibiotic Prophylaxis Warranted for the Prevention of Infective Endocarditis of the Native Bicuspid Aortic Valve?

Yuka Kiyota, MD MPH; Karam Habchi, BS BA; Vanessa Monteiro Vieira, Bachelor of Science in Biochemistry; Marzia Leacche, MD; Simon Body, MBChB MPH FAHA; Brigham and Women's Hospital

170: Pituitary Apoplexy After On-Pump Coronary Artery Bypass Grafting in a Patient With Known Pituitary Macroadenoma

Blas Catalani, MD MPH; Sudipta Sen, MD; LSUHSC - Shreveport

171: Postoperative Nausea and Vomiting in Cardiac Surgery Patients and Caloric Intake: Is There a Link?

Elisabeth De Waele, MD; Karlien De Bondt; Vincent Umbrain, MD PhD; Duncam Nguyen; Herbert Spapen, MD PhD SCCM FCCM; University Hospitals Brussels

172: Immunosuppressive, Antiretroviral, and Perioperative Management of Two Human Immunodeficiency Virus-Positive Patients Undergoing Orthotopic Heart Transplantation

Antonio Hernandez Conte, MD; Jon Kobashigawa, MD; Deanna Dilibero, PharmD; Michelle Kittleson, MD PhD; Lorraine Lubin, MD; Manxu Zhao, MD; W. David Hardy, MD; Fardad Esmailian, MD; General Anesthesia Specialists Partners; Cedars-Sinai Medical Center

173: Suboptimal Transseptal Puncture Leading to Device Capture in Anterolateral Chords During MitraClip Procedure, A Case Report

Amish Jasapara, MD; Chirojit Mukherjee, MD; Joerg Ender, MD; Heartcenter, University Leipzig, Germany; Heartcenter, University Leipzig, Germany

174: Extra Cardiac Tumor Misdiagnosed as a Left Atrial Myxoma

Si-Oh Kim, MD; Kwangook Choi; Seong Wook Hong; Dongho Jung; Younghoon Jeon; Kyungpook National University Hospital

Scientific Abstracts and Posters

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Scientific Abstracts and Posters

Poster Session 4: Perioperative Medicine Abstracts and Interesting Case Reports

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

197: Posterior Mitral Chordae Rupture During Balloon Mitral Valvuloplasty Requiring Surgical Intervention

Mohammad Chaudhry; Alann Solina, MD; Rutgers-Robert Wood Johnson Medical School

198: Intraoperative Use of Echo Contrast to Facilitate Diagnosis of Apparent Left Atrial Appendage Mass

Kelly Kohorst, MD; Jason Kennedy, MD; Robert Deegan, MD PhD; Vanderbilt University Medical Center

199: Aversion for Avulsion: A Case of Traumatic Tricuspid Rupture

Nicholas Goehner, MD; Wendy Bernstein, MD MBA; University of Maryland Medical Center

200: Atrial Myxoma Involving Right Upper Pulmonary Vein in an Elderly Patient: An Unusual Presentation

Joshua Newby, DO; Sudhakar Subramani, MD DNB PDCC MMed

201: Anomalous Coronary Artery: An Unusual Case

Christopher Ahrens, DO; Rajeswari Chintapalli, MD; Saint Louis University

202: Anaesthesia Management for "Anomalous Origin of Left Coronary Artery from Pulmonary Artery" Repair

Kapil Gupta, MD; Delhi, Delhi, India

203: Anesthetic Considerations and Management of a Patient With Stanford Type A Aortic Dissection Extending From the Aortic Root to the Right Common Iliac: A Story of Survival

Visal Patel, MD; Union City, NJ

204: Broad Beta Disease

Majid Ghodsi, MD; Tehran, Iran, Iran, Islamic Republic

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations I

Saturday, April 11, 10-11 am

Room: Marquis Foyer & Salons 12-14

B1: Infective Endocarditis of Primary Pacemaker Lead Device Resulting in Severe Tricuspid Regurgitation Not Amenable to Percutaneous Intervention

Brittney Williams, MD BA; Wendy Bernstein, MD MBA

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

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

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

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

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

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

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

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

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

MD, Miami, FL; Ricardo Martinez-Ruiz, MD, Miami, FL; Jackson Memorial Hospital; University of Miami

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

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

B21: Hemodynamic Monitoring During a Total Aortic Arch Replacement in a Patient With a Bovine-Configuration Aortic Arch Aneurysm
Adrian Ionescu, MD, Boston, MA; Jason Qu, MD, Charlestown, MA; Massachusetts General Hospital - Harvard Medical School

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

B23: Cardiopulmonary Bypass and Deep Hypothermic Circulatory Arrest in a Patient With Inherited Antithrombin Deficiency
Abraham Sonny, MD, Cleveland, OH; Shiva Sale, MD, Beachwood, OH; Cleveland Clinic, Cleveland, OH

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

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

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

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

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

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations I

Saturday, April 11, 10–11 am (continued)

B3: Anesthetic Management of a Young Adult Patient With Congenital Heart Disease Presenting for EGD

Abisola Ayodeji, Brooklyn, NY; Jason Fu, MD, Bayside, NY; Kalpana Tyagaraj, MD, Staten Island, New York; Maimonides Medical Center

B30: Transaortic Valve Gradients After Aortic Valve Replacement and Mitral Valve Replacement

Leonid Gorelik, MD, Columbus, OH; Michael Essandoh, MD, Columbus, OH; Sujatha Bhandary, MD, Columbus, OH; The Ohio State University/Ross Heart Hospital

B31: New Severe Mitral Regurgitation After Ventricular Aneurysm Repair

Leonid Gorelik, MD; Michael Essandoh, MD, Columbus, OH; Galina Dimitrova, MD, Columbus, OH; The Ohio State University/Ross Heart Hospital

B32: Percutaneous Valve-in-Valve Deployment for Severe Symptomatic Bioprosthetic Tricuspid Valve Stenosis as an Alternative to Redo Sternotomy or Thoracotomy

Bruce Kaufman, MD; Neal Duggal, MD, Ypsilanti, MI; University of Michigan

B33: Transesophageal Echocardiographic Evaluation of a Double Chambered Right Ventricle Diagnosed in Adulthood

Oscar Aljure, MD, Miami, FL; Frank Gencorelli, MD, Miami, FL; Yilam Rodriguez, MD, Miami, FL; Richard Kardon, DO, Miami, FL; Eliot Rosenkranz, MD, Miami, FL; University of Miami/Jackson Memorial Hospital

B34: Intraoperative Diagnosis of an Asymptomatic Ascending Aortic Rupture

Megan Kostibas, MD, Columbia, MD; Mary Beth Brady, MD, Cockeysville, MD; Viachaslau Barodka, MD, Baltimore, MD; Heather Hayanga, MD MPH, Baltimore, MD; Johns Hopkins Hospital; Johns Hopkins Hospital; Assistant Professor of Anesthesiology

B35: A Successful Heart Transplant But a Sutured in Central Line Tip: A Re-Exploration That Could Be Avoided!

Ankit Jain, MBBS, North Arlington, NJ; Rajendra Raval, MD, Warren, NJ; Resident; Attending Anesthesiologist

B36: Convergent Atrial Fibrillation Ablation: Anesthetic Considerations

Kailian Chen; Walter Bethune, MD, Brooklyn, NY; Maimonides Medical Center

B37: Use of Mechanical Support for Failing Single Ventricle Physiology

Paul Jacobs, DO, Seattle, WA; Michael Hall, MD, Seattle, WA; Fellow, Cardiothoracic Anesthesiology; Faculty Mentor

B38: Ross Procedure in a Patient With Bicuspid Pulmonary Valve

Eva Caroline Gebhard, Montreal, QC, Canada; Georges Desjardins, MD FRCPC FASE, Montréal, QC, Canada; Christian Ayoub; Jennifer Cogan, MD, Montreal, QC; Pierre Couture, MD, Montreal, QC; Andre Denault, MD, Longueuil, QC, Canada; Alain Deschamps, MD PhD, Montreal, QC, Canada; Jean-Sebastien Lebon, MD, Westmount, QC, Canada; Claudia Viens, MD, Montreal, QC, Canada; Ismail El-Hamamsy, MD PhD, Montreal, Quebec, Canada; Antoine Rochon, MD, Montreal, QC, Canada; Montreal Heart Institute

B39: Minimally Invasive Mitral Valve Replacement in a Patient With Previous Sternotomy and Severe Pulmonary Hypertension Requiring One-Lung Ventilation

Hilda Alfaro, MD, London, ON, Canada; Ivan Iglesias, MD FRCPC FASE, London, ON, Canada; Mauricio Giraldo; Cardiac Anesthesiologist; Cardiac Anesthesia Fellow; Cardiac Anesthesiologist; Neuro Anesthesia Fellow

B4: Intraoperative Diagnosis and Management of a Left Atrial Intramural Hematoma

Esther Garazi, MD; David Buric, BS; Harish Siddaiah, MD; Ricardo Martinez-Ruiz, MD

B40: Septic Thrombus Removal and Aortic Valve Replacement in an End-Stage Renal Disease Patient With Fungal Septicemia

John Albert, MD, Cleveland, OH

B41: Anesthetic Management of Superior Vena Cava Syndrome Due to an Aortic Pseudoaneurysm in a Redo Aorta Operation: A Rare Clinical Presentation

Natasha Malackany; Jennifer Hargrave, DO, Cleveland, OH; The Cleveland Clinic

B42: Perioperative Management of Giant Right Atrial Myxoma

Jacob Uhler, MD, Dublin, OH; Michael Essandoh, MD, Columbus, OH; Michael Andritsos, MD, Dublin, OH; The Ohio State University Wexner Medical Center

B44: Fatal Arterial Air Embolism in a Patient With Left Ventricular Assistant Device (LVAD) During Transplant Surgery

Nelson Gonzalez, MD; John Murkin Murkin, Professor of Anesthesiology (Senate), London, ON, Canada; Schulich Medicine Western University

B45: Ligation of Tracheoesophageal Fistula (TEF) in a Neonate With Complex Congenital Heart Disease (CHD)

Deborah Romeo, MD ScM, Cincinnati, OH; Joanna Rosing, MD, Cincinnati, OH; Erica Lin, MD, Cincinnati, OH; Cincinnati Children's Hospital Medical Center

B46: Intraoperative Management of Pulmonary and Tricuspid Valve Replacement for Carcinoid Right Disease

Sarah Dodd, MD, Rochester, MN; Martin Abel, MBBCH; Kent Rehfeldt, MD; Mayo Clinic

Resident/Fellow Complex Case Presentations

B47: Pulmonary Artery Aneurysm Involving the Main and Left PA in a Patient With Pulmonic Stenosis

Mina Oftadeh, DO, Chicago, IL; Pierre LeVan, MD, Maywood, IL; Taqdees Sheikh, MD, Maywood, IL; Neal Mehta, Chicago, IL; Loyola University Medical Center

B48: Placement of Transcatheter Bioprosthetic Aortic Valve in Descending Aorta for Treatment of Severe Aortic Valve Regurgitation

Pablo Guzman, MD; Jayson Morgan, MD; Raj Makkar, MD; Wen Cheng, MD; Robert Siegel, MD; Antonio Conte, MD MBA; Daniel Sullivan, MD

B49: TEE Finding of Systolic Anterior Motion of the Mitral Valve During Orthotopic Liver and Small Bowel Transplantation

Cale Kassel; Nicholas Markin, MD, Omaha, NE; Thomas Nicholas, MD, Omaha, NE; University of Nebraska Medical Center

B5: Repair of Acute Type A Aortic Dissection in a Spanish-Speaking Jehovah's Witness Patient

Andrew Schroeder, MD, Madison, WI; Andrew Anderson, DO, Madison, WI; Richard Wolman, MD MA, Madison, WI; University of Wisconsin

B50: Large Right Atrial Myxoid Malignancy Diagnosed by Echocardiography

Austin Adams, MD; Nathan McIntire, MD; Mike Fee, MD

B51: Rescue Transcatheter Aortic Valve Replacement for Cardiogenic Shock Secondary to Stenosis of a Bioprosthetic Aortic Valve

Lindsay Raleigh, MD, San Francisco, CA; Nicholas Anast, MD, Mountain View, CA; Ryan Mahaffey, MD, Palo Alto, CA; Charles Hill, MD, Stanford, CA; Albert Cheung, MD, Stanford, CA; Vidya Rao, MD MBA, Stanford, CA; Stanford University School of Medicine

B52: The Perioperative Management of an Adult Patient With a Symptomatic Mediastinal Mass

Bradley Hammond, DO, Wilmington, DE; Cherie Erkmen, MD, Philadelphia, PA; Scott Schartel, DO, Dresher, PA; Michael Keresztury, MD, Philadelphia, PA; Yidy Salamanca, MD; Glen Burnie, MD; TUHS

B53: Septal Resection for Hypertrophic Obstructive Cardiomyopathy: VSD That Led to an Orthotopic Heart Transplant

Philip Choi, DO; Pingle Reddy, MD FASE, Glen Allen, VA; David Farr, MD, Chesterfield, VA; Virginia Commonwealth University

B54: Superior Vena Cava Syndrome Following Adult Open Cardiac Surgery

Todd Peacock, MD, Winston-Salem, NC; Benjamin Morris, MD, Winston-Salem, NC; Wake Forest Baptist Health

B55: Anesthetic Management of Patient With Cor Triatrium, Persistent Left SVC, and Severe Pulmonary Hypertension

John Anderson-Dam, MD; Johanna Schwarzenberger, MD, Los Angeles, CA; UCLA

B56: One-Lung Ventilation in the Setting of Pulmonary Hypertension and a Left Ventricular Assist Device

Eleanor Vega, MD, Portland, OR; Valerie Sera, MD DDS, Portland, OR; Oregon Health and Science University

B57: Innominate Artery and Aortic Arch Aneurysm With Contained Rupture and Tracheal Compression

Nelson Burbano; Anand Mehta, MD; Asha Singh, MD

B58: Extracorporeal Membrane Oxygenation Placement Complicated by Hepafin-Induced Thrombocytopenia and Hemorrhagic Shock

Nelson Burbano; Donn Marciniak, MD, Broadview Heights, OH; Asha Singh, MD, Cleveland, OH; Cleveland Clinic Foundation

B59: Remifentanyl and Succinylcholine Use in TAVR Procedures Facilitating Early Extubation

Farhan Mazhar, MD, Schaumburg, IL; Chiranjeev Saha, MD MS, Oak Park, IL; Resident; Attending

B6: Pericardial Window With Acute Pulmonary Edema Managed With Extracorporeal Membrane Circulation (ECMO) and Intraoperative Use of the TandemHeart System

Alexandra Lewis; Sugantha Sundar, MD

B60: Simultaneous Endovascular and Surgical Repair of Multiple Aortic Anomalies in a Patient With Turner Syndrome

Eleanor Vega, MD, Portland, OR; Stephen Robinson, MD, Portland, OR; Oregon Health and Science University

B7: Two Dissecting Ascending Aneurysms With Pericardial Rupture

Tyson Vandagriff, MD, Columbia, MO; Joseph Reeves-Viets, MD MBA, Columbia, MO; University of Missouri- Columbia; University of Missouri-Columbia

B8: Alternative Management of Post-Deployment Embolization of Prosthetic Aortic Valve Into the Left Ventricle Following TAVR

Jonathan Hadaway, MD, Gainesville, FL; Julia Bauerfeind, MD, Gainesville, FL; Dustin Hegland, MD, Gainesville, FL; J. Christopher Goldstein, MD, Gainesville, FL; University of Florida

B9: Like a Rock: Atypical Presentation of a Heavily Calcified Atrial Myxoma

Chinwe Nwosu, MD, Baltimore, MD; Seema Deshpande, MBBS, Baltimore, MD; Resident; Assistant Professor

B239: Reoperative Mechanical Aortic Valve Replacement in a Patient With Dwarfism

Craig Belon, MD; Joanthan Hastie

B240: Transesophageal Echocardiography Revealed Left Arterial Rupture in Patient With Whom Left Ventricle Rupture Were Suspected After Mitral Valve Replacement

Toshihiro Kono, MD; Yoshihiko Ohnishi, MD; Kenji Yoshitani, MD

Resident/Fellow Complex Case Presentations

Complex Case Oral Presentation With Expert Panel

Saturday, April 11, 1–2 pm

Room: Monument

Profound Hypotension Caused by an Unrecognized Aortocaval Fistula in a Patient Undergoing Coronary Artery Bypass Grafting

Ryan Butterworth, MD; Mias Pretorius, MBCHB MScI; Nashville, TN; Vanderbilt University Medical Center

Novel Cannulation Approach for TandemHeart™ Right Ventricular Assist Device in Setting of Internal Jugular Venous Thrombosis and Bilateral Subclavian Stenosis

Stacy Krueth, Los Angeles, CA; Danny Ramzy, MD PhD, Los Angeles, CA; Antonio Conte, MD MBA, Los Angeles, CA; Lorraine Lubin, MD, Playa Del Ray, CA; Diba Daneshrad, MD, Cedars Sinai Medical Center; Cedars-Sinai Medical Center

The Cabral Baffle: Achieving Hemostasis in a Patient With a Pseudoaneurysm of the Mitral-Aortic Intervalvular Fibrosa Undergoing Redo Aortic Root Replacement With Homograft for Endocarditis

Adrian Ionescu, MD, Boston, MA; Carolyn Mehaffey, MD Boston, MA; Massachusetts General Hospital–Harvard Medical School

Transcatheter Closure of Aortopulmonary Fistula: Role of Intraoperative Transesophageal Echocardiography

Abraham Sonny, MD, Cleveland, OH; Anand Mehta, MD, Cleveland, OH; Cleveland Clinic, Cleveland, OH

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations II

Saturday, April 11, 5-6 pm

Room: Marquis Foyer & Salons 12-14

B28: Coronary Artery Graft Thrombosis From Undiagnosed Factor V Leiden Deficiency Immediately After Coronary Artery Bypass Surgery

Vandy Gaffney, MD MS, North Augusta, SC; Tyler Lee Evans, DO, Evans, GA; Vikas Kumar, Augusta, GA; Sanjay Dwarakanath, MD, Augusta, GA; Resident Physician; Supervising Physician

B100: Rare Complication of Atrio-Esophageal Fistula After Ablation for Atrial Fibrillation

Michael Fabbro; Jonathan Frogel, MD, Philadelphia, PA; Jared Feinman, MD, Philadelphia, PA; Prakash Patel, MD, Newtown, PA; University of Pennsylvania

B101: CPAP and Sedation for SVC Stent Placement for Severely Symptomatic SVC Syndrome: The Best Anesthetic in a Difficult Situation!

Man Piu Wong, MD, Boston, MA; John Fox, MD, Hanover, MA; Robert Pilon, MD, Boston, MA; Alisa Suzuki Han, MD, Boston, MA; Galina Davidyuk, MD PhD, Boston, MA; Brigham and Women's Hospital

B102: Sepsis and Cardiopulmonary Bypass

Wesley Allen, MD, Columbia, MO; Magda Miller, MD, Columbia, MO; Joseph Reeves-Viets, MD MBA, Columbia, MO; University of Missouri-Columbia

B103: Acute Ischemic Ventricular Septal Defect and Inferior Wall Aneurysm Necessitating Emergent Veno-Arterial Extracorporeal Life Support Complicated by Heparin-Induced Thrombocytopenia and Non-Coronary Aortic Valve Thrombus on Bivalirudin

Gregory Weiss, MD, Lafayette, Colorado; Kari Obma, MD, Denver, CO; University of Colorado Hospital

B104: Open Heart Implantation of a Melody Valve in a Native Mitral Valve With Mitral Annular Calcification

John Charoonbara, MD, Belleville, NJ; Himani Bhatt, DO MPA, Forest Hills, NY; Icahn School of Medicine at Mount Sinai

B105: Massive Air Embolism Treated With Targeted Temperature Management

Tyler Lee Evans, DO, Evans, GA; Erin Switzer, DO, Evans, GA; Vikas Kumar, Augusta, GA; Sanjay Dwarakanath, MD, Augusta, GA; Manuel Castresana, MD, Augusta, GA; Georgia Regents University

B106: Concurrent Transcatheter Aortic and Mitral Valve-in-Valve Implantation via the Transapical Approach in a High-Risk Patient With Double Degenerated Bioprostheses

Loreen Mane, MD; Ettore Crimi, MD, Gainesville, FL; Thomas Beaver, MD, Gainesville, FL; University Florida, College of Medicine

B107: The Central Role of Nitric Oxide in Vasopressor-Refractory Protamine Hypotension

June Chan, MBBS FANZCA, New York, NY; Adam Lichtman, MD FASE, Brooklyn, NY; Emil Bogdanov, MD, New York, NY; New York Presbyterian Hospital-Weill Cornell Medical Center

B108: Postoperative Neurologic Compromise Related to Migration of Native Valve Fragment Following Robotic Mitral Valve Annuloplasty

Michelle Scanlon, DO; Gregory Kim; Glen Quigley, MD MBA; Robert Nampiaparampil, MD; Jennie Ngai, MD

B109: Bridging to Transplant: Anesthetic Management of a Left Ventricular Assist Device Implantation Without Cardiopulmonary Bypass

Matthew Waldron, MD, Chicago, IL; Rima Griauszde, MD, Chicago, IL; University of Florida; Northwestern University

B110: Combined Adrenal Pheochromocytoma Resection and Off-Pump CABG

Bradley Coker, MD, Birmingham, AL; Benjamin Tuck, MD, Mountain Brook, AL; James Sparrow, MD, Birmingham, AL; Brad Hymel, MD, Baton Rouge, LA; Fellow; Attending

B111: Isolated Right-Sided Endocarditis and Severe Septic Emboli

Christopher Der, MD; Diba Daneshrad, MD; Antonio Conte, MD MBA; Lorraine Lubin, MD

B112: Transcatheter Aortic Valve Replacement Complication: Uncertainties of Primary Valve Deployment

Nawar Al-Rawas, MD, Gainesville, FL; Kent Berg, MD MBA, Gainesville, FL; Gregory Janelle, MD FASE, Gainesville, FL; Robert Timmerman, MD, Gainesville, FL; University of Florida

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

Justin Tawil, MD, Pittsburgh, PA

B114: Inadvertent Right Atrial Perforation During Pulmonary Artery Catheter Insertion in a Patient With Indwelling Pacemaker Wires

Cory Robertson, MD; Pushpa Koyyalamudi, MD; Seth Baker, MD

B115: Cardiac Tamponade Presenting as a Posterior Effusion Secondary to Right Ventricular Perforation During TAVR and Pacemaker Placement

John Berry; Feroze Mahmood, MD, Sharon, MA; Beth Israel Deaconess Medical Center

B116: Perioperative Management of a Hysterectomy Patient With a Difficult Airway and a Previous Fontan Procedure

Michelle Gorgone, MD, Dorchester, MA; Joseph Weidman, MD, Boston, MA; Massachusetts General Hospital

B117: An Unusual Case of Main Pulmonary Artery Stenosis

Ellen Richter, MD, Atlanta, GA; Mark Caridi-Scheible, MD, Atlanta, GA; Emory University Hospital

B118: Hypermetabolic Syndrome Masked by Cardiopulmonary Bypass in a Man With Idiopathic Cardiomyopathy

Christopher Press, MD, Palo Alto, CA; Jimmy Wong; Stanford University Medical Center

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations II

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

B119: Complications of the Mitral Clip

Aaron Wolfe, MD; Ravi Vivekanand Joshi, MD, Dallas, TX; Norman Huang, DO, Carrollton, TX; University of Texas Southwestern

B120: Atrioventricular Groove Tear During Mitral Valve Repair: A Case Report

Gerald Rosen, MD, Miami Beach, FL; Jonathan Lin, MD, Miami, FL; MSMC; Mount Sinai Medical Center

B61: Acute Supravalvular Aortic Stenosis After Type A Aortic Dissection Repair

Phebe Ko, MD, Boston, MA; Jeffrey Swanson, MD, Cambridge, MA; Charles Nyman, MB BCh, Waban, MA; Stanton Sherman, MD FASE, Boston, MA; Michael D'Ambra, MD, Cambridge, MA; Brigham and Women's Hospital

B62: Isolated Pulmonary Native Valve Infectious Endocarditis (PNVIE)—A Rare Event With a Rare Organism

Huan Wang, MD, Brookline, MA; Nelson Thaeemert, MD, Boston, MA; Brigham and Women's Hospital

B63: Experience of Recall of Intraoperative Awareness After Cardiac Surgery

Hye Joo Yun; Ji-Yeon Sim

B64: Acquired Gerbode Defect in a Patient Following Mitral Valve Replacement

Nathan Lee, MD, Albuquerque, NM; Lev Deriy, MD, Albuquerque, NM; Neal Gerstein, MD FASE, Albuquerque, NM; Kirsten Tolstrup, MD FACC FASE, Albuquerque, NM; University of New Mexico School of Medicine

B65: A Case of Severe Biventricular Failure and Cardiac Arrest Secondary to Acute Eosinophilic Necrotizing Myocarditis Rescued on Venoarteriovenous ECMO

Nicholas Yeldo, MD, West Bloomfield, MI

B66: Pain Control and Sedation in a Patient on Extracorporeal Membrane Oxygenation: An (In)Consistent Challenge

Marilyn Michelow, MD; David Silver, MD; Lauren Cornella, MD

B67: Perioperative Considerations of Transient Severe Mitral and Tricuspid Regurgitation Secondary to Dysrhythmia and Pacemaker Augmented Dyssynchrony

Pankaj Jain, MD, Cleveland, OH; Jennifer Hargrave, DO, Cleveland, OH; Cleveland Clinic Foundation

B68: Explant of Aortic Endo-Graft, Case Report and Anesthetic Considerations

Alexandru Gottlieb, MD, Cleveland, OH; R. Pol; J Alvares, MD; Cleveland Clinic; Fellow

B69: Massive Pulmonary Embolism During Bilateral Lung Transplantation Diagnosed With Transesophageal Echocardiography

Leah Gross, MD; Stephen Bird, San Antonio, TX; UTHSCS; SAUSHEC

B70: Aortic Root Replacement With Concurrent Glioma

Daniel Broderick, MD, Atlanta, GA; Sofia Fischer, MD, Atlanta, GA; Emory University School of Medicine

B71: Successful Repair of Traumatic Retrohepatic Vena Cava Injury by Using Cardiopulmonary Bypass

Michael McClain, DO, Lexington, KY; Oksana Klimkina, MD, Lexington, KY; University of Kentucky

B72: Intramural Esophageal Hematoma After Transesophageal Echocardiography for Percutaneous Mitral Valve Repair With MitraClip

Matthew McConnell, MD, Cleveland Heights, OH; Jennifer Hargrave, DO, Cleveland, OH; Cleveland Clinic

B73: Unicuspid Aortic Valve With a Right Aortic Arch and a Persistent Left Superior Vena Cava Requiring an Aortic Valve Replacement and Ascending Aortic Aneurysm Repair

Cesar Padilla, MD, Los Angeles, CA; Harish Ram, MD, Los Angeles, CA; Manxu Zhao, MD, Los Angeles, CA; Resident; Cardiac Anesthesiology Fellow; Anesthesia Attending

B74: An Unexpected Finding After Unsuccessful Percutaneous Tricuspid Valve Replacement

Marc Gutierrez, MD, Nashville, TN; Mias Pretorius, MBCHB MSCI, Nashville, TN; Vanderbilt University Medical Center

B75: Migrating Aortic Valve Placed via Trans Apical Approach

Matt Maxwell, MD MPH, Iowa City, IA; Srinivasan Rajagopal, MD, Iowa City, IA; University of Iowa Hospital

B76: Intracardiac Mass of Candida Albicans Following Total Parental Nutrition Use in a Medically Complicated Patient

Joann Bolton, MD, Atlantic Beach, FL; Archer Martin, MD, Jacksonville, FL; Mayo Clinic Florida

B77: Repeated Cardioplegic Arrest of Donor Allograft During Orthotopic Heart Transplant

Natalia Martinez Acero, Harrisburg, PA; Erina Ng, MD, Baltimore, MD; Theodore Cios, MD MPH, Hershey, PA; Behzad Soleimani, MD, Hershey, PA; Dmitri Guvakov, MD, Hershey, PA; Penn State University Hershey Med Center

B78: Left Ventricular Outflow Tract to Left Atrium Fistula Due to Aortic Homograft Endocarditis

Thuan Ho, MD; Tan Trinh, MD, Galveston, TX; Erin Sreshta, MD, Galveston, TX; University of Texas Medical Branch

B79: TEE-Guided Arterial Cannulation in Chronic Aortic Arch Dissection

Natasha Malackany; Shiva Sale, MD, Beachwood, OH; Cleveland Clinic

B80: Ascending Aortic Thrombus in a Nonaneurysmal Minimally Atherosclerotic Aorta

Dustin Dayton; Tara Humphrey, DO

B81: Acute Mitral Regurgitation Caused by Papillary Muscle Rupture After Acute Myocardial Infarction

Sarah Cardillo, MD; Patrick Odonkor, MD, Laurel, MD; U of Maryland School of Medicine

B82: Pulmonary Edema After Radiofrequency Ablation—Not All Ablation Catheters Are Equal!

Dirk Varelmann, MD DESA EDIC, Boston, MA; Frank Inglese, BS, Boston, MA; John Fox, MD, Hanover, MA; Brigham and Women's Hospital

Resident/Fellow Complex Case Presentations

B83: Risk to Life and Limb: Prosthetic Valve Endocarditis With Subsequent Brachial Artery Thrombus

Gregory Kim, New York, NY; Paul Shekane, MD, New York, NY; June Rim, MD, New York, NY; Peter Neuburger, MD, New York, NY; Jennie Ngai, MD, New York, NY; New York University Medical Center

B84: Right-to-Left Shunting Across a Patent Foramen Ovale Causes Hypoxia in a Patient With Aortic Root Compression of the Right Atrium

Carly Guthrie, MD, Boston, MA; Charles Nyman, MB BCh, Waban, MA; Brigham and Women's Hospital

B85: Right Ventricular Assist Device Utilization After Post Infarct Ventricular Septal Rupture Repair

Marco Del Castillo; Antonio Chiricolo, MD

B86: Pulmonary Vein Thrombosis Following Single-Lung Transplantation

Danielle McCall, MD, University of Louisville, Louisville, KY

B87: Percutaneous Extraction of a High-Risk AICD Lead With Large Vegetations: A Procedural Conundrum

Amanda Kleiman, MD; Gautam Sreeram, MD

B88: "Run Of My Life": Anomalous Course of Left Main Coronary Artery in a Young Female Marathon Runner.

Poovendran Saththasivam, Philadelphia, PA; Michael Green, DO, Moorestown, NJ; Naomi Smukler, MD; Hahnemann/Drexel University

B89: Drain or No Drain? The Safety of CSF Drain Placement in an Emergent Type A Aortic Dissection Repair With TEVAR

Bryistol Henderson, MD, Charleston, SC; James Abernathy, MD MPH, Charleston, SC; Eric Nelson, DO, Charleston, SC; Medical University of South Carolina

B90: A Case of Orthotopic Liver Transplant in a Patient With Brugada Syndrome

Kimberly Nicol, DO, Birmingham, MI; Santiago Uribe-Marquez, MD; Michael Isley, MD; Lebron Cooper, MD; Henry Ford Hospital, Detroit, MI

B91: Management of Iatrogenic Right Ventricle Free Wall Perforation During Epicardial VT Ablation: Percutaneous Repair With an Amplatzer Closure Device

Natalie Hamilton, MD, Denver, CO; Matthew Zipse, MD, Denver, CO; John Messenger, MD, Aurora, CO; John Carroll, MD, Aurora, CO; William Sauer, MD, Aurora, CO; Ashok Babu; Tamas Seres, MD, Aurora, CO; University of Colorado

B92: Tricuspid Valve Rupture During AngioVac Suction Pulmonary Embolectomy

Omar Satter, MD, Los Angeles, CA; Lorraine Lubin, MD, Playa Del Ray, CA; Cedars-Sinai Medical Center

B93: Transesophageal Echocardiography Guides Surgical Intervention in a Patient With Platypnea Orthodeoxia Syndrome Undergoing Valve-Sparing Aortic Root Replacement

Adrian Ionescu, MD, Boston, MA; Michael Andrawes, MD, Boston, MA; Massachusetts General Hospital-Harvard Medical School

B94: The Use of Transesophageal Echocardiographic Transducer for Continuous Fetal Monitoring in Pregnant Patients Undergoing Cardiac Surgery.

Atsushi Egawa, Shimotsuke-Shi, Tochigi, Japan; Kenji Yoshitani, MD, Suita Osaka, Osaka, Japan; Yoshihiko Ohnishi, MD, Suita Osaka, Osaka, Japan; National Cerebral and Cardiovascular Ctr

B95: Anesthetic Management of Combined Heart-Liver Transplantation for Familial Amyloidosis

Matthew Barker, MD; Pingle Reddy, MD FASE

B96: An Unusual Case of a Large Intracardiac Tumor Extending Into the Left Ventricular Outflow Tract

Daniel Wyler, MD, New York, NY; Isaac Yoshii, MD, New York, NY; Cindy Wang, MD, New York, NY; Resident; Attending

B97: Right Ventricular Outflow Tract Mass Removal in a Parturient

Andrea Girnius, MD, Cincinnati, OH; Matthew Wallace, MD, Cincinnati, OH; University of Cincinnati

B98: Rapid Ventricular Pacing as a Rescue Option During Port Access Cardiac Surgery After Unsuccessful Aortic Endoclamp

Michael Fabbro; Ronak Shah, MD, Philadelphia, PA; Prashanth Vallabhajosyula, MD MS, Philadelphia, PA; W. Clark Hargrove, MD, Philadelphia, PA; Prakash Patel, MD, Newtown, PA; University of Pennsylvania

B99: Acute on Chronic Arch Dissection in a Patient With Turner Syndrome, Marfan Syndrome and Prior AVR/Aortic Root Repair

John McNeil, MD, Baltimore, MD; Ana Parsee, MD, Baltimore, MD; Kenton Zehr, MD, Baltimore, MD; Dan Berkowitz, MD, Baltimore, MD; Johns Hopkins Hospital

B241: Anesthetic Considerations in a Case of Combined On-Pump Aortocoronary Bypass With Mitral Valve Annuloplasty and Retrosternal Thyroidectomy

David Lin, MD; Ramesh M. Singa, MD MHS; Soma Shanker

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations III

Sunday, April 12, 10-11 am

Room: Marquis Foyer & Salons 12-14

B179: The Role of Transesophageal Echo in the Staged Repair of an Aortopulmonary Fistula From a Large Ascending Aortic Pseudoaneurysm

Daniel Winter, MD, University Heights, OH; Andrej Alfircic, MD, Richfield, OH; Cleveland Clinic

B121: RFA With Esophageal Thermal Injury and Perforation and Cerebrovascular Accident

Shea Stoops, DO; Robert Devine, MD, Lenexa, KS; University of Kansas Medical Center

B122: Endocarditic TAVR Sapien Valve Excision With Open Redo Sternotomy Sapien Valve Procedure

Eric Kaderbek, MD, Texas Heart Institute, Niceville, FL

B123: Diagnosis and Treatment of Left Ventricular Assist Device Extrinsic Outflow Graft Obstruction

Campbell Williams, MD, Northwestern Memorial Hospital, Chicago, IL

B124: Intraoperative Discovery of a False Positive Chronic Type A Dissection as Diagnosed by EKG-Gated Computed Tomography and Transesophageal Echocardiography

Michael Majewski, MD, Hanover Park, IL

B125: Thoracoabdominal Aortic Aneurysm Repair in a Patient With a Previously Corrected Aortic Arch Interruption

Meena Bhatia, MD, Houston, TX

B126: Massively Increased Pulmonary Dead Space Post Cardiopulmonary Bypass (CPB): An Uncommon Occurrence?

Pingping Song, MD, Brookline, MA; George Topulos, MD, Boston, MA; John Fox, MD, Hanover, MA; Brigham and Women's Hospital

B127: Inhaled Nitric Oxide Use After Right Coronary Artery Occlusion During Transcatheter Aortic Valve Replacement

Jonathan Zoller, MD, Kansas City, MO; Peter Hild, MD, Kansas City, KS; Kansas University - Kansas City; Kansas University Medical Center

B128: Propofol Sedation During Iliofemoral Thrombectomy on Veno-Venous Bypass Pump

Ramesh Singa, MD MHS, West Orange, NJ; George Tewfik, MD, Bloomfield, NJ; Saint Barnabas Medical Center

B129: Unrecognized Systolic Anterior Motion of the Mitral Valve Mistaken for Pulmonary Embolism

Shea Stoops, DO; Stephen Tarver, MD, Overland Park, KS; University of Kansas Medical Center

B130: A Rare Case of Dopamine Secreting Mediastinal Paraganglioma Presenting With Coronary Steal

Jamahal Luxford, MBBS, Boston, MA; Lauren Cornella, MD, Boston, MA; Brigham and Women's Hospital

B131: A Course Uncharted in the Land of EP: Navigating VT Ablation in a Patient With a Heartmate II Ventricular Assist Device

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

B132: Anesthetic Management of Left Atrial Perforation by Central Venous Catheter in a Hemodialysis Patient Requiring Open-Heart Surgery

Kevin Wong, DO, Danville, PA; Barry Marks, DO, Danville, PA; Joseph Stemm, MD, Danville, PA; Susan Trocciola, MD, Danville, PA; Geisinger Medical Center

B133: Change in Management Plan of Thoracic Endovascular Aortic Repair Following Intraoperative Identification of a Cardiac Mass by Transesophageal Echocardiography

Mauricio Daher; A. Gomes, MD PhD, Ottawa, ON, Canada; Marie-Jo Plamondon, MDCM FRCPC, Ottawa, ON, Canada; The Ottawa Hospital; University of Ottawa

B134: Aorto-Mitral Curtain Fistula Following Aortic Valve Replacement

Wendy Haft, MD; Sudhakar Yennam, MD

B135: Challenges of Valve-in-Valve Transcatheter Aortic Valve Implantation Under Local Anesthesia

Nishita Patel; Adair Locke, MD, Winston-Salem, NC; Department of Anesthesia

B136: Anesthetic Care of a Patient With Caval Leiomyosarcoma Requiring Ex-Vivo Liver Resection and Reconstruction of the Right Atrium and Inferior Vena Cava

Wendy Haft, MD; Theresa Gelzinis, MD

B137: Acute Mitral Valve Annuloplasty Ring Dehiscence With Subsequent Failed Mitral Replacement Valve and Profound Vasoplegia Post-Cardiopulmonary Bypass

Stacy Krueth, Los Angeles, CA; Ali Khoynzhad, MD PhD, Los Angeles, CA; Reza Arsanjani, MD, Los Angeles, CA; Robert Siegel, MD; Daniel Sullivan; Antonio Conte, MD MBA, Los Angeles, CA; Cedars-Sinai Medical Center; Cedars-Sinai Medical Center

B138: Percutaneous Balloon Occlusion of HeartWare Outflow Cannula After Complete Drive Wire Transection

Matthew McFarling, MD FRCPC, Woodstock, ON, Canada; Benjamin Sohmer, MD, Ottawa, ON, Canada; Alexander Dick, MD, Ottawa, ON; Ottawa Heart Institute

B140: Incidental Finding of a Ventricular Septal Defect After Surgical Aortic Valve Replacement in a Patient Presenting for Mitral Valve Clip

Lauren Frizzell, MD, Los Angeles, CA; Lorraine Lubin, MD, Playa Del Ray, CA; Antonio Conte, MD MBA, Los Angeles, CA; Saibal Kar, MD; Rebecca Aron, MD, Los Angeles, CA; Cedars-Sinai Medical Center

B141: Incidental Anomalous Hepatic Venous Drainage in a Transfemoral Aortic Valve Replacement (TAVR) Patient

Stacy Krueth, Los Angeles, CA; Raj Makkar, MD; Reza Arsanjani, MD, Los Angeles, CA; Antonio Conte, MD MBA, Los Angeles, CA; Rebecca Aron, MD, Los Angeles, CA; Cedars-Sinai Medical Center

Resident/Fellow Complex Case Presentations

B142: Perioperative Cardiac Arrest: How to Manage and for How Long?

Michael Kaczmariski, Miami, FL; Yiliam Rodriguez, MD, Miami, FL; Jackson Memorial Hospital; Jackson Memorial Hospital/ University of Miami Health

B143: Refractory Bleeding After Ventricular Assist Device Implantation: Is There a Role for Prothrombin Complex Concentrate?

Megan Krajewski, MD, Durham, NC; Ian Welsby, MBBS FRCA, Durham, NC; Duke University

B144: Vitamin B12 Administration in the Treatment of Vasoplegic Syndrome Resistant to Methylene Blue in a Patient for Aortic Valve Replacement

Patrick Wolfgang, Richmond, VA; Pingle Reddy, MD FASE, Glen Allen, VA; Vigneshwar Kasirajan, MBBS, Richmond, VA; David Farr, MD, Chesterfield, VA; VCUHS

B145: Ventricular Embolization of a Transcatheter Heart Valve During Transapical Transcatheter Aortic Valve Implantation With Successful Transapical Explantation

Richard Beddingfield, MD, Minneapolis, MN; Emil Missov, MD PHD, Minneapolis, MN; Mojca Remskar Konia, MD PhD, Minneapolis, MN; University of Minnesota

B146: Amniotic Fluid Embolism: A Potential Role of Metoclopramide, Atropine, Ketorolac, and Ondansetron?

Brian Kelly, Boston, MA; Jeffrey Lyvers, MD, Boston, MA; Joshua Quick, MD, Cambridge, MA; Philip Krapchev, MD, Cambridge, MA; Carlo Pancaro, MD, Boston, MA; Danielle Roncari, MD MPH, Brookline, MA; Kenneth Warner, MD, Needham, MA; Shohreh Modanlou, MD, Boston, MA; Adel Ghuloom, MD, Andover, MA; Robert Knapp, DO JD, Duxbury, MA; Frederick Cobey, MD MPH FASE, Cambridge, MA; Tufts Medical Center

B147: An Unusual Cause of Acute Hemodynamic Instability During Transcatheter Aortic Valve Replacement (TAVR) Using CoreValve Evolut R via Direct Aortic Access

John Berry; Adam Lerner, MD, Georgetown, MA; Beth Israel Deaconess Medical Center

B148: Extraction of Abdominal Aortic Stent and Axial-Femoral Bypass for Loeys-Dietz Syndrome After Total Aortic Replacement

Kyoko Furumoto, MD, Suita-City, Osaka, Japan; Kenji Yoshitani, MD, Suita, Osaka, Osaka, Japan; Yoshihiko Ohnishi, MD, Suita Osaka, Osaka; National Cerebral and Cardiovascular Ctr

B149: Mitral Transapical Transcatheter Valve-In-Valve Implantation in an Elderly Patient With Dysfunctional Bioprosthetic Mitral Valve

Elbert Chang, DO, Pasadena, CA

B150: Rapid Resolution of Peripartum Cardiomyopathy With a Minimally Invasive Ventricular Assist Device After Cesarean Delivery

Cesar Padilla, MD, Los Angeles, CA; Donald Park, MD, Los Angeles, CA; Resident; Teaching Attending

B151: Stent Placement for Aortic Recoarctation in a Pediatric Patient via Direct Cannulation of the Ascending Aorta

Cesar Padilla, MD, Los Angeles, CA; Robert Wong, MD, Alhambra, CA; Lorraine Lubin, MD, Playa Del Ray, CA; Adeline Kim, BS, Los Angeles, CA; Resident; Teaching Attending; Rotating Medical Student

B152: Perioperative Management of Pericardial Angiosarcoma

Eric Ursprung, MD, Brookline, MA; Philip Chan, BS, Boston, MA; Shahzad Shaefi, MD, Boston, MA; Tufts Medical Center; Beth Israel Deaconess Medical Center

B153: Intraoperative Aortic Dissection Following Cardiac Revascularization

Benjamin Judd, MD; Emily Teeter, MD; Brett Sheridan, MD

B154: Anomalous Coronary Artery Distribution Evaluated With Intraoperative Transesophageal Echocardiography

Nawar Al-Rawas, MD; Robert Timmerman, MD, Gainesville, FL; Gregory Janelle, MD FASE, Gainesville, FL; University of Florida

B155: Intraoperative Transesophageal Echocardiography to Monitor Dynamic Pulmonary Artery Physiology During Noncardiac Surgery

Michael Plakke, MD, Durham, NC; Cory Maxwell, Durham, NC; Eugene Moretti, MD, Durham, NC; Brandi Bottiger, MD, Durham, NC; Duke University Health System

B156: Tumorous Cystic Structure of the Foramen Ovale Resembling a Right Atrial Myxoma

Olabode Ogunwole, MD, San Antonio, TX; Justin Wilson, MD, Helotes, TX; Andrea Carpenter, MD PhD, San Antonio, TX; University of Texas Health Science Center San Antonio

B157: Post-Sternotomy Sternal Wire Fracture With Migration of the Wire Through the Right Heart

Jason Haus, MD, Ypsilanti, MI; Jennifer Vance, MD, Ann Arbor, MI; University of Michigan

B158: Hypotension in an LVAD Patient During Cardiopulmonary Bypass

Kendall Leonard, DO, Richmond, VA; Pingle Reddy, MD FASE, Glen Allen, VA; Stephanie Marcy, DO MBA, Richmond, VA; VCU Medical Center

B159: A Case of Right Ventricular Perforation by Temporary Pacemaker Lead and Cardiac Tamponade During Transfemoral Transcatheter Aortic Valve Implantation

Carter Peatross, MD, Rochester, MN

B160: Bivalirudin Used in Patient With History of Heparin-Induced Thrombocytopenia (HIT) With Previous Coronary Artery Bypass Graft (CABG)

Michelle Dacosta, MD; Saket Singh, MD, Pittsburgh, PA; Allegheny Health Network

B161: Mitral Valve Replacement in a Patient With Sickle Cell Disease/B+ Thalassemia: The Use of Perioperative Exchange Transfusion

Farhan Farooqui, MD, Schaumburg, IL; Mark Chaney, MD, Riverside, IL; University of Chicago Medicine

B162: Diagnosis of Hypovolemia Using Focused Bedside Transthoracic Echocardiogram in Three Kidney Transplant Recipients Presenting With Hemodynamic Instability in the Post-Anesthesia Care Unit

Colin Boettcher, BA, Eden Prairie, MN; Megan Lanigan, MD, Minneapolis, MN; Ioanna Apostolidou, MD, Minneapolis, MN; University of Minnesota

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations III

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

B163: Anesthetic Management of Traumatic Right Ventricular Rupture

Sajan Farrah, MD, Baltimore, MD; Zahra Malik, MD, Fairfax, VA; Shahab Khademi, DO, Baltimore, MD; Nhue Do, MD, Baltimore, MD; Kenton Zehr, MD, Baltimore, MD; Wei Dong Gao, PhD MD, Baltimore, MD; Johns Hopkins Hospital

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

B165: Non-Cardiogenic Pulmonary Edema Post-Cardiopulmonary Bypass

Michael Humsj; Molly Fitzpatrick, MD

B166: Systemic Ventricular Assist Device Implantation 43 Years After Atrial Switch Operation for Transposition of the Great Arteries

Sreekanth Cheruku, MD, Durham, NC; Alina Nicoara, MD, Durham, NC; Madhav Swaminathan, MD FASE, Durham, NC; Carmelo Milano, MD, Durham, NC; Kamrouz Ghadimi, MD, Durham, NC; Duke University Medical Center

B167: Bilateral Lung Transplant for Cystic Fibrosis With Superior Vena Cava Syndrome

Matthew McConnell, MD, Cleveland Heights, OH; Erik Kraenzler, MD, Cleveland, OH; Cleveland Clinic

B168: Management of Heparin Anticoagulation in the Setting of Antiphospholipid Syndrome in Patients Undergoing CABG

Leigh McGuffin, RN BSN, Boston, MA; Joshua Quick, MD, Cambridge, MA; Ian Welsby, MBBS FRCA, Durham, NC; Andreas Klein, MD, Boston, MA; Kenneth Warner, MD, Needham, MA; Stefan Ianchulev, MD, Marblehead, MA; Hassan Rastegar, MD, Boston, MA; Monika Pilichowska, MD PhD, Boston, MA; Perry Dekkers, BS CCP LP, Boston, MA; Frederick Cobey, MD MPH FASE, Cambridge, MA; Tufts Medical Center; Duke University Medical Center

B169: Inferior Vena Cava Obstruction Caused by a Malpositioned Septal Occluder Device

Daniel Cormican, MD, Cleveland Heights, OH; Donn Marciniak, MD, Broadview Heights, OH; Cleveland Clinic Foundation

B171: Invasive Intracardiac Leiomyomatosis Extraction, Necessitating Tricuspid Valve Replacement

Sachin Mehta, MD, Charlottesville, VA; Allison Bechtel, MD, Crozet, VA; Julie Huffmyer, MD, Charlottesville, VA; University of Virginia

B173: Total Artificial Heart Implantation for Familial Amyloidotic Polyneuropathy (FAP) as a Bridge to Combined Heart and Liver Transplant (CHLT)

Andrew Scharf, MD, Richmond, VA; Pingle Reddy, MD FASE, Glen Allen, VA; Virginia Commonwealth University Medical Center; Virginia Commonwealth Medical Center

B174: Technique for Safe Placement of a Transesophageal Echocardiogram Probe in a Patient With Zenker's Diverticulum Undergoing Mitral and Tricuspid Valve Repair

Brian Gebhardt, MD, Worcester, MA; Rana Badr, MD, North Grafton, MA; University of Massachusetts Medical School

B175: Aortic Root Enlargement Techniques: Remember the Mitral Valve!

Dionne Peacher, MD, Boston, MA; Douglas Shook, MD FASE, Newton, MA; John Fox, MD, Hanover, MA; Brigham and Women's Hospital

B176: Delayed Intraoperative Hypotension and ST Elevation MI After AVR in a Patient With an Unspecified Clotting Disorder and Secundum ASD

Lauren Hampton, MD; Kelly Ural, MD

B177: Left Ventricular Assist Device in Refractory Ventricular Tachycardia From Ischemic Cardiomyopathy

Saad Kamal, MD, Naperville, IL; Jenny Kwak, MD; Michael Haske, MD; Pierre LeVan, MD; Loyola University Medical Center, Maywood, IL

B178: Real-Time 2D and 3D TEE Guidance of Transcatheter Prosthetic Mitral Valve Paravalvular Leak Closure

Benjamin Carroll, MD; Lorraine Lubin, MD; Saibal Kar, MD; Florian Rader, MD; Rebecca Aron, MD

B18: TEE for Intraoperative Management of a Patient With Saddle Embolus and Systolic Anterior Motion of the Mitral Valve During Surgical Embolectomy

Lauren Hampton, MD; Logan Kosarek

B242: A 36 Year-Old Man With Uncorrected Tetralogy of Fallot, Biventricular Dysfunction, and a Large Pericardial Effusion

Sharon McCartney, MD; Edmund Jooste, MBCHB; Kelly Machovec, MD MPH

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations IV

Sunday, April 12, 5–6 pm

Room: Marquis Foyer & Salons 12–14

B180: Giant Pseudoaneurysm After Composite Root Replacement Causing Acute Myocardial Ischemia and Multiple Valvular Abnormalities

Yvonne Lai, MD, Boston, MA; Yafen Liang, MD, Boston, MA; Massachusetts General Hospital

B181: The Successful Use of Protamine With Confirmed Fish Allergy for CABG: Clinical Pearls and Perils

Silpa Goriparthi, MD, Philadelphia, PA; Jordan Goldhammer, MD, Philadelphia, PA; Tara Kennedy, MD, Philadelphia, PA; Thomas Jefferson University Hospital; Sidney Kimmel Medical College

B182: Intraoperative Management of Occult Hemorrhage Aided by Echocardiography

Michael Benggon, MD, San Diego, CA; Joel Kaplan, MD, Encinitas, CA; Dalia Banks, MD FASE, Rancho Santa Fe, CA; UCSD

B183: Case Report: TEE in the Diagnosis of Intraoperative Tumor Embolus

Emily McQuaid-Hanson; Maung Hlaing, MD, Denver, CO; University of Colorado

B184: Intraoperative Transesophageal Echocardiographic Diagnosis of the Abnormal Jet to the Left Atrial Appendage: A Case Report

Yasuko Nagasaka, MD PhD, Brookline, MA; Scott Streckenbach, MD; Massachusetts General Hospital, Harvard Medical School

B185: Intraoperative Diagnosis of an Intracardiac Tumor

Andrew Sosa; Emil Bogdanov, MD; Nikolaos Skubas, MD DSC FASE

B186: The Successful Use of Bivalirudin Anticoagulation Therapy for Double-Lung Transplantation With Arteriovenous Extracorporeal Membrane Oxygenation in a Patient With Heparin-Induced Thrombocytopenia Type II

Shira Black, DO, Beachwood, OH; Jennifer Hargrave, DO, Cleveland, OH; Cleveland Clinic

B187: Repair of a Type A Dissection in a Patient With Severe Left Ventricular Dysfunction as a Bridge to a Left Ventricular Assist Device

Uttam Shastri, MD, University of Alabama Birmingham, Hoover, AL

B188: Anesthesia for Left Atrial Retrocardiac Paraganglioma Resection

Matthew D'Haenens, MD, Pearland, TX; John Cooper, MD, Houston, TX; Texas Heart Institute at CHI St. Luke's Health-Baylor; Texas Heart Institute at CHI St. Luke's

B189: Perioperative Management of a Patient With Cold Urticaria for a Pulmonary Thromboendarterectomy Under Deep Hypothermia Circulatory Arrest

Joshua Dilley, MD, Boston, MA; Michael Fitzsimons, MD, Boston, MA; Gus Vlahakes, MD, Boston, MA; Robert Makar, MD PhD, Milton, MA; Cameron Wright, MD, Boston, MA; Elizabeth VanCott, MD, Boston, MA; Mandakolathur Murali, MD, Burlington, MA; Massachusetts General Hospital

B190: Radiofrequency Scanning for Retained Surgical Instruments Can Cause Epicardial Pacemaker Dysfunction During Cardiac Surgery

Michael Plakke, MD, Durham, NC; Sean Daley, MD, Durham, NC; Yasmin Maisonave, MD, San Juan, PRI; Duke University Medical Center

B191: Large Pulmonary Artery Angiosarcoma Requiring Right Pulmonary Artery Resection and Right Pneumonectomy

Andrea Reidy, MD, Pittsburgh, PA; Ricardo Cardenas, MD, Sewickley, PA; Allegheny Health Network

B192: Use of Intraoperative ECMO for Intolerance to One-Lung Ventilation

Yvonne Lai, MD, Massachusetts General Hospital, Boston, MA

B193: Thoracoabdominal Aortic Aneurysm Repair in a Patient With Lealos-Dietz Syndrome

Tarun Subrahmanian, MD, Rochester, NY; Korrin Scott, MD, Atlanta, GA; Emory University

B194: Lung Reperfusion Injury Following One-Lung Ventilation for Mini-AVR

Jay Sanford, DO, Richmond, VA; Vishal Yajnik, MD MS, Richmond, VA; David Farr, MD, Chesterfield, VA; Pingle Reddy, MD FASE, Glen Allen, VA; Vigneshwar Kasirajan, MBBS, Richmond, VA; CA-2 Resident, Virginia Commonwealth University Health System; Virginia Commonwealth University Health System; Cardiothoracic Anesthesiology Fellow, Virginia Commonwealth University Health System; Virginia Commonwealth University Health

B195: Anaesthesia Management for "Anomalous Origin of Left Coronary Artery From Pulmonary Artery" Repair

Kapil Gupta, MD, Delhi, Delhi, India

B196: Provocable Dynamic Outflow Tract Obstruction in a Patient With Hypertrophic Obstructive Cardiomyopathy

Chinwe Nwosu, MD, Baltimore, MD; Patrick Odonkor, MD, Laurel, MD; Resident; Assistant Professor

B197: Perioperative Management of a Patient With Aorto-Esophageal Fistula

Ashley Gabrielsen, DO, Worcester, MA; James Scott, Worcester, MA; Theofilos Matheos, MD; University of Massachusetts Medical Center

B198: Rotational Thromboelastometry (ROTEM™) to Evaluate Post-Cardiopulmonary Bypass Coagulopathy in a Patient With Hemophilia A

Lingesh Sivanesan, MD; Adam Lichtman, MD, Brooklyn, NY; Weill Cornell Medical Center

B199: Failed Wean From CPB After Bentall Procedure

Benjamin Ellis, MD, Iowa City, IA; Srinivasan Rajagopal, MD, Iowa City, IA; University of Iowa

B200: Undiagnosed Pheochromocytoma Presenting as Cardiac Shock: A Case Report

Rachel Sloan; Johannes Dorfling, MBChB, Lexington, KY; Johannes Steyn, MD, Versailles, KY; University of Kentucky

Resident/Fellow Complex Case Presentations

Complex Case Poster Presentations IV

Sunday, April 12, 5–6 pm (continued)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

B218: Fatal Massive Intracardiac Thrombosis: Unexpected Complication During Repair of Complex Aortic Dissection With Pseudoaneurysm
Jayakar Guruswamy, MD, Troy, MI; Cory Koenig, Clawson, MI; Paul Polyak, MD, Rochester, MI; Lebron Cooper, MD, Detroit, MI; Henry Ford Hospital

B219: TEVAR and Cerebellar Herniation
Michael Foley, MD, Boston, MA; Marc Schermerhorn, MD, Boston, MA; Mark Wyers, MD, Boston, MA; Allen Hamdan, MD; Lars Stangenberg, MD PhD, Boston, MA; Ruma Bose, MD, Chestnut Hill, MA; Balachundhar Subramaniam, MD MPH, Lexington, MA; Beth Israel Deaconess Medical Center (BIDMC), Boston, MA; BIDMC

B220: Acquired Mitral Dysfunction and Systolic Anterior Motion During Coronary Artery Bypass Grafting Necessitating Mitral Valve Replacement
Alexander Kuo, MD, Boston, MA; Meerim Cindy Kim, MD, Boston, MA; Jason Qu, MD, Charlestown, MA; Massachusetts General Hospital

Resident/Fellow Complex Case Presentations

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

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

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

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

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

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

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

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

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

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

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

B232: Case Report of Intraoperative Embolism: A Critical Event During Left Atrial Mass Resection
John Hui, MD, Bronx, NY; Andrey Apinis, MD, Montclair, NJ; Jonathan Leff, MD; Montefiore Medical Center/Albert Einstein College of Medicine; Montefiore Medical Center

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

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

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

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

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

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

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

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

Sponsors

SCA thanks the following organizations for providing support to the 37th SCA Annual Meeting & Workshops/15th ICCVA.

Platinum



COVIDIEN

Silver



The
Medicines
Company

Bronze



Exhibit Schedule

Sunday, April 12

Exhibits Open

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

Monday, April 13

Exhibits Open

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

Tuesday, April 14

Exhibits Open

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

Exhibitors

3M Health Care	Haemonetics®	Ornim, Inc.
AcelRx Pharmaceuticals, Inc.	HeartWorks by Inventive Medical Ltd.	PharMEDium Services, LLC
American Anesthesiology	Helena Laboratories	Preferred Physicians Medical
American Society of Echocardiography	HemCon Medical Technologies	rEVO Biologics
<i>Anesthesiology News</i>	Hitachi Aloka Medical	SafeOp Surgical
Augustine Temperature Management	KARL STORZ Endoscopy-America Inc.	Sheridan Healthcare
Biomed Simulation, Inc.	Kit Check	Siemens
Elsevier USA	MAQUET	TEM Systems, Inc.
EmCare	Mennen Medical Corp	The American Board of Anesthesiology
ETView Ltd	Mindray	Wolters Kluwer
GE Healthcare	National Board of Echocardiography, Inc.	

Commercial Support

SCA would like to thank the following organizations for providing support:

Accriva	Haemonetics®	Sorin Group
BioMed Simulation	HeartWorks by Inventive Medical Ltd.	St. Jude Medical
CAE	Helena Laboratories	Susquehanna Micro
CASMED	Integra	Teleflex
Cook Medical	MAQUET	TEM Systems
Covidien	Medtronic	Terumo
DiaPharma Group	Nonin	Thoratec
Edwards Lifesciences	Philips HealthCare	WL Gore
GE Healthcare	Siemens	

SCA Committee Meeting Schedule

Committee	Date	Time	Room
Atrial Fib Working Group	Monday, April 13	9–10 am	Scarlett
Blood Conservation Working Group	Sunday, April 12	3–4 pm	Scarlett
Cerebral Protection Working Group	Monday, April 13	4–5 pm	Silver Linden
ACTA Fellowship Certification Task Force	Monday, April 13	8–9:30 am	Dogwood
Clinical Practice Improvement	Sunday, April 12	8–9:30 am	Magnolia
Continuing Medical Education (CME)	Sunday, April 12	Noon–1:30 pm	Cherry Blossom
Committee Chairs	Monday, April 13	3–4 pm	Dogwood
Echo Week	Monday, April 13	10 am–Noon	Cherry Blossom
Economic/Governmental Affairs	Monday, April 13	8–9:30 am	Magnolia
Ethics	Sunday, April 12	8–9 am	Dogwood
Executive	Monday, April 13	1:30–2:30 pm	Cherry Blossom
Fellowship Program Directors	Sunday, April 12	8–9:30 am	Liberty IJK
Guidelines & Standards	Sunday, April 12	4–5 pm	Tulip
International	Sunday, April 12	Noon–1:30 pm	Magnolia
Member Engagement	Monday, April 13	11 am–12:30 pm	Magnolia
Newsletter	Sunday, April 12	4–5:30 pm	Cherry Blossom
Nominating	Monday, April 13	4–5 pm	Magnolia
Quality & Safety Leadership	Sunday, April 12	Noon–1:30 pm	Dogwood
Research	Saturday, April 11	Noon–5 pm	Magnolia
SCA/STS Database	Sunday, April 12	4–5:30 pm	Dogwood
Scientific Program	Friday, April 10	5:30–8:30 pm	Chinatown
	Tuesday, April 14	12–1:30 pm	Scarlett
Thoracic Anesthesia Symposium (TAS)	Saturday, April 11	1–3 pm	Cherry Blossom
Website Redesign Task Force	Sunday, April 12	4–5:30 pm	Magnolia

Interested in participating in SCA by serving on a committee?

Please complete the Committee Appointment Request Form in the annual meeting online syllabus.

Save the Date

SCA 38th Annual Meeting & Workshops



April 2-6, 2016

Manchester Grand Hyatt San Diego

CASMED

SCA BOOTH

221



FORE-SIGHT
Absolute Tissue Oximetry **ELITE**®

CASMED 800.227.4414 | www.casmed.com

The Most Accurate Insight into Cerebral Oxygenation



STOP THINKING ABOUT WHERE TO GO,
AND START THINKING ABOUT
JOINING US.

Shannon Smith
Recruiting Manager
(direct) 214.687.0691
SSmith@northstaranesthesia.com

northstaranesthesia.com

 **NorthStar**
ANESTHESIA
A Better Way to Operate.



Anesthesiologist!

Concerned about your patient's
Cerebral Blood Flow?



Take the guesswork out of your care:
www.ornim.com



Visit www.thrombate.com
to learn more

 **Thrombate III**[®]
antithrombin III (human)

© 2015 Grifols All rights reserved. February 2015 US/TH/0215/0006

Grifols Therapeutics Inc.
8368 US 70 West, Clayton NC 27520 – USA Tel. (919) 553 5011
www.grifols.com

GRIFOLS

The Root of Brain Function Monitoring

A more complete picture starts with more complete data



Please visit
Masimo at
Booth #204

SedLine[®] brain function monitoring for the Root[®] patient monitoring platform helps clinicians improve anesthetic management by enabling more individualized titration.

www.masimo.com

© 2015 Masimo. All rights reserved.
Caution: Federal law restricts this device to sale by or on the order of a physician.





NBE, Inc.
1500 Sunday Drive, Suite 102
Raleigh, NC 27607
Phone: (919) 861-5582
Email: info@echoboards.org

The National Board of Echocardiography announces
the 2015 administration of the

Advanced PTEeXAM and ReAPTE

*Examination of Special Competence in Advanced Perioperative Transesophageal
Echocardiography and Recertification Examination*

Examination Date: Friday, July 13, 2015

Deadlines to Submit Applications:

Early Registration..... Monday, March 16, 2015
Late Registration Monday, March 17, 2015 thru Monday, June 1, 2015

The NBE is pleased to offer a computer-based format multiple-choice examination through Prometric Testing Centers. Computer-based testing allows candidates to take his or her examination in a convenient testing center saving time and money. For additional information about the computer-based format and for an examination application, please visit our website at www.echoboards.org.

(Diplomates and Testamurs who passed the Advanced PTEeXAM in 1998-2006 are eligible to take the 2015 ReAPTE examination.)

**You can make
a difference.**

Reduce post-surgical complications by

32%¹

in your moderate to
high-risk patients.

Start here. Start now.

Visit Booth #102/104
Edwards.com/ESR

¹Grocott et al. Perioperative increase in global blood flow to explicit defined goals and outcomes after surgery: a Cochrane systematic review. *Br J Anaesth* 2013

Edwards, Edwards Lifesciences and the stylized E logo are trademarks of Edwards Lifesciences Corporation.
© 2014 Edwards Lifesciences Corporation.
All rights reserved. AR11707

Edwards Lifesciences
edwards.com
Irvine, California 92614 USA



Optimizing
the cardiovascular patient
Experience.

 **QUEST** Medical, Inc.

**Visit us in Booth 307
at SCA to learn more**

MPS®2
Myocardial
Protection System

RetroGuard®
Arterial Safety Valve

9520
Q2® MultiPort®
Manifold

800.627.0226
www.questmedical.com



© 2015 Quest Medical, Inc. MPS, RetroGuard, Q2 and MultiPort are registered trademarks of Quest Medical, Inc. 2015-02



Advanced Clinical Utility. Unprecedented Ease of Use.

**Now
Available!**



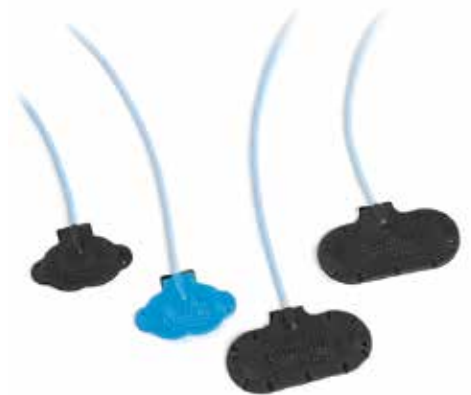
Introducing the SenSmart™ Model X-100 Universal Oximetry System

VERSATILITY AT YOUR FINGERTIPS. Experience state-of-the art accuracy with unprecedented ease of use in regional and pulse oximetry monitoring. Only Nonin Medical's compact SenSmart Oximetry System offers all that, plus patented dual-light emitting and detecting sensors that effectively remove surface tissue artifacts.



THE SENSMART ADVANTAGES:

- Sensors designed for pediatric to adult patients
- Smaller signal processors adapt to any ICU or OR environment
- Sensor-lock eliminates disconnections
- Exclusive six channel monitoring (rSO₂ and now SpO₂) for enhanced clinical utility
- Intuitive user interface with navigation buttons and color-coded display to ease operation
- Increased data storage for convenient access to information



Contact Nonin Medical for a free evaluation at
SenSmart.com or visit **SCA Booth #317**

TERUMO

NONIN
Leaders in *Noninvasive* Medical Monitoring

SenSmart™ is a registered trademark of Nonin Medical. ©2015 Nonin Medical, Inc. M-1615
Manufactured by Nonin Medical, Inc. in Plymouth, MN. Distributed in the USA by Terumo Cardiovascular Group, Ann Arbor, MI.



INVOS™ 5100C Cerebral/Somatic Oximeter

[The Clinical Standard¹]

INVOS™ Cerebral/Somatic Oximetry has set the standard in regional oximetry. Highly sensitive and responsive, the INVOS™ system is the trusted, clinical standard for regional oximetry. The INVOS system offers clinicians actionable measurements to help reduce adverse events, and improve patient care and outcomes.

We encourage you to visit [Covidien.com/RMS](https://www.covidien.com/RMS) for more information on the full portfolio of respiratory and patient monitoring products.

1. Covidien, INVOS™ Cerebral/Somatic Oximetry Clinical Evidence Bibliography—Cardiac Surgery, 13-PM-0290_STL, 2013.

COVIDIEN, COVIDIEN with logo, Covidien logo and *positive results for life* are U.S. and internationally registered trademarks of Covidien AG. Other brands are trademarks of a Covidien company. ©2014, 2015 Covidien. 14-PM-0022



COVIDIEN

positive results for life™