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**  
  Ballroom I, Level 400, BCC
- **Congenital Skills**  
  Ballroom III, Level 400, BCC
- **General Thoracic Skills**  
  Ballroom IV, Level 400, BCC
- **Interprofessional Cardiothoracic Team Symposium**  
  Room 337, Level 300, BCC
- **Optimal Therapies for End-Stage Thoracic Organ Failure**  
  Room 340, Level 300, BCC
- **Surgical Ethics Course**  
  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**  
  Ballroom II, Level 400, BCC
- **Congenital Hands-On**  
  Room 324, Level 300, BCC
- **General Thoracic Hands-On**  
  Room 327, Level 300, BCC
- **Optimal Therapies for End-Stage Thoracic Organ Failure Hands-On**  
  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**  
  Hall E, Level 100, BCC
- **AATS/STS Congenital Heart Disease Symposium**  
  Ballroom III, Level 400, BCC
- **AATS/STS General Thoracic Surgery Symposium**  
  Ballroom IV, Level 400, BCC
- **AATS/STS Cardiothoracic Critical Care Symposium**  
  Room 337, Level 300, BCC
- **Survival Guide for the Cardiothoracic Surgical Team**  
  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*
*Haikuian 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*

*AATS Member  +AATS New Member
**Adult Cardiac Skills:**

**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*

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

11:40 AM - 12:00 PM  
**Panel Discussion**

12:00 PM - 1:00 PM  
**Combined Luncheon Video Interview**  
Hall E, Level 100, BCC  
*Denton A. Cooley, Texas Heart Institute*

1:00 PM - 1:10 PM  
**Surgical Options for Prosthetic Valve Endocarditis Complicated by Root Abscess +/- Pseudoaneurysm**  
*Gosta B. Pettersson, Cleveland Clinic*

1:10 PM - 1:20 PM  
**Correction of Double Native Valve Endocarditis with Destruction of the Central Fibrous Body**  
*Gebrine El Khoury, Université Catholique de Louvain*

1:20 PM - 1:30 PM  
**TAVR Valve-in-valve for Aortic Bioprosthetic Degeneration**  
*Vinod H. Thourani, Emory University*

1:30 PM - 1:40 PM  
**Transcatheter Valve-in-valve Therapy for Mitral Bioprosthetic Degeneration**  
*Friedrich W. Mohr, Herzzentrum Leipzig*

1:40 PM - 1:50 PM  
**Surgical Techniques for Correcting Severe AI in Bicuspid Valve Anatomy**  
+Laurent de Kerchove, Cliniques Universitaires Saint-Luc

1:50 PM - 2:00 PM  
**Surgical Options for Addressing Aortopathy in Bicuspid Valve Disease**  
*John S. Ikonomidis, Medical University of South Carolina*

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, University of Pennsylvania*

2:30 PM - 2:37 PM  
**Repair of Acute Type A Dissection with Malperfusion using Frozen Elephant Trunk Technique**  
Bradley G. Leshnower, Emory University

2:37 PM - 2:44 PM  
**Repair of Acute Type A Dissection with Malperfusion with an Integrated TEVAR-First Approach**  
*Eric E. Roselli, Cleveland Clinic*

2:44 PM - 2:54 PM  
**Circulation Management Options for Open DTAA/TAAA**  
*Joseph S. Coselli, Baylor College of Medicine*

2:54 PM - 3:01 PM  
**Combined Open Proximal, Stent-Graft Distal Arch Repair for Aneurysm**  
*Marc R. Moon, Washington University*

3:01 PM - 3:11 PM  
**Redo-Sternotomy for Transverse Arch Replacement after Previous Type A Repair**  
*Thomas G. Gleason, University of Pittsburgh*

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**  
*Separate Registration Required*
# Congenital Heart Disease Skills: Toward Technical Perfection

**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

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

## Perfusion Details

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15 AM - 10:30 AM</td>
<td>How I Conduct Operations Using DHCA</td>
<td><em>Christian Pizarro, Alfred Dupont Hospital for Children</em></td>
</tr>
<tr>
<td>10:30 AM - 10:45 AM</td>
<td>How I Conduct Operations Using Selective Cerebral Perfusion</td>
<td><em>Frank A. Pigula, Boston Children’s Hospital</em></td>
</tr>
</tbody>
</table>

## Repair of IAA

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45 AM - 11:00 AM</td>
<td>Yasui Method</td>
<td><em>Kirk R. Kanter, Emory University</em></td>
</tr>
<tr>
<td>11:00 AM - 11:15 AM</td>
<td>Subaortic resection/VSD Closure/Autologous Arch Repair</td>
<td><em>Charles D. Fraser, Texas Children’s Hospital</em></td>
</tr>
</tbody>
</table>

## Complete AVSD

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15 AM - 11:30 AM</td>
<td>One Patch Method</td>
<td><em>Richard A. Jonas, Children’s National Medical Center</em></td>
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<tr>
<td>11:30 AM - 11:45 AM</td>
<td>Two Patch Method</td>
<td><em>Krishna S. Iyer, Fortis Escorts Heart Institute</em></td>
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<tr>
<td>11:45 AM - 12:00 PM</td>
<td>“Australian” Method</td>
<td><em>Tom R. Karl, Johns Hopkins All Children’s Hospital</em></td>
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<tr>
<td>12:00 PM - 1:00 PM</td>
<td>Combined Luncheon Video Interview</td>
<td><em>Denton A. Cooley, Texas Heart Institute</em></td>
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**Ballroom III, Level 300, BCC**

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*AATS Member + AATS New Member*
Ebstein’s Anomaly

1:00 PM – 1:15 PM  Echocardiographic Evaluation for AVSD and Ebstein’s Anomaly
Girish S. Shirali, *Children’s Mercy Hospital*

1:15 PM - 1:30 PM  Newborn Repair: How I Really Do This Operation
*Christopher J. Knott-Craig, *Le Bonheur Children’s Hospital*

1:30 PM - 1:45 PM  Newborn Tricuspid Exclusion – How I Really Do This Operation
*Vaughn A. Starnes, Keck Hospital of USC*

1:45 PM - 2:00 PM  Technical Tricks for Adult Ebstein’s Repair
*Joseph A. Dearani, *Mayo Clinic*

HLHS Technical Refinement

2:00 PM - 2:15 PM  MRI Assessment for Stage Single Ventricle Palliation
Shi-Joon Yoo, *Hospital for Sick Children*

2:15 PM - 2:30PM  Avoiding Arch Obstruction
*Thomas L. Spray, *Children’s Hospital of Philadelphia*

2:30 PM - 2:45 PM  Avoiding Conduit Obstruction and Pulmonary Artery Distortion
*Shunji Sano, *Okayama University*

2:45 PM - 3:00 PM  Comprehensive Stage II
Hakan Akintürk, *Universitätsklinikum Giessen und Marburg*

3:00 PM  Adjourn for Coffee Break followed by Hands-On Sessions from 4:00 PM - 6:00 PM
*Separate Registration Required*

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

Staging/Diagnosis of Lung and Esophageal Cancer

8:10 AM - 8:20 AM  EBUS
*Mark F. Berry, Stanford University*

8:20 AM - 8:30 AM  Electromagnetic Bronchoscopy
*Jeffrey L. Port, New York Presbyterian Hospital - Weill Cornell Medical College*

8:30 AM - 8:40 AM  EUS
*Sudish C. Murthy, Cleveland Clinic*

8:40 AM - 8:50 AM  EMR/RFA
*Mark Onaitis, Duke University*

8:50 AM - 9:00 AM  VAMLA
*Todd L. Demmy, Rutgers Cancer Institute of New Jersey*

9:00 AM - 9:15 AM  Panel Discussion

9:15 AM - 9:30 AM  Coffee Break
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:30 AM</td>
<td><strong>Segmentectomy</strong></td>
<td>Michael Kent, Beth Israel Deaconess Medical Center</td>
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<tr>
<td>9:40 AM</td>
<td><strong>VATS Extended Resections</strong></td>
<td>*Thomas A. D'Amico, Duke University</td>
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<tr>
<td>9:50 AM</td>
<td><strong>Robotic Resection</strong></td>
<td>*Robert J. Cerfolio, University of Alabama at Birmingham</td>
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<td>10:00 AM</td>
<td><strong>VATS Mediastinal Lymphadenectomy</strong></td>
<td>*David R. Jones, Memorial Sloan Kettering Cancer Center</td>
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<tr>
<td>10:10 AM</td>
<td><strong>VATS Sleeve Resection</strong></td>
<td>*M. Blair Marshall, Georgetown University</td>
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<td>10:20 AM</td>
<td><strong>Multiple GGO Lesions</strong></td>
<td>*Haiquan S. Chen, Fudan University Shanghai Cancer Center</td>
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<td>10:30 AM</td>
<td><strong>3D Modeling</strong></td>
<td>*Shanda H. Blackmon, Mayo Clinic</td>
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<td>10:40 AM</td>
<td><strong>Panel Discussion</strong></td>
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<td>11:00 AM</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td><strong>Lung Cancer</strong></td>
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<td>11:10 AM</td>
<td><strong>Robotic Thymectomy</strong></td>
<td>Jens C. Rueckert, University Medicine Berlin, Charite</td>
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<tr>
<td>11:20 AM</td>
<td><strong>Open Thymectomy</strong></td>
<td>+James Huang, Memorial Sloan Kettering Cancer Center</td>
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<tr>
<td>11:30 AM</td>
<td><strong>VATS Sympathectomy</strong></td>
<td>*David H. Harpole, Jr., Duke University</td>
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<td>11:40 AM</td>
<td><strong>Leiomyoma</strong></td>
<td>*Gail E. Darling, Toronto General Hospital</td>
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<td>11:50 AM</td>
<td><strong>Panel Discussion</strong></td>
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<td>12:00 PM</td>
<td><strong>Combined Luncheon Video Interview</strong></td>
<td>Hall E, Level 100, BCC</td>
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<td>1:00 PM</td>
<td><strong>Laparoscopic PEHR</strong></td>
<td>Katie S. Nason, University of Pittsburgh</td>
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<td>1:10 PM</td>
<td><strong>POEM</strong></td>
<td>Brian E. Louie, Swedish Cancer Institute and Medical Center</td>
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<td>1:20 PM</td>
<td><strong>Laparoscopic Diverticulum</strong></td>
<td>Matthew Hartwig, Duke University</td>
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<td>1:30 PM</td>
<td><strong>Panel Discussion</strong></td>
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<tr>
<td>1:58 PM</td>
<td><strong>Transhiatal Esophagectomy</strong></td>
<td>*Andrew C. Chang, University of Michigan</td>
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*AATS Member      +AATS New Member
2:10 PM - 2:22 PM  Minimally-Invasive Ivor Lewis  
Yi Hua Sun, Fudan University Shanghai Cancer Center

2:22 PM - 2:34 PM  Open Ivor Lewis  
*Wayne L. Hofstetter, MD Anderson Cancer Center

2:34 PM - 2:46 PM  Minimally-Invasive 3-incision  
Lijie Tan, Zhong Shan Hospital, Fudan University

2:46 PM - 2:58 PM  3-incision Esophagogastrectomy for Lower Third Adenocarcinoma  
*Brendon M. Stiles, New York Presbyterian Hospital

2:58 PM - 3:10 PM  Robotic Esophagectomy  
*Inderpal S. Sarkaria, University of Pittsburgh

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
Separate Registration Required

Interprofessional Cardiothoracic Team Symposium:  
Advancing Excellence in Systems of Care and Outcomes  
Room 337, Level 300, BCC

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

*AATS Member  +AATS New Member
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, Bon Secours Heart and Vascular Institute

10:30 AM - 10:45 AM  The Evolution of Quality Measurement in CT Surgery
*David M. Shahian, Massachusetts General Hospital

10:45 AM - 11:00 AM  Is True Informed Consent for CV Surgery Achievable and What Should It Include?
*Robert M. Sade, Medical University of South Carolina

11:00 AM - 11:20 AM  Strategies to Improve End of Life and Palliative Care Discussions: When and with Whom?
*Gosta B. Pettersson, Cleveland Clinic

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, Washington University

11:40 AM - 12:00 PM  Post ICU syndrome and Depression: Risk Factors, Outcomes, and Management
*Kamal R. Khabbaz, Beth Israel Deaconess Medical Center

12:00 PM - 1:00 PM  Combined Luncheon Video Interview  Hall E, Level 100, BCC
*Denton A. Cooley, Texas Heart Institute

Session II: OR and ICU Issues

Moderators: Jeffrey Riley, Mayo Clinic and David Lizotte, University of Louisville

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, Johns Hopkins Hospital

1:30 PM - 1:55 PM  Prevention and Management of Bleeding in the OR: Maximizing Blood Conservation
Surgeon Perspective: *Gosta B. Pettersson, Cleveland Clinic
Anesthesia Perspective: Colleen Koch, Johns Hopkins Hospital

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, Cleveland Clinic

2:10 PM - 2:25 PM  What do Perfusionists Worry about in the OR?: Low Frequency Crisis Events and Their Management
Jeffrey Riley, Mayo Clinic

2:25 PM - 2:40 PM  Postoperative Surgical Bleeding: Management Strategies in ICU
Damien J. LaPar, University of Virginia

*Stephen C. Yang, Johns Hopkins Hospital

2:55 PM - 3:10 PM  Sepsis Precautions, Infection Monitoring and Management
*Vinod H. Thourani, Emory University

3:10 PM - 3:25 PM  Arrhythmia and Pacemaker Management in the ICU
David Lizotte, University of Louisville

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, Cleveland Clinic

*AATS Member  +AATS New Member
Optimal Therapies for End-Stage Thoracic Organ Failure:
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

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

* AATS Member       + AATS New Member
Video Session

11:00 AM - 11:06 AM  How to Perform Bilateral Lung Transplant through Sterntomy
*John H. Dark, The Freeman Hospital

11:06 AM - 11:12 AM  How to Perform Lung Transplant using ECMO
*Walter Klepetko, Vienna Medical University

11:12 AM - 11:20 AM  How to Perform Redo Lung Transplant
*R. Duane Davis, Jr., Florida Hospital

11:20 AM - 11:30 AM  Tough Cases: Things I Would Never Do Again
*Shaf Keshavjee, Toronto General Hospital
Mani Daneshmand, Duke University

11:35 AM - 12:00 PM  Debate: Transplantation on ECMO Should Be the Standard for Lung Transplantation
Pro: *Walter Klepetko, Vienna Medical University
Con: *R. Duane Davis, Jr., Florida Hospital

12:00 PM - 1:00 PM  Combined Luncheon Video Interview
Hall E, Level 100, BCC
*Denton A. Cooley, Texas Heart Institute

Moderators: Scott C. Silvestry, Florida Hospital Transplant Institute and *Francis D. Pagani, University of Michigan

1:00 PM - 1:15 PM  Temporary Circulatory Support in Cardiogenic Shock: Which Platforms to Maximize Recovery and for How Long?
Aly El Banayosy, INTEGRIS Baptist Medical Center

1:15 PM - 1:30 PM  Durable LVADs in Acute Cardiogenic Shock: Which Pump and When
*Nader Moazami, Cleveland Clinic

1:30 PM - 2:00 PM  Panel Discussion: Device Selection and Patient Management in Shock
Scott C. Silvestry, Florida Hospital Transplant Institute
*Francis D. Pagani, University of Michigan
Aly El Banayosy, INTEGRIS Baptist Medical Center
*Nader Moazami, Cleveland Clinic

2:00 PM - 2:15 PM  New Mechanical Circulatory Support Devices: An Update from Europe - HM III and MVAD
Jan D. Schmitto, Hannover Medical School

2:15 PM - 2:30 PM  Lessons from ENDURANCE and ROADMAP Trials
*Carmelo A. Milano, Duke University

2:30 PM - 2:45 PM  Pulmonary Vascular-Right Ventricular Interactions: The Achilles Heel in Heart Transplantation and Mechanical Circulatory Support
Navin K. Kapur, Tufts University

2:45 PM - 3:15 PM  Video Session: How to Do it Temporary RVAD Support
Chris Sciortino, Johns Hopkins Hospital
Scott C. Silvestry, Florida Hospital Transplant Institute
Charles Hoopes, University of Alabama at Birmingham

3:00 PM - 3:10 PM  Longer-term Support: Biventricular LVAD
*Carmelo Milano, Duke University

3:10 PM - 3:15 PM  Longer-term Support: TAH
*Francisco A. Arabia, Cedars-Sinai Medical Center
<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>3:15 PM - 3:25 PM</td>
<td><strong>Difficult Cases in TCS and MCS</strong></td>
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<td>*Ashish S. Shah, Vanderbilt University</td>
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<td>+Simon Maltais, Mayo Clinic</td>
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<td>*Francis D. Pagani, University of Michigan</td>
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<td>*Carmelo Milano, Duke University</td>
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<td>Stuart Russell, Johns Hopkins Hospital</td>
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<td>3:25 PM - 3:40 PM</td>
<td><strong>Why all the PGD: Lessons Learned from an In-depth Analysis within an Institution</strong></td>
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<td>Hiroo Takayama, Columbia University</td>
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<td>3:40 PM - 3:55 PM</td>
<td><strong>Functional Capacity and Exercise with Continuous Flow Devices</strong></td>
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<td>Stuart Russell, Johns Hopkins Hospital</td>
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<td>4:00 PM</td>
<td><strong>Adjourn for Coffee Break followed by Hands-On Sessions from 4:00 PM - 6:00 PM</strong></td>
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<td><strong>Separate Registration Required</strong></td>
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### 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>8:00 AM - 8:15 AM</td>
<td><strong>Welcome and Introduction</strong></td>
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</table>
| 8:15 AM - 9:15 AM | **Keynote Address: Working Virtues in Surgical Practice: How to Transmit Essential Character Traits**  
|              | Larry Churchill, Vanderbilt University                                    |
| 9:15 AM - 9:30 AM | **Ethical Issues of LVAD Management**                                   |
|              | John W.C. Entwistle, III, Thomas Jefferson University                    |
| 9:30 AM - 9:45 AM | **Transplantation: Confronting the Ethics of Scarcity**                  |
|              | J. Scott Millikan, Billings Clinic                                       |
| 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, Ohio State University                            |
| 11:00 AM - 11:15 AM | **Preoperative Disclosure: In all Honesty, My Results ...**             |
|              | Sandra Starnes, University of Cincinnati Cancer Institute                |
| 11:15 AM - 11:45 AM | **Panel Discussion**                                                      |
| 12:00 PM - 1:00 PM | **Combined Luncheon Video Interview**                                   |
|              | *Denton A. Cooley, Texas Heart Institute                                |
| 1:00 PM - 1:15 PM | **My Patient Wants to Die: How Can I Help?**                            |
|              | Kathleen Fenton, William Novick Global Cardiac Alliance                 |
| 1:15 PM - 1:30 PM | **Unrealistic Hopes: When Family and Caregivers Don't Agree**           |
|              | *Leslie J. Kohman, State University of New York Upstate Medical University |
| 1:30 PM - 2:00 PM | **Panel Discussion**                                                      |
| 2:00 PM - 2:15 PM | **Doing the Wrong Thing in Research**                                   |
|              | *Thomas A. D'Amico, Duke University                                     |
| 2:15 PM - 2:30 PM | **The Dark Side of Expert Witness Testimony**                           |
|              | *Richard I. Whyte, Beth Israel Deaconess Medical Center                 |
2:30 PM - 3:00 PM  Panel Discussion

3:00 PM - 3:15 PM  Flexible Decision Making About Life Support
Jennifer Ellis, Washington Hospital Center

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
Separate Registration Required

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**SUNDAY, MAY 15**

**AATS/STS Adult Cardiac Surgery Symposium:**

*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
<table>
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<tr>
<th>Time</th>
<th>Event</th>
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| 10:05 AM - 10:20 AM | Universal TAVR: We’re Almost There  
David Holmes, Mayo Clinic |
| 10:20 AM - 10:35 AM | Percutaneous Mitral Technologies Around the Corner and Other Game Changers  
*A. Marc Gillinov, Cleveland Clinic |
| 10:35 AM - 10:45 AM | AATS Consensus Guideline: Endocarditis  
*Gosta Pettersson, Cleveland Clinic |
| 10:45 AM - 10:55 AM | Panel Discussion |

**Session III: Aortic Surgery**  
*Faisal G. Bakaeeen, Baylor College of Medicine* and *Todd K. Rosengart, Baylor College of Medicine*

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| 10:55 AM - 11:10 AM | Intervening on the BAV Aorta: When, Why and Wherefore?  
*Y. Joseph Woo, Stanford University |
| 11:10 AM - 11:25 AM | Intervening on the Type B Descending Aorta: TEVAR or Open  
*Leonard N. Girardi, New York Presbyterian Hospital - Weill Cornell Medical College |
| 11:25 AM - 11:40 AM | Tackling the Marfan’s Root: Pitfalls and Solutions  
+Ourania Preventza, Texas Heart Institute |
| 11:40 AM - 12:00 PM | Debate: Valve Sparing Root Replacement  
**Moderator:** *Lars G. Svensson, Cleveland Clinic*  
**Pro:** Always Spare the Valve  
*Joseph E. Bavaria, University of Pennsylvania*  
**Con:** A Good Replacement is Better than a Bad Repair!  
*Hans-Joachim Schaefers, Saarland University Medical Center |
| 12:00 PM - 1:00 PM | Legends Luncheon  
*John L. Ochsner, Ochsner Clinic Foundation*  
*Remain in Hall E for Legends Luncheon* |

**Session IV: ECMO and Bridging VAD - A New Paradigm for Sustaining Life**  
*Irving L. Kron, University of Virginia* and *Todd K. Rosengart, Baylor College of Medicine*

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| 1:00 PM - 1:15 PM | Extracorporeal Support – The Sooner the Better  
*Mark S. Slaughter, University of Louisville |
| 1:15 PM - 1:30 PM | ECMO in the Field – The New Logistics of Pump and Run  
*Matthew Bacchetta, Columbia University Medical Center |
| 1:30 PM - 1:45 PM | Ventricular Salvage – When and How to Wean VAD Support  
Steve Singh, Baylor College of Medicine |
| 1:45 PM - 2:00 PM | New Devices - We Can Make This Even Easier  
*William E. Cohn, Texas Heart Institute |
| 2:00 PM - 2:15 PM | Devices Are So Old School – The New World of Myocardial Regeneration  
*Todd K. Rosengart, Baylor College of Medicine |
| 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**  
*Friedrich W. Mohr, Herzzentrum Leipzig* and *Todd K. Rosengart, Baylor College of Medicine*
Degenerative Mitral Regurgitation: Are Artificial Chords State of the Art?  
*Friedrich W. Mohr, Herzzentrum Leipzig

Aortic Root Enlargement to Avoid PPM: Is there Still a Need?  
*George T. Christakis, Sunnybrook Hospital

Mitrail Intervention in CABG Patients: Is Less Ever More?  
*Louis P. Perrault, Montreal Heart Institute

Gladiator Session II: Bicuspid Aortic Valve Repair  
Moderator: *Tirone E. David, Toronto General Hospital  
Pro: *Gebrine El Khoury, Université Catholique de Louvain  
Con: *D. Craig Miller, Stanford University

Functional Mitral Regurgitation: Back to Basics (Replace) or Stick with Repair?  
*Steven F. Bolling, University of Michigan

Minimally Invasive Valve Surgery: State of the Art  
Joseph Lamelas, Mount Sinai Medical Center

Panel Discussion

Gladiator Session III: Concomitant Tricuspid Repair  
Moderator: *James S. Gammie, University of Maryland  
Pro: *David H. Adams, Mount Sinai Medical Center  
Con: *John V. Conte, Johns Hopkins Hospital

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

AATS/STS Congenital Heart Disease Symposium:  
Respecting Our Past; Embracing Our Future

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

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

Pediatric VAD Update

Overview of Current Pediatric and Adult Devices in Congenital Heart Disease  
Iki Adachi, Texas Children’s Hospital

The Pumpkin Trial: We Are Close  
Tim Baldwin, NHLBI

Total Artificial Heart Trial  
*David L. Morales, Cincinnati Children’s Hospital

VAD’s in Adults with Failing Single Ventricles  
Ronald K. Woods, Medical College of Wisconsin

Getting Increasingly Complex: Adult Congenital Cardiac Surgery

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
*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
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:

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

*AATS Member  +AATS New Member
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
*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

1:00 PM - 1:12 PM  Multimodality Management of Stage III/IVa Thymic Tumors
Pier Luigi Filosso, University of Torino, Italy

1:12 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
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<th>Session Title</th>
<th>Presenter(s)</th>
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<tr>
<td>3:12 PM</td>
<td>Starting a Minimally-Invasive Esophagectomy Program</td>
<td>Daniela Molena, Johns Hopkins Hospital</td>
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<td>3:24 PM</td>
<td>Optimal Management of the Pylorus Following an Esophagectomy</td>
<td>*Traves D. Crabtree, Washington University</td>
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<td>3:36 PM</td>
<td>Robotic Esophagectomy: Outcomes and Complications</td>
<td>*Robert J. Cerfolio, University of Alabama at Birmingham</td>
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<td>3:48 PM</td>
<td>Re-operation for Failed Anti-Reflux Operations</td>
<td>*Arjun Pennathur, University of Pittsburgh</td>
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<td>4:00 PM</td>
<td>The Surgeon’s Role in Clinical Trials for Esophageal Cancer</td>
<td>*Gail E. Darling, Toronto General Hospital</td>
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<td>4:15 PM</td>
<td>Panel Discussion</td>
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<td>4:35 PM</td>
<td>Ask the Experts: MIE is Superior to Open Esophagectomy for Esophageal Cancer</td>
<td>*James D. Luketich, University of Pittsburgh, *Manjit S. Bains, Memorial Sloan Kettering Cancer Center, *Robert J. Cerfolio, University of Alabama at Birmingham, *Mark B. Orringer, University of Michigan, *Gail E. Darling, Toronto General Hospital</td>
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<td>5:00 PM</td>
<td>Adjourn for Welcome Reception in the Exhibit Hall, Level 100, BCC</td>
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**AATS/STS Cardiothoracic Critical Care Symposium:**

**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).*

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<td>8:00 AM</td>
<td>Welcome and Introduction</td>
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<tr>
<td>8:10 AM</td>
<td>Infection and Inflammation in the ICU</td>
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<td>8:10 AM</td>
<td>Update on Management of Sepsis in the CTICU</td>
<td>James Isbell, University of Virginia</td>
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<td>8:25 AM</td>
<td>Management of Complex Mediastinal Issues</td>
<td>*Jonathan W. Haft, University of Michigan</td>
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<td>8:40 AM</td>
<td>Empyema - Operative &amp; ICU Care</td>
<td>Aaron M. Cheng, University of Washington</td>
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<tr>
<td>8:55 AM</td>
<td>Latest Management of Esophageal Leak</td>
<td>*Richard K. Freeman, St. Vincent Hospital</td>
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<tr>
<td>9:10 AM</td>
<td>Panel Discussion</td>
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<tr>
<td>9:25 AM</td>
<td>Coffee Break</td>
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<td>Time</td>
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<td>9:40 AM - 9:55 AM</td>
<td>Single-provider ECMO – How We Do It</td>
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<td>*Jonathan W. Haft, University of Michigan</td>
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<tr>
<td>9:55 AM - 10:10 AM</td>
<td>Mechanical Circulatory Support: Undercoagulation is as Bad as Over</td>
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<td>Giles Peek, Pediatric Heart Center at Montefiore and Einstein</td>
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<td>10:10 AM - 11:05 AM</td>
<td>ECMO Emergencies &amp; Complications: ICU Management</td>
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<td>William Lynch, University of Michigan</td>
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<tr>
<td>11:05 AM - 11:20 AM</td>
<td>VAD Emergencies &amp; Complications: ICU Management</td>
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<td>+John Stulak, Mayo Clinic</td>
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<td>11:20 AM - 11:40 AM</td>
<td>Panel Discussion</td>
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<td>12:00 PM - 1:00 PM</td>
<td>Legends Luncheons</td>
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<td>*Leonard L. Bailey Taking place in Ballroom III, Level 400, BCC</td>
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<td>*Joel D. Cooper Taking place in Ballroom IV, Level 400, BCC</td>
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<td>*John L. Ochsner Taking place in Hall E, Level 100, BCC</td>
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<tr>
<td>1:15 PM - 1:30 PM</td>
<td>Early Detection &amp; Management of Neurologic Complications</td>
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<td>Vassyl Lonchya, Chicago</td>
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<td>1:30 PM - 1:45 PM</td>
<td>Complications of Transcatheter Valve Procedures</td>
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<td>*Vinod H. Thourani, Emory University</td>
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<td>1:45 PM - 2:05 PM</td>
<td>Latest Management of Coagulopathies</td>
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<td>Kenichi Tanaka, University of Maryland</td>
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<td>2:05 PM - 2:30 PM</td>
<td>Panel Discussion</td>
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<td>2:30 PM - 3:00 PM</td>
<td>Coffee Break</td>
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<td>3:00 PM - 3:20 PM</td>
<td>Challenges of the Affordable Care Act: Systems for Quality Improvement in the ICU</td>
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<td>Daniel T. Engelman, Baystate Medical Center</td>
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<td>3:20 PM - 3:40 PM</td>
<td>Palliative Care in the ICU</td>
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<td>Keki R. Balsara, Washington University</td>
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<td>3:40 PM - 4:00 PM</td>
<td>Panel Discussion</td>
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<td>4:00 PM - 5:00 PM</td>
<td>Difficult Cases in the CTICU</td>
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<td>Aaron M. Cheng, University of Washington</td>
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<td>James Isbell, University of Virginia</td>
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<td></td>
<td>Keki R. Balsara, Washington University</td>
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<td>Giles Peek, Pediatric Heart Center at Montefiore and Einstein</td>
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<tr>
<td>5:00 PM</td>
<td>Adjourn for Welcome Reception in the Exhibit Hall, Level 100, BCC</td>
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</table>
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., University of Texas Medical Branch, Galveston
*Joseph C. Cleveland, Jr., University of Colorado

1:10 PM - 1:30 PM Creating Resonant Teams through Attuned Communication
*Ross M. Ungerleider, Wake Forest Baptist Health

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, University of Massachusetts

1:45 PM - 2:00 PM Tension Pneumothorax
Brandon Tieu, Oregon Health & Science University

2:00 PM - 2:15 PM Airway Emergency
*Stephen C. Yang, Johns Hopkins Hospital

2:15 PM - 2:30 PM Post-op Bleeding
*Howard K. Song, Oregon Health & Science University

2:30 PM - 2:45 PM Low CO/CI Syndrome
*Joseph C. Cleveland, Jr., University of Colorado

2:45 PM - 3:00 PM Acute Aortic Syndromes
Philip Hess, University of Florida

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, University of Massachusetts

3:15 PM - 3:30 PM Tension Pneumothorax
Brandon Tieu, Oregon Health & Science University

3:15 PM - 3:45 PM Airway Emergency
*Stephen C. Yang, Johns Hopkins Hospital

3:45 PM - 4:00 PM Post-op Bleeding
*Howard K. Song, Oregon Health & Science University

4:00 PM - 4:15 PM Low CO/CI Syndrome
*Joseph C. Cleveland, Jr., University of Colorado

4:15 PM - 4:30 PM Acute Aortic Syndromes
Philip Hess, University of Florida
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.
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:
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JOMDD
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WSPCH
Zimmer Biomet

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Medtronic
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Siemens Medical Solutions
St. Jude Medical

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
*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
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
*Nasser K. Altorki
*Francisco A. Arabia
*Matthew Bacchetta
*Carl L. Backer
*Leonard L. Bailey
*Manjit S. Bains
*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.

*Joel D. Cooper
*Marci Damiano
*John H. Dark
*Gail E. Darling
*Tirone E. David
*Joseph A. Dearani
*Todd L. Demmy
*Gebrine El Khoury
*Stephen G. Ellis
*Daniel T. Engelman
*Stephan Emsminger
*John W.C. Entwistle
*Kathleen Fenton
*Pier Luigi Filosso
*Raja M. Flores
*Richard K. Freeman
*Annie Garcia
*Leonard N. Girardi
*Thomas G. Gleason

Carlos M. Mery
*Thomislav Mihaljevic
*Carmelo A. Miliano
*J. Scott Millikan
*Nader Moazami
*Susan D. Moffatt-Bruce
*Friedrich W. Mohr
*Marc R. Moon
*Michael S. Mulligan
*Sudish C. Murthy
*Katie S. Nason
*John L. Ochsner
*Mark Onaitis
*Isabelle Optiz
*Mark B. Orringer
*G. Alec Patterson
*Giles Peek
*Gosta B. Pettersson
*Frank A. Piguila
*Christian Pizarro
*Jeffrey L. Port
+Ourania Preventza
*John D. Puskas
*Jeffrey B. Rich
*Todd K. Rosengart
*Jens C. Rueckert
*Robert M. Sade
*Shunji Sano
*Inderpal S. Sarkaria
*George E. Sarris
*Hans-Joachim Schaefers
*Ashish S. Shah
*David M. Shahian
*Steve Singh
*Craig R. Smith
*Howard K. Song
*Thomas L. Spray
*Vaughn A. Starnes
*Sandra Starnes
*Brendon M. Stiles
+John Stulak
*Yihua Sun
*Hiroo Takayama
*Lijie Tan
*Kneichi Tanaka
*Brandon Tieu
*Michael Tong
*Hakim Akin Turk
*James S. Tweddell
*Ross M. Ungeleider
*Paul E. van Schil
*Jennifer D. Walker
*David Waller
*Glenn J. Whitman
*Richard I. Whyte
*Y. Joseph Woo
*Cameron D. Wright
*Stephen C. Yang
The following faculty members have nothing to disclose with regard to commercial support. The following faculty members plan on discussing unlabeled/investigational uses of a commercial product.

*Abbas Ardehali  
*Off-label/unapproved use discussion – OCS-Lung, XVIVO Platform

+Laurent de Kerchove  
*Off-label/unapproved use discussion – use of the Simplici-T band as an external circumferential ring annuloplasty in aortic valve repair

Kathleen Fenton  
*Off-label/unapproved use discussion – The topic assigned is euthanasia and physician assisted suicide. This represents off label drug use in most places.

William Lynch  
*Off-label/unapproved use discussion – ECMO technologies are used in "off label" when used for ECMO

Chris Sciortino  
*Off-label/unapproved use discussion – Temporary RV support

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

*M. 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, Medtronics; 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, CorIlnova, 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

*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

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


*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

*Matthew Williams  Consultant and Research Support from Medtronic, Edwards Lifesciences

The following faculty members have nothing to disclose with regard to commercial support. The following faculty members plan on discussing unlabeled/investigational uses of a commercial product.

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

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

7:20 a.m.  Business Session, AATS Members Only  
Hall E, BCC

7:30 a.m.  Plenary Scientific Session  
8 minute presentation, 12 minute discussion  
Moderators: *Joseph S. Coselli and *Marc R. Moon  
Hall E, BCC

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

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 Joyce4, 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

9:05 a.m.  Coffee Break in the Exhibit Hall

*AATS Member  
+AATS New Member
9:45 a.m.  Basic Science Lecture  
**Stopping Incurable Cancers through Eliminating their Anti-Oxidative Defenses**  
James D. Watson, Watson School of Biological Science

10:25 a.m.  Plenary Scientific Session  
**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  

11:25 a.m.  Presidential Address  
**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  
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: Preparing Yourself for an Academic Career Luncheon  
Room 343, BCC  
Not for Credit

Residents, Fellows and Medical Students Only

**MONDAY AFTERNOON, MAY 16, 2016**

2:00 p.m.  Adult Cardiac Surgery Simultaneous Scientific Session  
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 Tchantchaleishvili², Nicholas A. Haglund³, 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 Ocazionez1, *Anthony Estrera3, Richard Smalling2, 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. LeMaire3, Kim de la Cruz1, Konstantinos Spiliotopoulos1, Matt D. Price1, *Faisal G. Bakaen2, 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

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?
Cleveland Clinic Foundation, Cleveland, OH

Invited Discussant: *Joseph E. Bavaria

5:00 p.m.  Adjourn

MONDAY AFTERNOON, MAY 16, 2016

*AATS Member
+AATS New Member
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
*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
*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
¹University of Alabama, Birmingham, AL; ²Northwestern 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
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
The Johns Hopkins Medical Institutions, Baltimore, MD

Invited Discussant: *Tomasz Grodzki

24. Pulmonary Metastasectomy with Curative Intent for Soft Tissue Sarcoma
Memorial Sloan Kettering Cancer Center, New York, NY

Invited Discussant: *Garrett L. Walsh

*Richard K. Freeman, Anthony J Ascioti, Megan Dake, Raja S Mahidhara
St. Vincent’s Health and Hospital System, Indianapolis, IN

Invited Discussant: *Kemp H. Kerstine

*AATS Member
+AATS New Member
MONDAY AFTERNOON, MAY 16, 2016
SIMULTANEOUS SCIENTIFIC SESSIONS

2:00 p.m. Perioperative Care Simultaneous Scientific Session
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
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
Johns Hopkins University, Baltimore, MD

Invited Discussant:

29. Preoperative MRSA Screening and Targeted Decolonization in Cardiac Surgery
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
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
*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, Crescenzia Rotunno¹, Jessica Vincent³, Veronica Myasoedova⁴, Francesco Alamanni⁵, Piero Guida¹, Micaela de Palo¹, Vito Margari³, 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 McMaster 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
*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
Jonthan Villena-Vargas, Marissa Mayor, Andreas deBiasi, *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
L3. Pathogenesis of De Novo Lung-Restricted Autoimmunity Following Lung Transplantation
Stephen Chiu¹, Vijay Subramanian¹, *Daniel Kreisel², GR Scott Budinger¹, Harris Perlman¹, *Malcolm McAvoy DeCamp, Jr.¹, Thalachallour Mohanakumar², Ankit Bharat¹
¹Northwestern University, Chicago, IL; ²Washington 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
¹University of Maryland Baltimore, MD; ²Baltimore Veteran Affairs Medical Center, Baltimore, MD; ³John Hopkins Hospital, Baltimore, MD

Invited Discussant: *Jessica S. Donington

L5. Mechanistic Insights into the Pathophysiology of Pulmonary Vein Stenosis
Rachel D. Vanderlaan¹, Yaqin Yana Fu¹, Jingyi Pan², Anouk Martine-Teichert Martine-Teichert², Jiaquan Zhu², Mauro Lo Rito², Jason Maynes², *John Coles², Jaques Belik², *Christopher A. Caldarone²
¹University of Toronto, Toronto, ON, Canada; ²Hospital 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 Universtiy, Montreal, QC, Canada

Invited Discussant: *Abe DeAnda Jr.

L7. Calpain Inhibition Modulates GSK-3β Pathways in A Swine Model of Chronic Myocardial Ischemia in the Setting of Metabolic Syndrome: A Proteomic and Mechanistic Analysis
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
Room 327, BCC
Course Chair: *Vinod H. Thourani, Emory University
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 Häuser³, Daniel Ziebura¹, Nora Prochnow¹, Andreas Baumann¹, Markus Schlömiche¹, Hildegrad Christ², Justus Thomas Strauch¹
¹BG University Hospital Bergmannsheil Bochum, Bochum, Germany; ²University 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 Hocum Stone¹, Cory Swingen¹, Christopher T. Holley¹, Christin A. Wright¹, Melanie Crampton¹, *Herbert B. Ward¹, Edward O. McFalls², *Rosemary F. Kelly¹
¹University of Minnesota, Minneapolis, MN; ²Minneapolis 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
¹Boston Children’s Hospital, Boston, MA; ²Beth Israel Deaconess Medical Center, Boston, MA

Invited Discussant: *Juan A. Crestanello

Yasuhiro Shudo¹, Andrew B. Goldstone³, Jeffrey E. Cohen¹, Masashi Kawamura¹, Jay Patel¹, Michael S. Hopkins¹, Bryan B. Edwards¹, Shigeru Miyagawa¹, Yoshiki Sawa³, *Joseph Woo¹
¹Stanford University, Stanford, CA; ²Osaka 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
¹Stellenbosch University, Tygerberg, South Africa; ²Pathcare, Somerset West, South Africa

Invited Discussant: *Clifford W. Barlow

*AATS Member
+AATS New Member
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-1α/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

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. Schrump
11

F13. Highly Effective Heparanase-Based Therapy for Mesothelioma
Moshe Lapidot, Uri Barash, Yaniv Zohar, Neta Ilan, Israel Vlodavsky
Brigham and Women’s Hospital, Boston, MA; Cancer and Vascular Biology Research Center, Technion, Haifa, Israel; Rambam 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
Baylor College of Medicine, Houston, TX; Brigham and Women’s Hospital, Boston, MA

Invited Discussant: +Varun Puri

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: +Sunil Singhal

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. Schrump
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. Burt, Don-Hong Wang, Hyun-Sung Lee, David Yoon, Gerald Berry, Thomas M. Wheeler, Farrah Kheradmand, David J. Sugarbaker, Edgar Engleman
Baylor College of Medicine, Houston, TX; Stanford University School of Medicine, Stanford, CA

Invited Discussant: +Sunil Singhal

F20. Inherited Immunologic Factors Affecting Lung Cancer Susceptibility
Saeed Arfahanian, Ryuji Higashikubo, Daniel Kreisel, Andrew E Gelman, Alexander Sasha Krupnick
Washington University, St. Louis, MO

Invited Discussant: +Sunil Singhal

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

Michael W. A. Chu, Katie L. Losenno, Pantelis Diamantouros, Rodrigo Bagur, Patrick Teefy, Jill J. Gelinas, *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

*AATS Member
+AATS New Member
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 Reconstructipon 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, Mitsuki 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
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
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 Ganglieneuroma
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
Mayo Clinic, Phoenix, AZ

V6. Simplifying the Repair of Barlow’s Disease: A Solution to Excess Leaflet Tissue without Resection
Yale University, New Haven, CT

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

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
5 minute presentation, 7 minute discussion

* AATS Member
+ AATS New Member
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, Boyang 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

40. Emergency Implantation of Durable Left Ventricular Assist Devices as Primary Therapy for Refractory Cardiogenic Shock
*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 Bruaene2 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 Carrozzi, Marina Comioso, 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; ²Austin Hospital, Melbourne, Australia; ³Vincents 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  
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  
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  
Hall E, BCC  
Brian Kelly, Notre Dame Corbett Family Head Football Coach

12:30 p.m. Adjourn For Lunch in the Exhibit Hall

12:45 p.m. Moderated Poster Competitions  
Exhibit Hall, BCC  
5 minute presentation  
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 Li3, Neil Spiller1, Minh Quan Vu3, Andrew Crean3, Denis-Claude Roy3, Ignacio Prieto3, Ren-Ke Li1, Nicolas Noisieux2  
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  
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

*AATS Member  
+AATS New Member
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
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

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
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
P12. Predicting Long-Term Outcomes after Complex Mitral Valve Repair: A Single Center 15-Year Experience
Emory University, Atlanta, GA

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 Murzi3, *Emre Belli4, Damien Bonnet5
1Columbia University, New York, NY; 2Université Paris, Saint Denis, France; 3Université Paris Sud, Le Pessis 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 Nuszkowski1, Erin Montague1, Gerald Mikesell1, Karthik Ramakrishnan1, Edem Ziadino1, *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
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)
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
20

**P21. Predictors of Successful Biventricular Repair after Hybrid Treatment for Borderline Hypoplastic Left Heart**
Can Yerebakan1, Uygar 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**
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

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**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**
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**
University of Michigan, Ann Arbor, MI

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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

*AATS Member
P30. Analytic Morphomics Predict Outcomes After Lung Volume Reduction Surgery
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
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 Taurodine In Cystic Fibrosis Patients Undergoing Lung Transplantation and Impact on Bacterial Colonization: A Propensity Score Matched Analysis
Mohamed Zeriouh1, Nikhil P. Patil1, Anton Sabashnikov2, Prashant N. Mohite1, Bartlomeij Zych1, Diana Garcia1, Achim Koch1, Simona Soresi2, 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 Hall E, BCC
Faculty, description and program to come.

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
St. Louis University, St. Louis, MO

*AATS Member
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 Conte⁶
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?
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
Washington University, St. Louis, MO

Invited Discussant: *Vinay Badhwar

Late-Breaking Clinical Trial

Invited Discussant:

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

Invited Discussant: *Jennifer S. Lawton

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

Invited Discussant:

58. Cardiovascular Operations for Loeys-Dietz Syndrome: Intermediate Results
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
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
1Otsu Red Cross Hospital, Otsu, Japan; 2Emory 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. Thurani1, *Michael E. Halkos1, W. Brent Keeling1, Eric L. Sarin1, Yi Lasanajak2, Jose N. Binongo2, *Robert A. Guyton1, Bradley G. Leshnower1
1Emory University, Atlanta, GA; 2Rollins 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
Boston Children's Hospital, Boston, MA

Invited Discussant: *Thomas L. Spray

66. 10-Year Outcomes after Implant of Decellularized Pulmonary Allografts for RVOT Reconstruction
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 Artery Origin from Wrong Sinus |
| *James S. Tweddell, Cincinnati Children’s Hospital |

*AATS Member
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 Nido, Sitaram M. Eman
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 Davies1, 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
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

*AATS Member
**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

<table>
<thead>
<tr>
<th>Exhibit Hall</th>
<th>Not for Credit</th>
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<tbody>
<tr>
<td><strong>P25. Risk Factors for Progression of Ground Glass Opacities in Patients with Resected Pulmonary Adenocarcinoma</strong></td>
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<tr>
<td>Rebecca W. Gao, <em>Stanford University, Stanford, CA</em></td>
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<td><strong>P26. Prognostic Impact of the Findings on Thin-Section Computed Tomography in Patients with Subcentimeter Non-Small Cell Lung Cancer</strong></td>
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<td>Aritoshi Hattori, <em>Juntendo University, Tokyo, Japan</em></td>
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<td><strong>P28. Prediction of Lepidic Predominant Clinical-stage IA Lung Adenocarcinoma with Radiological Pure-Solid Appearance for Possible Indications of Sublobar Resection</strong></td>
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<td>Aritoshi Hattori, <em>Juntendo University, Tokyo, Japan</em></td>
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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**


*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:**

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*AATS Member*
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

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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 Repossini\(^1\), Laura Giroletti\(^1\), Lorenzo Di Bacco\(^2\), Bruno Passaretti\(^3\), Gianluigi Bisleri\(^1\), Christina Schafer\(^3\), Benjamin Claus\(^3\), Herko Grubitzsch\(^3\), Thierry Folliguet\(^4\), Roberto Di Bartolomeo\(^7\), Juan Pablo Maureira\(^8\), Francois Laborde\(^6\), *Claudio Muneretto\(^1\)

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

**Invited Discussant:**

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

*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 Mazzitelli\(^1\), Theodor J.M. Fischlein\(^2\), *J. Scott Rankin*\(^3\), Yeong-Hoon Choi\(^4\), Christof Stamm\(^1\), Jan Pirk\(^5\), Steffen Pfeiffer\(^2\), Christian Noebauer\(^1\), *Christian Schreiber*\(^1\), *Thorsten Wahlers*\(^4\), *Friedhelm Beyersdorf*\(^6\), Ruediger Lange\(^1\)

\(^1\)German Heart Center Munich, Munich, Germany; \(^2\)Klinikum Nürnberg, Paracelsus Medical University, Nuremberg, Germany; \(^3\)Cardiothoracic Surgery Associates, Nashville, TN; \(^4\)University of Cologne, Cologne, Germany; \(^5\)Institute for Clinical and Experimental Medicine, Prague, Czech Republic; \(^6\)Heart 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 Goldman*\(^1\), Anson Cheung\(^2\), *Joseph E. Bavaria*\(^3\), Michael R. Petracek\(^4\), Mark A. Groh\(^5\), *Hartzell V. Schaff*\(^6\)

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

**Invited Discussant:** *Y. Joseph Woo*

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**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 Wang, Wei-Guo Ma, Jun Zheng, Tian-Hua Rong, Bulat A Ziganshin, Sven Petterss, Wei Zhang, Yong-Min Liu, Jun-Ming Zhu, Qian Chang, John A Elefteriades, Li-Zhong Sun

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 Haverich, Theodor Fischlein, Kavous Hakim-Meibodi, Martin Misfeld, Thierry Carrel, Marian Zembala, Francesco Madonna, François Laborde
1Hannover Medical School, Hannover, Germany; 2Paracelsus Medical University, Nuremberg, Germany; 3Ruhr-Universität Bochum, Bad Oeynhausen, Germany; 4Herzzentrum Universitätaet Leipzig, Leipzig, Germany; 5Universitätsklinik für Herz- und Gefässchirurgie 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, Kretom 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 Distrophinopaties: Midterm Results
Gianluigi Perri, Sergio Filippelli, Rachele Adorisio, Roberta Iacobelli, Francesca Iodice, Giuseppina Testa, Fabrizio Gandolfo, Domenico D'Amario, Massimo Massetti, Antonio Amodeo

*AATS Member
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 Women’s 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. Bercovitz2, 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 Nakamura3, +Kagami Miyaji1
1Kitasato University, Sagamihara, Japan; 2Kyoto Prefectural University of Medicine, Kyoto City, Japan; 3Saitama 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
1Washington University in St. Louis, St. Louis, MO; 2St. 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)
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 Gu1, *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
Boston University, Boston, MA

Invited Discussant:

103. Lung Transplantation is Associated with a Survival Benefit in Patients with Chronic Obstructive Pulmonary Disease
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, Massachusetts General Hospital
Panelists: *David H. Adams, Mount Sinai Medical Center
*Joseph S. Coselli, Baylor College of Medicine
*Ralph J. Damiano, Jr., Washington University
Ballroom I, BCC

9:55 AM – 10:10 AM Aortic Root Replacement with Valve Repair
*Lars. G. Svensson, Cleveland Clinic

10:10 AM – 10:25 AM Maze Procedure
*Vinay Badhwar, University of Pittsburgh

10:25 AM – 10:40 AM Aortic Arch Replacement
*Malakh L. Shrestha, Hannover Medical School
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