



AMERICAN ASSOCIATION
FOR THORACIC SURGERY
We Model Excellence

AATS ANNUAL MEETING 2016



SATURDAY AND SUNDAY SYMPOSIA

May 14 – 18, 2016

Baltimore Convention Center
Baltimore, MD, USA

www.aats.org

Welcome to the AATS 2016 Saturday Courses and Sunday Symposia

SATURDAY COURSES | MAY 14

Your Saturday all-access registration grants you admittance to all of the sessions taking place on Saturday from 8:00 AM to 3:30 PM in the Baltimore Convention Center (BCC).

Adult Cardiac Skills
Congenital Skills
General Thoracic Skills
Interprofessional Cardiothoracic Team Symposium
Optimal Therapies for End-Stage Thoracic Organ Failure
Surgical Ethics Course

Ballroom I, Level 400, BCC
Ballroom III, Level 400, BCC
Ballroom IV, Level 400, BCC
Room 337, Level 300, BCC
Room 340, Level 300, BCC
Room 343, Level 300, BCC

Hands-On Sessions | 4:00 PM – 6:00 PM

Hands-On sessions require a separate registration from the Saturday all-access registration. If you registered for one of the Hands-On courses you will see either an “AHO, GHO, CHO or THO” printed on the top right-hand corner of your badge. Those who do not have the code printed but would like to attend, should visit the registration area located on in the Pratt Street Lobby on Level 200 of the Baltimore Convention Center.

Adult Cardiac Hands-On
Congenital Hands-On
General Thoracic Hands-On
Optimal Therapies for End-Stage Thoracic Organ Failure Hands-On

Ballroom II, Level 400, BCC
Room 324, Level 300, BCC
Room 327, Level 300, BCC
Room 336, Level 300, BCC

SUNDAY AATS/STS POSTGRADUATE SYMPOSIA | MAY 15

Your Sunday all-access registration grants you admittance to all of the sessions taking place on Sunday from 8:00 AM to 5:00 PM in the Baltimore Convention Center (BCC).

AATS/STS Adult Cardiac Surgery Symposium
AATS/STS Congenital Heart Disease Symposium
AATS/STS General Thoracic Surgery Symposium
AATS/STS Cardiothoracic Critical Care Symposium
Survival Guide for the Cardiothoracic Surgical Team

Hall E, Level 100, BCC
Ballroom III, Level 400, BCC
Ballroom IV, Level 400, BCC
Room 337, Level 300, BCC
Room 340, Level 300, BCC

Welcome Reception | 5:00 PM – 7:00 PM in the AATS Exhibit Hall, Level 100, BCC

Join us as we officially celebrate the opening of this year's 96th Annual Meeting. Visit with our valued exhibitors and supporters in the AATS Exhibit Hall where you will learn cutting edge techniques and discover groundbreaking new products while networking with other attendees.

The AATS Exhibit Hall offers a number of exciting learning opportunities:

- AATS Learning Center features cutting edge Case Videos of novel procedures and surgical techniques, as well as highlights of the 2016 Aortic Symposium and 2015 Mitral Conclave
- AATS Resident Poster Competition
- AATS Perioperative & Team-Based Care Poster Competition

AATS Annual Meeting Didactic Committee

*Joseph S. Coselli, *Chair*
 *Charles D. Fraser, *Co-Chair*
 *David R. Jones, *Co-Chair*
 *Ottavio R. Alfieri
 *Duke E. Cameron
 *Andrew C. Chang
 *Edward P. Chen

*Haiquan S. Chen
 *R. Duane Davis
 *Gebrine El Khoury
 Katherine J. Hoercher
 +Viktor Hraska
 *John S. Ikonomidis
 *Krishna S. Iyer
 *Nevin M. Katz

*Shaf Keshavjee
 *M. Blair Marshall
 *E. Dean McKenzie
 *Marc R. Moon
 *Mark Onaitis
 *Gosta B. Pettersson
 *Todd K. Rosengart
 *George E. Sarris

*Ashish S. Shah
 Scott C. Silvestry
 *Thoralf M. Sundt, III
 *David P. Taggart
 *Dirk E. van Raemdonck
 *Paul E. van Schil
 *Luca A. Vricella
 *Thomas K. Waddell

SATURDAY, MAY 14

Adult Cardiac Skills:

Ballroom I, Level 300, BCC

Demystifying Complex Cardiac Surgery-Minimizing the Fear Factor

Saturday, May 14, 2016 | 8:00 AM - 3:30 PM

Course Chair: *Edward P. Chen, *Emory University*

Course Co-Chair: *Gebrine El Khoury, *Université Catholique de Louvain*

8:00 AM - 8:10 AM	Welcome and Introduction
8:10 AM - 8:20 AM	Repair of Anomalous RCA *Robert A. Guyton, <i>Emory University</i>
8:20 AM - 8:30 AM	Radial Artery Grafting in CABG: Harvesting Techniques and Options for Bypass *Jennifer S. Lawton, <i>Washington University</i>
8:30 AM - 8:40 AM	Total Arterial Left-Sided Revascularization with BIMA, Vein to the RCA *Clifford W. Barlow, <i>Southampton General Hospital</i>
8:40 AM - 8:50 AM	Total Arterial Revascularization: Left and Right *John D. Puskas, <i>Mount Sinai Medical Center</i>
8:50 AM - 9:00 AM	Surgical Repair of LV Aneurysm *Michael A. Acker, <i>University of Pennsylvania</i>
9:00 AM - 9:10 AM	Surgical Repair of a Posterior Post-Infarct VSD *Vivek Rao, <i>Toronto General Hospital</i>
9:10 AM - 9:20 AM	Alternative Surgical Approaches to Post-Infarct VSD Mani A. Daneshmand, <i>Duke University</i>
9:20 AM - 9:30 AM	Decision Tree Options for Acute Pulmonary Embolism: Live In Box Case William Brent Keeling, <i>Emory University</i>
9:30 AM - 9:40 AM	Surgical Options for Chronic Pulmonary Embolism: In Box Case Presentation *Michael M. Madani, <i>University of California</i>
9:40 AM - 10:10 AM	Panel Discussion
10:10 AM - 10:30 AM	Coffee Break
10:30 AM - 10:40 AM	Complex Mitral Valve Repair for Bileaflet Prolapse *David H. Adams, <i>Mount Sinai Medical Center</i>
10:40 AM - 10:50 AM	3D Echocardiographic Evaluation and Repair of Functional MR *Song Wan, <i>Prince of Wales Hospital</i>
10:50 AM - 11:00 AM	Radical Decalcification of Posterior MAC and Reconstruction *Thomislav Mihaljevic, <i>Cleveland Clinic</i>
11:00 AM - 11:10 AM	How to perform a MAZE Procedure in 2016 *Patrick M. McCarthy, <i>Northwestern University</i>
11:10 AM - 11:20 AM	Surgical Strategies for Reoperative MVR after Previous Aortic Valve or Root Intervention *Y. Joseph Woo, <i>Stanford University</i>
11:20 AM - 11:30 AM	Surgical Options for Avoiding PPM during Primary AVR with the Small Aortic Root *Neal D. Kon, <i>Wake Forest University</i>

11:30 AM - 11:40 AM	Redo-AVR after previous CABG with a Patent LIMA Graft *Edward P. Chen, <i>Emory University</i>	
11:40 AM - 12:00 PM	Panel Discussion	
12:00 PM - 1:00 PM	Combined Luncheon Video Interview *Denton A. Cooley, <i>Texas Heart Institute</i>	Hall E, Level 100, BCC
1:00 PM - 1:10 PM	Surgical Options for Prosthetic Valve Endocarditis Complicated by Root Abscess +/- Pseudoaneurysm *Gosta B. Pettersson, <i>Cleveland Clinic</i>	
1:10 PM - 1:20 PM	Correction of Double Native Valve Endocarditis with Destruction of the Central Fibrous Body *Gebrine El Khoury, <i>Université Catholique de Louvain</i>	
1:20 PM - 1:30 PM	TAVR Valve-in-valve for Aortic Bioprosthetic Degeneration *Vinod H. Thourani, <i>Emory University</i>	
1:30 PM - 1:40 PM	Transcatheter Valve-in-valve Therapy for Mitral Bioprosthetic Degeneration *Friedrich W. Mohr, <i>Herzzentrum Leipzig</i>	
1:40 PM - 1:50 PM	Surgical Techniques for Correcting Severe AI in Bicuspid Valve Anatomy +Laurent de Kerchove, <i>Cliniques Universitaires Saint-Luc</i>	
1:50 PM - 2:00 PM	Surgical Options for Addressing Aortopathy in Bicuspid Valve Disease *John S. Ikonomidis, <i>Medical University of South Carolina</i>	
2:00 PM - 2:20 PM	Panel Discussion	
2:20 PM - 2:30 PM	Valve-sparing Root Replacement for Severe AI of a Trileaflet Valve Requiring Cusp Repair *Joseph E. Bavaria, <i>University of Pennsylvania</i>	
2:30 PM - 2:37 PM	Repair of Acute Type A Dissection with Malperfusion using Frozen Elephant Trunk Technique Bradley G. Leshnower, <i>Emory University</i>	
2:37 PM - 2:44 PM	Repair of Acute Type A Dissection with Malperfusion with an Integrated TEVAR-First Approach *Eric E. Roselli, <i>Cleveland Clinic</i>	
2:44 PM - 2:54 PM	Circulation Management Options for Open DTAA/TAAA *Joseph S. Coselli, <i>Baylor College of Medicine</i>	
2:54 PM - 3:01 PM	Combined Open Proximal, Stent-Graft Distal Arch Repair for Aneurysm *Marc R. Moon, <i>Washington University</i>	
3:01 PM - 3:11 PM	Redo-Sternotomy for Transverse Arch Replacement after Previous Type A Repair *Thomas G. Gleason, <i>University of Pittsburgh</i>	
3:11 PM - 3:30 PM	Panel Discussion	
3:30 PM	Adjourn for Coffee Break followed by Hands-On Sessions from 4:00 PM - 6:00 PM Seperate Registration Required	

Congenital Heart Disease Skills: *Toward Technical Perfection*

Ballroom III, Level 300, BCC

Saturday, May 14, 2016 | 8:00 AM - 3:30 PM

Course Chair: *E. Dean McKenzie, *Texas Children's Hospital*

Course Co-Chair: *Krishna S. Iyer, *Fortis Escorts Heart Institute*

Mitral Valve

- 8:00 AM - 8:15 AM **Echocardiographic Evaluation of the Mitral Valve**
Gerald R. Marx, *Boston Children's Hospital*
- 8:15 AM - 8:30 AM **Mitral Valve Reparative Techniques in Small Children**
*Pedro J. Del Nido, *Boston Children's Hospital*
- 8:30 AM - 8:45 AM **Mitral Valve Replacement in Newborns and Infants**
*Yves d'Udekem, *Children's Hospital of Philadelphia*
- Anomalous Aortic Origin of a Coronary Artery**
- 8:45 AM - 9:00 AM **Imaging Evaluation of AAOCA**
Rajesh Krishnamurthy, *Texas Children's Hospital*
- 9:00 AM - 9:15 AM **Technique for Unroofing and Pulmonary Artery Translocation**
*Frank L. Hanley, *Stanford University*
- 9:15 AM - 9:30 AM **Technique for Ostial Translocation Neo-Ostial Creation**
Carlos M. Mery, *Texas Children's Hospital / Baylor College of Medicine*
- 9:30 AM - 10:15 AM **Coffee Break**

Perfusion Details

- 10:15 AM - 10:30 AM **How I Conduct Operations Using DHCA**
*Christian Pizarro, *Alfred Dupont Hospital for Children*
- 10:30 AM - 10:45 AM **How I Conduct Operations Using Selective Cerebral Perfusion**
*Frank A. Pigula, *Boston Children's Hospital*

Repair of IAA

- 10:45 AM - 11:00 AM **Yasui Method**
*Kirk R. Kanter, *Emory University*
- 11:00 AM - 11:15 AM **Subaortic resection/VSD Closure/Autologous Arch Repair**
*Charles D. Fraser, *Texas Children's Hospital*

Complete AVSD

- 11:15 AM - 11:30 AM **One Patch Method**
*Richard A. Jonas, *Children's National Medical Center*
- 11:30 AM - 11:45 AM **Two Patch Method**
*Krishna S. Iyer, *Fortis Escorts Heart Institute*
- 11:45 AM - 12:00 PM **"Australian" Method**
*Tom R. Karl, *Johns Hopkins All Children's Hospital*
- 12:00 PM - 1:00 PM **Combined Luncheon Video Interview**
*Denton A. Cooley, *Texas Heart Institute*

Hall E, Level 100, BCC

Ebstein's Anomaly

1:00 PM – 1:15 PM	Echocardiographic Evaluation for AVSD and Ebstein's Anomaly Girish S. Shirali, <i>Children's Mercy Hospital</i>
1:15 PM - 1:30 PM	Newborn Repair: How I Really Do This Operation *Christopher J. Knott-Craig, <i>Le Bonheur Children's Hospital</i>
1:30 PM - 1:45 PM	Newborn Tricuspid Exclusion – How I Really Do This Operation *Vaughn A. Starnes, <i>Keck Hospital of USC</i>
1:45 PM - 2:00 PM	Technical Tricks for Adult Ebstein's Repair *Joseph A. Dearani, <i>Mayo Clinic</i>

HLHS Technical Refinement

2:00 PM - 2:15 PM	MRI Assessment for Stage Single Ventricle Palliation Shi-Joon Yoo, <i>Hospital for Sick Children</i>
2:15 PM - 2:30PM	Avoiding Arch Obstruction *Thomas L. Spray, <i>Children's Hospital of Philadelphia</i>
2:30PM - 2:45 PM	Avoiding Conduit Obstruction and Pulmonary Artery Distortion *Shunji Sano, <i>Okayama University</i>
2:45 PM - 3:00 PM	Comprehensive Stage II Hakan Akintürk, <i>Universitätsklinikum Giessen und Marburg</i>
3:00 PM	Adjourn for Coffee Break followed by Hands-On Sessions from 4:00 PM - 6:00 PM <i>Seperate Registration Required</i>

General Thoracic Skills: Mastering Cutting-edge Technologies

Ballroom IV, Level 300, BCC

Saturday, May 14, 2016 | 8:00 AM - 3:30 PM

Course Chair: *Mark Onaitis, *Duke University*

Course Co-Chair: *Haiquan S. Chen, *Fudan University Shanghai Cancer Center*

8:00 AM - 8:10 AM	Welcome and Introduction
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Staging/Diagnosis of Lung and Esophageal Cancer

8:10 AM - 8:20 AM	EBUS *Mark F. Berry, <i>Stanford University</i>
8:20 AM - 8:30 AM	Electromagnetic Bronchoscopy *Jeffrey L. Port, <i>New York Presbyterian Hospital - Weill Cornell Medical College</i>
8:30 AM - 8:40 AM	EUS *Sudish C. Murthy, <i>Cleveland Clinic</i>
8:40 AM - 8:50 AM	EMR/RFA *Mark Onaitis, <i>Duke University</i>
8:50 AM - 9:00 AM	VAMLA *Todd L. Demmy, <i>Rutgers Cancer Institute of New Jersey</i>
9:00 AM - 9:15 AM	Panel Discussion
9:15 AM - 9:30 AM	Coffee Break

Lung Cancer

9:30 AM - 9:40 AM	Segmentectomy Michael Kent, <i>Beth Israel Deaconess Medical Center</i>
9:40 AM - 9:50 AM	VATS Extended Resections *Thomas A. D'Amico, <i>Duke University</i>
9:50 AM - 10:00 AM	Robotic Resection *Robert J. Cerfolio, <i>University of Alabama at Birmingham</i>
10:00 AM - 10:10 AM	VATS Mediastinal Lymphadenectomy *David R. Jones, <i>Memorial Sloan Kettering Cancer Center</i>
10:10 AM - 10:20 AM	VATS Sleeve Resection *M. Blair Marshall, <i>Georgetown University</i>
10:20 AM - 10:30 AM	Multiple GGO Lesions *Haiquan S. Chen, <i>Fudan University Shanghai Cancer Center</i>
10:30 AM - 10:40 AM	3D Modeling *Shanda H. Blackmon, <i>Mayo Clinic</i>
10:40 AM - 11:00 AM	Panel Discussion
11:00 AM - 11:10 AM	Coffee Break

Mediastinum

11:10 AM - 11:20 AM	Robotic Thymectomy Jens C. Rueckert, <i>University Medicine Berlin, Charite</i>	
11:20 AM - 11:30 AM	Open Thymectomy +James Huang, <i>Memorial Sloan Kettering Cancer Center</i>	
11:30 AM - 11:40 AM	VATS Sympathectomy *David H. Harpole, Jr., <i>Duke University</i>	
11:40 AM - 11:50 AM	Leiomyoma *Gail E. Darling, <i>Toronto General Hospital</i>	
11:50 AM - 12:00 PM	Panel Discussion	
12:00 PM - 1:00 PM	Combined Luncheon Video Interview *Denton A. Cooley, <i>Texas Heart Institute</i>	Hall E, Level 100, BCC

Benign/Malignant Esophagus

1:00 PM - 1:10 PM	Laparoscopic PEHR Katie S. Nason, <i>University of Pittsburgh</i>
1:10 PM - 1:20 PM	POEM Brian E. Louie, <i>Swedish Cancer Institute and Medical Center</i>
1:20 PM - 1:30 PM	Laparoscopic Diverticulum Matthew Hartwig, <i>Duke University</i>
1:30 PM - 1:58 PM	Panel Discussion
1:58 PM - 2:10 PM	Transhiatal Esophagectomy *Andrew C. Chang, <i>University of Michigan</i>

2:10 PM - 2:22 PM	Minimally-Invasive Ivor Lewis Yi Hua Sun, <i>Fudan University Shanghai Cancer Center</i>
2:22 PM - 2:34 PM	Open Ivor Lewis *Wayne L. Hofstetter, <i>MD Anderson Cancer Center</i>
2:34 PM - 2:46 PM	Minimally-Invasive 3-incision Lijie Tan, <i>Zhong Shan Hospital, Fudan University</i>
2:46 PM - 2:58 PM	3-incision Esophagogastrectomy for Lower Third Adenocarcinoma *Brendon M. Stiles, <i>New York Presbyterian Hospital</i>
2:58 PM - 3:10 PM	Robotic Esophagectomy *Inderpal S. Sarkaria, <i>University of Pittsburgh</i>
3:10 PM - 3:30 PM	Panel Discussion
3:30 PM	Adjourn for Coffee Break followed by Hands-On Sessions from 4:00 PM - 6:00 PM <i>Seperate Registration Required</i>

Interprofessional Cardiothoracic Team Symposium:

Room 337, Level 300, BCC

Advancing Excellence in Systems of Care and Outcomes

Saturday, May 14, 2016 | 8:00 AM - 3:30 PM

Course Chairs: *Gosta B. Pettersson, *Cleveland Clinic*
Katherine J. Hoercher, *Cleveland Clinic*



In collaboration with the American Society of ExtraCorporeal Technology (AmSECT) and the Association of Physician Assistants in Cardiovascular Surgery (APACVS).

8:00 AM - 8:15 AM **Welcome and Introduction**

Session I: Improving Systems of Care/Quality/ Safety

Moderators: *Gosta B. Pettersson, *Cleveland Clinic* and Katherine J. Hoercher, *Cleveland Clinic*

8:15 AM - 8:30 AM **Transforming Cardiovascular Care Delivery Incentive Structure: Value-based Bundled Payment, Redesign and Predesign of Care and Care Pathways**
Katherine J. Hoercher, *Cleveland Clinic*

8:30 AM - 8:45 AM **"I Have a Concern": Value and Limitations of Protocols and Check Lists and Strategies for Error Management in Cardiovascular and Thoracic Surgery**
*Thoralf M. Sundt, III, *Massachusetts General Hospital*

8:45 AM - 9:00 AM **Utilizing Registries to Predict Total Hospital Costs after Cardiac Surgery: An Opportunity for Process Improvement**
*Jeffrey B. Rich, *Sentara Heart Hospital*

9:00 AM - 9:15 AM **Electronic Medical Records and Discontinuity of Care: How to Ensure and Perfect Transitions of Care and Hand-Off Protocols in the OR and ICU**
Jeffrey Riley, *Mayo Clinic*

9:15 AM - 9:30 AM **Key Communication Strategies to Building Effective Multi Specialty Interprofessional Cardiothoracic Teams**
*Ross M. Ungerleider, *Wake Forest Baptist Health*

9:30 AM - 9:45 AM **Organizational Structure and Process Factors Associated With ICU Mortality**
*Glenn J. Whitman, *Johns Hopkins Hospital*

9:45 AM - 10:15 AM	Coffee Break	
10:15 AM - 10:30 AM	Penalty for Readmission - Risk Factors and Predictors: Discharge and Post Discharge Planning and Coherent Prevention Strategies Robert A. Lancey, <i>Bon Secours Heart and Vascular Institute</i>	
10:30 AM - 10:45 AM	The Evolution of Quality Measurement in CT Surgery *David M. Shahian, <i>Massachusetts General Hospital</i>	
10:45 AM - 11:00 AM	Is True Informed Consent for CV Surgery Achievable and What Should It Include? *Robert M. Sade, <i>Medical University of South Carolina</i>	
11:00 AM - 11:20 AM	Strategies to Improve End of Life and Palliative Care Discussions: When and with Whom? *Gosta B. Pettersson, <i>Cleveland Clinic</i>	
11:20 AM - 11:40 AM	What Is the Definition of Futility: When and How to Say No To the Patient, Family, and Referring Physician Marci Damiano, <i>Washington University</i>	
11:40 AM - 12:00 PM	Post ICU syndrome and Depression: Risk Factors, Outcomes, and Management *Kamal R. Khabbaz, <i>Beth Israel Deaconess Medical Center</i>	
12:00 PM - 1:00 PM	Combined Luncheon Video Interview *Denton A. Cooley, <i>Texas Heart Institute</i>	Hall E, Level 100, BCC
Session II: OR and ICU Issues		
Moderators: Jeffrey Riley, <i>Mayo Clinic</i> and David Lizotte, <i>University of Louisville</i>		
1:15 PM - 1:30 PM	Management of HIT and Anti-Coagulation for Patients with Heparin Allergy, Acute, Urgent and Elective Strategies: How has the Landscape Changed? Colleen Koch, <i>Johns Hopkins Hospital</i>	
1:30 PM - 1:55 PM	Prevention and Management of Bleeding in the OR: Maximizing Blood Conservation Surgeon Perspective: *Gosta B. Pettersson, <i>Cleveland Clinic</i> Anesthesia Perspective: Colleen Koch, <i>Johns Hopkins Hospital</i>	
1:55 PM - 2:10 PM	Recognition and Clinical Decision Making in Hypovolemia and Shock States in the ICU: Rhythm, Rate, Pacing, Volume, Colloid, Cells, Inotropes, Pressors, IABP, ECMO Michael Tong, <i>Cleveland Clinic</i>	
2:10 PM - 2:25 PM	What do Perfusionists Worry about in the OR?: Low Frequency Crisis Events and Their Management Jeffrey Riley, <i>Mayo Clinic</i>	
2:25 PM - 2:40 PM	Postoperative Surgical Bleeding: Management Strategies in ICU Damien J. LaPar, <i>University of Virginia</i>	
2:40 PM - 2:55 PM	Air, Blood and Water: Management of Pleural Complications: Effusions, Empyema, and Pneumothorax *Stephen C. Yang, <i>Johns Hopkins Hospital</i>	
2:55 PM - 3:10 PM	Sepsis Precautions, Infection Monitoring and Management *Vinod H. Thourani, <i>Emory University</i>	
3:10 PM - 3:25 PM	Arrhythmia and Pacemaker Management in the ICU David Lizotte, <i>University of Louisville</i>	
3:25 PM - 3:40 PM	New Technologies to Support Patients with Acute Respiratory Failure, Short Term and Long Term, to Recovery and Bridge to Transplant: What You Need to Know About and Respiratory Dialysis *Kenneth R. McCurry, <i>Cleveland Clinic</i>	

3:40 PM

Adjourn for Coffee Break followed by Hands-On Sessions from 4:00 PM - 6:00 PM
Seperate Registration Required

Optimal Therapies for End-Stage Thoracic Organ Failure:

Room 340, Level 300, BCC

The Critical Role of the Surgeon and the use of ECMO, MCS and Transplantation

Saturday, May 14, 2016 | 8:00 AM - 3:30 PM

Course Chair: *R. Duane Davis, Jr., *Florida Hospital*

Course Co-Chair: *Ashish S. Shah, *Vanderbilt University*

8:00 AM - 8:10 AM **Welcome and Introduction**

Moderators: *R. Duane Davis, Jr., *Florida Hospital* and *Ashish S. Shah, *Vanderbilt University*

8:10 AM - 8:25 AM **VV ECMO for ARDS: An Update from Clinical Trials**
*Matthew Bacchetta, *Columbia University Medical Center*

8:25 AM - 8:29 AM **Case Presentation: Prolonged VV ECMO with Recovery**
Stephan Ensminger, *Herz- und Diabeteszentrum NRW*

8:29 AM - 8:33 AM **Case Presentation: ECMO for ARDS Bridge to Transplant**
*Ashish S. Shah, *Vanderbilt University*

8:33 AM - 8:37 AM **Case Presentation: ECMO for ARDS to Palliation**
*Matthew Bacchetta, *Columbia University Medical Center*

8:37 AM - 8:50 AM **Panel Discussion**

ECMO Bridge to Transplant - How I Do It

8:50 AM - 8:58 AM **Avalon for VV and V-VA**
Charles Hoopes, *University of Alabama at Birmingham*

8:58 AM - 9:06 AM **Central Cannulation**
*Walter Klepetko, *Vienna Medical University*

9:06 AM - 9:15 AM **Nova Lung**
*Shaf Keshavjee, *Toronto General Hospital*

9:15 AM - 9:25 AM **Management to Optimize Outcomes, Recovery, Rehab and Timing**
Charles Hoopes, *University of Alabama at Birmingham*

9:25 AM - 9:40 AM **Outcomes with Bridge to Transplant: Times are Changing**
+Marcelo Cypel, *Toronto General Hospital*

9:40 AM - 9:50 AM **Panel Discussion**

9:50 AM - 10:15 AM **Coffee Break**

Moderators: +Marcelo Cypel, *Toronto General Hospital* and *Walter Klepetko, *Vienna Medical University*

10:15 AM - 10:30 AM **What is the Current Role of Ex Vivo Lung Perfusion In Standard Lung Transplantation?**
*Abbas Ardehali, *UCLA*

10:30 AM - 10:45 AM **What is the Role of EVLP in the Marginal Donor**
*Ed Cantu, *University of Pennsylvania*

10:45 AM - 11:00 AM **EVLP for the Unusable Lungs: What is on the Immediate Horizon**
+Marcelo Cypel, *Toronto General Hospital*

Video Session

11:00 AM - 11:06 AM	How to Perform Bilateral Lung Transplant through Sterntomy *John H. Dark, <i>The Freeman Hospital</i>	
11:06 AM - 11:12 AM	How to Perform Lung Transplant using ECMO *Walter Klepetko, <i>Vienna Medical University</i>	
11:12 AM - 11:20 AM	How to Perform Redo Lung Transplant *R. Duane Davis, Jr., <i>Florida Hospital</i>	
11:20 AM - 11:30 AM	Tough Cases: Things I Would Never Do Again *Shaf Keshavjee, <i>Toronto General Hospital</i> Mani Daneshmand, <i>Duke University</i>	
11:35 AM - 12:00 PM	Debate: Transplantation on ECMO Should Be the Standard for Lung Transplantation Pro: *Walter Klepetko, <i>Vienna Medical University</i> Con: *R. Duane Davis, Jr., <i>Florida Hospital</i>	
12:00 PM - 1:00 PM	Combined Luncheon Video Interview *Denton A. Cooley, <i>Texas Heart Institute</i>	Hall E, Level 100, BCC
Moderators: Scott C. Silvestry, <i>Florida Hospital Transplant Institute</i> and *Francis D. Pagani, <i>University of Michigan</i>		
1:00 PM - 1:15 PM	Temporary Circulatory Support in Cardiogenic Shock: Which Platforms to Maximize Recovery and for How Long? Aly El Banayosy, <i>INTEGRIS Baptist Medical Center</i>	
1:15 PM - 1:30 PM	Durable LVADs in Acute Cardiogenic Shock: Which Pump and When *Nader Moazami, <i>Cleveland Clinic</i>	
1:30 PM - 2:00 PM	Panel Discussion: Device Selection and Patient Management in Shock Scott C. Silvestry, <i>Florida Hospital Transplant Institute</i> *Francis D. Pagani, <i>University of Michigan</i> Aly El Banayosy, <i>INTEGRIS Baptist Medical Center</i> *Nader Moazami, <i>Cleveland Clinic</i>	
2:00 PM - 2:15 PM	New Mechanical Circulatory Support Devices: An Update from Europe - HM III and MVAD Jan D. Schmitto, <i>Hannover Medical School</i>	
2:15 PM - 2:30 PM	Lessons from ENDURANCE and ROADMAP Trials *Carmelo A. Milano, <i>Duke University</i>	
2:30 PM - 2:45 PM	Pulmonary Vascular-Right Ventricular Interactions: The Achilles Heel in Heart Transplantation and Mechanical Circulatory Support Navin K. Kapur, <i>Tufts University</i>	
2:45 PM - 3:15 PM	Video Session: How to Do it Temporary RVAD Support Chris Sciortino, <i>Johns Hopkins Hospital</i> Scott C. Silvestry, <i>Florida Hospital Transplant Institute</i> Charles Hoopes, <i>University of Alabama at Birmingham</i>	
3:00 PM - 3:10 PM	Longer-term Support: Biventricular LVAD *Carmelo Milano, <i>Duke University</i>	
3:10 PM - 3:15 PM	Longer-term Support: TAH *Francisco A. Arabia, <i>Cedars-Sinai Medical Center</i>	

3:15 PM - 3:25 PM	Difficult Cases in TCS and MCS *Ashish S. Shah, <i>Vanderbilt University</i> +Simon Maltais, <i>Mayo Clinic</i> *Francis D. Pagani, <i>University of Michigan</i> *Carmelo Milano, <i>Duke University</i> Stuart Russell, <i>Johns Hopkins Hospital</i>
3:25 PM - 3:40 PM	Why all the PGD: Lessons Learned from an In-depth Analysis within an Institution Hiroo Takayama, <i>Columbia University</i>
3:40 PM - 3:55 PM	Functional Capacity and Exercise with Continuous Flow Devices Stuart Russell, <i>Johns Hopkins Hospital</i>
4:00 PM	Adjourn for Coffee Break followed by Hands-On Sessions from 4:00 PM - 6:00 PM Seperate Registration Required

Surgical Ethics Course: *Surgeons Solving Ethical Problems in Surgery*

Room 343, Level 300, BCC

Saturday, May 14, 2016 | 8:00 AM - 3:30 PM

Course Chairs: *Martin F. McKneally, *University of Toronto* and *Robert M. Sade, *Medical University of South Carolina*

8:00 AM - 8:15 AM	Welcome and Introduction	
8:15 AM - 9:15 AM	Keynote Address: Working Virtues in Surgical Practice: How to Transmit Essential Character Traits Larry Churchill, <i>Vanderbilt University</i>	
9:15 AM - 9:30 AM	Ethical Issues of LVAD Management John W.C. Entwistle, III, <i>Thomas Jefferson University</i>	
9:30 AM - 9:45 AM	Transplantation: Confronting the Ethics of Scarcity J. Scott Millikan, <i>Billings Clinic</i>	
9:45 AM - 10:15 AM	Panel Discussion	
10:15 AM - 10:45 AM	Coffee Break	
10:45 AM - 11:00 AM	Public Reporting of Surgeons' Results: Does Shame and Blame Hurt Our Patients? *Susan D. Moffatt-Bruce, <i>Ohio State University</i>	
11:00 AM - 11:15 AM	Preoperative Disclosure: In all Honesty, My Results ... Sandra Starnes, <i>University of Cincinnati Cancer Institute</i>	
11:15 AM - 11:45 AM	Panel Discussion	
12:00 PM - 1:00 PM	Combined Luncheon Video Interview *Denton A. Cooley, <i>Texas Heart Institute</i>	Hall E, Level 100, BCC
1:00 PM - 1:15 PM	My Patient Wants to Die: How Can I Help? Kathleen Fenton, <i>William Novick Global Cardiac Alliance</i>	
1:15 PM - 1:30 PM	Unrealistic Hopes: When Family and Caregivers Don't Agree *Leslie J. Kohman, <i>State University of New York Upstate Medical University</i>	
1:30 PM - 2:00 PM	Panel Discussion	
2:00 PM - 2:15 PM	Doing the Wrong Thing in Research *Thomas A. D'Amico, <i>Duke University</i>	
2:15 PM - 2:30 PM	The Dark Side of Expert Witness Testimony *Richard I. Whyte, <i>Beth Israel Deaconess Medical Center</i>	

2:30 PM - 3:00 PM	Panel Discussion
3:00 PM - 3:15 PM	Flexible Decision Making About Life Support Jennifer Ellis, <i>Washington Hospital Center</i>
3:15 PM - 3:30 PM	Panel Discussion
3:30 PM	Adjourn for Coffee Break followed by Hands-On Sessions from 4:00 PM - 6:00 PM <i>Seperate Registration Required</i>

SUNDAY, MAY 15

AATS/STS Adult Cardiac Surgery Symposium:

Hall E, Level 100, BCC

21st Century Cardiac Surgery and the Sea Change We Face

Sunday, May 15, 2016 | 8:00 AM - 5:00 PM

Course Chair: *Todd K. Rosengart, *Baylor College of Medicine*

Course Co-Chair: *David P. Taggart, *University of Oxford*

8:00 AM - 8:05 AM **Welcome and Introduction**

Session I: CABG is Back

Moderators: *Todd K. Rosengart, *Baylor College of Medicine* and *David P. Taggart, *University of Oxford*

8:05 AM - 8:20 AM **Incontrovertible Evidence You Need to Know from SYNTAX, FREEDOM, Real World Registries and other Pivotal Trials**
*A. Pieter Kappetein, *Erasmus MC*

8:20 AM - 8:35 AM **It's Too Early to Throw in the Towel: Better Stents and Gadgets Means PCI is Coming Back**
Stephen Ellis, *Cleveland Clinic*

8:35 AM - 8:50 AM **Not so Fast: Better Drugs will Make Both PCI and CABG Irrelevant**
David Holmes, *Mayo Clinic*

8:50 AM - 9:00 AM **Panel Discussion**

9:00 AM - 9:20 AM **Gladiator Session I: Total Arterial Revascularization**
Moderator: *John D. Puskas, *Mount Sinai Health System*
Pro: *Craig R. Smith, *Columbia University*
Con: *Joseph F. Sabik, III, *Cleveland Clinic*

9:20 AM - 9:40 AM **Debate: Integrating Interventional and Surgical Approaches for Treating Coronary Disease**
Moderator: *David P. Taggart, *University of Oxford*

Pro: Integrated Training - The Key to Our Future
*Mathew Williams, *New York University*

Con: Heart Teams Are Good Enough: Lessons from the Left Main
*Ko Bando, *Jikei University*

9:40 AM - 9:50 AM **Coffee Break**

Session II: The End of a Valve Surgery Era – Trans-Vascular Valve Rising

Moderators: *Faisal G. Bakaeen, *Baylor College of Medicine* and *David P. Taggart, *University of Oxford*

9:50 AM - 10:05 AM **TAVR: Where We Are, Where We're Headed: The US Experience**
*Michael J. Mack, *Baylor Health Care System*

10:05 AM - 10:20 AM	Universal TAVR: We're Almost There David Holmes, <i>Mayo Clinic</i>
10:20 AM - 10:35 AM	Percutaneous Mitral Technologies Around the Corner and Other Game Changers *A. Marc Gillinov, <i>Cleveland Clinic</i>
10:35 AM - 10:45 AM	AATS Consensus Guideline: Endocarditis *Gosta Pettersson, <i>Cleveland Clinic</i>
10:45 AM - 10:55 AM	Panel Discussion
Session III: Aortic Surgery	
Moderators: *Faisal G. Bakaeen, <i>Baylor College of Medicine</i> and *Todd K. Rosengart, <i>Baylor College of Medicine</i>	
10:55 AM - 11:10 AM	Intervening on the BAV Aorta: When, Why and Wherefore? *Y. Joseph Woo, <i>Stanford University</i>
11:10 AM - 11:25 AM	Intervening on the Type B Descending Aorta: TEVAR or Open *Leonard N. Girardi, <i>New York Presbyterian Hospital - Weill Cornell Medical College</i>
11:25 AM - 11:40 AM	Tackling the Marfan's Root: Pitfalls and Solutions +Ourania Preventza, <i>Texas Heart Institute</i>
11:40 AM - 12:00 PM	Debate: Valve Sparing Root Replacement Moderator: *Lars G. Svensson, <i>Cleveland Clinic</i>
	Pro: Always Spare the Valve *Joseph E. Bavaria, <i>University of Pennsylvania</i>
	Con: A Good Replacement is Better than a Bad Repair! *Hans-Joachim Schaeffers, <i>Saarland University Medical Center</i>
12:00 PM - 1:00 PM	Legends Luncheon *John L. Ochsner, <i>Ochsner Clinic Foundation</i>
	<i>Remain in Hall E for Legends Luncheon</i>

Session IV: ECMO and Bridging VAD - A New Paradigm for Sustaining Life

Moderators: *Irving L. Kron, *University of Virginia* and *Todd K. Rosengart, *Baylor College of Medicine*

1:00 PM - 1:15 PM	Extracorporeal Support – The Sooner the Better *Mark S. Slaughter, <i>University of Louisville</i>
1:15 PM - 1:30 PM	ECMO in the Field – The New Logistics of Pump and Run *Matthew Bacchetta, <i>Columbia University Medical Center</i>
1:30 PM - 1:45 PM	Ventricular Salvage – When and How to Wean VAD Support Steve Singh, <i>Baylor College of Medicine</i>
1:45 PM - 2:00 PM	New Devices - We Can Make This Even Easier *William E. Cohn, <i>Texas Heart Institute</i>
2:00 PM - 2:15 PM	Devices Are So Old School – The New World of Myocardial Regeneration *Todd K. Rosengart, <i>Baylor College of Medicine</i>
2:15 PM - 2:30 PM	Panel Discussion
2:30 PM - 2:45 PM	Coffee Break

Session V: "Classic" Valve Surgery – Tough Decisions and Advancing the Art

Moderators: *Friedrich W. Mohr, *Herzzentrum Leipzig* and *Todd K. Rosengart, *Baylor College of Medicine*

2:45 PM - 3:00 PM	Degenerative Mitral Regurgitation: Are Artificial Chords State of the Art? *Friedrich W. Mohr, <i>Herzzentrum Leipzig</i>
3:00 PM - 3:15 PM	Aortic Root Enlargement to Avoid PPM: Is there Still a Need? *George T. Christakis, <i>Sunnybrook Hospital</i>
3:15 PM - 3:30 PM	Mitral Intervention in CABG Patients: Is Less Ever More? *Louis P. Perrault, <i>Montreal Heart Institute</i>
3:30 PM - 3:50 PM	Gladiator Session II: Bicuspid Aortic Valve Repair Moderator: *Tirone E. David, <i>Toronto General Hospital</i> Pro: *Gebrine El Khoury, <i>Université Catholique de Louvain</i> Con: *D. Craig Miller, <i>Stanford University</i>
3:50 PM - 4:05 PM	Functional Mitral Regurgitation: Back to Basics (Replace) or Stick with Repair? *Steven F. Bolling, <i>University of Michigan</i>
4:05 PM - 4:20 PM	Minimally Invasive Valve Surgery: State of the Art Joseph Lamelas, <i>Mount Sinai Medical Center</i>
4:20 PM - 4:40 PM	Panel Discussion
4:40 PM - 5:00 PM	Gladiator Session III: Concomitant Tricuspid Repair Moderator: *James S. Gammie, <i>University of Maryland</i> Pro: *David H. Adams, <i>Mount Sinai Medical Center</i> Con: *John V. Conte, <i>Johns Hopkins Hospital</i>
5:00 PM	Adjourn for Welcome Reception in the Exhibit Hall, Level 100, BCC

AATS/STS Congenital Heart Disease Symposium:

Ballroom III, Level 400, BCC

Respecting Our Past; Embracing Our Future

Sunday, May 15, 2016 | 8:00 AM - 5:00 PM

Course Chair: *Charles D. Fraser, *Texas Children's Hospital*

Course Co-Chair: *George E. Sarris, *Athens Heart Surgery Institute*

7:50 AM - 8:00 AM **Welcome and Introduction**

Session I

Moderators: *Marshall L. Jacobs, *Johns Hopkins Hospital* and *George E. Sarris, *Athens Heart Surgery Institute*

Pediatric VAD Update

8:00 AM - 8:11 AM **Overview of Current Pediatric and Adult Devices in Congenital Heart Disease**
Iki Adachi, *Texas Children's Hospital*

8:11 AM - 8:22 AM **The Pumpkin Trial: We Are Close**
Tim Baldwin, *NHLBI*

8:22 AM - 8:33 AM **Total Artificial Heart Trial**
*David L. Morales, *Cincinnati Children's Hospital*

8:33 AM - 8:44 AM **VAD's in Adults with Failing Single Ventricles**
Ronald K. Woods, *Medical College of Wisconsin*

Getting Increasingly Complex: Adult Congenital Cardiac Surgery

8:44 AM - 9:20 AM **Controversy #1: Evolution of Adult-Congenital Heart Surgery – Optimal Environment?**

The Emory System

*Brian E. Kogon, *Emory University*

The University of Pennsylvania System

*Michael A. Acker, *University of Pennsylvania*

9:20 AM - 9:35 AM

Rescuing the Late Failing Fontan: Focus on Dysrhythmias

*Carl L. Backer, *Lurie Children's Hospital of Chicago*

9:35 AM - 10:00 AM

Coffee Break**Session II**

Moderators: *Charles D. Fraser, *Texas Children's Hospital* and *James S. Tweddell, *Cincinnati Children's Hospital*

10:00 AM - 10:15 AM

The Complex Arterial Switch Operation: Techniques and Outcomes

*Charles D. Fraser, *Texas Children's Hospital*

10:15 AM - 11:00 AM

Controversy #2: Ready or Not, Here Comes Public Reporting**What Every Parent Must Know**

Annie Garcia, *OpHeart*

The STS CHS Public Reporting Initiative: It Is Here

*Jeffrey P. Jacobs, *All Children's Hospital*

A Word of Caution in Public Reporting

*Thomas Spray, *Children's Hospital of Philadelphia*

Complex Aortic Surgery in Children

11:00 AM - 11:15 AM

Genetics of Aortopathies in Childhood

Hal Dietz, *Johns Hopkins Hospital*

11:15 AM - 11:30 AM

Decisions and Operations in Childhood Marfan's/Loeys-Dietz/Ehler-Danlos

*Luca A. Vricella, *Johns Hopkins Hospital*

11:30 AM - 11:45 AM

Aortic Arch Advancement and Slide Aortoplasty

*E. Dean McKenzie, *Texas Children's Hospital*

12:00 PM - 1:00 PM

Legends Luncheon

Remain in Ballroom III for Legends Luncheon

*Leonard L. Bailey, *Loma Linda University*

Session III

Moderators: *Charles D. Fraser, *Texas Children's Hospital* and *George E. Sarris, *Athens Heart Surgery Institute*

1:00 PM - 2:00 PM

Controversy #3: The ABTS Congenital Fellowship: How is it Working?**ABTS Perspective**

*James S. Tweddell, *Cincinnati Children's Hospital*

Recent Graduate's Perspective

Carlos M. Mery, *Texas Children's Hospital / Baylor College of Medicine*

1:45 PM - 2:00 PM

Have We Lost Our International Heritage?

*Vaughn A. Starnes, *University of Southern California*

2:00 PM - 3:00 PM

Tough Case Scenarios: Cases I Struggled With

Expert Panelists:

*E. Dean McKenzie, *Texas Children's Hospital*

*George E. Sarris, *Athens Heart Surgery Institute*

*Christian Pizarro, *Alfred Dupont Hospital for Children*
 *Jonathan M. Chen, *Seattle Children's Hospital*

2:00 PM - 2:20 PM

Case I

*Charles D. Fraser, *Texas Children's Hospital*

2:20 PM - 2:40 PM

Case II

*Gosta Pettersson, *Cleveland Clinic*

2:40 PM – 3:00 PM

Case III

*Krishna S. Iyer, *Fortis Escorts Heart Institute*

3:00 PM - 3:20 PM

Case IV

*Sertac Cicek, *Anadolu Medical Center*

3:20 PM - 3:40 PM

AATS Consensus Guideline: Anomalous Coronary Artery Origin from Wrong Sinus

*James S. Tweddell, *Cincinnati Children's Hospital*

3:40 PM - 4:20 PM

Coffee Break

Tetralogy Surgery: Back To Baltimore 70 Years Later

4:20 PM - 4:35 PM

Balloon Valvotomy

*Emile A. Bacha, *Children's Hospital of New York*

4:35 PM - 4:50 PM

Melbourne Heritage and Group Tribute to Juan Comas

*George E. Sarris, *Athens Heart Surgery Institute*

5:00 PM

Adjourn for Welcome Reception in the Exhibit Hall, Level 100, BCC

AATS/STS General Thoracic Surgery Symposium:

Ballroom IV, Level 400, BCC

The Best Way to Predict the Future is to Invent It

Sunday, May 15, 2016 | 8:00 AM - 5:00 PM

Course Chair: *Thomas K. Waddell, *University of Toronto*

Course Co-Chair: *Paul E. van Schil, *University Hospital of Antwerp*

8:00 AM - 8:05 AM

Welcome and Introduction

Lung Cancer

Moderators: *Thomas K. Waddell, *University of Toronto* and *Paul E. van Schil, *University Hospital of Antwerp*

8:05 AM - 8:17 AM

Update on CALGB 140503: Lobar vs. Sublobar Resection for ≤ 2 cm NSCLC

*Nasser K. Altorki, *New York Presbyterian Hospital*

8:17 AM - 8:29 AM

Does Tumor Genomic Profiling Matter in the Management of Stage I/II NSCLC?

*Raphael Bueno, *Brigham and Women's Hospital*

8:29 AM - 8:41 AM

Management of the Solitary Pulmonary Nodule: Update on Fleischner Guidelines

Herb Macmahon, *University of Chicago*

8:41 AM - 8:53 AM

IASLC Classification Changes for Lung Adenocarcinoma: Impact on Surgical Procedure

*Prasad S. Adusumilli, *Memorial Sloan Kettering Cancer Center*

8:53 AM - 9:15 AM

Panel Discussion

9:15 AM - 9:40 AM

Gladiator Session I: Role of VATS Lobectomy for Locoregionally Advanced NSCLC

*Raja M. Flores, *Mount Sinai Health Systems*

+Daniel J. Boffa, *Yale University*

9:45 AM - 10:00 AM **Coffee Break**

Benign Lung Disease and Transplantation

Moderators: *G. Alexander Patterson, *Washington University* and *Thomas K. Waddell, *University of Toronto*

10:00 AM - 10:12 AM **Lung Biopsy for Interstitial Lung Disease: Risk vs. Reward**
Eric Grogan, *Vanderbilt University*

10:12 AM - 10:24 AM **Current Role of EVLP in Lung Transplantation**
Edward Cantu, *University of Pennsylvania*

10:24 AM - 10:36 AM **Management of Post-Intubation Tracheal Stenosis**
*Cameron D. Wright, *Massachusetts General Hospital*

10:36 AM - 10:48 AM **ECMO as a Bridge to Lung Transplantation**
*R. Duane Davis, *Florida Hospital*

10:48 AM - 11:00 AM **Pulmonary Thromboendarterectomy: Indications and Outcomes**
*Marc de Perrot, *Toronto General Hospital*

11:00 AM - 11:12 AM **When is Surgery Indicated for MAI?**
Alain D.L. Sihoe, *University of Hong Kong*

11:12 AM - 11:32 AM **Panel Discussion**

11:32 AM - 11:55 AM **Gladiator Session II: Optimal Surgical Treatment for End-Stage Emphysema**
David Waller, *University of Leicester*
*Michael S. Mulligan, *University of Washington*

12:00 PM - 1:00 PM **Legends Luncheon** *Remain in Ballroom IV for Legends Luncheon*
*Joel D. Cooper, *University of Pennsylvania*

Mediastinum, Pleura and Other

Moderators: *David J. Sugarbaker, *Baylor College of Medicine* and *Paul E. van Schil, *University Hospital of Antwerp*

1:10 PM - 1:22 PM **Multimodality Management of Stage III/IVa Thymic Tumors**
Pier Luigi Filosso, *University of Torino, Italy*

1:22 PM - 1:32 PM **Pulmonary Metastatectomy: Ablate or Resect – What is the Evidence?**
*Jay M. Lee, *University of California, Los Angeles*

1:32 PM - 1:42 PM **Induction vs. Adjuvant Therapy in Surgically Resectable Malignant Mesothelioma**
Isabelle Optiz, *University Hospital Zurich*

1:42 PM - 1:52 PM **Contemporary Management of Post Resection Empyema**
Thorsten Krueger, *University Hospital of Lausanne*

1:52 PM - 2:15 PM **Panel Discussion**

2:15 PM - 2:40 PM **Gladiator Session III: Management of a 2 cm Thymoma in an Elderly Patient**
*M. Blair Marshall, *Georgetown University*
*Michael J. Liptay, *Rush University*

2:40 PM - 3:00 PM **Coffee Break**

Esophagus

Moderators: *Wayne L. Hofstetter, *MD Anderson Cancer Center* and *Thomas K. Waddell, *University of Toronto*

3:00 PM - 3:12 PM **What is the Optimal Lymphadenectomy for Esophageal Cancer?**
*Mark Onaitis, *Duke University*

3:12 PM - 3:24 PM	Starting a Minimally-Invasive Esophagectomy Program Daniela Molena, <i>Johns Hopkins Hospital</i>
3:24 PM - 3:36 PM	Optimal Management of the Pylorus Following an Esophagectomy *Traves D. Crabtree, <i>Washington University</i>
3:36 PM - 3:48 PM	Robotic Esophagectomy: Outcomes and Complications *Robert J. Cerfolio, <i>University of Alabama at Birmingham</i>
3:48 PM - 4:00 PM	Re-operation for Failed Anti-Reflux Operations *Arjun Pennathur, <i>University of Pittsburgh</i>
4:00 PM - 4:15 PM	The Surgeon's Role in Clinical Trials for Esophageal Cancer: Going, Going, Gone? *Gail E. Darling, <i>Toronto General Hospital</i>
4:15 PM - 4:35 PM	Panel Discussion
4:35 PM - 5:00 PM	Ask the Experts: MIE is Superior to Open Esophagectomy for Esophageal Cancer *James D. Luketich, <i>University of Pittsburgh</i> *Manjit S. Bains, <i>Memorial Sloan Kettering Cancer Center</i> *Robert J. Cerfolio, <i>University of Alabama at Birmingham</i> *Mark B. Orringer, <i>University of Michigan</i> *Gail E. Darling, <i>Toronto General Hospital</i>
5:00 PM	Adjourn for Welcome Reception in the Exhibit Hall, Level 100, BCC

AATS/STS Cardiothoracic Critical Care Symposium:

Room 337, Level 300, BCC

Innovations and Complications in the ICU

Sunday, May 15, 2016 | 8:00 AM - 5:00 PM

Course Chairs: *Andrew C. Chang, *University of Michigan*

*Nevin M. Katz, *Johns Hopkins Hospital*

Aaron M. Cheng, *University of Washington*



In collaboration with the American Society of ExtraCorporeal Technology (AmSECT) and the Association of Physician Assistants in Cardiovascular Surgery (APACVS).

8:00 AM - 8:10 AM **Welcome and Introduction**

Infection and Inflammation in the ICU

Moderator: *Andrew C. Chang, *University of Michigan*

8:10 AM - 8:25 AM **Update on Management of Sepsis in the CTICU**

James Isbell, *University of Virginia*

8:25 AM - 8:40 AM **Management of Complex Mediastinal Issues**

*Jonathan W. Haft, *University of Michigan*

8:40 AM - 8:55 AM **Empyema - Operative & ICU Care**

Aaron M. Cheng, *University of Washington*

8:55 AM - 9:10 AM **Latest Management of Esophageal Leak**

*Richard K. Freeman, *St. Vincent Hospital*

9:10 AM - 9:25 AM **Panel Discussion**

9:25 AM - 9:40 AM **Coffee Break**

Mechanical Circulatory Support and ICU Care

Moderators: *Andrew C. Chang, *University of Michigan* and Aaron M. Cheng, *University of Washington*

9:40 AM - 9:55 AM	Single-provider ECMO – How We Do It *Jonathan W. Haft, <i>University of Michigan</i>
9:55 AM - 10:10 AM	Mechanical Circulatory Support: Undercoagulation is as Bad as Over Giles Peek, <i>Pediatric Heart Center at Montefiore and Einstein</i>
10:10 AM - 11:05 AM	ECMO Emergencies & Complications: ICU Management William Lynch, <i>University of Michigan</i>
11:05 AM - 11:20 AM	VAD Emergencies & Complications: ICU Management +John Stulak, <i>Mayo Clinic</i>
11:20 AM - 11:40 AM	Panel Discussion
12:00 PM - 1:00 PM	Legends Luncheons *Leonard L. Bailey <i>Taking place in Ballroom III, Level 400, BCC</i> *Joel D. Cooper <i>Taking place in Ballroom IV, Level 400, BCC</i> *John L. Ochsner <i>Taking place in Hall E, Level 100, BCC</i>

Innovative Technology in the ICU

Moderator: *Andrew C. Chang, *University of Michigan*

1:15 PM - 1:30 PM	Early Detection & Management of Neurologic Complications Vassyl Lonchya, <i>Chicago</i>
1:30 PM - 1:45 PM	Complications of Transcatheter Valve Procedures *Vinod H. Thourani, <i>Emory University</i>
1:45 PM - 2:05 PM	Latest Management of Coagulopathies Kenichi Tanaka, <i>University of Maryland</i>
2:05 PM - 2:30 PM	Panel Discussion
2:30 PM - 3:00 PM	Coffee Break

Quality of Care in the ICU

Moderators: *Andrew C. Chang, *University of Michigan* and Aaron M. Cheng, *University of Washington*

3:00 PM - 3:20 PM	Challenges of the Affordable Care Act: Systems for Quality Improvement in the ICU Daniel T. Engelman, <i>Baystate Medical Center</i>
3:20 PM - 3:40 PM	Palliative Care in the ICU Keki R. Balsara, <i>Washington University</i>
3:40 PM - 4:00 PM	Panel Discussion
4:00 PM - 5:00 PM	Difficult Cases in the CTICU Aaron M. Cheng, <i>University of Washington</i> James Isbell, <i>University of Virginia</i> Keki R. Balsara, <i>Washington University</i> Giles Peek, <i>Pediatric Heart Center at Montefiore and Einstein</i>
5:00 PM	Adjourn for Welcome Reception in the Exhibit Hall, Level 100, BCC

Survival Guide for the Cardiothoracic Surgical Team

Room 340, Level 300, BCC

Survival Guide for the Cardiothoracic Surgical Team Hands-On

Rooms 343, Level 300, BCC, *Not for Credit*

Sunday, May 15, 2016 | 1:00 PM - 5:00 PM | Pre-Registration Required

Course Chairs: *Abe DeAnda, Jr., *University of Texas Medical Branch, Galveston* and *Joseph C. Cleveland, Jr., *University of Colorado*

PART I: Groups A and B in Room 340 from 1:00 PM – 1:30 PM.

1:00 PM - 1:10 PM	Welcome and Introduction *Abe DeAnda, Jr., <i>University of Texas Medical Branch, Galveston</i> *Joseph C. Cleveland, Jr., <i>University of Colorado</i>
1:10 PM - 1:30 PM	Creating Resonant Teams through Attuned Communication *Ross M. Ungerleider, <i>Wake Forest Baptist Health</i>

PART 2: Group A remains in Didactic Session Room 340 / Group B goes to the Hands-On Session Room 343.

1:30 PM - 1:45 PM	Tamponade Jennifer D. Walker, <i>University of Massachusetts</i>
1:45 PM - 2:00 PM	Tension Pneumothorax Brandon Tieu, <i>Oregon Health & Science University</i>
2:00 PM - 2:15 PM	Airway Emergency *Stephen C. Yang, <i>Johns Hopkins Hospital</i>
2:15 PM - 2:30 PM	Post-op Bleeding *Howard K. Song, <i>Oregon Health & Science University</i>
2:30 PM - 2:45 PM	Low CO/CI Syndrome *Joseph C. Cleveland, Jr., <i>University of Colorado</i>
2:45 PM - 3:00 PM	Acute Aortic Syndromes Philip Hess, <i>University of Florida</i>

PART 3: Group A goes to the Hands-On Session Room 343 / Group B remains in Didactic Session Room 340.

3:00 PM - 3:15 PM	Tamponade Jennifer D. Walker, <i>University of Massachusetts</i>
3:15 PM - 3:30 PM	Tension Pneumothorax Brandon Tieu, <i>Oregon Health & Science University</i>
3:15 PM - 3:45 PM	Airway Emergency *Stephen C. Yang, <i>Johns Hopkins Hospital</i>
3:45 PM - 4:00 PM	Post-op Bleeding *Howard K. Song, <i>Oregon Health & Science University</i>
4:00 PM - 4:15 PM	Low CO/CI Syndrome *Joseph C. Cleveland, Jr., <i>University of Colorado</i>
4:15 PM - 4:30 PM	Acute Aortic Syndromes Philip Hess, <i>University of Florida</i>

Accreditation Information

Statement of Need

Cardiovascular disease and cancer are the leading causes of mortality and morbidity around the globe. Major advances in these conditions continue to be made at a rapid pace. Improvements in diagnostic techniques as well as interventional approaches to treatment, both surgical and percutaneous, challenge the clinical practitioner to remain current. Increasingly sophisticated technology to accomplish these aims is being developed and introduced into clinical practice. Exciting advances in basic and clinical science offer opportunities for participation in scientific studies and clinical trials. All of these elements create a significant educational need for the practicing cardiothoracic surgeon. The AATS Annual Meeting fills this need through a combination of lectures, original scientific presentations and discussion forums.

Educational Objectives

At the conclusion of the AATS Annual Meeting, through comprehensive lectures and discussions, participants will be able to:

1. Identify the latest techniques and current research specifically related to Adult Cardiac Surgery, Congenital Heart Disease, General Thoracic Surgery and Perioperative Care.
2. Select appropriate surgical procedures and other interventions for their own patients based upon results presented.
3. Incorporate the basic science developments and emerging technologies and techniques across the spectrum of cardiothoracic surgery.
4. Communicate current practice management necessary for the effective and safe delivery of patient care.
5. Translate expanded knowledge into practice for the improvement of patient outcomes and satisfaction.

Target Audience

The AATS Annual Meeting is specifically designed to meet the educational needs of:

- Cardiothoracic Surgeons
- Physicians in related specialties including Cardiothoracic Anesthesia, Critical Care, Cardiology, Pulmonology, Radiology, Gastroenterology, Thoracic Oncology and Vascular Surgery
- Fellows and Residents in Cardiothoracic and General Surgical training programs
- Health Care Professionals involved in the care of cardiothoracic surgical patients including Physician Assistants, Nurse Practitioners, Nurses, Surgical Assistants and Perfusionists
- Medical students with an interest in cardiothoracic surgery

AATS would like to thank the following companies for their marketing support:

Abbott Vascular	LivaNova
Atricure	Medela
CryoLife	Medtronic
Edwards Lifesciences	St. Jude Medical
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JOMDD	

AATS would like to thank the following companies for their educational support:

Abbott Vascular	Olympus America, Inc.
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As of April 20, 2016

Continuing Medical Education (CME) Accreditation

The American Association for Thoracic Surgery is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American Association for Thoracic Surgery designates this live educational activity for a maximum of **34.75 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity.



American Academy of Physician Assistants (AAPA) Accreditation

This program has been reviewed and is approved for a maximum of 67.25 hours of AAPA Category I CME credit by the Physician Assistant Review Panel. Physician assistants should claim only those hours actually spent participating in the CME activity. This program was planned in accordance with AAPA's CME Standards for Live Programs and for Commercial Support of Live Programs.

American Board of Cardiovascular Perfusion (ABCP) Accreditation

The American Board of Cardiovascular Perfusion designates this educational activity for a maximum of 40.1 Category 1 CEUs.

The American Association for Thoracic Surgery designates the following credit hours:

Saturday, May 14, 2016 – up to 6.5 hours (CME, AAPA, ABCP)

Adult Cardiac Skills, up to 6 hours
Congenital Skills, up to 5.25 hours
General Thoracic Skills, up to 6 hours
Interprofessional Cardiothoracic Team Symposium, up to 6 hours
Optimal Therapies for End-Stage Thoracic Organ Failure, up to 6.5 hours
Ethics Forum: Surgical Ethics Course, up to 5.75 hours

Sunday, May 15, 2016 – up to 7 hours (CME, AAPA, ABCP)

Adult Cardiac Surgery, up to 7 hours
Congenital Heart Disease, up to 7 hours
General Thoracic Surgery, up to 7 hours
Survival Guide for the Cardiothoracic Surgical Team, up to 3.75 hours

Monday, May 16, 2016 – up to 10.5 hours (CME, ABCP)

Plenary Scientific Session, Basic Science Lecture, Presidential Address, up to 3.5 hours
Ethics Forum Luncheon, up to 1.5 hours
Adult Cardiac Surgery Simultaneous Session, up to 2.5 hours
Congenital Heart Disease Simultaneous Session, up to 2.5 hours
General Thoracic Surgery Simultaneous Session, up to 2.5 hours
Perioperative Care Simultaneous Session, up to 2.5 hours
C. Walton Lillehei Resident Forum, up to 1.5 hours
Innovations in Transcatheter Therapies: What You Need to Know for Today and the Future, up to 1.5 hours

Tuesday, May 17, 2016 – up to 7 hours (CME, ABCP)

Cardiac Surgery Forum, up to 1.75 hours
General Thoracic Surgery Forum, up to 1.75 hours
Adult Cardiac Emerging Technologies and Techniques Forum, up to 1.75 hours
General Thoracic Emerging Technologies and Techniques Forum, up to 1.75 hours
Video Session, up to 1.75 hours
VAD/ECMO Session, up to 1.75 hours
Plenary Scientific Session, up to 2.25 hours
Honored Guest Lecture, not for credit
Cardiothoracic Surgical Trials Network: Implications for Clinical Practice, up to 1.25 hours
Adult Cardiac Surgery Simultaneous Session, up to 1.75 hours
Aortic/Endovascular Simultaneous Session, up to 1.75 hours
Congenital Heart Disease Simultaneous Session, up to 3 hours
General Thoracic Surgery Simultaneous Session, up to 3 hours

Wednesday, May 18, 2016 – up to 3.75 hours (CME, ABCP)

Adult Cardiac Surgery Simultaneous Session, up to 2 hours
Congenital Heart Disease Simultaneous Session, up to 2 hours
General Thoracic Surgery Simultaneous Session, up to 2 hours

Adult Cardiac Masters of Surgery Video Session, up to 1.75 hour
Congenital Masters of Surgery Video Session, up to 1.75 hours
General Thoracic Masters of Surgery Video Session, up to 1.75 hours

CME Certificates and Letters of Attendance

CME (Continuing Medical Education) and CE credits and Letters of Attendance may be obtained at the CME/CE Pavilion located in the Pratt Street Lobby, Level 300 of the Baltimore Convention Centre. The CME/CE Pavilion computers will allow attendees to manage all of their CME/CE credits and Letter of Attendance for the Annual Meeting. Access may also be obtained post-meeting by visiting <http://ceu.experient-inc.com/aat161>.

Attendees may email their CME/CE certificate and/or Letter of Attendance to themselves or they may print them out on site at the CME/CE Pavilion.

Disclosure Policy

It is the policy of the American Association for Thoracic Surgery (AATS) that any individual who is in a position to control or influence the content of an educational activity to disclose all relevant financial relationships or affiliations. All identified conflicts of interest must be resolved and the educational content thoroughly vetted by AATS for fair balance, scientific objectivity, and appropriateness of patient care recommendations. In addition, faculty members are asked to disclose when any discussion of unapproved use of pharmaceutical or medical device occurs.

For further information on the Accreditation Council for Continuing Medical Education (ACCME) standards of commercial support, please visit www.accme.org.

Disclosure List

Committee Disclosures

The following committee members have nothing to disclose with regard to commercial support. The following faculty members do not plan on discussing unlabeled/investigational uses of a commercial product.

*Ottavio R. Alfieri	Katherine J. Hoercher	*Nevin M. Katz	*Todd K. Rosengart
*Duke E. Cameron	*Viktor Hraska	*E. Dean McKenzie	*George E. Sarris
*Edward P. Chen	*John S. Ikonomidis	*Marc R. Moon	*Ashish S. Shah
*Haiquan S. Chen	*Krishna S. Iyer	*Mark Onaitis	*Dirk E. van Raemdonck
*Gebrine El Khoury	*David R. Jones	*Gosta B. Pettersson	*Paul E. van Schil

The following committee members have disclosures with regard to commercial support. The following faculty members do not plan on discussing unlabeled/investigational uses of a commercial product.

*Andrew C. Chang	Financial / Material Support from Ethicon Endo-Surgery, Covidien
*Joseph S. Coselli	Grants/Research Support from Edwards Lifesciences, Medtronic, WL Gore & Associates, GlaxoSmithKline; Consultant with St. Jude Medical Inc, Vascutek Terumo, Medtronic, WL Gore & Associates; Royalties from Vascutek Terumo
*R. Duane Davis	Grants/Research Support from ExVivo Perfusion, Perfusix, AtriCure; Consultant with Allmed, Transplant Analytics, Transplant Management Group
*Charles D. Fraser	Consultant with Berlin Heart
*Shaf Keshavjee	Founder and Chief Scientific Officer of Perfusix Canada, Perfusix USA, XOR Laboratories; Research Support from XVIVO Perfusion, United Therapeutics, United Therapeutics
*M. Blair Marshall	Consultant with Ethicon; Financial / Material Support from ClinicalKey-Elsevier, Thoracic Surgery Clinic-Elsevier
Scott C. Silvestry	Consultant with Thoratec and Heartware

*Thoralf M. Sundt, III	Consultant with Thorasos, Inc.
*David P. Taggart	Grants/Research Support from Medistim, Vascular Graft Solutions; Consultant with Somahlution, Vascular Graft Solutions; Stock Shareholder with Vascular Graft Solutions; Financial / Material Support from Medistim, Vascular Graft Solutions
*Luca A. Vricella	Advisor with St. Jude Medical
*Thomas K. Waddell	Consultant with Perfusix US, Lunch Biotechnology Inc.; Stock Shareholder with XOR Labs Toronto, Inc.

Faculty Disclosures

The following faculty members have nothing to disclose with regard to commercial support. The following faculty members do not plan on discussing unlabeled/investigational uses of a commercial product.

*Prasad S. Adusumilli	*Jonathan W. Haft	Carlos M. Mery	*David J. Sugarbaker
*Nasser K. Altorki	*Frank L. Hanley	*Thomislav Mihaljevic	Yihua Sun
*Francisco A. Arabia	*David H. Harpole	*Carmelo A. Milano	Hiroo Takayama
*Matthew Bacchetta	Matthew Hartwig	J. Scott Millikan	Lijie Tan
*Carl L. Backer	Philip Hess	Nader Moazami	Kneichi Tanaka
*Leonard L. Bailey	Katherine J. Hoercher	*Susan D. Moffatt-Bruce	Brandon Tieu
*Manjit S. Bains	*Wayne L. Hofstetter	*Friedrich W. Mohr	Michael Tong
Tim Baldwin	David Holmes	*Marc R. Moon	Hakin Akin Turk
Keki R. Balsara	Charles Hoopes	*Michael S. Mulligan	*James S. Tweddell
*Ko Bando	+James Huang	*Sudish C. Murthy	*Ross M. Ungerleider
*Clifford W. Barlow	*John S. Ikonmidis	Katie S. Nason	*Paul E. van Schil
*Joseph E. Bavaria	*Krishna S. Iyer	*John L. Ochsner	Jennifer D. Walker
*Mark F. Berry	*Jeffrey P. Jacobs	*Mark Onaitis	David Waller
*Shanda H. Blackmon	*Richard A. Jonas	Isabelle Optiz	*Glenn J. Whitman
+Daniel J. Boffa	*David R. Jones	*Mark B. Orringer	*Richard I. Whyte
*Haiquan S. Chen	*Kirk R. Kanter	*G. Alec Patterson	*Y. Joseph Woo
*Jonathan M. Chen	Navin K. Kapur	Giles Peek	*Cameron D. Wright
Aaron M. Cheng	*Tom R. Karl	*Gosta B. Pettersson	*Stephen C. Yang
*George T. Christakis	*Nevin M. Katz	*Frank A. Pigula	
Larry Churchill	William Brent Keeling	*Christian Pizarro	
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*Joel D. Cooper	*Christopher J. Knott-	*John D. Puskas	
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*Gail E. Darling	*Brian E. Kogon	Jens C. Rueckert	
*Tirone E. David	*Leslie J. Kohman	*Robert M. Sade	
*Joseph A. Dearani	*Neal D. Kon	*Shunji Sano	
*Todd L. Demmy	Rajesh Krishnamurthy	*Inderpal S. Sarkaria	
*Gebrine El Khoury	*Irving L. Kron	*George E. Sarris	
Stephen G. Ellis	Thorsten Rueger	*Hans-Joachim Schaefers	
Daniel T. Engelman	Robert A. Lancey	*Ashish S. Shah	
Stephan Ensminger	Damien J. LaPar	*David M. Shahian	
John W.C. Entwistle	*Jennifer S. Lawton	Steve Singh	
Kathleen Fenton	*Jay M. Lee	*Craig R. Smith	
Pier Luigi Filosso	David Lizotte	*Howard K. Song	
*Raja M. Flores	+Simon Maltais	*Thomas L. Spray	
*Richard K. Freeman	Gerald Ross Marx	*Vaughn A. Starnes	
Annie Garcia	*Kenneth R. McCurry	Sandra Starnes	
*Leonard N. Girardi	*E. Dean McKenzie	*Brendon M. Stiles	
*Thomas G. Gleason	*Martin F. McKneally	+John Stulak	

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*Abbas Ardehali	<i>Off-label/unapproved use discussion</i> – OCS-Lung, XVIVO Platform
+Laurent de Kerchove	<i>Off-label/unapproved use discussion</i> – use of the Simplici-T band as an external circumferential ring annuloplasty in aortic valve repair
Kathleen Fenton	<i>Off-label/unapproved use discussion</i> – The topic assigned is euthanasia and physician assisted suicide. This represents off label drug use in most places.
William Lynch	<i>Off-label/unapproved use discussion</i> – ECMO technologies are used in "off label" when used for ECMO
Chris Sciortino	<i>Off-label/unapproved use discussion</i> – Temporary RV support

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*Michael A. Acker	Consultant with Thoratec Inc, HeartWare Inc.; Financial / Material Support from Edwards Lifesciences
*David H. Adams	Inventor with Royalties: Edwards Lifesciences, Medtronic; National Co-PI: Medtronic
*Emile A. Bacha	Consultant with Cormatrix
*Faisal G. Bakaeen	Consultant with JACE Medical
*Steven F. Bolling	Consultant with Sorin, Abbott, Medtronic; Financial / Material Support from Edwards.
*Raphael Bueno	Grants/Research Support from Castle Biosciences, Myriad, Novartis, Verastem, Genentech, Siemens
*Edward Cantu	Financial / Material Support from XVIVO, Inc
*Robert J. Cerfolio	Consultant with Community Health Systems; Honorarium from Intuitive Surgical, Ethicon
*Andrew C. Chang	Financial / Material Support from Ethicon Endo-Surgery, Covidien
*Edward P. Chen	Honorarium from Cryolife
*William E. Cohn	Consultant with Mardil, Sunshine Heart, CorInnova, Reliant Heart, BIVACOR; Financial / Material Support from Cardiovascular Systems Inc., TVA Medical, SentreHEART
*John V. Conte	Grants/Research Support from Boston Scientific, St Jude Medical, Medtronic; Consultant with Sorin, Medtronic
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*Traves D. Crabtree	Consultant with Ethicon Endosurgery.
+Marcelo Cypel	Grants/Research Support from Vivo Perfusion; Consultant with Lung Bioengineering/United Therapeutics; Stock Shareholder with XOR Labs Toronto and Perfusix Canada.
*Thomas A. D'Amico	Consultant with Scanlan

*R. Duane Davis	Grants/Research Support from ExVivo Perfusion, Perfusix, AtriCure; Consultant with Allmed, Transplant Analytics, Transplant Management Group
*Marc de Perrot	Honorarium from Bayer
*Pedro J. del Nido	Stock Shareholder with Nido Surgical LLC.
Jennifer Ellis	Consultant with KCI
*Charles D. Fraser	Consultant with Berlin Heart
*James S. Gammie	Stock Shareholder with Harpoon Medical, Inc.
*A. Marc Gillinov	Grants/Research Support from St. Jude; Consultant with On-X, Medtronic, Abbott, Clearflow, Tendy; Stock Shareholder with Clearflow; Financial / Material Support from AtriCure, Edwards Lifesciences, Medtronic, St. Jude
Eric Grogan	Grants/Research Support from VA Career Development Award
*Robert A. Guyton	Consultant with Medtronic, Inc.
James Isbell	Stock Shareholder with LumaCyte, LLC
*Marhsall L. Jacobs	Consultant with Berlin Heart
*A. Pieter Kappetein	Grants/Research Support from Medtronic (Steering committee SURTAVI trial)
*Shaf Keshavjee	Founder and Chief Scientific Officer of Perfusix Canada, Perfusix USA, XOR Laboratories; Research Support from XVIVO Perfusion, United Therapeutics, United Therapeutics
*Kamal R. Khabbaz	Consultant with On-X Life Technologies
Joseph Lamelas	Stock Shareholder with Miami Instruments; Honorarium from Medtronic, St. Jude, On-Q
*Michael J. Liptay	Honorarium from Covidien
Vassyl Lonchya	Stock Shareholder with Abbott, Abbvie and Hospira
Brian E. Louie	Grants/Research Support from Torax Medical Incorporated, Olympus Medical, Boston Scientific; Consultant with Torax Medical Incorporated
*James D. Luketich	Stock Shareholder with Abbott, Abbvie and Hospira
*Michael J. Mack	Manufacturer of Product with Edwards Lifesciences, Abbott Vascular
Herb Macmahon	Grants/Research Support from Philips Healthcare; Consultant with Riverain Technologies
*Michael M. Madani	Consultant with Bayer, Actelion, Wexler Surgical
*M. Blair Marshall	Consultant with Ethicon; Financial / Material Support from ClinicalKey-Elsevier, Thoracic Surgery Clinic-Elsevier
*Patrick M. McCarthy	Consultant with Abbott Vascular, Edwards Lifesciences, MiCardia; Financial / Material Support from Edwards Lifesciences

*D. Craig Miller	Grants/Research Support from Abbott Vascular -COAPT MitralClip Trial, PARTNER I & II Trials, Edwards Lifesciences, LLC, Medtronic Core Valve SURTAVI Trial, Edwards Lifesciences, COMMENCE Trial, PARTNER Executive Committee Member -Percutaneous AVR, Edwards Life
Daniela Molena	Honorarium from Novadaq Inc.
*Francis D. Pagani	Grants/Research Support from Thoratec, HeartWare
*Arjun Pennathur	Grants/Research Support from Accuray
*Louis P. Perrault	Consultant with Somahlution, Clearflow.
*Vivek Rao	Consultant with Medtronic, Thoratec, CorMatrix Cardiovascular
Stuart Russell	Consultant with Thoratec
*Joseph F. Sabik	Grants/Research Support from Edwards, Abbott; Consultant with Sorin, Medtronic; Honorarium from Medtronic
Jan D. Schmitto	Consultant with Thoratec Corp. Consultant, Heartware Inc.
Girish S. Shirali	Grants/Research Support from Edwards LifeSciences
Alain D.L. Sihoe	Financial / Material Support from Medela AG (Baar, Switzerland)
Scott C. Silvestry	Consultant with Thoratec and Heartware
*Mark S. Slaughter	Grants/Research Support from Heartware; Consultant with Sunshine Heart, Carmat, Johnson & Johnson
*Thoralf M. Sundt, III	Consultant with Thorasos, Inc.
*Lars G. Svensson	Manufacturer of Product with Royalties with Posthorax, Cardiosolutions Inc.
*David P. Taggart	Grants/Research Support from Medistim, Vascular Graft Solutions; Consultant with Somahlution, Vascular Graft Solutions; Stock Shareholder with Vascular Graft Solutions; Financial/Material Support from Medistim, Vascular Graft Solutions
*Vinod H. Thourani	Grants/Research Support from Abbott Medical, Edwards Lifesciences, Medtronic, St. Jude, Claret, Boston Scientific; Advisor with Abbott Medical, Edwards Lifesciences, Medtronic
*Ross M. Ungerleider	Consultant with Medtronic, Inc.
*Luca A. Vricella	Advisor with St. Jude Medical
*Thomas K. Waddell	Consultant with Perfusix US, Lunch Biotechnology Inc.; Stock Shareholder with XOR Labs Toronto, Inc.
*Song Wan	Consultant with St Jude; Honorarium from Sorin
*Mathew Williams	Consultant and Research Support from Medtronic, Edwards Lifesciences

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Iki Adachi	Grants/Research Support from Baylor College of Medicine; Consultant with New England Research Institutes, Sony-Olympus Medical Solutions; <i>Off-label/unapproved use discussion</i> – HeartWare HVAD, Thoratec HeartMate II, Abiomed Impella
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Mani A. Daneshmand	Honorarium from Maquet; <i>Off-label/unapproved use discussion</i> – ECMO is only FDA approved for 6 hours. I will be discussing supporting patients longer than 6 hours.
Hal Dietz	Grants/Research Support from NIH, HHMI, Scleroderma Research Foundation, Marfan Foundation, Leducq Foundation; Consultant with Blade Therapeutics, GSK; Stock Shareholder with Blade Therapeutics; <i>Off-label/unapproved use discussion</i> – Losartan
*Yves d'Udekem	Consultant with MSD, Actelion; <i>Off-label/unapproved use discussion</i> – Contegra valve in a mitral position
Aly El Banayosy	Consultant with Thoratec; <i>Off-label/unapproved use discussion</i> – Use of the CentriMag Pump in ECMO Circuits
Bradley G. Leshnower	Consultant with Cryolife, Inc.; <i>Off-label/unapproved use discussion</i> – deployment of a thoracic aortic stent graft in an antegrade fashion for the treatment of Type A aortic dissection
*David L. Morales	Grants/Research Support from CorMatrix; Consultant with CorMatrix, Syncardia, Berlin Heart Inc.; Financial/Material Support from CorMatrix Options; <i>Off-label/unapproved use discussion</i> – Syncardia TAH 50/50cc
*Eric E. Roselli	Consultant with Bolton, Gore, Medtronic, LivaNova; Financial / Material Support from Direct Flow; Honorarium from St. Jude , Vascutek, Cook, Edwards; <i>Off-label/unapproved use discussion</i> – thoracic stentgrafts
Ronald K. Woods	Grants/Research Support from HeartWare, Syncardia; <i>Off-label/unapproved use discussion</i> – MCS in single ventricle patients
Shi-Joon Yoo	Manufacturer of Product with 3D HOPE Medical; <i>Off-label/unapproved use discussion</i> – MRI contrast agents in children

AATS Staff

AATS Staff have nothing to disclose with regard to commercial support.

**THE AMERICAN ASSOCIATION FOR THORACIC SURGERY
BALTIMORE STATE CONVENTION CENTER | BALTIMORE, MARYLAND
SATURDAY, MAY 14 – WEDNESDAY, MAY 18, 2016**

MONDAY, MAY 16, 2016

6:30 a.m.	Maintenance of Certification Information Breakfast This will have the faculty and a short description, similar to last year.	Room 340, BCC Not for Credit
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7:20 a.m.	Business Session, AATS Members Only	Hall E, BCC
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7:30 a.m.	Plenary Scientific Session 8 minute presentation, 12 minute discussion <i>Moderators: *Joseph S. Coselli and *Marc R. Moon</i>	Hall E, BCC
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1. Tricuspid Regurgitation Is Uncommon after Mitral Valve Repair for Degenerative Disease

***Tirone E. David**, Carolyn M David, Cedric Manlhiot
Toronto General Hospital, Toronto, ON, Canada

Invited Discussant: *Gilles D. Dreyfus

2. Comparison of del Nido and St. Thomas Cardioplegia Solutions for Myocardial Protection in Pediatric Patients Undergoing Open Heart Surgery: A Prospective Randomized Clinical Trial

Sachin Talwar, Amolkumar Bhoje, Vishnubhatla Sreenivas, Shiv Kumar Choudhary, Balram Airan
All India Institute of Medical Sciences, New Delhi, India

Invited Discussant: *Pedro J. del Nido

3. A Population-based Analysis of Surgical Resection Versus Stereotactic Body Radiation Therapy for Stage I Non-small Cell Lung Cancer

Babatunde A. Yerokun¹, Chi-Fu Jeffrey Yang¹, Brian C Gulack¹, Michael S. Mulvihill¹, Lin Gu¹, Xuechan Li¹, Xiaofei Wang¹, *Mark F. Berry², *David H. Harpole¹, Thomas A. D'Amico¹, Matthew G. Hartwig¹

¹Duke University, Durham, NC; ²Stanford University, Stanford, CA

Invited Discussant: *Walter Weder

4. Causes of Death From the Randomized Comparison of Self-Expanding Transcatheter or Surgical Aortic Valve Replacement in Patients at High Surgical Risk

Vincent A. Gaudiani¹, Jeffrey J. Popma², *David H. Adams³, James Joye⁴, G. Michael Deeb⁵, Steven J. Yakubov⁶, *Michael J. Reardon⁷

¹Pacific Coast Cardiac and Vascular Surgeons, Redwood City, CA; ²Beth Israel Deaconess Medical Center, Boston, MA; ³Mount Sinai Medical Center, New York, NY; ⁴El Camino Hospital, Mountain View, CA; ⁵University of Michigan Medical Center, Ann Arbor, MI; ⁶Riverside Methodist Hospital/Ohio Health Research Institute, Columbus, OH; ⁷Houston-Methodist-Debakey Heart and Vascular Center, Houston, TX

Invited Discussant: *Craig R. Smith

8:50 a.m.	Award Presentations	Hall E, BCC
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9:05 a.m.	Coffee Break in the Exhibit Hall
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9:45 a.m. Basic Science Lecture Hall E, BCC
Stopping Incurable Cancers through Eliminating their Anti-Oxidative Defenses
 James D. Watson, *Watson School of Biological Science*

10:25 a.m. Plenary Scientific Session Hall E, BCC
*Moderators: *Thoralf M. Sundt, III and *Marc R. Moon*

5. Surgical Quality Measures in Stage IIIA Non-small Cell Lung Cancer are Associated with Improved Survival

Pamela Samson¹, *Traves Crabtree¹, Daniel Morgensztern¹, Clifford Robinson¹, Stephen Broderick², G. Alexander Patterson¹, Bryan Meyers¹, +Varun Puri¹

¹Washington University, St. Louis, MO; ²St. Luke's Hospital, Chesterfield, MO

Invited Discussant: *Mark S. Allen

Late-Breaking Clinical Trial

Invited Discussant:

11:05 New Member Induction Hall E, BCC

11:25 a.m. Presidential Address Hall E, BCC
Competition: Perspiration to Inspiration
"Aut viam inveniam aut faciam"
 *Joseph S. Coselli, *Baylor College of Medicine*

12:15 p.m. Adjourn for Lunch in the Exhibit Hall

12:30 p.m. Ethics Forum Luncheon Room 343, BCC
 Separate Registration Required
Should a Surgeon Comply with Hospital Administration's Demand to Change Valve Preference?
Moderator: *Robert M. Sade, *Medical University of South Carolina*
Pro: J. Scott Millikan, *Billings Clinic*
Con: Robert J. Cusimano, *Toronto General Hospital*

12:30 p.m. Cardiothoracic Residents Luncheon: Room 343, BCC
Preparing Yourself for an Academic Career Luncheon
 Residents, Fellows and Medical Students Only
Not for Credit

MONDAY AFTERNOON, MAY 16, 2016

2:00 p.m. Adult Cardiac Surgery Simultaneous Scientific Session Hall E, BCC
 8 minute presentation, 12 minute discussion
*Moderators: *Scott A. LeMaire *Vinod H. Thourani*

6. Is Concomitant Tricuspid Valve Surgery Beneficial during Left Ventricular Assist Device Implantation: A Multi-Institutional Analysis

+John M. Stulak¹, Vakhtang Tchantchaleishvili¹, Nicholas A. Haglund², Shannon Dunlay¹, Keith Aaronson³, Jennifer Cowger⁴, Palak Shah⁵, *Francis D. Pagani³, +Simon Maltais¹

¹Mayo Clinic, Rochester, MN; ²Vanderbilt Heart, Nashville, TN; ³University of Michigan Health System, Ann Arbor, MI; ⁴St. Vincent Heart Center, Indianapolis, IN; ⁵Inova Heart and Vascular Institute, Falls Church, VA

Invited Discussant: *Nader Moazami

7. Comparison of Surgical Aortic Valve Replacement, Minimally Invasive Valve Replacement, and Transcatheter Aortic Valve Replacement In 2571 Patients

Tom C. Nguyen¹, *Vinod Thourani², Yelin Zhao¹, Matthew D. Terwelp¹, Prakash Balan¹, Daniel Ocazonez¹, *Anthony Estrera¹, Richard Smalling¹, Vasilis C. Babaliaros², Joseph Lamelas³

¹University of Texas, Houston, TX; ²Emory University, Atlanta, GA; ³Mount Sinai Medical Center, Miami Beach, FL

Invited Discussant: *Mathew R. Williams

8. A Long-Term Comparison Between Artificial Chordae And Double Orifice Repair In Degenerative Mitral Regurgitation Due To Anterior And Bileaflet Prolapse

Andrea Giacomini, Elisabetta Lapenna, Michele De Bonis, Giovanni La Canna, Alessandro Castiglioni, Teodora Nisi, *Ottavio Alfieri

San Raffaele University Hospital, Milan, Italy

Invited Discussant: *Mark Ruel

3:00 p.m. – 3:35 p.m. Coffee Break in the Exhibit Hall

9. Aortic Root Surgery with Circulatory Arrest: Predictors of Prolonged Hospital Stay and Implications for Lowering Hospital Cost and Expediting Recovery

+Ourania Preventza¹, Andrea Garcia¹, Shahab Akvan¹, Sarang Kashyap¹, Kiki Simpson², *Denton Cooley³, *Scott A. LeMaire¹, Kim de la Cruz¹, Konstantinos Spiliotopoulos¹, Matt D. Price¹, *Faisal G. Bakaeen², Shuab Omer², Lorraine Corwell², *Joseph Coselli¹

¹Baylor College of Medicine, Houston, TX; ²Michael E. DeBakey Veterans Affairs Medical Center, Houston, TX; ³Texas Heart Institute, Houston, TX

Invited Discussant: *Nicholas T. Kouchoukos

10. Why do a Ross? Equivalent 15-Year Survival But Improved Freedom from Thrombohemorrhagic Complications Compared to Mechanical Aortic Valve Replacement: A Propensity-Matched Cohort Study

Amine Mazine, Cedric Manlhiot, *Vivek Rao, Edward J Hickey, Shakira Christie, *Tirone E. David, Maral Ouzounian
University of Toronto, Toronto, ON, Canada

Invited Discussant: *Duke E. Cameron

11. Predictors for Stable Late Rhythm in Surgical Ablation for Atrial Fibrillation Patients

*Niv Ad, Sari Diana Holmes, Deborah J. Shuman, Graciela Pritchard, Deborah Lamont
Inova Heart and Vascular Institute, Falls Church, VA

Invited Discussant: *Ralph J. Damiano, Jr.

12. What is the Risk of Adding Aortic Replacement to Cardiac Surgery?

Jay J. Idrees, *Eric E. Roselli¹, Ashley Lowery, *Eugene H. Blackstone, +Douglas R. Johnston, +Edward G. Soltesz, Gosta B. Pettersson, *Joseph F. Sabik, III, *Lars G. Svensson
Cleveland Clinic Foundation, Cleveland, OH

Invited Discussant: *Joseph E. Bavaria

5:00 p.m. Adjourn

MONDAY AFTERNOON, MAY 16, 2016

2:00 p.m. Congenital Heart Disease Simultaneous Scientific Session
8 minute presentation, 12 minute discussion
*Moderators: *Duke E. Cameron and *Jennifer C. Hirsch-Romano*

Ballroom III, BCC

13. Five-Year Experience With Arterial Switch Operation In the First Hours of Life using Autologous Umbilical Cord Blood
Kyrylo Chasovskyi, Yaroslav Mykychak, Nadiya Rudenko, Ganna Vorobyova, Illya Yemets
Ukrainian Children's Cardiac Center, Kyiv, Ukraine

Invited Discussant: *Christopher A. Caldarone

14. Five-Year Experience with Immediate Extubation after Arterial Switch Operation for Transposition of Great Arteries
Joby Varghese, Shelby Kutty, Sandy Hall, Mary Craft, Ibrahim Abdullah, James M. Hammel
Children's Hospital and Medical Center Omaha, Omaha, NE

Invited Discussant: Emile Bacha

15. Should All Patients with Congenitally Corrected Transposition of Great Arteries (ccTGA) Undergo Anatomic Repair?
Maryam Alomair, Mohammed Al-Jughiman, Andrew Redington, *Christopher Caldarone, Luc Mertens, *Glen Van Arsdell
University of Toronto, Toronto, ON, Canada

Invited Discussant: *Bahaaldin AlSoufi

16. Pediatric Cardiac Surgical Outcomes following Implementation of a Novel Acuity Adaptable Care Model
John M. Costello, Elizabeth Preze, Nguyenvu Nguyen, Mary E. McBride, James W. Collins, Jr., Osama Eltayeb, Michael C. Monge, Barbara J. Deal, Michelle M. Stephenson, *Carl L. Backer
Ann and Robert H Lurie Children's Hospital of Chicago, Chicago, IL

Invited Discussant: *Sertac Cicek

3:20 p.m. - 3:55 p.m. Coffee Break in the Exhibit Hall

17. Preoperative Hemodynamic Parameters Predict Adverse Outcomes in Patients undergoing Biventricular Conversion with Damus-Kaye-Stansel Takedown
Melissa A. Herrin, Breanna L. Piekarsk, David Zurakowski, Christopher W. Baird, Wayne Tworetzky, Puja Banka, Gerald R. Marx, Roger E. Breitbart, Audrey C. Marshall, *Pedro J. del Nido, Sitaram M. Emani
Boston Children's Hospital, Harvard Medical School, Boston, MA

Invited Discussant: *E. Dean McKenzie

18. Effect of Preoperative Administration of Allopurinol on Postoperative Outcomes in Patients Undergoing Repair of Tetralogy of Fallot
Sachin Talwar, Murugan Selvam Sathiya, Vishnubhatla Sreenivas, Shiv Kumar Choudhary, Balram Airan
All India Institute of Medical Sciences, New Delhi, India

Invited Discussant: *J. William Gaynor

Late-Breaking Clinical Trial

Invited Discussant:

5:00 p.m. Adjourn

MONDAY AFTERNOON, MAY 16, 2016

2:00 p.m. General Thoracic Surgery Simultaneous Scientific Session

Ballroom IV, BCC

8 minute presentation, 12 minute discussion

*Moderators: *Sudish C. Murthy and *Thomas K. Waddell*

19. Late-Breaking Clinical Trial

Invited Discussant:

20. Achieving a 3-Star Lobectomy Ranking by using Continuing Process Improvement, Lean Methodology and Root Cause Analysis

*Robert Cerfolio¹, Benjamin Wei¹, Caroline Watson¹, Douglas Minnich¹, *Malcolm DeCamp²

¹*University of Alabama, Birmingham, AL;* ²*Northwestern University, Chicago, IL*

Invited Discussant: *Stephen D. Cassivi

21. Is There a Hospital Volume Threshold for Operative Mortality for Lung Resections?

Anna Bendzsak, Nancy N. Baxter, Gail E. Baxter, Peter C. Austin, David R. Urbach

University of Toronto, Toronto, ON, Canada

Invited Discussant: *Benjamin D. Kozower

22. Unplanned Readmission following Esophagectomy: Complete follow up in a One Year Cohort With Identification of Risk Factors

Karen J. Dickinson, James Taswell, *Mark S. Allen, *Shanda H. Blackmon, *Francis C. Nichols, III, *K. Robert Shen, *Dennis A. Wigle, *Stephen D. Cassivi

Mayo Clinic, Rochester, MN

Invited Discussant: *Pascal A. Thomas

3:20 p.m. - 3:55 p.m. Coffee Break in the Exhibit Hall

23. Predicting Readmission after Resection for Non-Small Cell Lung Cancer (NSCLC): A Progression Toward Prevention

Trevor A. Davis, Craig M. Hooker, Alicia Hulbert, Chen Chen, *Richard Battaifarano, *Malcolm V. Brock, Daniela Molena,

*Stephen C. Yang

The Johns Hopkins Medical Institutions, Baltimore, MD

Invited Discussant: *Tomasz Grodzki

24. Pulmonary Metastasectomy with Curative Intent for Soft Tissue Sarcoma

Neel P. Chudgar, Murray F. Brennan, Rodrigo R. Munhoz, Peter R. Bucciarelli, Kay See Tan, Sandra P. D'Angelo, *Manjit S. Bains, Matthew Bott, +James Huang, *Bernard J. Park, *Valerie W. Rusch, *Prasad S. Adusumilli¹ *David R. Jones

Memorial Sloan Kettering Cancer Center, New York, NY

Invited Discussant: *Garrett L. Walsh

25. A Propensity Matched Comparison of Robotic, Thoracoscopic and Transsternal Thymectomy for Non-Thymomatous Myasthenia Gravis.

*Richard K. Freeman, Anthony J Ascoti, Megan Dake, Raja S Mahidhara

St. Vincent's Health and Hospital System, Indianapolis, IN

Invited Discussant: *Kemp H. Kerstine

5:00 p.m. Adjourn

MONDAY AFTERNOON, MAY 16, 2016
SIMULTANEOUS SCIENTIFIC SESSIONS

2:00 p.m. **Perioperative Care Simultaneous Scientific Session** Room 337, BCC

8 minute presentation, 7 minute discussion

Moderators: *Gosta B. Pettersson and *Glenn J. Whitman

26. Pre-operative Hyperglycemia - A Risk Factor for Adverse Outcomes in Patients Undergoing Coronary Artery Surgery

Pradeep Narayan, Sarang Naresh Kshirsagar, Chandan Kumar Mandal, Emmanuel Rupert, Saibal Roy Chowdhury, Debasis Das, Mrinalendu Das

Rabindranath Tagore International Institute of Cardiac Sciences, Kolkata, India

Invited Discussant: *Harold L. Lazar

27. Goal-Directed Resuscitation Following Cardiac Surgery Reduces Acute Kidney Injury: A Quality Initiative Pre-Post Analysis

Lily E. Johnston, Robert H. Thiele, Emily A. Downs, James M. Jaeger, Ravi K. Ghanta, *Irving L. Kron, James M. Isbell

University of Virginia, Charlottesville, VA

Invited Discussant: *John V. Conte

28. Phase of Care Mortality Analysis: A Unique Method for Comparing Mortality Differences Among TAVR and Surgical AVR Patients

Todd C. Crawford, J. Trent Magruder, Joshua C. Grimm, Kaushik Mandal, Joel Price, Jon R. Resar, Matthew Chacko, Rani K.

Hasan, *Glenn J. Whitman, *John V. Conte

Johns Hopkins University, Baltimore, MD

Invited Discussant:

29. Preoperative MRSA Screening and Targeted Decolonization in Cardiac Surgery

Manoj Kumar Saraswat, J. Trent Magruder, Julia Michele Gardner, Avinash Gadala, Damon Duquaine, Marc Steven Sussman,

Lisa Lockerd Maragakis, *Glenn Joseph Robert Whitman

Johns Hopkins Medical Institutions, Baltimore, MD

Invited Discussant: *Richard J. Shemin

30. Does Timing of Delayed Sternal Closure Affect Short- and Long-Term Outcomes in Patients with Open Chest Management Following Cardiac Surgery?

Joshua K. Wong, Devang J. Joshi, Amber L. Melvin, William J. Archibald, Alcina Lidder, *George L. Hicks, Peter A. Knight

University of Rochester, Rochester, NY

Invited Discussant:

3:15 p.m. – 3:45 p.m. Coffee Break in the Exhibit Hall

31. Early Extubation After Cardiac Surgery: Should Six Hours Be the Standard

Todd C. Crawford, J. Trent Magruder, Joshua C. Grimm, Christopher M. Sciortino, *John V. Conte, Bo S. Kim, *Robert S. Higgins,

*Duke E. Cameron, Marc Sussman, *Glenn J. Whitman

Johns Hopkins University School of Medicine, Baltimore, MD

Invited Discussant:

32. Outcomes of Octogenarians Discharged Home after Prolonged ICU Length of Stay after Cardiac Surgery

Rizwan A. Manji, Rohit K. Singal, Brett Hiebert, *Alan H. Menkis, *Rakesh C. Arora

University of Manitoba, Winnipeg, MB, Canada

Invited Discussant:

33. The Effects of Steroids on Coagulation Dysfunction Induced by Cardiopulmonary Bypass: A Steroids in Cardiac Surgery (SIRS) Trial Sub-study

Domenico Paparella¹, *Alessandro Parolari², Crescenza Rotunno¹, Jessica Vincent³, Veronica Myasoedova⁴, Francesco Alamanni⁵, Piero Guida¹, Micaela de Palo¹, Vito Margari¹, Philip Devereaux⁶, Andre Lamy⁶, Salim Yusuf⁶, Richard Whitlock⁶
¹University of Bari, Bari, Italy; ²Policlinico San Donato, University of Milan, San Donato Milanese (MI), Italy; ³Hamilton Health Science and McMaster University, Hamilton, ON, Canada; ⁴Centro Cardiologico Monzino, Milan, Italy; ⁵Centro Cardiologico Monzino, Milano, Italy; ⁶Population Health Research Institute Mc Master University, Hamilton, ON, Canada

Invited Discussant: *Hersh Maniar

34. Unilateral Antegrade Cerebral Perfusion During Moderate Hypothermic Circulatory Arrest: Using Intraoperative EEG and Cerebral Oximetry to Improve Outcomes

Arminster S. Jassar, Steven R. Messe, *Joseph E. Bavaria, Prashanth Vallabhajosyula, +Nimesh D. Desai, Rita K. Milewski, Jacob Gutsche, William J. Vernick, *W Clark Hargrove, III, *Wilson Y. Szeto
University of Pennsylvania, Philadelphia, PA

Invited Discussant: *Eric E. Roselli

35. Optimal Blood Pressure during Cardiopulmonary Bypass Defined by Cerebral Autoregulation Monitoring and its Association with Severe Coronary Artery Disease

Daijiro Hori, Yohei Nomura, Masahiro Ono, Brijen Joshi, Kaushik Mandal, *Duke Cameron, Charles Hogue
The Johns Hopkins Hospital, Baltimore, MD

Invited Discussant: Kenneth Shann

5:00 p.m. Adjourn

MONDAY EVENING, MAY 16, 2016

5:00 p.m.	19th Annual C. Walton Lillehei Resident Forum	Room 340, BCC
	7 minute presentation, 5 minute discussion	
	Chairs: *Juan A. Crestanello and *Pirooz Eghtesady	

L1. Thoracic-radiation Induced Tumor Immunomodulation: Mechanistic Insights and Translational Rationale for Combining with Chimeric Antigen Receptor (CAR) T-Cell Therapy for Thoracic Cancers

Jonathan Villena-Vargas, Marissa Mayor, Andreas de Biasi, *David R. Jones, Michel Sadelain, *Prasad S. Adusumilli
Memorial Sloan Kettering Cancer Center, New York, NY

Invited Discussant: *Dao M. Nguyen

L2. Utilization of Lungs for Transplantation Following Donor Cardiac Death in the Field Is Successful with Targeted Drug Delivery During Ex Vivo Lung Perfusion

Eric J. Charles, J. Hunter Mehaffey, Ashish K. Sharma, James M. Isbell, *Christine L. Lau, *Curtis G. Tribble, Victor E. Laubach,

*Irving L. Kron

University of Virginia Health System, Charlottesville, VA

Invited Discussant: *Thomas K. Waddell

L3. Pathogenesis of De Novo Lung-Restricted Autoimmunity Following Lung Transplantation

Stephen Chiu¹, Vijay Subramanian², *Daniel Kreisel², GR Scott Budinger¹, Harris Perlman¹, *Malcolm McAvoy DeCamp, Jr.¹, Thalachallour Mohanakumar², Ankit Bharat¹

¹*Northwestern University, Chicago, IL*; ²*Washington University, St. Louis, MO*

Invited Discussant: +Jonathan D'Cunha

L4. Overexpression of the RNA-binding Protein CUG-BP1 Promotes Esophageal Cancer Cell Proliferation by Enhancing Mtor Expression

Daniel Mansour¹, Kimberly Byrnes¹, Pornima Phatak¹, Douglas Turner², *Richard Battafarano³, James Donahue¹

¹*University of Maryland Baltimore, MD*; ²*Baltimore Veteran Affairs Medical Center, Baltimore, MD*; ³*John Hopkins Hospital, Baltimore, MD*

Invited Discussant: *Jessica S. Donington

L5. Mechanistic Insights into the Pathophysiology of Pulmonary Vein Stenosis

Rachel D. Vanderlaan¹, Yaquin Yana Fu², Jingyi Pan², Anouk Martine-Teichert Martine-Teichert², Jiaquan Zhu², Mauro Lo Rito², Jason Maynes², *John Coles², Jaques Belik², *Christopher A. Caldarone²

¹*University of Toronto, Toronto, ON, Canada*; ²*Hospital for Sick Children, Toronto, ON, Canada*

Invited Discussant: +Massimo Caputo

L6. Obtaining the Biomechanical Behavior of Ascending Aortic Aneurysm by using Novel Speckle Tracking Echocardiography

Mohammed S. Alreshidan, Kevin Lachapelle, Sr., Richard Leask, Sr.

McGill University, Montreal, QC, Canada

Invited Discussant: *Abe DeAnda Jr.

L7. Calpain Inhibition Modulates GSK-3 β Pathways in A Swine Model of Chronic Myocardial Ischemia in the Setting of Metabolic Syndrome: A Proteomic and Mechanistic Analysis

Brittany A. Potz, Ashraf A. Sabe, Nassrene Y. Elmadhun, Jun Feng, Richard A. Clements, Ruhul M. Abid, *Frank W. Sellke

Brown University, Providence, RI

Invited Discussant: *Gorav Ailawadi

L8. Aortic Valve Repair using Autologous Pericardium: To Fix or Not to Fix?

Janet Mee Chin Ngu, Hadi Daood Toeg, Reza Jafar, Benjamin Sohmer, Vincent Chan, Michel Labrosse, *Munir Boodhwani

University of Ottawa Heart Institute, Ottawa, ON, Canada

Invited Discussant: *Frederick Y. Chen

6:40 p.m. Adjourn

**5:00 p.m. – 6:30 p.m. Innovations in Transcatheter Therapies:
What You Need To Know For Today and the Future
Course Chair: *Vinod H. Thourani, Emory University**

Room 327, BCC

TUESDAY MORNING, MAY 17, 2016

7:00 a.m. Cardiac Surgery Forum

Room 340, BCC

5 minute presentation, 5 minute discussion

*Moderators: *Jennifer S. Lawton and *Craig H. Selzman*

F1. Oxygenation of the Cerebrospinal Fluid with Nanobubbles Can Ameliorate a Spinal Cord Ischemic Injury in a Rabbit Model

Keisuke Kanda, Osamu Adachi, Satoshi Kawatsu, Ko Sakatsume, Kiichiro Kumagai, Shunsuke Kawamoto, Yoshikatsu Saiki
Tohoku University, Sendai, Japan

Invited Discussant: *T. Brett Reece

F2. Lower Body Perfusion for Spinal Protection in a Frozen Elephant Trunk Simulation Model

Peter Lukas Haldenwang¹, Lorine Häuser¹, Daniel Zieburg¹, Nora Prochnow¹, Andeas Baumann¹, Markus Schlömmicher¹,
Hildegard Christ², Justus Thomas Strauch¹

¹*BG University Hospital Bergmannsheil Bochum, Bochum, Germany*; ²*University of Cologne, Cologne, Germany*

Invited Discussant: +Ourania Preventza

F3. MRI Assessment of Cardiac Function in a Swine Model of Hibernating Myocardium Three Months Following Bypass Surgery

Laura Hocom Stone¹, Cory Swingen¹, Christopher T. Holley¹, Christin A. Wright¹, Melanie Crampton¹, *Herbert B. Ward¹,
Edward O. McFalls², *Rosemary F. Kelly¹

¹*University of Minnesota, Minneapolis, MN*; ²*Minneapolis VA Medical Center, Minneapolis, MN*

Invited Discussant: +Pavan Atluri

F4. Myocardial Rescue with Autologous Mitochondrial Transplantation in a Porcine Model of Ischemia/Reperfusion

Aditya K. Kaza¹, Isaac Wamala¹, Ingeborg Friehs¹, Joseph Kuebler¹, Rahul H. Rathod¹, Ignacio Berra¹, *Sidney Levitsky², *Pedro J. del Nido¹, Douglas B. Cowan¹, James D. McCully¹

¹*Boston Children's Hospital, Boston, MA*; ²*Beth Israel Deaconess Medical Center, Boston, MA*

Invited Discussant: *Juan A. Crestanello

F5. Layered Smooth Muscle Cell-Endothelial Progenitor Cell Sheets Augment Post-Infarction Ventricular Function; Implications for Translating Multi-Lineage Cellular Tissue Engineering

Yasuhiro Shudo¹, Andrew B. Goldstone¹, Jeffrey E. Cohen¹, Masashi Kawamura¹, Jay Patel¹, Michael S. Hopkins¹, Bryan B. Edwards¹, Shigeru Miyagawa², Yoshiki Sawa², *Joseph Woo¹

¹*Stanford University, Stanford, CA*; ²*Osaka University Graduate School of Medicine, Osaka, Japan*

Invited Discussant: *Joseph T. McGinn

F6. Evaluating a Bioprosthetic Anterior Mitral Valve Leaflet Made from Autologous Jugular Vein and Expanded Polytetrafluoroethylene (ePTFE) Chordae in a Sheep Model

Jacques Janson¹, Andre Coetzee¹, Gawie Rossouw¹, Izak Loftus², Riaan Murray¹, Pieter Rossouw¹, Philip Herbst¹

¹*Stellenbosch University, Tygerberg, South Africa*; ²*Pathcare, Somerset West, South Africa*

Invited Discussant: *Clifford W. Barlow

F7. Topographical Mapping of Left Ventricular Regional Contractile Injury in Ischemic Mitral Regurgitation

Timothy S. Lancaster, Julia Kar, Brian P. Cupps, Matthew C. Henn, Kevin Kulshrestha, Danielle J. Koerner, *Michael K. Pasque
Washington University, St. Louis, MO

Invited Discussant: Tomasz A. Timek

F8. Epicardial Erythropoietin Hydrogel Improves Post-ischemic Cardiac Performance and Accelerates Proliferation and Tissue Transformation in the Intramyocardial Mesenchyme

Christian Klopsch¹, Heiko Lemke¹, Marion Ludwig¹, Anna Skorska¹, Ralf Gaebel¹, Robert Jaster¹, Stefan Jockenhoevel², Robert David¹, Gustav Steinhoff¹

¹Rostock University Medical Center, Rostock, Germany; ²RWTH Aachen University, Aachen, Germany

Invited Discussant: *Sunjay Kaushal

F9. Hypoxia Modulates Cell Migration and Proliferation by Activating Akt and ERK through the SDF-1 α /CXCR4 Axis in Placenta-Derived Mesenchymal Stem Cells for Cardiac Repair

Li Li, Prashant Kumar Jaiswal, Rishi Jurakhan, Kaviyanka Selvasandran, Khalid Ridwan, Georges Makhoul, Minh Ngoc Duong, Renzo Cecere

McGill University, Montreal, QC, Canada

Invited Discussant: *Todd K. Rosengart

F10. Endothelial Primary Cilia Regulate Cardiac Fibrosis by Guiding Mesenchymal Fate Decisions

Krishna K. Singh, Yi Pan, Adrian Quan, Jonathan W. Yau, Jean-François Desjardins, Thomas G. Parker, Mohammed Al-Omran, *Subodh Verma

St. Michael's Hospital, Toronto, ON, Canada

Invited Discussant: *Pirooz Eghtesady

8:40 p.m. Adjourn

TUESDAY MORNING, MAY 17, 2016

7:00 a.m. General Thoracic Surgery Forum

Room 343, BCC

5 minute presentation, 5 minute discussion

Moderators: *Benjamin D. Kozower and *Dao M. Nguyen

F11. Immunogenic Effect of Local Radiation Therapy in a Mouse Model of Mesothelioma

Luis De la Maza-Borja, Matthew Wu, Licun Wu, *Marc De Perrot

University of Toronto, Toronto, ON, Canada

Invited Discussant: *Prasad S. Andusumilli

F12. A Prospective Study Comparing Targeted DNA Sequencing of Tumor Tissue with Noninvasive Liquid Biopsy of Circulating Tumor DNA in Surgical Non-small Cell Lung Cancer Patients

Kezhong Chen¹, Fan Yang¹, Jingbo Zhang², Tian Guan¹, Feng Lou², Jun Wang¹

¹Peking University People's Hospital, Bei Jing, China; ²San Valley Biotechnology Incorporated, Beijing, China

Invited Discussant: *David S. Schrupp

F13. Highly Effective Heparanase-Based Therapy for Mesothelioma

Moshe Lapidot¹, Uri Barash², Yaniv Zohar³, Neta Ilan², Israel Vlodavsky²

¹Brigham and Women's Hospital, Boston, MA; ²Cancer and Vascular Biology Research Center, Technion, Haifa, Israel; ³Rambam Health Care Center, Haifa, Israel

Invited Discussant: *Jay M. Lee

F14. In Silico Immune Response is the Most Predictive Factor of Overall Survival in Surgically Resected Pleural Mesothelioma

Hyun-Sung Lee¹, Rohan Shah¹, David Yoon¹, Shawn Groth¹, *Raphael Bueno², *David Sugarbaker¹, Bryan Burt¹

¹Baylor College of Medicine, Houston, TX; ²Brigham and Women's Hospital, Boston, MA

Invited Discussant: +Varun Puri

F15. Novel Bio-engineered Tracheal Patch Demonstrates Potential for Remodeling in a Growing Ovine Model

Farhan Zafar, Richard Scott Baker, Namheon Lee, Shiva Kumar Shanmukhappa, Michael D. Taylor, *David L Morales

Cincinnati Childrens Hospital, Cincinnati, OH

Invited Discussant: *Shanda H. Blackmon

F16. Role of Interleukin-17A in Early Graft Rejection after Orthotopic Lung Transplantation in Mice

Qi-rui Chen, Hui Li, Yao-zhong Ding

Beijing Chaoyang Hospital, Capital Medical University, Beijing

Invited Discussant:

F17. Cigarette Smoke Enhances Growth and Metastatic Potential of Lung Cancer Cells in-Vivo

Elvin Hekimoglu, Eden Payabyab, Mary Zhang, Julie A. Hong, Emily S. Reardon, Paul L. Feingold, R. Taylor Ripley, Choung D.

Hoang, Sichuan Xi, *David S. Schrupp

National Cancer Institute, Bethesda, MD

Invited Discussant: +Sunil Singhal

F18. Optimization of Image Capture Properties for Intraoperative Molecular Imaging of Lung Adenocarcinoma

Jarrod D. Predina, Olugbenga Okusanya, Jane Keating, +Sunil Singhal

University of Pennsylvania, Philadelphia, PA

Invited Discussant: *Andrew C. Chang

F19. Progression of EGFR Mutant Lung Adenocarcinoma is Driven by Alveolar Macrophages

Bryan M. Burt¹, Don-Hong Wang², Hyun-Sung Lee¹, David Yoon¹, Gerald Berry², Thomas M. Wheeler¹, Farrah Kheradmand¹,

*David J. Sugarbaker¹, Edgar Engleman²

¹Baylor College of Medicine, Houston, TX; ²Stanford University School of Medicine, Stanford, CA

Invited Discussant:

F20. Inherited Immunologic Factors Affecting Lung Cancer Susceptibility

Saeed Arefanian, Ryuji Higashikubo, *Daniel Kreisel, Andrew E Gelman, *Alexander Sasha Krupnick

Washington University, St. Louis, MO

Invited Discussant:

8:40 p.m. ADJOURN

TUESDAY MORNING, MAY 17, 2016

7:00 a.m. Adult Cardiac Emerging Technologies and Techniques Forum Ballroom III, BCC
5 minute presentation, 5 minute discussion
Moderators: *Gorav Ailawadi and *Himanshu J. Patel

T1. Multi-center Assessment of Grafts in Coronaries: Long Term Evaluation of the C-Port Anastomotic Device (The MAGIC Study)

Husam H. Balkhy¹, Mahesh Ramshandani², Nirav Patel³, *Valavunar Subramanian³, Nicholas Augelli⁴, Gareth Tobler⁵, Tung Cai⁶
¹University of Chicago Medicine, Chicago, IL; ²Methodist Hospital, Houston, TX; ³Lenox Hill Hospital, New York, NY; ⁴Regional Medical Center, Appleton, WI; ⁵University of Arkansas for Medical Sciences, Little Rock, AR; ⁶The Heart Hospital Baylor Plano, Plano, TX

T2. Hybrid Repair of Extensive Aortic Arch Disease with Supra-aortic Debranching and Endovascular Stent Graft Repair: Early and Long-term Outcomes

Qian Chang, Yan Li, Xiangyang Qian, Xiaogang Sun, Cuntao Yu, Haitao Zhang
National Heart Center and Fuwai Hospital, Beijing, China

TEVAR 2016

*Wilson Y. Szeto, University of Pennsylvania, Philadelphia, PA

T3. Early Clinical Outcomes of a Novel Self-expanding Transapical Transcatheter Aortic Valve Bioprosthesis in Patients at Higher Risk for Coronary Obstruction: First North American Experience

Michael W. A. Chu, Katie L. Losenno, Pantelis Diamantouros, Rodrigo Bagur, Patrick Teefy, Jill J. Gelinis, *Bob Kiaii
University of Western Ontario, London, ON, Canada

T4. Radiation Exposure during Transcatheter Aortic Valve Replacement: What Cardiac Surgeons Need to Know

Alex Aquino, Alan Zajarias, Spencer Melby, Nishath Quader, Brian Lindman, John Lasala, *Hersh Maniar
Washington University, St. Louis, MO

So You Want to Start a TMVR or TAVR Program: Necessary Tools and Approaches for Clinical and Fiscal Success

*Vinod H. Thourani, Emory University, Atlanta, GA

T5. Feasibility of Transcatheter Mitral Valve Replacement Using a Beating Heart Transapical Delivery System in Human Beings

Robert S. Farivar, Wesley Pedersen, Paul Sorajja, Richard Bae, *Benjamin Sun
Abbott Northwestern Hospital, Minneapolis, MN

T6. Up to One Year Follow Up Results of Transfemoral System for Mitral valve Reconstruction Multicentre Trial

Paolo Denti¹, Alec Vahanian², Francesco Maisano³, Karl-Heinz Kuck⁴, *Ottavio Alfieri¹, Antonio Colombo¹, Stephan Baldus⁵, Georg Nickenig⁶
¹San Raffaele University Hospital, Milan, Italy; ²Bichat Hospital, Paris, France; ³University Hospital Zurich, Switzerland, Zurich, Switzerland; ⁴St. George Hospital Hamburg, Germany, Hamburg, Germany; ⁵University Hospital Köln, Germany, Köln, Germany; ⁶University Hospital Bonn, Germany, Bonn, Germany

8:40 p.m. Adjourn

TUESDAY MORNING, MAY 17, 2016

7:00 a.m. General Thoracic Emerging Technologies and Techniques Forum Ballroom IV, BCC

5 minute presentation, 5 minute discussion

Moderators: *Steven R. DeMeester and *Henning A. Gaissert

T7. Preliminary Experience with Per-oral Endoscopic Myotomy (POEMS) by a Thoracic Surgical Service

Lara W. Schaheen¹, David D. Odell², Ernest G. Chan¹, +Jonathan D'Cunha¹, Ryan Levy¹, Omar Awais¹, Katie Nason¹, Inderpal Sarkaria¹, *James D Luketich¹

¹University of Pittsburgh, Pittsburgh, PA; ²Northwestern University, Chicago, IL

Complex Airway Reconstruction In the Era of Biologics Stem Cells and 3D Printers

*Henning A. Gaissert, Massachusetts General Hospital, Boston, MA

T8. A Novel System for Identifying Pulmonary Air Leaks with an Inhaled Marker

*Joseph Friedberg

University of Maryland, Baltimore, MD

T9. Management of Complex Airway Defects with Bioprosthetic Materials

Brooks Van Udelsman¹, Jessica Eaton², Ashok Muniappan¹, Christopher R. Morse¹, *Cameron Dorrans Wright¹, *Douglas James Mathisen¹

¹Massachusetts General Hospital, Boston, MA; ²University of Louisville, Louisville, KY

T10. Using 3D BioPrinting As A Tool For Tracheal Segment Tissue Engineering

Todd A. Goldstein, Daniel Grande, Benjamin Smith, Lee P. Smith, David Zeltsman

North Shore - LIJ Health System, Manhasset, NY

Image Guidance in Thoracic Surgery: Ready for Prime Time?

Daniela Molena, Memorial Sloan Kettering Cancer Center, New York, NY

T11. The Use of Electromagnetic Navigational Bronchoscopic Guidance for Intraoperative Localization of Nonpalpable Small Lung Nodules

+Abbas E. Abbas, Sagar Kadakia, Vishu Ambur *Larry R. Kaiser

Temple University, Philadelphia, PA

T12. Thoracoscopic Anatomic Lung Sub-segmentectomy using Three-dimensional Computed Tomography Simulation without Tumor Markings for Non-palpable, Small-Size Lung Nodules

Hirohisa Kato, Hiroyuki Oizumi, Makoto Endoh, Jun Suzuki, Hikaru Watarai, Akira Hamada, Katsuyuki Suzuki, Mitsuaki Sadahiro, Yamagata University, Yamagata-shi, Japan

T13. A Novel Minimally Invasive Near-infrared Thoracoscopic Localization Technique of Small Pulmonary Nodules: A Phase I Feasibility Trial

Hideki Ujiie, Tatsuya Kato, Hsin-pei Hu, Priya Patel, Hironobu Wada, Daiyoon Lee, Kosuke Fujino, Robert Weersink, Elsie Nguyen, +Marcelo Cypel, Andrew Pierre, *Marc de Perrot, *Gail Darling, *Thomas K. Waddell, *Shaf Keshavjee, *Kazuhiro Yasufuku

University of Toronto, Toronto, ON, Canada

Late-Breaking Clinical Trial (10 minutes)

Invited Discussant:

8:40 p.m. Adjourn

TUESDAY MORNING, may 17, 2016

VIDEO SESSION

7:00 a.m.

Video Session

Room 337, BCC

10 minute presentation

*Moderators: *Mark S. Bleiweis, *Subroto Paul and *Vivek Rao*

V1. Posterior Airway Stabilization Using Polypropylene Mesh for Tracheobronchomalacia

Tovy Haber Kamine, Jennifer L. Wilson, *Sidhu P. Gangadharan

Beth Israel Deaconess Medical Center, Boston, MA

V2. Robotic-Assisted Resection of Superior Sulcus Ganglioneuroma

Khalid Alshehri, Adil Ayub, Ahmad Altaweel, Chyun-Yin Huang, Norberto Santana-Rodriguez, Sadiq Rehmani, Adnan M Al-Ayoubi, Wissam Raad, Faiz Bhora

Mount Sinai Health System, New York, NY

V3. Trans-Cervical Mediastinal Cyst Resection With A Video Mediastinoscope

Eric Goudie, +Moishe Liberman

University of Montreal, Montreal, QC, Canada

V4. Robotic Morgagni Hernia Repair

*Jennifer L. Philip, *Ryan Macke

University of Wisconsin, Madison, WI

V5. Right Ventricular Free Wall Teratoma Requiring Surgical Intervention Secondary to Refractory Ventricular Tachycardia

*Awais Ashfaq, Tabitha Moe, Justin Ryan, *Paul Dickman, *Steve Taylor⁵, Daniel Velez, *Robert Puntel, *Andrew Papez, *John Nigro

Mayo Clinic, Phoenix, AZ

V6. Simplifying the Repair of Barlow's Disease: A Solution to Excess Leaflet Tissue without Resection

*Sabet W. Hashim, *Rajesh B. Sekar, *Peter W. Hashim, Roland Assi, Irena Vaitkeviciute

Yale University, New Haven, CT

V7. Total Endovascular Repair of Aortic Arch Using Inner Branched Arch Endograft

Muhammad Aftab, *Eric Roselli, +Douglas Johnston, *Matthew Eagleton

Cleveland Clinic, Cleveland, OH

V8. Approaches to Reconstruction of Severe Primary Tricuspid Valve Defects

Domenico Mazzitelli¹, Yacine Elhmidi¹, *J. Scott Rankin², Jelena Kasnar-Samprec¹, Julie Cleuziou¹, *Ruediger Lange¹

¹German Heart Center, Munich, Germany; ²Cardiothoracic Surgery Associates, Nashville, TN

V9. Modified Nikaidoh Procedure with Double-Root-Translocation

Yiqun Ding

Shenzhen Children's Hospital, Shenzhen, China

V10. One-stage Definitive Repair for Patient with Complete Atrioventricular Septal Defect and Pulmonary Atresia with Major Aortopulmonary Collateral Arteries

Yujiro Ide, Masaya Murata, Kisaburo Sakamoto

Mt. Fuji Shizuoka Children's Hospital, Shizuoka City, Japan

8:40 p.m.

Adjourn

TUESDAY MORNING, MAY 17, 2016

7:00 a.m.

VAD/ECMO Session

Room 327, BCC

5 minute presentation, 7 minute discussion

36. The Hospital Volume-Outcome Relationship for Left Ventricular Assist Device Implantation in Medicare Patients in the United States

+Nimesh D. Desai, Danielle Savino, Fenton H. McCarthy, Peter W. Groeneveld, Katherine McDermott, Danielle Spragan, Pavan Alturi, Dale Kobrin, Christian A. Bermudez, Eduardo Rame, *Michael A. Acker
University of Pennsylvania, Philadelphia, PA

Invited Discussant: *Nicholas G. Smedira

37. Novel Perspectives on Postcardiotomy Shock; New Insight to Improve Outcomes

Hiroo Takayama, Shinichi Fukuhara, Koji Takeda, Jiho Han, Scott DeRoo, Boyangi Li, Sowmyashree Sreekanth, Veli Topkara, Arthur Garan, Paolo Colombo, Melana Yuzefpolskaya, *Paul Kurlansky, *Yoshifumi Naka
Columbia University, New York, NY

Invited Discussant: +Edward G. Soltesz

38. Central Cannulation as a Viable Alternative to Peripheral Cannulation in Extracorporeal Membrane Oxygenation

David Ranney, Ehsan Benrashid, James Meza, Jeffrey Keenan, Mani Daneshmand
Duke University, Durham, NC

Invited Discussant: *Michael S. Firstenberg

39. Bridge to Durable Left Ventricular Assist Device using Various Short-term Mechanical Circulatory Support Devices for Patients with an INTERMACS I Profile

Koji Takeda, Hiroo Takayama, A. Reshad Garan, Veli K. Topkara, Jiho Han, Paul Kurlansky, Melana Yuzefpolskaya, Paulo C Colombo, *Yoshifumi Naka
Columbia University, New York, NY

Invited Discussant: *Ashish S. Shah

Mechanical Circulatory Support in High Risk Cardiac Surgery – Back-up, Adjunct, Bailout and Alternative

*Lyle D. Joyce, *Mayo Clinic*

40. Emergency Implantation of Durable Left Ventricular Assist Devices as Primary Therapy for Refractory Cardiogenic Shock

Amit Pawale, Yosef Schwartz, Sean Pinney, *David H. Adams, *Anelechi C Anyanwu
Mount Sinai Medical Center, New York, NY

Invited Discussant: Scott C. Silvestry

41. Left Ventricular Failure after Surgery to Correct Right Ventricular Pressure Overload in Pulmonary Hypertension Patients

Tom Verbelen, Alexander Van De Bruaene, Bjorn Cools, *Dirk Van Raemdonck, Marion Delcroix, Filip Rega, Bart Meyns
University Hospitals Leuven, Leuven, Belgium

Invited Discussant: *Michael M. Madani

42. Continuous Flow LVAD Minimally Invasive Implantation in INTERMACS Class Score I-II Patients: The Evolution of Surgical Technique in a Single Centre Experience

Alvise Guariento, Lorenzo Bagozzi, Jonida Bejko, Massimiliano Carrozzini, Marina Comisso, Giacomo Bortolussi, Michele Gallo, Vincenzo Tarzia, Tomaso Bottio, *Gino Gerosa
University of Padua, Padova, Italy

Invited Discussant: *Walter P. Dembitsky

8:40 a.m. Adjourn

TUESDAY, MAY 17, 2016

8:45 a.m. Plenary Scientific Session **Hall E, BCC**
8 minute presentation, 12 minute discussion
*Moderators: *Joseph S. Coselli and *Marc R. Moon*

43. External Stenting: A Reliable Technique to Relieve Airway Obstruction in Small Children

Makoto Ando¹, Yuuzou Nagase², Hisaya Hasegawa³, Yukihiro Takahashi¹

¹Sakakibara Heart Institute, Tokyo, Japan; ²Ginza Heart Clinic, Tokyo, Japan; ³Tokyo Women's Medical University Medical Center East, Tokyo, Japan

Invited Discussant:

44. 10-year Endpoint of RAPCO is Reached: Clinical and Angiographic Results of a Randomised Trial of Radial Artery Versus Right Internal Thoracic Artery or Saphenous Vein for the Second Graft

*Brian F. Buxton¹, Philip A. Hayward², George Matalanis², Simon C. Moten², Mark Horrigan², Alexander Rosalion³, Jai Raman⁴, David L. Hare¹

¹University of Melbourne, Melbourne Australia; ²Ausitn Hospital, Melbourne, Australia; ³Vincent's Hospital, Melbourne, Australia; ⁴Rush University Medical Center, Chicago, IL

Invited Discussant: *Stephen E. Fremes

45. Cost-Effectiveness of Invasive Mediastinal Staging in Non-Small Cell Lung Cancer

Kasia Czarnecka-Kujawa¹, Ursula Rochau², Uwe Siebert³, Eshetu Atenafu¹, *Gail Darling¹, *Thomas Kenneth Waddell¹, Andrew Pierre¹, *Marc De Perrot¹, +Marcelo Cypel¹, *Shaf Keshavjee¹, *Kazuhiro Yasufuku¹

¹University of Toronto, Toronto, ON, Canada; ²Institute of Public Health, Hall, Austria; ³UMIT - University for Health Sciences, Medical Informatics and Technology, Hall, Austria

Invited Discussant: *Douglas E. Wood

46. Impact of Protected Cardiothoracic Surgical Research Time during Residency on Careers in Academic Surgery

J. Trent Magruder¹, Joshua C. Grimm¹, Todd C. Crawford¹, *Ashish S Shah¹, *Timothy J. Gardner², *Bruce A Reitz¹, J. Alexander Haller¹, *Vincent C. Gott¹, *Duke E. Cameron¹, *William A. Baumgartner¹

¹Johns Hopkins, Baltimore, MD; ²Christiana Care Health Services, Newark, DE

Invited Discussant: Richard Lee

10:05 a.m. Coffee Break in The Exhibit Hall

10:30 a.m. Award Presentations **Hall E, BCC**

10:40 a.m. Plenary Scientific Session **Hall E, BCC**
8 minute presentation, 12 minute discussion
*Moderators: *Thoralf M. Sundt, III and *Marc R. Moon*

47. Mitral Valve Surgery in the US Veterans Administration Health System: 10-Year Outcomes and Trends

*Faisal G. Bakaeen¹, A. Laurie Shroyer², *Marco A Zenati³, *Vinay Badhwar⁴, *Vinod H Thourani⁵, *James S Gammie⁶, *Rakesh M. Suri⁷, *A. Marc Gillinov⁷, *Joseph F Sabik, III⁷, Danny Chu⁴, Laura A. Graham⁸, Mary T. Hawn⁹, *G. Hossein Almassi¹⁰, Lorraine D. Cornwell¹, *Frederick L. Grover¹¹, *Todd K. Rosengart¹, Shuab Omer¹

¹Baylor College of Medicine and Texas Heart Institute, Houston, TX; ²Northport VA Medical Center and Stony Brook School of Medicine, Stony Brook, NY; ³The West Roxbury VAMC and Harvard Medical School, Boston, MA; ⁴University of Pittsburgh, Pittsburgh, PA; ⁵Emory University, Atlanta, GA; ⁶University of Maryland, Baltimore, MD; ⁷Cleveland Clinic Foundation, Cleveland, OH; ⁸University of Alabama at Birmingham, Birmingham, AL; ⁹Stanford University, Stanford, CA; ¹⁰Medical College of Wisconsin and VA Medical Center, Milwaukee, WI; ¹¹University of Colorado Denver, Aurora, CO

Invited Discussant: *David H. Adams

48. Towards Making Lung Transplantation a Semi-Elective Procedure: Outcomes Following Clinical Lung Transplantation with Over Twelve Hours of Preservation Time

Jonathan C. Yeung, *Kazuhiro Yasufuku, *Marc de Perrot, Andrew F. Pierre, *Thomas K. Waddell, *Shaf Keshavjee, +Marcelo Cypel
University of Toronto, Toronto, ON, Canada

Invited Discussant: *Bartley P. Griffith

49. Providing Cardiothoracic Services in 2035: Signs of Trouble Ahead

*Susan Moffatt-Bruce, *Juan Crestanello, David Way, *Thomas Williams
The Ohio State University, Columbus, OH

Invited Discussant: *John S. Ikonomidis

11:40 a.m.	Honored Guest Lecture Brian Kelly, Notre Dame Corbett Family Head Football Coach	Hall E, BCC
12:30 p.m.	Adjourn For Lunch in the Exhibit Hall	
12:45 p.m.	Moderated Poster Competitions 5 minute presentation	Exhibit Hall, BCC Not for Credit

Adult Cardiac Moderated Poster Competition

Moderator: *Richard Lee

P1. The IMPACT-CABG trial: A Multicenter Randomized Clinical Trial of CD133+ Stem Cell Therapy During CABG for Ischemic Cardiomyopathy

*Terrence M. Yau¹, Samer Mansour², *Richard Weisel¹, Louis-Mathieu Stevens², Katherine Tsang¹, Eric Larose², Shu-Hong Li¹, Neil Spiller¹, Minh Quan Vu², Andrew Crean¹, Denis-Claude Roy², Ignacio Prieto², Ren-Ke Li¹, Nicolas Noiseux²
¹Toronto General Hospital, Toronto, ON, Canada; ²Hospital Hotel-Dieu, Montreal, QC, Canada

P2. Sternal Closure Using Rigid Plate Fixation Versus Conventional Wire Cerclage: Results From A Prospective, Randomized Multi-Center Study

*Keith B. Allen¹, *Vinod H. Thourani², *Yoshifumi Naka³, Kendra J. Grubb⁴, John Grehan⁵, Nirav Patel⁶, *T. Sloane Guy⁷, *Kevin Landolfo⁸, Marc Gerdisch⁹, Mark Bonnell¹⁰, *David J. Cohen¹
¹St. Luke's Mid America Heart Institute, Kansas City, MO; ²Emory University, Atlanta, GA; ³Columbia University Medical Center, New York, NY; ⁴University of Louisville, Louisville, KY; ⁵United Heart and Vascular Clinic, AllinaHealth, Saint Paul, MN; ⁶Lenox Hill Hospital, New York, NY; ⁷Temple University, Philadelphia, PA; ⁸Mayo Clinic, Jacksonville, FL; ⁹Franciscan St. Francis Health, Indianapolis, IN; ¹⁰University of Toledo, Toledo, OH

P3. Trends in Multi-Arterial CABG Surgery 2004-2014: A Tale of Two Continents

*Thomas A. Schwann¹, *James Tatoulis², *John D. Puskas³, *David Taggart⁴, *Paul Kurlansky⁵, *Jeffrey Jacobs⁶, *Vinod H. Thourani⁷, Sean O'Brien⁸, Amelia Wallace⁸, Milo Engoren⁹, Robert F. Tranbaugh¹⁰, Mark R. Bonnell¹, Robert H. Habib¹¹
¹University of Toledo, Toledo, OH; ²Royal Melbourne Hospital, Parkville, Australia; ³Mount Sinai Beth Israel, New York, NY; ⁴University of Oxford, Oxford, United Kingdom; ⁵Columbia University, New York, NY; ⁶Johns Hopkins University, Baltimore, MD; ⁷Emory University, Atlanta, GA; ⁸Duke University, Durham, NC; ⁹University of Michigan, Ann Arbor, MI; ¹⁰Cornell University, New York, NY; ¹¹American University of Beirut, Beirut, Lebanon

P4. The Risk of Reoperative Cardiac Surgery in Radiation Induced Valvular Disease

Julius I. Eijofor, Anju Nohria, Yamine Maroun, Siobhan McGurk, Anthony V. Norman, *Sary F. Aranki, Prem Shekar, *Lawrence H Cohn, Tsuyoshi Kaneko
Brigham and Women's Hospital, Boston, MA

P5. Prosthesis Selection in Patients Undergoing Mitral Valve Repair for Type II Dysfunction

Naonori Kawamoto, Tomoyuki Fujita, Hiroki Hata, Yusuke Shimahara, Yuta Kume, *Junjiro Kobayashi
National Cerebral and Cardiovascular Center, Suita, Japan

P6. Long-term Outcomes of Surgery for Infective Endocarditis: A single-center Experience of 801 Patients

Sameh M. Said, Zaid M. Abdelsattar, *Hartzell V. Schaff, +Kevin L. Greason, *Richard C. Daly, *Alberto Pochettino, *Lyle D. Joyce, *Joseph A. Dearani
Mayo Clinic, Rochester, MN

P7. Mid-term Results of Mitral Valve Repair using Flexible Bands vs Complete Rings in Patients with Degenerative Mitral Valve Disease: A Prospective Randomized Study

Alexander V. Afanasyev, Alexander V. Bogachev-Prokophiev, Sergei I. Zheleznev, Vladimir M. Nazarov, Ravil M. Sharifullin, Alexander M. Karas'kov
Novosibirsk State Research Institute of Circulation Pathology, Novosibirsk, Russian Federation

P8. A Predictive Model for Early Outcome of Surgical Treatment of Heart Valve Infective Endocarditis: The Italian EndoSCORE

Michele Di Mauro, Guglielmo M Actis Dato, Pasquale Santè, Fabio Barili, Sandro Gelsomino, Alessandro Della Corte, Antonio Carrozza, Ester Della Ratta, Carlo Fino, Diego Cugola, Roger Devotini, Riccardo Casabona, *Francesco Santini, Roberto Scrofani, Carlo De Vincentiis, Andrea Biondi, Cesare Beghi, Alberto Pozzoli, Francesco Nicolini, *Davide Pacini, Giacomo Ravenni, Roberto Lorusso, Gabriele Di Giammarco, Daniele Marinelli, Emmanuel Villa, Giovanni Troise, Domenico Paparella, Vito Margari, Francesco Tritto, Giuseppe Scarscia, Salvatore Zaccaria, Attilio Renzulli, Giuseppe Serraino, Giovanni Mariscalco, *Alessandro Parolari, Giannantonio Nappi
Italian Group of Research for Outcome in Cardiac Surgery (GIROC), Rome, Italy

P9. A Single Center's Experience with Pacemaker Implantation after the Cox Maze Procedure for Atrial Fibrillation

*Niv Ad, Sari Diana Holmes, Deborah J. Shuman, Deborah Lamont
Inova Heart and Vascular Institute, Falls Church, VA

P10. Permanent Pacemaker After Surgical and Catheter Atrial Fibrillation Ablation: Incidence, Indications and Outcomes

Stephane Leung¹, Wai Sang¹, *Patrick M. McCarthy¹, Jane Kruse², Adin-Cristian Andrei², Adam Iddriss¹, *Richard Lee³, *S. Chris Malaisrie¹, Rachel Kaplan¹, Rod S. Passman¹
¹Northwestern University, Chicago, IL; ²Bluhm Cardiovascular Institute, Northwestern Medicine, Chicago, IL; ³St. Louis University School of Medicine, St. Louis, MO

P11. Cardiometabolic Syndrome in TAVR and SAVR

Lillian L. Tsai, Hanna A. Jensen, Jose . Condado, Yi Lasanajak, Omar M. Lattouf, Vasilis Babaliaros, Eric Sarin, Chandan Devireddy, Bradley Leshnower, James Stewart, *Edward Chen, Kreton Mavromatis, *Michael Halkos, Peter C. Block,

*Robert A. Guyton, Patricia Keegan, Amy Simone, Jessica Forcillo, *Vinod H. Thourani
Emory University, Atlanta, GA

P12. Predicting Long-Term Outcomes after Complex Mitral Valve Repair: A Single Center 15-Year Experience

James M. Tatum, Michael E. Bowdish, Wendy J. Mack, Adrienne Quinn, Dawn Hui, Mark L Barr, Fernando Fleischman, Amy Hackmann, *Craig Baker, *Robbin G. Cohen, Mark J. Cunningham, *Vaughn A. Starnes
University of Southern California, Los Angeles, CA

Congenital Heart Disease Moderated Poster Competition

*Moderator: *Carl L. Backer*

P14. Outcomes of Multistage Palliation of Patients With Single Ventricle and Atrioventricular Septal Defect

*Bahaaldin AlSoufi, Courtney McCracken, Subhadra Shashidharan, *Kirk Kanter, *Brian Kogon
Emory University, Atlanta, GA

P15. Cognitive, Neuropsychological and Social Status Is Impaired Two Decades After Neonatal Arterial Switch Operation

David Kalfa¹, Leila Kasmi², Michele Montreuil², Nikoletta Geronikola², Virginie Lambert³, Eleonora Murzi², *Emre Belli⁴, Damien Bonnet⁵

¹Columbia University, New York, NY; ²Université Paris, Saint Denis, France; ³Université Paris Sud, Le Plessis Robinson, France; ⁴Institut Jacques Cartier, Massy, France; ⁵Université Paris Descartes, Sorbonne Paris Cité, Paris, France

P16. Univentricular Pathway for Severe Neonatal Ebstein Anomaly and Tricuspid Dysplasia is Superior to Total Biventricular Approach at Late Follow-up

Jack Luxford¹, Nitin Arora², Julian Ayer², Charlotte Verrall², *Yves D'Udekem³, Gary Sholler², David Winlaw²

¹University of Sydney, Sydney, Australia; ²Children's Hospital at Westmead, Sydney, Australia; ³The Royal Children's Hospital, Parkville, Australia

P17. Detrimental Effects of High Flow Mechanical Assistance of Systemic Ventricle in a Fontan Circulation- Insights from a Unique Ex-Vivo Model

Pranava Sinha¹, Nina Deutsch¹, Dingchao He¹, Mark Nuszowski¹, Erin Montague¹, Gerald Mikesell¹, Karthik Ramakrishnan¹, Edem Ziadinov¹, David Zurakowski², *Richard Jonas¹

¹Children's National Medical Center, Washington, DC; ²Harvard Catalyst, Boston, MA

P18. Long-term Results of Anatomical Correction for Congenitally Corrected Transposition of the Great Arteries: A 19-year Experience

Christian P. Brizard, Alice Lee, Tyson A. Fricke, *Yves d'Udekem, *Igor E. Konstantinov, Johann Brink, Michael M.H. Cheung

Royal Children's Hospital, Parkville, Australia

P19. Re-intervention Type and Rates Following Neonatal Tetralogy of Fallot (TOF) Repair Vary by Operative Intervention on the Right Ventricular Outflow Tract (RVOT)

Shyamasundar Balasubramanya, Michele J. Borisuk, Aditya K. Kaza, *Frank Pigula, Hua Liu, Sitaram Emani, *Pedro J. del Nido, Christopher W. Baird

Boston Children's Hospital, Boston, MA

P20. Twenty-Five Year Outcomes of the Lateral Tunnel Fontan Procedure

Thomas G. Wilson¹, William Y. Shi¹, Ajay J. Iyengar¹, David S. Winlaw², Rachael L. Cordina³, Gavin R. Wheaton⁴, Andrew Bullock⁵, Thomas L. Gentles⁶, Robert G. Weintraub¹, Robert N. Justo⁷, Leeanne E. Grigg⁸, Dorothy J. Radford⁹, *Yves d'Udekem¹

¹Royal Children's Hospital, Parkville, Australia; ²The Children's Hospital at Westmead, Sydney, Australia; ³Royal Prince Alfred Hospital, Sydney, Australia; ⁴Women's and Children's Hospital, Adelaide, Australia; ⁵Princess Margaret Hospital for Children, Perth, Australia; ⁶Starship Children's Hospital, Auckland, New Zealand; ⁷Mater Children's Hospital, Brisbane, Australia; ⁸Royal Melbourne Hospital, Parkville, Australia; ⁹The Prince Charles Hospital, Brisbane, Australia

P21. Predictors of Successful Biventricular Repair after Hybrid Treatment for Borderline Hypoplastic Left Heart

Can Yerebakan¹, Uygur Yörüker¹, Klaus Valeske¹, Hatem Elmontaser¹, Josephine Murray¹, Anita Windhorst², Josef Thul¹, Matthias Müller¹, Dietmar Schranz¹, Hakan Akintürk¹

¹Pediatric Heart Center, Giessen, Germany; ²Justus-Liebig-University, Giessen, Germany

P22. Outcomes of Univentricular Repair in Children with Unbalanced Atrio-Ventricular Septal Defect

Edward Buratto, Xin Tao Ye, Robert G. Weintraub, *Yves d'Udekem, Christian P. Brizard, *Igor E. Konstantinov
The Royal Children's Hospital, Parkville, Australia

P23. Exercise Restriction is Not Associated with Increasing Body Mass Index Over Time in Patients with Coronary Arteries of Anomalous Aortic Origin

James M. Meza¹, Matthew Elias², Travis Wilder³, James E. O'Brien⁴, Richard W. Kim⁵, *Constantine Mavroudis⁶, *William G. Williams¹, Julie Brothers², Meryl Cohen², Brian W. McCrindle¹

¹The Hospital for Sick Children, Toronto, ON, Canada; ²The Children's Hospital of Philadelphia, Philadelphia, PA;

³University of California San Diego, La Jolla, CA; ⁴Children's Mercy Hospital, Kansas City, MO; ⁵Children's Hospital of Los Angeles, Los Angeles, CA; ⁶Florida Hospital for Children, Orlando, FL

P24. Oral Thyroxin Supplementation in Infants Undergoing Cardiac Surgery: A Double Blind Randomized Clinical Trial

Sachin Talwar, Amolkumar Bhoje, Rajesh Khadgawat, Vishnubhatla Sreenivas, Shiv Kumar Choudhary, Balram Airan
All India Institute of Medical Sciences, New Delhi, India

GENERAL THORACIC MODERATED POSTER COMPETITION

*Moderator: *Jay M. Lee*

P25. Risk Factors for Progression of Ground Glass Opacities in Patients with Resected Pulmonary Adenocarcinoma

Rebecca W. Gao, *Mark F. Berry, Amanda Khuong, Joel W. Neal, Leah M. Backhus, *Joseph B. Shrager
Stanford University, Stanford, CA

P26. Prognostic Impact of the Findings on Thin-Section Computed Tomography in Patients with Subcentimeter Non-Small Cell Lung Cancer

Aritoshi Hattori, Kenji Suzuki, Takeshi Matsunaga, *Kazuya Takamochi, Shiaki Oh
Juntendo University, Tokyo, Japan

P27. A Clinical Prediction Model for Prolonged Air Leak after Pulmonary Resection

Adam Attaar, Daniel G. Winger, *James D. Luketich, Inderpal S. Sarkaria, *Neil A. Christie, Katie S. Nason
University of Pittsburgh, Pittsburgh, PA

P28. Prediction of Lepidic Predominant Clinical-stage IA Lung Adenocarcinoma with Radiological Pure-Solid Appearance for Possible Indications of Sublobar Resection

Aritoshi Hattori, Kenji Suzuki, Takeshi Matsunaga, *Kazuya Takamochi, Shiaki Oh
Juntendo University, Tokyo, Japan

P29. Evaluation of Acute and Chronic Pain Outcomes After Robotic, VATS, or Open Lobectomy

Sebastian Thomas Kwon, Lili Zhao, Rishindra Reddy, William Lynch, *Andrew Chang, Philip Carrott, *Mark Orringer, Chad Brummett, +Jules Lin
University of Michigan, Ann Arbor, MI

P30. Analytic Morphomics Predict Outcomes After Lung Volume Reduction Surgery

+Jules Lin, William B. Weir, Tyler Grenda, Peng Zhang, John Donkersloot, Binu Enchakalody, Brian Derstine, Joshua Underhill, Steven H. Sun, Rishindra M. Reddy, *Andrew C. Chang, Stewart C. Wang
University of Michigan, Ann Arbor, MI

P31. Surgeon Error in Predicting Stage I Non-Small Cell Lung Cancer (NSCLC) is a Major Factor Precluding Randomization in CALGB 140503 (Alliance)

*Leslie Kohman¹, Lin Gu², *Nasser Altorki³, Linda Veit¹, Xiaofei Wang²
¹SUNY, Syracuse, NY; ²Duke University, Durham, NC; ³Cornell University, New York, NY

P32. Treatment of Stage I Non-Small Cell Lung Cancer: What's Trending?

Puja M. Shah¹, Timothy L. Mcmurry¹, Pamela Samson², Clifford G. Robinson², James M. Isbell¹, *Benjamin D. Kozower¹
¹University of Virginia, Charlottesville, VA; ²Washington University, St. Louis, MO

P33. CT-Guided Fine Needle Aspiration (CT-FNA) Biopsy Performed by Thoracic Surgeons: A Paradigm Shift in Image-Guided Thoracic Procedures

Seth L. Welborn, Katie S. Nason, *Arjun Pennathur, Omar Awais, *Neil A. Christie, *James D. Luketich, *Matthew J. Schuchert
University of Pittsburgh, Pittsburgh, PA

P34. Outcome of Various Transplant Procedures (Single, Sparing, Inverted) in Living-Donor Lobar Lung Transplantation

*Hiroshi Date, Akihiro Aoyama, Kyoko Hijiya, Hideki Motoyama, Tomohiro Handa, Hideyuki Kinoshita, Shiro Baba, Toshiyuki Mizota, Kenji Minakata, Toyofumi F. Chen-Yoshikawa
Kyoto University, Kyoto, Japan

P35. Intraoperative use of Taurolidine In Cystic Fibrosis Patients Undergoing Lung Transplantation and Impact on Bacterial Colonization: A Propensity Score Matched Analysis

Mohamed Zeriuoh¹, Nikhil P. Patil¹, Anton Sabashnikov², Prashant N. Mohite¹, Bartlomej Zych¹, Diana Garcia¹, Achim Koch¹, Simona Sores¹, Alexander Weymann³, Ashham Mansur⁴, Jens Wippermann², *Thorsten Wahlers², Fabio De Robertis¹, Andre R. Simon¹, Aron-Frederik Popov¹
¹Royal Brompton and Harefield Hospital, Middlesex, Harefield, London, United Kingdom; ²University Hospital of Cologne, Cologne, Germany; ³University of Heidelberg, Heidelberg, Germany; ⁴Georg August University, Goettingen, Germany

TUESDAY AFTERNOON, MAY 17, 2016

2:00 p.m. – 3:20 p.m. CT Surgical Trials Network: Implications for Clinical Practice
Faculty, description and program to come.

Hall E, BCC

3:20 p.m. – 3:55 p.m. Coffee Break in the Exhibit Hall

TUESDAY AFTERNOON, MAY 17, 2016

3:55 p.m. Adult Cardiac Surgery Simultaneous Scientific Session

Hall E, BCC

5 minute presentation, 7 minute discussion

Moderators: *Niv Ad and *Song Wan

50. The Role of Deliberate Practice in Achieving Technical Proficiency in Coronary Anastomosis Simulation: A Randomized Study of Surgical Novices

Dawn S. Hui, *Hendrick Barner, Mark Kohn, Erica R Holbrook, Christopher Odehnal, Aravindh Karunanandaa, *Richard Lee
St. Louis University, St. Louis, MO

Invited Discussant:

51. Longitudinal Outcomes After Surgical Repair of PostInfarction Ventricular Septal Defect

George J Arnaoutakis¹, Sunghee KIM², J. Matthew Brennan², Brian C Gulack², Jane M Han³, *Fred H Edwards⁴, *Jeffrey P Jacobs⁵, *John V Conte⁵

¹University of Pennsylvania, Philadelphia, PA; ²Duke University, Durham, NC; ³Society of Thoracic Surgeons, Chicago, IL;

⁴University of Florida, Jacksonville, FL; ⁵Johns Hopkins Hospital, Baltimore, MD

Invited Discussant: *Hossein Almassi

52. Long-term Outcome Comparison of Mechanical versus Pericardial Aortic Valve Replacement in 50-60 Year-old Patients: Is it Time to Reassess The Guidelines?

*Anthony P. Furnary¹, Mansen Wang², Gary L. Grunkemeier², *Albert Starr³

¹Providence St. Vincent Hospital, Portland, OR; ²Providence Health and Services, Portland, OR; ³Oregon Health and Science University, Portland, OR

Invited Discussant:

53. Infective Endocarditis in Dialysis Patients: Is it Worth Operating?

Sajjad Raza, Asif Ansari, Jeevanantham Rajeswaran, Amr Arafat, Matteo Trezzi, Syed T Hussain, Haris Riaz, Sunil Panwar, Sevag Demirjian, Thomas Fraser, *Joseph F. Sabik, *Eugene H. Blackstone, *Gosta B. Pettersson
Cleveland Clinic, Cleveland, OH

Invited Discussant:

54. Long-term Outcome of Total Arterial Myocardial Revascularization versus Conventional Coronary Artery By-pass in Diabetic and Non Diabetic Patients: A Propensity-match Analysis

*Claudio Muneretto, Lorenzo Di Bacco, Gianluigi Bisleri, Laura Giroletti, Alberto Repossini

University of Brescia, Brescia, Italy

Invited Discussant: *John D. Puskas

55. Trends in 30 Day Readmission after CABG in the Medicare Population: Longitudinal Analysis Over 13 Years

Kathleen Kwedar, Christian McNeely, Stephen Markwell, Christina Vassileva

Southern Illinois University, Springfield, IL

Invited Discussant: *Jennifer S. Lawton

56. The Cox-Maze IV Procedure for Atrial Fibrillation has Similar Efficacy for Rheumatic and Degenerative Mitral Valve Disease

Jonathan E. Labin, Nowrin Haque, Laurie A. Sinn, Richard B. Schuessler, *Marc R. Moon, *Hersh S. Maniar, Spencer J. Melby, *Ralph J. Damiano, Jr.

Washington University, St. Louis, MO

Invited Discussant: *Vinay Badhwar

Late-Breaking Clinical Trial

Invited Discussant:

5:35 p.m. Executive Session, AATS Members Only

Hall E, BCC

3:55 p.m. Aortic/Endovascular Surgery Simultaneous Scientific Session

Ballroom I, BCC

5 minute presentation, 7 minute discussion

*Moderators: *Anthony L. Estrera and *Steven L. Lansman*

57. Deep Circumferential Annuloplasty as a Repair Adjunct in Regurgitant Bicuspid Aortic Valves with a Dilated Annulus: The Need to Address the Septum

Omar Nawaytou¹, *Munir Boodhwani², +Laurent de Kerchove¹, *Gebrine El Khoury¹

¹*Cliniques Universitaires Saint-Luc, Brussels, Belgium;* ²*University of Ottawa Heart Institute, Ottawa, ON, Canada*

Invited Discussant:

58. Cardiovascular Operations for Loeys-Dietz Syndrome: Intermediate Results

Nishant D. Patel, Todd Crawford, Jonathan T. Magruder, Diane E. Alejo, Narutoshi Hibino, Harry C. Dietz, James Black,

*Luca A. Vricella, *Duke E. Cameron

Johns Hopkins Medical Institutions, Baltimore, MD

Invited Discussant: Michael P. Fischbein

59. Are Outcomes of Thoracoabdominal Aortic Aneurysm Repair Different in Men vs. Women?

Konstantinos Spiliotopoulos, +Ourania Preventza, Matt Price, Qianzi Zhang, *Joseph Coselli, *Scott LeMaire

Baylor College of Medicine, Houston, TX

Invited Discussant:

60. Natural History and Management of DeBakey Type II Aortic Dissection

Harleen K. Sandhu, Kristofer M. Charlton-Ouw, Robert D. Rice, Charles C. Miller, III, Rana O. Afifi, *Hazim J. Safi,

*Anthony L. Estrera

University of Texas Health Science Center, Houston, TX

Invited Discussant: *S. Chris Malaisrie

61. Isolated Aortic Valve Repair in Bicuspid and Tricuspid Valve Morphology

Diana Aicher, Lena Winter, Ulrich Schneider, Christopher Hofmann, Janine Scheibel, Hans-Joachim Schäfers

University Hospital Homburg/Saar, Homburg, Germany

Invited Discussant: *Himanshu J. Patel

62. Reoperative Aortic Root Replacement: Clinical Outcomes in a Contemporary Complex Series Following Previous Aortic and/or Cardiac Surgery

Jiro Esaki¹, Bradley G. Leshnower², Jose N. Binongo², Yi Lasanajak², LaRonica McPherson², *Michael E. Halkos², *Vinod H. Thourani², *Robert A. Guyton², *Edward P. Chen²

¹*Otsu Red Cross Hospital, Otsu, Japan;* ²*Emory University, Atlanta, GA*

Invited Discussant: *Anthony L. Estrera

63. Does the Status of the False Lumen Impact Long-Term Outcomes and the Fate of the Residual Dissected Aorta following Repair of DeBakey 1 Aortic Dissection?

Jolian Dahl¹, *Edward P. Chen¹, *Vinod H. Thourani¹, *Michael E. Halkos¹, W. Brent Keeling¹, Eric L. Sarin¹, Yi Lasanajak², Jose N. Binongo², *Robert A. Guyton¹, Bradley G. Leshnower¹

¹*Emory University, Atlanta, GA;* ²*Rollins School of Public Health, Atlanta, GA*

Invited Discussant: *Scott A. LeMaire

64. Computational Fluid Dynamics Simulation of the Right Subclavian Artery Cannulation

Satoshi Numata, Keiichi Itatani, Sachiko Yamazaki, Kiyoshi Doi, Keiichi Kanda, Hitoshi Yaku
Kyoto Prefectural University of Medicine, Kyoto, Japan

Invited Discussant: *Subodh Verma

5:35 p.m. **Executive Session, AATS Members Only**

Hall E, BCC

TUESDAY AFTERNOON, MAY 17, 2016

2:00 p.m. **Congenital Heart Disease Simultaneous Scientific Session**

Ballroom III, BCC

8 minute presentation, 12 minute discussion

*Moderators: *J. William Gaynor and *Pirooz Eghtesady*

Congenital Late Breaking Clinical Trial

65. Concept of an Expandable Cardiac Valve for Surgical Implantation in Infants and Children

Sitaram M. Emani, Breanna L. Piekarski, David Zurakowski, Christopher A. Baird, Gerald Marx, Wayne Tworetzky, Audrey C Marshall, James E. Lock, *Pedro J. del Nido
Boston Children's Hospital, Boston, MA

Invited Discussant: *Thomas L. Spray

66. 10-Year Outcomes after Implant of Decellularized Pulmonary Allografts for RVOT Reconstruction

*John W. Brown², John D. Oswalt², Jennifer Christel Romano³, *James S. Tweddell⁴, *Pirooz Eghtesday⁵, Kent E. Ward⁶, Michael Felix Teodori⁷, John Paul Kupferschmid⁸, Donna Johnson²

¹Indiana University, Indianapolis, IN; ²Cardiothoracic and Vascular Surgeons, P.A., Austin, TX; ³University of Michigan, Ann Arbor, MI; ⁴Cincinnati Children's Hospital, Cincinnati, OH; ⁵Washington University, St. Louis, MO; ⁶University of Oklahoma, Oklahoma City, OK; ⁷Phoenix Children's Hospital, Phoenix, AZ; ⁸Methodist Children's Hospital, San Antonio, TX

Invited Discussant: *Richard A. Hopkins

67. Small Sized Conduits in the Right Ventricular Outflow Tract in Young Children: Bicuspidalized Homografts Perform Better than Xenografts

Katrien François, Katya De Groote, Kristof Vandekerckhove, Joseph Panzer, Hans De Wilde, Daniel De Wolf, Julie De Backer, Laurent Demulier, Thierry Bové
University Hospital Gent, Gent, Belgium

Invited Discussant: *John W. Brown

3:20 p.m. - 4:00 p.m. **Coffee Break in the Exhibit Hall**

3:30 p.m. - 4:00 p.m. **Deep Dive Session**

Exhibit Hall

AATS Consensus Guideline: Anomalous Coronary

Not for Credit

Artery Origin from Wrong Sinus

**James S. Tweddell, Cincinnati Children's Hospital*

68. Pulmonary Root Translocation is an Effective Approach for Left Coronary Artery Arising Anomalously from the Aorta with an Intramuscular Course in the Right Ventricle

Timothy Martens, S. Ram Kumar, Subhadra Shashidharan, *Vaughn A Starnes
Children's Hospital Los Angeles, Los Angeles, CA

Invited Discussant: James Tweddell

69. Comparison of Thoracotomy versus Thoracoscopic Vascular Ring Division in Children and Young Adults

Melissa A. Herrin, David Zurakowski, Francis Fynn-Thompson, Christopher W. Baird, *Pedro J. del Nido¹, Sitaram M. Emani
Boston Children's Hospital, Harvard Medical School, Boston, MA

Invited Discussant: *Carl L. Backer

70. A Common Polymorphism in the Mannose-binding Lectin Gene MBL2 is Associated with Poor Neurodevelopmental Outcomes Following Infant Cardiac Surgery

Ryan Robert Davies, Julia S. Barthold, Erica Sood, Yanping Wang, Edward Woodford, *Christian Pizarro
Nemours/A.I. duPont Hospital for Children, Wilmington, DE

Invited Discussant: *Jorge D. Salazar

71. Interrupted Arch repair with Direct Anastomosis and Homograft Augmentation Patch: Outcome at 25 years with a Standardised Technique

Mohammed Mohsin Uzzaman¹, Ben Davies², John Stickley¹, Natasha Khan¹, Timothy Jones¹, William Brawn¹, David Barron¹

¹Birmingham Children's Hospital, Birmingham, United Kingdom; ²Great Ormond Street Hospital, London, United Kingdom

Invited Discussant:

5:35 p.m. Executive Session, AATS Members Only)

Hall E, BCC

TUESDAY AFTERNOON, MAY 17, 2016

2:00 p.m. General Thoracic Surgery Simultaneous Scientific Session

Ballroom IV, BCC

8 minute presentation, 12 minute discussion

*Moderators: *Gail Darling and *David R. Jones*

72. Thorascopic Sympathectomy for Medically Refractory Recurrent Ventricular Arrhythmias

*Justin Van Meeteren, Dennis Wigel, *Shanda Blackmon, *Stephen Cassivi, *K. Robert Shen, *Mark Allen
Mayo Clinic, Rochester, MN

Invited Discussant: *Mark J. Krasna

73. Prospective Trial of Giant Paraesophageal Hernia Repair with 1-Year Follow-Up

John R. Stringham¹, Jennifer V. Phillips¹, Timothy L. McMurry¹, Drew L. Lambert¹, *David R. Jones², James M. Isbell¹,
*Christine L. Lau¹, *Benjamin D. Kozower¹

¹University of Virginia, Charlottesville, VA; ²Memorial Sloan Kettering Cancer Center, New York, NY

Invited Discussant: *James D. Luketich

74. A Randomized Controlled Trial of Continuous Subpleural Bupivacaine after Thoracoscopic Surgery

Daniel L. Fortes, Charles D. Ghee, Sandeep J. Khandhar, Heather A. Prentice

Invited Discussant: +Daniel J. Boffa

75. Near-Infrared Optical Imaging During Resection of Mediastinal Thymomas Improves Assessment of Surgical Margins

Jane J. Keating, Jarrod D. Predina, Sarah Nims, Ollin Venegas, Charuhas Deshpande, John Kucharczuk, +Sunil Singhal
University of Pennsylvania, Philadelphia, PA

Invited Discussant: *Yolonda L. Colson

3:20 p.m. - 4:00 p.m. Coffee Break in the Exhibit Hall

3:30 p.m. - 4:00 p.m. Deep Dive Session	Exhibit Hall
	<i>Not for Credit</i>

P25. Risk Factors for Progression of Ground Glass Opacities in Patients with Resected Pulmonary Adenocarcinoma

Rebecca W. Gao, *Stanford University, Stanford, CA*

P26. Prognostic Impact of the Findings on Thin-Section Computed Tomography in Patients with Subcentimeter Non-Small Cell Lung Cancer

Aritoshi Hattori, *Juntendo University, Tokyo, Japan*

P28. Prediction of Lepidic Predominant Clinical-stage IA Lung Adenocarcinoma with Radiological Pure-Solid Appearance for Possible Indications of Sublobar Resection

Aritoshi Hattori, *Juntendo University, Tokyo, Japan*

76. A Risk Score To Predict the Incidence of Prolonged Air Leak after Videoassisted Thoracoscopic Lobectomy: A European Multicenter Analysis

Cecilia Pompili¹, Pierre Emmanuel Falcoz², Michele Salati³, Zalan Szanto⁴, *Alessandro Brunelli¹

¹St. James University Hospital, Leeds, United Kingdom; ²University Hospital Strasbourg, Strasbourg, France; ³Ospedali Riuniti, Ancona, Italy; ⁴University of Pecs, Pecs, Hungary

Invited Discussant:

77. Salvage Pulmonary Resection Following SBRT: A Feasible and Safe Option For Local Failure

Mara B. Antonoff, Arlene Correa, Boris Sepesi, Quynh-Nhu Nguyen, *Garrett Walsh, *Stephen Swisher, *Ara Vaporciyan, *Reza Mehran¹, *Wayne Hofstetter, *David Rice
UT MD Anderson Cancer Center, Houston, TX

Invited Discussant: *Stephen R. Hazelrigg

78. A Modified Technique of Laryngotracheal Reconstruction without the Need for Prolonged Postoperative Stenting

Konrad Hoetzenecker, Thomas Schweiger, Imme Roesner, Matthias Leonhard, Gabriel Marta, Doris-Maria Denk-Linnert, Berit Schneider-Stickler, Wolfgang Bigenzahn, *Walter Klepetko
Medical University of Vienna, Vienna, Austria

Invited Discussant: *Joel D. Cooper

Late-Breaking Clinical Trial

Invited Discussant:

WEDNESDAY MORNING, MAY 18, 2016**7:30 a.m. Adult Cardiac Surgery Simultaneous Scientific Session****Ballroom I, BCC**

5 minute presentation, 6 minute discussion

*Moderators: *Faisal G. Bakaeen and *Clifford W. Barlow***79. Haemodynamic Performance and Early Outcome of Freedom Solo Stentless Valve vs TAVR for Aortic Valve Replacement in Patients with Intermediate Risk Profile : A European, Multicenter Experience**

Alberto Repossini¹, Laura Giroletti¹, Lorenzo Di Bacco¹, Bruno Passaretti², Gianluigi Bisleri¹, Christina Schafer³, Benjamin Claus³, Herko Grubitzsch³, Thierry Folliguet⁴, Roberto Di Bartolomeo⁷, Juan Pablo Maureira⁴, Francois Laborde⁶, *Claudio Muneretto¹

¹University of Brescia, Brescia, Italy; ²Humanitas Gavazzeni Hospital, Bergamo, Italy; ³Charité Universitätsmedizin Berlin, Berlin, Germany; ⁴CHU de Nancy, Vandoeuvre les Nancy, France; ⁵University of Bologna, Bologna, Italy; ⁶Institut Mutualiste Montsouris, Paris, France

Invited Discussant:**80. Safety and Effectiveness of Robotically-Assisted Mitral Valve Surgery: Analysis of 1,000 Consecutive Cases**

*A. Marc Gillinov, *Tomislav Mihaljevic, Hoda Javadikasgari, *Rakesh Suri, Stephanie Mick, *Jose Navia, Milind Desai, Johannes Bonatti, Mitra Khosravi, Jay Idrees, Ashley Lowry, *Eugene Blackstone, *Lars Svensson
Cleveland Clinic Foundation, Cleveland, OH

Invited Discussant:**81. Aortic Valve Repair with Geometric Ring Annuloplasty for Aortic Insufficiency Associated with Ascending Aortic/Root Aneurysms**

Domenico Mazzitelli¹, Theodor J.M. Fischlein², *J. Scott Rankin³, Yeong-Hoon Choi⁴, Christof Stamm¹, Jan Pirk⁵, Steffen Pfeiffer², Christian Noebauer¹, *Christian Schreiber¹, *Thorsten Wahlers⁴, *Friedhelm Beyersdorf⁶, Ruediger Lange¹

¹German Heart Center Munich, Munich, Germany; ²Klinikum Nürnberg, Paracelsus Medical University, Nuremberg, Germany; ³Cardiothoracic Surgery Associates, Nashville, TN; ⁴University of Cologne, Cologne, Germany; ⁵Institute for Clinical and Experimental Medicine, Prague, Czech Republic; ⁶Heart Center Freiburg University, Freiburg, Germany

Invited Discussant: *Gebrine El Khoury

82. Mid-Term Multi-Center Clinical and Hemodynamic Results of a High Performance Pericardial Surgical Valve

*Scott Goldman¹, Anson Cheung², *Joseph E. Bavaria³, Michael R. Petracek⁴, Mark A. Groh⁵, *Hartzell V. Schaff⁶

¹Lankenau Heart Institute, Wynnewood, PA; ²University of British Columbia, Vancouver, BC, Canada; ³University of Pennsylvania, Philadelphia, PA; ⁴Vanderbilt University, Nashville, TN; ⁵Mission Health and Hospitals, Asheville, NC; ⁶Mayo Clinic, Rochester, MN

Invited Discussant: *Y. Joseph Woo

Innovation in Cardiac Surgery

*Ralph J. Damiano, Jr., Washington University, St. Louis, MO

83. Frozen Elephant Trunk for Type A Aortic Dissection in Marfan Syndrome: Long-Term Single-Center Experience in 106 Patients

Long-Fei Wang¹, Wei-Guo Ma², Jun Zheng¹, Tian-Hua Rong¹, Bulat A Ziganshin², Sven Peterss², Wei Zhang¹, Yong-Min Liu¹, Jun-Ming Zhu¹, Qian Chang³, *John A Elefteriades³, *Li-Zhong Sun¹

¹Capital Medical University, Beijing, China; ²Yale-New Haven Hospital, New Haven, CT; ³Fu Wai Hospital and Cardiovascular Institute, Beijing, China

Invited Discussant: *Wilson Y. Szeto

84. Alternative Approaches in Transcatheter Aortic Valve Replacement and Costs in the U.S. Medicare Population

Fenton H. McCarthy, Danielle D. Spragan, Katherine M. McDermott, Peter W. Groeneveld, Ashley C. Hoedt, Howard C. Herrmann, Saif Anwaruddin, Jay Giri, *Joseph E. Bavaria, *Wilson Y. Szeto, +Nimesh D. Desai
University of Pennsylvania, Philadelphia, PA

Invited Discussant: *Vinod H. Thourani

85. Clinical Outcomes in Low and Intermediate-High Risk Groups with a Sutureless Heart Valve

*Axel Haverich¹, Theodor Fischlein², Kavous Hakim-Meibodi³, Martin Misfeld⁴, *Thierry Carrel⁵, *Marian Zembala⁶, Francesco Madonna⁷, François Laborde⁸

¹Hannover Medical School, Hannover, Germany; ²Paracelsus Medical University, Nuremberg, Germany; ³Ruhr-Universität Bochum, Bad Oeynhausen, Germany; ⁴Herzzentrum Universitaet Leipzig, Leipzig, Germany; ⁵Universitätsklinik für Herz- und Gefäßschirurgie Inselspital, Bern, Switzerland; ⁶Silesian University Zabrze, Poland; ⁷Hopital Cardiologique Du Haut-Leveque, Pessac, France; ⁸Institute Mutualiste Montsouris, Paris, France

Invited Discussant: *Niv Ad

86. Long-term Results of Transapical Off-pump Echo Guided Mitral Valve Repair with Neochord Implantation

Colli Andrea, Laura Besola, Erica Manzan, Eleonora Bizzotto, Fabio Zucchetta, Roberto Bellu, Demetrio Pittarello, Cristiano Sarais, *Gino Gerosa
University of Padua, Padua, Italy

Invited Discussant: *Anelechi C. Anyanwu

87. Thirty-Day and 1-Year Readmission Rate Following Transcatheter Aortic Valve Replacement in a High Volume Centre

Jessica Forcillo, Jose F. Condado, Vasilis Babaliaros, Jose Binongo, Yi-An Lasanajak, Eric Sarin, Chandan M. Devireddy, Bradley G. Leshnower, James P. Stewart, *Robert A. Guyton, Kreton Mavromatis, Peter C Block, Patricia Keegan, Amy Simone, *Vinod H Thourani
Emory University, Atlanta, GA

Invited Discussant: *Michael J. Reardon

9:35 AM – 9:50 AM Coffee Break

WEDNESDAY MORNING, MAY 17, 2016

7:30 a.m. Congenital Heart Disease Simultaneous Scientific Session

Ballroom III, BCC

5 minute presentation, 6 minute discussion

*Moderators: *Jonathan M. Chen and *Pedro J. del Nido*

88. Left Ventricular Assist Device As Destination Therapy in Cardiac End Stage Distrophinopathies: Midterm Results

Gianluigi Perri¹, Sergio Filippelli², Rachele Adoriso², Roberta Iacobelli², Francesca Iodice², Giuseppina Testa², Fabrizio Gandolfo², Domenico D'Amario¹, Massimo Massetti¹, Antonio Amodeo²

¹A. Gemelli Hospital, Rome, Italy; ²Bambino Gesù Children Hospital, Rome, Italy

Invited Discussant: *Kristine J. Guleserian

89. A Transapical to Aorta Double Lumen Cannula-based Neonate LVAD Efficiently Unloads the LV in Neonate Lambs

Cheng Zhou, Dongfang Wang, Cherry Croft, Francesca Condemi, Hassan K. Reda, *Joseph B. Zwischenberger
University of Kentucky, Lexington, KY

Invited Discussant: *David L. Morales

90. Preservation of Umbilical Vein Segments for Use as an Autologous Shunt Conduit in Neonates

David M. Hoganson¹, Dane A. Cooper¹, Kimberly N. Rich¹, Breanna L. Piekarski¹, Joseph P. Gaut², *John E. Mayer¹, Elena Aikawa³, Sitaram M. Emani¹

¹Boston Children's Hospital, Boston, MA; ²Washington University in St. Louis, St. Louis, MO; ³Brigham and Womens Hospital, Boston, MA

Invited Discussant:

91. Routine Preoperative Laboratory Testing in Elective Pediatric Cardiothoracic Surgery is Largely Unnecessary

R. Michael Nieto, Luis E. De León, Kimberly A. Krauklis, *Charles D. Fraser, Jr.
Texas Children's Hospital, Houston, TX

Invited Discussant: *Andrew J. Lodge

MCS for Failing Fontan

*Mark D. Rodefeld, *Indiana University School of Medicine, Indianapolis, IN*

92. Another Look at the Appropriateness of Technical Performance Scores: A Single Center Exploratory Analysis of Surgical Factors Associated with Complications, Reoperation, and Length of Stay Following Tetralogy of Fallot Repair

Daud Lodin¹, Orestes Mavrothalassitis², Naveen Swami³, Tara Karamlou³

¹San Juan Bautista, Caguas, PR; ²University of Maryland, Baltimore, MD; ³University of California, San Francisco, CA

Invited Discussant:

93. Proactive Platelet and Cryoprecipitate Transfusion during Neonatal Cardiopulmonary Bypass Rapidly Normalizes Platelet Count, Fibrinogen and Functional Rotational Thromboelastometry Parameters

John P. Scott¹, Robert A. Niebler¹, Eckehard A.E. Stuth¹, D. Woodrow Benson¹, Ronald K. Woods¹, *James S. Tweddell¹, Regina Cole¹, *Michael E. Mitchell¹, Rachel S. Bercovitz¹, Pippa Simpson¹, Robert Montgomery¹, Alan Mast², Susan Maroney², Ke Yan¹, Rowena Punzalan¹, Debra K. Newman²

¹Medical College of Wisconsin, Milwaukee, WI; ²Blood Research Institute, Milwaukee, WI

Invited Discussant: *Mark S. Bleiweis

94. Shape Does Matter: 3-D Statistical Shape Analysis of the Aortic Arch after Coarctation Repair Reveals Shape Correlation with Left Ventricular Function

Jan L. Bruse¹, Kristin McLeod², Giovanni Biglino¹, Maxime Sermesant³, Xavier Pennec³, Tain-Yen Hsia¹, Andrew M. Taylor¹, Silvia Schievano¹

¹Great Ormond Street Hospital for Children, London, United Kingdom; ²Simula Research Laboratory, Lysaker, Norway;

³INRIA Sophia Antipolis-Méditerranée, Sophia Antipolis, France

Invited Discussant:

95. Surgical Strategy for Aortic Arch Reconstruction after Norwood Procedure based on a Virtual Operation with Numerical Flow Analysis

Shohei Miyazaki¹, Keiichi Itatani², Norihiko Oka¹, Shinji Goto³, Masanori Nakamura³, Tadashi Kitamura¹, Tetsuya Horai¹, Yuki Nakamura¹, +Kagami Miyaji¹

¹*Kitasato University, Sagamihara, Japan;* ²*Kyoto Prefectural University of Medicine, Kyoto City, Japan;* ³*Saitama University, Saitama-Shi, Japan*

Invited Discussant: *Charles D. Fraser

9:35 AM – 9:50 AM Coffee Break

WEDNESDAY MORNING, MAY 18, 2016

7:30 a.m. General Thoracic Surgery Simultaneous Scientific Session

Ballroom IV, BCC

5 minute presentation, 6 minute discussion

*Moderators: *Shaf Keshavjee and *Gaetano Rocco*

96. Prognostic Factors of Tumor Recurrence in Stage I Adenocarcinoma of Lung: Influence of Preoperative biopsy

Chien-Sheng Huang, Po-Kuei Hsu, Chun-Ku Chen, Yi-Chen Yeh, Mei-Han Wu, Chih-Cheng Hsieh, Han-Shui Hsu, Teh-Ying Chou, Wen-Hu Wu, Biing-Shiun Huang

Taipei Veterans General Hospital, Taipei, Taiwan

Invited Discussant:

97. Characteristics and Outcomes of Pathologic Node Positive Esophageal Cancer Patients Receiving Adjuvant Chemotherapy Following Induction Chemotherapy and Esophagectomy

Pamela Samson¹, +Varun Puri¹, A. Craig Lockhart¹, Clifford Robinson¹, Stephen Broderick², G. Alexander Patterson¹, Bryan Meyers¹, *Traves Crabtree¹

¹*Washington University in St. Louis, St. Louis, MO;* ²*St. Luke's Hospital, Chesterfield, MO*

Invited Discussant: *Antoon E. Lerut

98. Well Differentiated Neuroendocrine Carcinoma (Typical Carcinoid) with Mediastinal Lymph Node Metastases: Surgical Outcomes and Whole Exome Sequencing (WES)

Eric Sceusi, Leiva-Juarez Miguel, *Reza Mehran, Neda Kalhor, Kenna Shaw, Andy Futreal, Arlene Correa, Cesar Moran, Ignacio Wistuba, Fujimoto Junya⁷, Xiayu Rao, *Stephen Swisher, *Ara Vaporciyan, Jing Wang, Mara Antonoff, *Wayne Hofstetter, *David Rice, Boris Sepesi, *Garrett Walsh, *Jack Roth

MD Anderson Cancer Center, Houston, TX

Invited Discussant: *David R. Jones

99. Survival Results and Gene Phenotype of Patients With Different Categories of Multiple Primary Lung Cancers

Kezhong Chen, Xun Wang, Fan Yang, Jingbo Zhang, Tian Guan, Jianhong Zhang, Jun Wang

Peking University People's Hospital, Beijing, China

Invited Discussant:

Invited Speaker

100. Partial Thymectomy Results In Similar Outcomes To Total Thymectomy In Masaoko-Koga Stages I And II Thymoma

Brian E Louie¹, *Xiaopan Yao², Eric Vallières¹, Zhitao Gu³, *Yue Shang⁴, Ralph W. Aye¹, +Alexander S. Farivar¹, Wentao Fang³

¹Swedish Cancer Institute, Seattle, WA; ²Yale University, New Haven, CT; ³Shanghai Chest Hospital, Shanghai, China; ⁴The MathWorks, Inc., Natick, MA

Invited Discussant: *Joshua R. Sonett

101. Role of Pulmonary Resection in Patients with Pleural Metastasis Encountered at the Time of Surgery

Samina Park, Yoohwa Hwang, Hyun Joo Lee, In Kyu Park, Chang Hyun Kang, *Young T. Kim

Seoul National University Hospital, Seoul, Republic of Korea

Invited Discussant:

102. miRNA Profiling of Lung Squamous Cell Carcinoma in the Head and Neck Cancer Patient: Metastasis or Primary Tumor

Juan A. Muñoz, Praveen Sridhar, Adam C. Gower, Anita Deshpande, Yuriy O. Alekseyev, Carl J. O'Hara, *Hiran C.

Fernando, *Virginia R. Litle

Boston University, Boston, MA

Invited Discussant:

103. Lung Transplantation is Associated with a Survival Benefit in Patients with Chronic Obstructive Pulmonary Disease

Charles F. Evans, Zachary N. Kon, Min Zhan, June Kim, Irina Timofte, Aldo T Iacono, *James S. Gammie, *Si M. Pham,

*Bartley P. Griffith, Pablo G. Sanchez

University of Maryland, Baltimore, MD

Invited Discussant: +Marcelo Cypel

9:35 AM – 9:50 AM Coffee Break

WEDNESDAY MORNING, MAY 18, 2016

9:50 AM	Adult Cardiac Masters of Surgery Video Session Moderator: *Thoralf M. Sundt, III, <i>Massachusetts General Hospital</i> Panelists: *David H. Adams, <i>Mount Sinai Medical Center</i> *Joseph S. Coselli, <i>Baylor College of Medicine</i> *Ralph J. Damiano, Jr., <i>Washington University</i>	Ballroom I, BCC
9:55 AM – 10:10 AM	Aortic Root Replacement with Valve Repair *Lars. G. Svensson, <i>Cleveland Clinic</i>	
10:10 AM – 10:25 AM	Maze Procedure *Vinay Badhwar, <i>University of Pittsburgh</i>	
10:25 AM – 10:40 AM	Aortic Arch Replacement *Malakh L. Shrestha, <i>Hannover Medical School</i>	

10:40 AM – 10:55 AM **TAVR without General Anesthesia**
*Vinod H. Thourani, *Emory University*

10:55 AM – 11:10 AM **Complex Mitral Valve Repair**
*Gebrine El Khoury, *Université Catholique de Louvain*

11:10 AM – 11:30 AM **Discussion**

9:50 AM **Congenital Masters of Surgery Video Session** **Ballroom III, BCC**
Moderators: *Charles D. Fraser, *Texas Children's Hospital*
*Luca A. Vricella, *Johns Hopkins Hospital*

9:55 AM – 10:15 AM **Slide Aortoplasty**
*E. Dean McKenzie, *Texas Children's Hospital*

10:15 AM – 10:35 AM **Modified Senning Procedure**
*Krishna S. Iyer, *Fortis Escorts Heart Institute*

10:35 AM – 10:55 AM **Arterial Switch Operation – Open Technique**
*Charles D. Fraser, *Texas Children's Hospital*

10:55 AM – 11:15 AM **Tetralogy of Fallot: Transatrial-Transpulmonary Repair**
*George E. Sarris, *Athens Heart Surgery Institute*

11:15 AM – 11:30 AM **Discussion**

9:50 AM **General Thoracic Masters of Surgery Video Session** **Ballroom IV, BCC**
Moderator: *Bernard J. Park, *Memorial Sloan-Kettering Cancer Center*
Panelists: *Todd L. Demmy, *Rutgers Cancer Institute of New Jersey*
*Robert J. Cerfolio, *University of Alabama at Birmingham*
*M. Blair Marshall, *Georgetown University*

9:55 AM – 10:15 AM **Robotic Bi-lobectomy**
*Bernard J. Park, *Memorial Sloan-Kettering Cancer Center*

10:15 AM – 10:35 AM **VATS Lobectomy with En Bloc Chest Wall Resection**
*Mark Onaitis, *Duke University*

10:35 AM – 10:55 AM **VATS Tracheal Sleeve Resection with ECMO Support**
*Scott J. Swanson, *Brigham & Women's Hospital*

10:55 AM – 11:15 AM **Robotic LUL Double Sleeve Resection**
*Haiquan S. Chen, *Fudan University Shanghai Cancer Center*

11:15 AM – 11:30 AM **Discussion**

11:30 AM **Annual Meeting Adjourns**

