



AMERICAN ASSOCIATION
FOR THORACIC SURGERY
We Model Excellence

AATS ANNUAL MEETING 2015

PRELIMINARY PROGRAM

April 25 – 29, 2015

Washington State Convention Center
Seattle, WA, USA

www.aats.org

Dear Colleagues,

I hope you will join me and my Co-Chairs, David H. Adams and Yolonda L. Colson, for AATS Week 2015 which begins with our two-day Mitral Conclave in New York City, April 23 and 24 and continues with our 95th Annual Meeting in the beautiful city of Seattle Washington, April 25 through 29, 2015. I promise you a week of extraordinary science, and a unique opportunity to interact with your colleagues from around the world as we share the latest advances in our specialty.

On Saturday in Seattle, our very popular Skills Courses in Adult Cardiac Surgery, Congenital Heart Disease, and General Thoracic Surgery will be supplemented by two featured sessions. One will cover Optimal Therapies for End Stage Thoracic Organ Failure highlighting the role of the surgeon and the use of ECMO, MCS and Transplantation, and the second will be the annual Allied Health Personnel Symposium as AATS stresses the "team" approach to cardiovascular diseases.

Sunday's Postgraduate Courses addressing all aspects of our specialty will be complemented by the **Legends Luncheons** during which Professor Magdi Yacoub will address the Adult and Congenital attendees, while Dr. Jean DesLauriers will present at the General Thoracic Surgery Symposium.

Once again a "single ticket" format for each day will be in place for the Saturday and Sunday programs, allowing attendees to move freely between the various programs, making it easy to pick and choose presentations of particular interest to them.

The Plenary and Simultaneous Sessions have been developed by the Abstract Committee from a near record number of abstracts submitted. Monday's Plenary will highlight our Basic Science Lecturer, Dr. Donald E. Ingber, a founder of the Wyss Institute for Biologically Inspired Engineering and Professor at Harvard University. Dr. Ingber will be addressing how biologically inspired materials and devices are being developed that will solve critical medical and environmental problems. The afternoon's Simultaneous Sessions will conclude with the 18th Lillehei Resident Forum featuring the top eight submissions by residents from around the country.

Tuesday morning's program will begin with a newly designed Emerging Technologies and Techniques Forum which will be divided into Cardiac and General Thoracic sections. These will be complemented by a new session on VAD ECMO, in response to the large number of abstracts submitted on this topic, and the customary Cardiac and General Thoracic Fora and a Video Session.

The Plenary Session on Tuesday will feature our Honored Guest Lecturer, Colonel Casey Haskins (ret), founder and CEO at BLK SHP Innovation, LLC, a management consulting firm which helps leaders develop an experimental innovation mindset, facilitating the discovery and reinvention of solutions to ongoing and intractable problems. Colonel Haskins' presentation, entitled *Three Ideas About Changing Things* will supplement my Presidential Address on Monday morning during which I will discuss the close links between advances in technology innovation and Cardiothoracic Surgery.

These lectures compliment the concepts of *Technological Innovation in Cardiothoracic Surgery: A Pragmatists Approach* that I will discuss in the 95th Presidential Address.

A novelty at this year's meeting will be the "Deep Dive" sessions which will take place during breaks in the scientific program. Authors of specific papers will be invited to mini-theaters in the Exhibit Hall to add to their podium presentations and address questions from a small panel of colleagues selected by the Abstract Committee. While in the Exhibit Hall you should take a few minutes not only to evaluate the latest in surgical instrumentation, devices and support systems but to also attend the expanded scientific poster session which will include the work of residents from around the world and Allied Health professionals together with the Top Gun and Jeopardy programs.

Wednesday morning's session has been changed this year to include two and one-half hours of Simultaneous Sessions for the three subspecialties and conclude with the very popular **Masters of Surgery Video Sessions** initiated last year, featuring procedures illustrated and described by leaders in our specialty.

My Annual Meeting Co-Chairs and I, along with the rest of the Abstract Committee, look forward to welcoming you to this exciting AATS Week 2015 both in New York with the Mitral Conclave and Seattle with our 95th Annual Meeting. This will be a truly global meeting, which will benefit you and your patients.



Pedro J. del Nido
Boston Children's Hospital

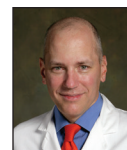


Join cardiothoracic surgeons from around the world for a five-day program of state-of-the-art presentations by renowned experts. Attendees will enhance their knowledge and skills in a wide-range of subjects including general and specialized cardiac surgery, emerging technologies, congenital heart disease, critical care and aortic/endovascular surgery.

President and Annual Meeting Chair
***Pedro J. del Nido**
 Boston Children's Hospital, Boston, MA



PRESIDENT



Annual Meeting Co-Chair
***David H. Adams**
 Mount Sinai Medical Center, New York, NY



Annual Meeting Co-Chair
***Yolonda L. Colson**
 Brigham and Women's Hospital, Boston, MA

EDUCATIONAL OBJECTIVES

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

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

WHO SHOULD ATTEND

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
- Allied Health 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 ANNUAL MEETING ACCREDITATION

ACCME Accreditation Statement

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

This live activity has been approved for ****33 AMA PRA Category 1 Credit(s)™**.

****Credit hours subject to change.**

Disclosure Statement

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 pharmaceuticals or medical devices occur.

For further information on the Accreditation Council for Continuing Medical Education (ACCME) Standards of Commercial Support, please visit www.accme.org.

- **Nursing** This program will be submitted to the American Academy of Nurse Practitioners (AANP) for continuing education credit.
- **Perfusion** This program will be submitted to the American Board of Cardiovascular Perfusion (ABCP) for continuing education credit.
- **Physician Assistant** This program will be submitted to the Physician Assistant Review Panel for continuing education credit.

SCHEDULE AT A GLANCE

EXHIBIT HALL HIGHLIGHTS

In addition to lunches being available in the exhibit hall there will be plenty of open displays for you to view daily.

Sunday, April 26 5:00 pm -7:00 pm

Welcome Reception

Resident Poster Competition
Allied Health Poster Competition
AATS Learning Center
AATS Mini-Theater Presentations

Monday, April 27 9:00 am -4:30 pm

AATS Learning Center
AATS Mini-Theater Presentations

Tuesday, April 28 9:00 am -2:30 pm

AATS Learning Center
Moderated Poster Competition
AATS Mini-Theater Presentations

AATS COURSES SATURDAY

April 25

6:30 am - 6:00 pm REGISTRATION OPEN

8:00 am - 3:30 pm **SIMULTANEOUS SKILLS COURSES**

Adult Cardiac Surgery

Congenital Heart Disease

General Thoracic Surgery

8:00 am - 3:30 pm **ALLIED HEALTH PERSONNEL SYMPOSIUM**

8:00 am - 3:30 pm **OPTIMAL THERAPIES FOR END-STAGE THORACIC ORGAN FAILURE: THE CRITICAL ROLE OF THE SURGEON AND THE USE OF ECMO, MCS AND TRANSPLANTATION COURSE**

8:00 am - 3:30 pm **SURGICAL ETHICS FORUM**

12:00 pm-1:00 pm **LUNCH**

4:00 pm - 6:00 pm **ADVANCED TECHNIQUES FOR STATE OF THE ART CORONARY BYPASS SURGERY**

4:00 pm - 6:00 pm **HANDS-ON SESSIONS** Separate registration required

AATS/STS Postgraduate Courses SUNDAY

April 26

6:30 am - 6:00 pm REGISTRATION OPEN

8:00 am - 5:00 pm **SIMULTANEOUS SYMPOSIA**

Adult Cardiac Surgery

Congenital Heart Disease

General Thoracic Surgery

12:00 pm - 1:00 pm **LEGENDS LUNCHEONS - Sir Magdi Yacoub and Jean Deslauriers**

5:00 pm - 7:00 pm **WELCOME TO THE ANNUAL MEETING RECEPTION IN THE EXHIBIT HALL**

Visit the Resident Poster Competition, Allied Health Poster Competition, and the AATS Learning Center featuring Case Videos.

WELCOME RECEPTION

OPEN EVENING Various Satellite Post-Activity Symposia**

SCHEDULE NOTES

- Complimentary morning and afternoon coffee breaks will be provided.
- Lunch will be available for purchase in the Exhibit Hall on Monday and Tuesday.
- All scientific sessions and exhibits will take place at the Washington State Convention Center.
- Times, topics, and faculty members are subject to change.

DAY ONE MONDAY

April 27

6:30 am - 5:00 pm	REGISTRATION OPEN
6:30 am - 7:30 am	MAINTENANCE OF CERTIFICATION INFORMATION BREAKFAST NOT FOR CREDIT
7:20 am - 7:30 am	BUSINESS SESSION AATS MEMBERS ONLY
7:30 am - 11:25 am	PLENARY SCIENTIFIC SESSION Award Presentations, New Member Induction
9:45 am - 10:25 am	BASIC SCIENCE LECTURE Donald E. Ingber, <i>Wyss Institute for Biologically Inspired Engineering</i>
11:25 am - 12:15 pm	PRESIDENTIAL ADDRESS <i>Technological Innovation in Cardiothoracic Surgery: A Pragmatists Approach</i> *Pedro J. del Nido, <i>Boston Children's Hospital</i>

12:15 pm - 2:00 pm	LUNCH IN THE EXHIBIT HALL Ethics Lunch Pre-registration required Cardiothoracic Residents Lunch Residents, Fellows & Medical Students Only
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2:00 pm - 5:00 pm SIMULTANEOUS SESSIONS

Adult Cardiac Surgery Congenital Heart Disease General Thoracic Surgery Perioperative Care

5:00 pm - 6:30 pm 18TH ANNUAL C. WALTON LILLEHI RESIDENT FORUM

5:00 pm - 6:30 pm FUNCTIONAL MR: A SURGICAL DISEASE? NEW SURGICAL & INTERVENTIONAL PARADIGMS FOR TREATMENT

5:00 pm - 6:30 pm INTEGRATING ADVANCED IMAGING IN PLANNING INTERVENTIONS: A CASE-BASED INTERACTIVE EXPERT PANEL REVIEW

OPEN EVENING Various Satellite Post-Activity Symposia**

DAY TWO TUESDAY

April 28

6:30 am - 5:00 pm REGISTRATION OPEN

7:00 am - 8:45 am SIMULTANEOUS SESSIONS

Adult Cardiac Surgery Forum General Thoracic Surgery Forum Emerging Technologies and Techniques: Adult Cardiac Emerging Technologies and Techniques: General Thoracic Video Session VAD/ECMO Session

8:45 am - 12:30 pm PLENARY SCIENTIFIC SESSION

11:40 am - 12:30 pm HONORED GUEST LECTURE *Three Ideas About Changing Things*

Colonel Casey Haskins, *BLK SHP INNOVATIONS*

12:30 pm - 2:00 pm LUNCH IN THE EXHIBIT HALL

2:00 pm - 5:30 pm SIMULTANEOUS SESSIONS

Adult Cardiac Surgery Congenital Heart Disease General Thoracic Surgery Aortic/Endovascular Surgery

5:30 pm - 6:15 pm EXECUTIVE SESSION AATS MEMBERS ONLY

7:00 pm - 10:00 pm AATS ATTENDEE RECEPTION AT THE MUSEUM OF FLIGHT

Ticketed Event: \$85.00 USD per person. All attendees, guests, & exhibitors are encouraged to attend.

ATTENDEE RECEPTION

DAY THREE WEDNESDAY

April 29

6:30 am - 12:00 pm REGISTRATION OPEN

7:00 am - 9:35 am SIMULTANEOUS SESSIONS In Case You Missed It Presentation from 7:00 am - 7:20 am for all sessions.

Adult Cardiac Surgery Congenital Heart Disease General Thoracic Surgery

9:45 am - 11:15 am SIMULTANEOUS MASTERS OF SURGERY VIDEO SESSIONS

Adult Cardiac Surgery Congenital Heart Disease General Thoracic Surgery

For additional details regarding the presentations, abstracts, and authors, please visit www.aats.org/annualmeeting

ABMS Competencies Key



Patient Care



Professionalism



Medical Knowledge



Systems-based Practice

Interpersonal and
Communication SkillsPractice-based Learning
and Improvement

This activity has been developed in recognition of the American Board of Medical Specialties Six Core Competencies. This activity will increase your competency in the areas of Patient Care, Medical Knowledge, Interpersonal and Communication Skills, Professionalism, Systems-based Practice, and Practice-based Learning and Improvement.

The AATS has designated the primary competency each session will address.

ADULT CARDIAC SKILLS How I Would Like My Operation Done

CARDIAC

SATURDAY, APRIL 25, 2015 8:00 am - 3:30 pm

Course Chair: *Lars G. Svensson, Cleveland Clinic

Course Co-Chair: *Michael A. Borger, Columbia University



The purpose of the program is to update surgeons on surgical operations. Cardiac surgery is continually evolving and expert surgeons will address these new developments. In surgical practice surgeons may not be up-to-date with recent developments and this skills course will describe new options for the treatment of their patients. At the end of the course the participants will have been broadly updated on new procedures and refined older ones that they use in the better care of their patients.

How I Would Like My Minimal Invasive J - Incision To Be Done for My Aortic Valve

*Volkmar Falk, University Hospital Zurich

How I Would Like My Thoracoabdominal Aorta Stented

Matthew J. Eagleton, Cleveland Clinic

I Would Like a Right Thoracotomy for My Aortic Valve & How It Should Be Done

Mattia Glauber, G. Pasquucci Heart Hospital - Monasterio Foundation

How I Would Like My Acute Ascending Aortic Dissection to Be Treated

*D. Craig Miller, Stanford University

I Would Like a Balloon Expandable Sutureless Valve for My Aortic Valve & How It Should Be Done

*Michael A. Borger, Columbia University

What Would I Like To Be Done For My Ischemic Mitral Valve Regurgitation - Replace with Chordal Preservation?

*Irving L. Kron, University of Virginia

I Would Like a Robotic Self-Expanding Sutureless Valve for My Aortic Valve & How It Should Be Done

*Rakesh M. Suri, Mayo Clinic

Other Than Rings, What I Would Like For My Ischemic Mitral Regurgitation Repair

*Robert A. Dion, Ziekenhuis Oost-Limburg

Managing the Small Annulus & Lvot with a Biological Valve with or Without Myectomy

*Bruce W. Lytle, Cleveland Clinic

What Approach & Technique Would I Ask For My Degenerative Mitral Valve Repair: Five Techniques For 95% of Valves

*A. Marc Gillinov, Cleveland Clinic

Mechanical Valve for Small Annulus & How I Would Like My Annular Enlargement to Be Done

*Hartzell V. Schaff, Mayo Clinic

Complex Degenerative Valve Repair Techniques: The Other 5% of Valves

*David H. Adams, Mount Sinai Medical Center

How I Want Aortic My Valve Leaflets Repaired

*Allan S. Stewart, Mount Sinai Medical Center

Severe MAC - What About Direct Placement of Self - Expanding Pulmonary Valve Device?

Ahmed El-Eshmawi, Mount Sinai Medical Center

How I Would Like My Transapical Valve Inserted

*Vinod H. Thourani, Emory University

How I Would Do My Mitral Valve Clips

Francesco Maisano, University Hospital Zurich

How I Would Like My Direct Aortic Valve Inserted

*Michael J. Reardon, Methodist DeBakey Heart Center

How I Would Do My Mitral Valve Replacement Valve - in - Valve

Anson Cheung, University of Columbia

How I Would Like a Self- Expanding Valve Inserted Including Subclavian Backup

*Gregory P. Fontana, Lenox Hill Hospital

My Choice For Percutaneous Mitral Valve Replacement

Jose A. Navia, Sr., Austral University

How I Would Like My Inflatable Frame & Super Glue Valve Inserted

Reginald I. Low, University of California, Davis

Tips I Would Give My Surgeon For My Double Valve (Aortic & Mitral) Endocarditis

*Gosta B. Pettersson, Cleveland Clinic

How I Would Like By Biological Valve Failure to Be Treated With a Valve - In - Valve

*Michael J. Mack, Baylor Health Care System

How to Do a Mitral Valve Repair for Rheumatic Valve Disease

Taweezak Chotivatanapong, Chest Disease Institute

How I Would Like By Bicuspid Valve & Aneurysms Treated

*Thoralf M. Sundt, III, Massachusetts General Hospital

What Lesion Set I Would Have Depending on My Atrial Fibrillation Type

*Ralph J. Damiano, Jr., Washington University

Tips I Would Give My Surgeon Replacing My Aortic Root

*Lars G. Svensson, Cleveland Clinic

How I Would Like My Arterial Grafting To Be Done With Bilateral Internal Arteries & Other Arterial Conduits

*Joseph F. Sabik, III, Cleveland Clinic

How I Would Like My Aortic Arch Repaired With Debranching & Stents

*Joseph E. Bavaria, University of Pennsylvania

How I Would Do My Robotic Coronary Artery Bypassing

Johannes Bonatti, Cleveland Clinic Abu Dhabi

How I Would Like My Elephant Trunk Procedure to Be Done

*Malakh L. Shrestha, Hannover Medical School

How I Would Do My Thorascopic Coronary Artery Bypassing

Robert S. Poston, University of Arizona

How I Would Plan & Do My Descending Aorta Dissection with Stents

*Eric E. Roselli, Cleveland Clinic

How I Would Do My Anterior VSD Closure

*John V. Conte, Johns Hopkins Hospital

How I Would Like My Descending Aortic Aneurysm Treated With Coverage of the Left Subclavian Artery

*John S. Ikonidis, Medical University of South Carolina

How I Would Do My Inferior - Basal VSD Repair

*Tirone E. David, Toronto General Hospital

What I Would Choose to Do for My Thoracoabdominal Aorta Repair

*Joseph S. Coselli, Baylor College of Medicine

HANDS-ON SESSION 4:00 - 6:00 pm Separate Registration Required

CONGENITAL HEART DISEASE SKILLS Dealing with Challenging Conditions - Pearls and Pitfalls

SATURDAY APRIL 25

SATURDAY, APRIL 25, 2015 8:00 am - 3:30 pm

Course Chair: *Erle H. Austin, III, University of Louisville

This course will focus on the technical skills required for performing certain congenital cardiac operations, and decision making skills required to select the appropriate patient for those operations. The presentations will focus on different practice gaps. Areas addressed will include tetralogy/pulmonary atresia with major aortopulmonary collaterals, recruitment of the borderline left ventricle, mechanical device implantation, and innovative techniques to repair truncus arteriosus and its associated conditions. A didactic session will describe recent imaging and modeling techniques for complex congenital lesions.

PA/VSD/MAPCAs - Technique for Early Complete Repair

*Frank L. Hanley, Stanford University

Neonatal Pulmonary Artery Rehab without Unifocalization

*Yves d'Udekem, Royal Children's Hospital

Panel Discussion with Case Presentations

*Erle H. Austin, III, University of Louisville

*Yves d'Udekem, Royal Children's Hospital

*Frank L. Hanley, Stanford University

The Borderline Left Ventricle: What is it? Recruit it or Forget it?

*James S. Tweddell, Medical College of Wisconsin

Techniques for Recruiting the Borderline Left Ventricle

Sitaram Emani, Boston Children's Hospital

Where to Draw the Line

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

Modified Truncus Arteriosus

George Alfieri, University of Rochester

Repairing/Replacing the Insufficient Truncal Valve

Mark Gerard Hazekamp, Leiden University



Repair of Truncus Arteriosus with Interrupted Aortic

*Ralph S. Mosca, NYU Langone Medical Center

Mechanical Support in the Pediatric Population

Holger Buchholz, University of Alberta

ECMO: Decision Making, Preferred Components, Techniques

Peter D. Wearden, Children's Hospital of Pittsburgh

Implantation of the Berlin Heart

Michael Hübner, University of Zurich

Implantation of the Heartware Device

*Ivan M. Rebeyka, University of Alberta

3 Dimensional Imaging of the Complex Congenital Heart

Ajit Yoganathan, Georgia Institute of Technology

Impact of a 3D Model on Surgical Planning

*Glen Van Arsdell, Hospital for Sick Children

HANDS-ON SESSION 4:00 - 6:00 pm *Separate Registration Required*

GENERAL THORACIC SKILLS Implementing Innovation: What Future Leaders Need to Know

SATURDAY, APRIL 25, 2015 8:00 am - 3:30 pm

Course Chair: *Ara Vaporciyan, MD Anderson Cancer Center

Course Co-Chair: *Pascal Thomas, North University Hospital

This session will consist of multiple short talks addressing specific new techniques in lung and esophageal surgery. The focus of this session will be on the technical aspects as presenters address issues such as indications, contraindications, and expected outcomes.

Minimally Invasive Approaches to Diagnosis & Staging

*Ara A. Vaporciyan, MD Anderson Cancer Center

Navigational Bronchoscopy

Daniel S. Oh, University of Southern California

Radial Miniprobe TBLx

*Kazuhiro Yasufuku, Toronto General Hospital

Tips & Tricks for EBUS with TBNA

*David C. Rice, MD Anderson Cancer Center

NIR-SLN Mapping

*Yolonda L. Colson, Brigham & Women's Hospital

What Does a Mediastinal Node Dissection Look Like?

*Frank C. Dettterbeck, Yale University

VAMLA

*Gunda Leschber, ELK Berlin Chest Hospital

Treatment Small Non-palpable Lung Nodules

*Ara A. Vaporciyan, MD Anderson Cancer Center

Image-guided Microcoil with CT Wedge

*Richard Finley, University of British Columbia

Nuclear Guided Wedge

*K. Robert Shen, Mayo Clinic



Virtual Assisted Lung Mapping

Masaaki Sato, Kyoto University

iVATS

*Raphael Bueno, Brigham & Women's Hospital

Video ICG-guided Segmentectomy

Yasuo Sekine, Indiana University

SBRT of Pulmonary Lesions

Douglas J. Minnich, University of Alabama at Birmingham

FEATURED LUNCH

12:00 - 1:00 pm

Experiencing Atheer 3D Reality Glasses For Surgery Not for Credit
Sina Fateh & Allen Y. Yang, Atheer Labs

Endoscopic Esophageal Disease

Thomas K. Varghese, Jr., University of Washington

Chromoendoscopy, Endomicroscopy, OCT

Ross M. Bremner, St. Joseph's Hospital

EMR ESD

*Wayne L. Hofstetter, MD Anderson Cancer Center

RFA Cryo

*Daniel L. Miller, WellStar Healthcare System

POEM

Jon Wee, Brigham & Women's Hospital

Linx

Brian Louie, Swedish Cancer Institute

Endoscopic Anti-reflux

*Hiran C. Fernando, Boston Medical Center

Laparoscopic PEH Repair

*Virginia R. Little, Boston Medical Center

Stitch, Stents, & Clips

*Shanda H. Blackmon, Mayo Clinic

HANDS-ON SESSION 4:00 - 6:00 pm *Separate Registration Required*

For additional details regarding the presentations, abstracts, and authors, please visit www.aats.org/annualmeeting



ALLIED HEALTH PERSONNEL SYMPOSIUM

Advancing the Team Based Care Management Model in Cardiothoracic Surgery

SATURDAY APRIL 25

SATURDAY, APRIL 25, 2015 8:00 am - 3:30 pm

Course Chair: *Michael Acker, University of Pennsylvania

Course Co-Chair: Katherine Hoercher, Cleveland Clinic



This program provides up-to-date programming in a manner that enables physicians and all members of the cardiothoracic care team to examine their current state of delivering care, take into account the new information on cardiothoracic surgical therapies and change their practice to conform to both current evidence-based medicine and changes in health care policy.

Pay for Performance: ACOs, Bundled Payments in CV Care- Are You Ready?

PJ Brennan, University of Pennsylvania

Changing Paradigm of Cardiovascular Care: Service Line versus Departmental

*John G. Byrne, Brigham & Women's Hospital

The Role of the Nurse Navigator in Improving Outcomes & Patient & Family Satisfaction

Jo Anne Fante-Gallagher, University of Pennsylvania

Perfecting Transitions of Care

Patricia Hickey, Boston Children's Hospital

Transitioning from "Solution Shop" Model to "Focused Factory Model" in Cardiothoracic Surgery: The Expanded Role of RNs, PAs & NPs

David Cook, Mayo Clinic

Utilizing Registries & Guidelines in CV Care: Have They Improved Outcomes & Decreased Cost?

Amy Simone, Emory University

The New Priority: Decreasing Readmissions after Cardiothoracic Surgery: How Do We Get There?

Michael Z. Tong, Cleveland Clinic

Clinical & Practical Aspects of Establishing a Successful Structural Heart & Valve Clinic

Marci Damiano, Washington University

Early Extubation & Accelerated Recovery Protocols in Cardiac Surgery

*Glenn J. Whitman, Johns Hopkins Hospital

Postoperative Glucose Control & SCIP Measures

*Gorav Ailawadi, University of Virginia Health System

Emergent Management of Airway Complications in the OR & ICU

*Sudish C. Murthy, Cleveland Clinic

Risk Factors, Management, & Outcomes of Neurological Dysfunction after CT Surgery: ICU Delirium to Stroke

*Sidney Levitsky, Beth Israel Deconess Medical Center

Risk Factors & Management of Acute Renal Injury in CV Surgery

Robert S. Kramer, Maine Medical Center

Management of Acute Shock & Right Heart Failure

*Nader Moazami, Cleveland Clinic

Management of Infected Pleural Space/Empyema

*Michael T. Jaklitsch, Brigham & Women's Hospital

Management of Perioperative Atrial Fibrillation

*Stephen D. Cassivi, Mayo Clinic

Management of Postoperative Pleural & Pericardial Effusions

Eric Vallieres, Swedish Cancer Institute

Advances in Transfusion & Blood Conservation

Arman Kilic, Johns Hopkins Hospital

HANDS-ON SESSION 4:00 am - 6:00 pm *Separate Registration Required*

OPTIMAL THERAPIES FOR END - STAGE THORACIC ORGAN FAILURE

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

SATURDAY, APRIL 25, 2015 8:00 am - 3:30 pm

Course Chair: *R. Duane Davis, Jr., Duke University

Course Co-Chair: *Herman Reichenspurner, University Hospital Eppendorf



The surgical management of end-stage heart and lung failure has dramatically evolved over the past decade. Mechanical circulatory support as a therapy for end-stage heart failure continues to evolve with new technologies, improvements in management, treatment of complications and evolution of operative techniques allowing outcomes that are approximating those achieved with heart transplantation. More frequently, heart transplantation is occurring after mechanical circulatory support and following palliative procedures for congenital heart disease.

ECPR ECMO for Cardiogenic Shock: Patient Selection & Cannulation Strategies

Hiroo Takayama, Columbia University

How & When to Convert From Peripheral to Central Cannulation & Ambulatory VA ECMO

Mani A. Daneshmand, Duke University

Decision Making: Bridge to VAD, Transplant, Recovery or Oblivion

Evgenij V. Potapov, Deutsches Herzzentrum Berlin

Establishing an Emergency ECMO Deployment Program: The Who & How's

*Ahshish S. Shah, Johns Hopkins Hospital

Outcomes of ECMO for Cardiopulmonary Failure

Asok N. Babu, University of Colorado

Hub & Spoke Systems & Transport

*Matthew Bacchetta, Columbia University

ECMO for Respiratory Failure: When Should ECMO be Deployed in the Respiratory Failure Patient to Bridge to Recovery, Patient Selection, Cannulation, & Management?

Charles Hoopes, University of Kentucky

ECMO as Bridge to Lung Transplant - Ambulatory V/V & V/VA ECMO: How to do it & Building the Team

Christian M. Hagl, Munich University

Management of the Circuit, Critical Care & Complications

Michailis Varamis, Columbia University

Outcomes of ECMO for Respiratory Failure

*Matthew Bacchetta, Columbia University

ECMO/ MCS Finance 101: Managing the Changing Landscape - Program Needs & Health System Payments

Scott C. Silvestry, Washington University

How Do You Start an EVLP Program?

Thomas C. Wozniak, Corvasc MDS

The OCS-system for EVLP

*Avel Haverich, Hannover Medical School

Experience with the New Technologies & Minimally Invasive LVAD's

Jan D. Schmitto, Hannover Medical School

Alternative Surgical Approaches to Placement of VADs

Edwin Clyde McGee, Northwestern Memorial Hospital

When & How to Replace an LVAD

*Nader Moazami, Cleveland Clinic

Biventricular Support: Total Artificial Heart

*Francisco A. Arabia, Cedars Sinai, Los Angeles

Biventricular Support: Non-TAH Support

Jan F. Gummert, Klinik für Herzchirurgie

Initiation of DT LVAD Programs At Non-transplant Centers

Rohinton J. Morris, Abington Memorial Hospital

Primary Graft Dysfunction after Heart Transplant: Incidence, Predictors & Management

*Carmelo A. Milano, Duke University

Management of Vasoplegia in the Operating Room

Scott C. Silvestry, Washington University

ECMO vs. CPB for Intraoperative Support: How & What Do You Choose?

*Shaf Keshavjee, Toronto General Hospital

Transplant Regulation & Finance: What You Really Need to Know

*R. Duane Davis, Jr., Duke University

CMS/UNOS is Calling: How to Emerge from Regulatory Hell

*Christine L. Lau, University of Virginia

HANDS-ON SESSION 4:00 - 6:00 pm *Separate Registration Required*

AATS/STS ADULT CARDIAC SURGERY SYMPOSIUM

Decision Making in Adult Cardiac Surgery

CARDIAC

SUNDAY, APRIL 26, 2015 8:00 am – 5:00 pm**Course Chair:** *A. Marc Gillinov, Cleveland Clinic**Course Co-Chair:** *Robert Dion, Ziekenhuis Oost-Limburg*This program will present the latest data to guide decision-making in adults undergoing cardiac surgery. Throughout this session participants will learn how to offer the best operations in patients with coronary artery disease, aortic disease, mitral regurgitation & cardiac emergencies.***CABG**

Moderators:

*A. Marc Gillinov, Cleveland Clinic

*Craig R. Smith, Columbia University

When is CABG Clearly Superior to PCI?

*A. Pieter Kappetein, Erasmus MC

CABG & Arterial Grafts: How Many is Enough?

*Bruce W. Lytle, Cleveland Clinic

How to Maintain Outcomes & Quality in CABG

*Clifford W. Barlow, Southampton General Hospital

When to use Alternative Strategies: Hybrid, Connectors, Robot...

*John D. Puskas, Mount Sinai Beth Israel

AVR & Aorta

Moderators:

*Tirone E. David, Toronto General Hospital

*Robert A. Dion, Ziekenhuis Oost-Limburg

Debate: Mechanical or Bioprosthesis?

Mechanical: *Thierry-Pierre Carrel, University of Bern

Bioprosthesis: *Anelechi C. Anyanwu, Mount Sinai Medical Center

The Ascending Aorta with a Bicuspid Aortic Valve: Replace, Repair or Ignore

*Michael A. Borger, Columbia University

Repair for AI: Is it Durable?

*Gebrine El Khoury, Université Catholique de Louvain

How to Avoid Patient-prosthesis Mismatch

Philippe Pibarot, Laval University

AS: Open vs. TAVI vs. Nothing

*Wilson Y. Szeto, University of Pennsylvania

TEVAR for Dissection

*Eric E. Roselli, Cleveland Clinic

Mitral & Tricuspid Surgery: Lessons from New York State

*Joanna Chikwe, Mount Sinai Medical Center

MVR & AF

Moderators:

*Lawrence H. Cohn, Brigham & Women's Hospital

*A. Marc Gillinov, Cleveland Clinic

Avoid SAM

*Robert A. Dion, Ziekenhuis Oost-Limburg

Long-term Outcomes (Beyond Reop.) & Quality after MV Repair

*Rakesh M. Suri, Mayo Clinic

Ischemic MR: Repair or Replace?

*Michael A. Acker, University of Pennsylvania

Who Should Get a Mitraclip?

*Hermann Reichenspurner, University Hospital Eppendorf

AF Ablation: Which Operation?

*A. Marc Gillinov, Cleveland Clinic

Functional TR: When to Fix It

*James S. Gammie, University of Maryland

Cath Lab Catastrophes

*R. Duane Davis, Jr., Duke University

Cardiac Surgeon On Call

Moderators:

*Robert A. Dion, Ziekenhuis Oost-Limburg

*Bruce W. Lytle, Cleveland Clinic

Post-pump Failure

*Nicholas G. Smedira, Cleveland Clinic

Acute Aortic Dissection: Decision & Outcome

*Marc R. Moon, Washington University

Postinfarct VSD: Operate or Wait?

*Louis P. Perrault, Montreal Heart Institute

Traumatic Aortic Isthmus Rupture: Always an Emergency?

*Bartley P. Griffith, University of Maryland

**LEGENDS LUNCHEON**

12:00 – 1:00 pm

*Professor Sir Magdi Yacoub, Imperial College, London

AATS/STS CONGENITAL HEART DISEASE SYMPOSIUM

Unsettled and Unanswered Questions in Congenital Heart Surgery

CONGENITAL

SUNDAY, APRIL 26, 2015 8:00 am – 5:00 pm**Course Chair:** *Robert Jaquiss, Duke University**Course Co-Chair:** *Victor Tsang, Great Ormond Street Hospital*The AATS/STS Congenital Heart Disease Symposium will address a variety of unsettled issues in congenital heart surgery, present complex problems in surgical decision making with suggested solutions, and explore the ongoing challenges in management of patients with Fontan circulation. The course will also describe surgical approaches to malformations of the aortic and pulmonary valves.***Controversies & Debates**

Moderators:

*Robert D. Jaquiss, Duke University

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

Debate: Neonatal Aortic Stenosis Is a Surgical Disease

Pro: Viktor Hraska, German Pediatric Heart Centre

Con: Lee Benson, Hospital for Sick Children Toronto

Debate: Anomalous Aortic Origin of a Coronaries Artery is Always a Surgical Disease

Pro: *Pascal R. Vouhe, L'Université Paris Descartes

Con: *Ralph S. Mosca, NYU Lagone Medical Center

Debate: Larger Centers Produce Better Outcomes In Pediatric Cardiac Surgery - Regionalization Is a Superior Model

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

Con: Mark Danton, Royal Hospital Sick Children Hospital Glasgow

Getting Out of Trouble - Rescue - Tough Case Management

Moderator:

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

Expert Panelists:

*Scott M. Bradley, Medical University of South Carolina

*Charles D. Fraser, Texas Children's Hospital

Viktor Hraska, German Pediatric Heart Centre

*Victor T. Tsang, Great Ormond Street Hospital

Case One

*James S. Tweddell, Medical College of Wisconsin

Case Two

*Kirk R. Kanter, Emory University

Case Three

*Christopher A. Caldarone, University of Toronto



LEGENDS LUNCHEON

12:00 - 1:00 pm

*Professor Sir Magdi Yacoub, Imperial College, London

The Single Ventricular & Its Problems

Moderators:

*Fred A. Crawford, Jr., University of South Carolina

*Robert D. Jaquiss, Duke University

Lessons learned from the SVR Trial: Update at Three Years

*Richard G. Ohye, University of Michigan

The Relentless Effects of Fontan Paradox

Jack Rychik, Children's Hospital of Philadelphia

Transplantation for Fontan: Better than People Think

*Kirk R. Kanter, Emory University

Is "Four-stage Management" the Future for Univentricular Hearts?

-Destination Therapy in the Young

*Robert D. Jaquiss, Duke University

Outflow Valve Surgery in Children & Adults with Congenital Heart:

Part I: Pulmonary Valve & Aortic Surgery

Moderators:

*Robert D. Jaquiss, Duke University

*Victor T. Tsang, Great Ormond Street Hospital

Preservation of the Pulmonary Valve (Not Just the Annulus) in Repair of Tetralogy of Fallot

*Giovanni Stellin, University of Padova

Mechanical Pulmonary Valve Replacement

*Joseph A. Dearani, Mayo Clinic

Are Stented Bioprosthesis Appropriate for Aortic Valve Replacement in Young Patients

*Frank A. Pigula, Boston Children's Hospital

Transcatheter/Hybrid Aortic Valves in the Young

*Thomas Walther, Kerckhoff Clinic

Outflow Valve Surgery in Children & Adults with Congenital Heart: Part II: Aortic Valve Replacement

Moderators:

*Pedro J. del Nido, Boston Children's Hospital

*Victor T. Tsang, Great Ormond Street Hospital

Reinforced Ross Procedure

*Thierry-Pierre Carrel, University of Bern

When & How to Enlarge the Aortic Root

*Victor T. Tsang, Great Ormond Street Hospital

Mechanical AVR in the Young:

Lower Anticoagulation - Pregnancy - Novel Anticoagulants

*Hartzell V. Schaff, Mayo Clinic

Aortic Valve Repair in Teenagers & Young Adults: When to Do It & When Not to Do It

*Pedro J. del Nido, Boston Children's Hospital

AATS/STS GENERAL THORACIC SURGERY SYMPOSIUM

The Evolving Role of Thoracic Surgeons

THORACIC

SUNDAY, APRIL 26, 2015 8:00 am - 5:00 pm

Course Chair: *Gail E. Darling, Toronto General Hospital

Course Co-Chair: *Gaetano Rocco, National Cancer Institute



Lung cancer screening and its impact on thoracic surgeons will be discussed including surgical and nonsurgical management of small lung nodules. The role of surgery for N2 disease and T4 tumors will be critically evaluated.

Changing indications, management and complications of esophagectomy will be presented with emphasis on the importance of thoracic surgeons in the management of patients with esophageal cancer. In benign esophageal disease, techniques for management of achalasia will compare POEM to laparoscopic Heller Myotomy, while the utility of transthoracic hiatus hernia repair will be evaluated in the era of laparoscopic hiatal hernia surgery.

The changing role of thoracic surgeons in infectious disease will review the reduced need for surgery for management of empyema, the increasing role of surgery for management of mycobacterial disease and the role of ECMO for pneumonias.

Changes in health care economics and what surgeons need to know, will be explored through discussion of quality metrics and third party payers.

Lung Cancer: The Role of Surgeons in Diagnosis & Staging

Moderators:

*Gail E. Darling, Toronto General Hospital

*Gaetano Rocco, National Cancer Institute

Lung Cancer Screening: How to Set Up a Lung Cancer Screening

Program - How, Who, What Happens Next?

Betty C. Tong, Duke University

Lung Cancer Screening: Opportunity for Molecular Diagnosis?

Biomolecular Markers in Breath Samples & Plasma Based Biomarkers

*Jessica S. Donington, NYU Langone Medical Center

Minimally Invasive Diagnostic Techniques for Tissue

Diagnosis of Lung Lesions: Radial Miniprobe, Navigational

Bronchoscopy—Do We Need Percutaneous Biopsy?

*Kazuhiro Yasufuku, Toronto General Hospital

The Current Practice of Invasive Mediastinal Staging: EBUS, Mediastinoscopy,

Mediastinal Lymphadenectomy, VAMLA - Differences between Guidelines &

Reality: When is mediastinal Node Sampling not Indicated?

*Paul De Leyn, Catholic University Leuven

Gladiators - Who Should Be Responsible for the Initial Diagnosis & Staging

of Lung Cancer? Surgeons vs. Non-Surgeons: Competition or Collaboration?

*Malcolm M. DeCamp, Jr., Northwestern Memorial Hospital

*Moïse Liberman, Centre Hospitalier de l'Université de Montréal

Wedge Resection Is a Palliative Procedure for Lung Cancer

*Thomas A. D'Amico, Duke University

*Douglas E. Wood, University of Washington

Lung Cancer

Moderators:

*Joseph B. Shrager, Stanford University

*Dennis Wigle, Mayo Clinic

SBRT & Wedge Resection Are Equivalent Therapies for Early Stage Lung

Cancer & Oligometastatic Disease

*David C. Rice, MD Anderson Cancer Center

*Scott J. Swanson, Brigham & Women's Hospital

Surgeons & SBRT: How to Incorporate SBRT Into Your Practice

*Stephen R. Hazelrigg, Southern Illinois University

Ask the experts - Small Lung Nodules: What do They Really Do?

Moderator & Expert:

*Dennis Wigle, Mayo Clinic

Experts:

*Thomas A. D'Amico, Duke University

*Hiroshi Date, Kyoto University

*Frank C. Detterbeck, Yale University

Henrik Jessen Hansen, Rigshospitalet

Locally Advanced Lung Cancer - Complex Pulmonary Resections: Indications,

Evaluation, Technique, Tips & Tricks, & Results - Is it Worth the Risk?

Olaf Mercier, Marie Lannelongue Hospital

N2 - Current Evidence: Is There Role for Surgery? Is There a Role for

Postop Radiation for Surprise N2?

Linda W. Martin, University of Maryland

Surgery for Stage IIIA N2 is a Surgical Disease

*Philippe G. Dartevelle, Marie Lannelongue Hospital

*Frank C. Detterbeck, Yale University



LEGENDS LUNCHEON

12:00 - 1:00 pm

*Jean Deslauriers, Institut Universitaire De Cardiologie Et De Pneumologie de Québec, Canada

Surgery for Mycobacterial Disease - TB & Atypical TB: Increasing Role for Surgery, Relearning Old Lessons

*John D. Mitchell, University of Colorado

Infectious Problems in Thoracic Surgery

Moderator:

*Joseph B. Zwischenberger, University of Kentucky

Extracorporeal Lung Support for Pneumonia: Indications & Results

Marcelo Cypel, Toronto General Hospital

Post Pneumonic Empyema: Is There Still a Role for Surgery?

*M. Blair Marshall, Georgetown University

Does the Surgeon Have a Role in the Management of Early (HGD- T1a) Esophageal Cancer?

Brian E. Louie, Swedish Cancer Institute

Esophageal Disease

Moderators:

*Gail E. Darling, Toronto General Hospital

*Gaetano Rocco, National Cancer Institute

Surgery for Squamous Cell Cancer of the Esophagus: Only for Salvage or as Part of Combined Modality Therapy?

*Stephen G. Swisher, MD Anderson Cancer Center

T2 Esophageal Cancer: Does it Exist? Should You Give Preop Therapy?

*Traves D. Crabtree, Washington University

Rescue for Complications Post Esophagectomy: The Role of Early Diagnosis & Intervention

*Andrew C. Chang, University of Michigan

Primary Surgical Management of Esophageal Achalasia - POEM vs. Laparoscopic Myotomy

*Steven R. DeMeester, University of Southern California

Transthoracic Hiatal Hernia Repair: Of Historic Interest Only?

*Thomas K. Varghese, Jr., University of Washington

Why Quality Is the New Black

*Shaf Keshavjee, Toronto General Hospital

Thoracic Surgery - Metrics & Third Party Payers

Moderator:

*Claude Deschamps, University of Vermont

What the Surgeon Needs to Know About Databases: How They Can Help You or Hurt You

*Alessandro Brunelli, St. James's University Hospital

Outcome vs. Process Quality Indicators: What Is the Difference & How to Use Them

*Cameron D. Wright, Massachusetts General Hospital

Never Ever Events in Surgery

*Stephen D. Cassivi, Mayo Clinic

Ask the Experts - How to Practice Thoracic Surgery in the Pay for Quality Era

Moderator & Expert:

*Douglas E. Wood, University of Washington

Experts:

*Alessandro Brunelli, St. James's University Hospital

*Stephen D. Cassivi, Mayo Clinic

*Claude Deschamps, University of Vermont

*Shaf Keshavjee, Toronto General Hospital

*Cameron D. Wright, Massachusetts General Hospital



MONDAY, APRIL 27, 2015 7:20 am – 12:30 pm

BUSINESS SESSION AATS Members Only 7:20 – 7:30 am

Plenary Scientific Session

Moderators: *Pedro J. del Nido, *Joseph S. Coselli, & *Marc R. Moon

1. Outcomes of 3264 Thoracoabdominal Aortic Aneurysm Repairs

*Joseph S. Coselli, Baylor College of Medicine, Texas Heart Institute, Houston, TX

2. Late Survival & Right Ventricular Performance in 332 Matched Children: Classic Norwood-BT Shunt Versus Norwood-Sano Modification

Travis J. Wilder, Heart Surgeons Society Data Center, Toronto, ON, Canada

3. Randomized Trial of Digital Versus Analog Pleural Drainage in Patients With or Without a Pulmonary Air Leak after Lung Resection

Sebastien Gilbert, University of Ottawa, Ottawa, ON, Canada

4. Positive Impact of Concomitant Tricuspid Annuloplasty on Tricuspid Regurgitation, Right Ventricular Function, and Pulmonary Artery Hypertension after Degenerative Mitral Repair

*Joanna Chikwe, The Icahn School of Medicine at Mount Sinai, New York, NY

AWARD PRESENTATIONS



BASIC SCIENCE LECTURE

9:45 – 10:25 am

Donald E. Ingber, MD, PhD, Wyss Institute for Biologically Inspired Engineering at Harvard University

5. Transcoronary Infusion of Cardiac Progenitor Cells in Hypoplastic Left Heart Syndrome: 2.5-year Follow-up of the TICAP Trial

*Shunji Sano, Okayama University, Okayama, Japan

6. A Multicenter Propensity-score Analysis of 991 Patients With Severe Aortic Stenosis & Intermediate-high Risk Profile: Conventional Surgery versus Sutureless Valves versus TAVR

*Claudio Muneretto, University of Brescia Medical School, Brescia, Italy

NEW MEMBER INDUCTION



PRESIDENTIAL ADDRESS

11:25 – 12:15 am

Technological Innovation In Cardiothoracic Surgery: A Pragmatists Approach

*Pedro J. del Nido, Boston Children's Hospital

LUNCH IN THE EXHIBIT HALL 12:30 – 2:00pm

ETHICS FORUM LUNCH 12:30 – 2:00pm *Separate Registration Required*

Should a physician inform an innocent contact about HIV exposure, against state law?

Moderator: *Robert M. Sade, University of South Carolina, Charleston, SC

Pro: *Richard I. Whyte, Harvard University, Boston, MA

Con: Stephen F. O'Neill, Beth Israel Deaconess Medical Center, Boston, MA

CT RESIDENTS LUNCH 12:30 – 2:00pm

ADULT CARDIAC SURGERY Simultaneous Scientific Session

CARDIAC

MONDAY, APRIL 27, 2015 2:00 – 5:00 pm

Moderators: *John D. Puskas & *Leonard N. Girardi

7. Appropriate Patient Selection or Healthcare Rationing? Lessons from Surgical Aortic Valve Replacement in the PARTNER-I Trial

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

8. Prosthesis-Patient Mismatch in High Risk Patients with Severe Aortic Stenosis in a Randomized Trial of a Self-Expanding Prosthesis

George L. Zorn, III, University of Kansas, Kansas City, KS

9. Long-term Outcomes of the Cox-Maze IV procedure for Atrial Fibrillation

Timothy S. Lancaster, Washington University, St Louis, MO

10. Implications of Lesion Complexity on Process & Outcomes of Mitral Valve Repair for Degenerative Mitral Regurgitation

*Anelch C. Anyanwu, Mount Sinai Medical Center, New York, NY

11. A Contemporary Analysis of Pulmonary Hypertension in Patients Undergoing Mitral Valve Surgery: Is this a Risk Factor?

Daniel H. Enter, Northwestern, Chicago, IL

12. Transcatheter Valve-in-Valve Therapy using Five Different Devices in Four Anatomic Positions - Clinical Outcomes & Technical Considerations

Lenard Conradi, University Heart Center Hamburg, Hamburg, Germany

CONGENITAL HEART DISEASE Simultaneous Scientific Session

CONGENITAL

MONDAY, APRIL 27, 2015 2:00 – 5:00 pm

Moderators: *Carl L. Backer, *Emile A. Bacha, *Mark S. Bleiweis, & *Pirooz Eghtesady

13. Outcomes Following Simple & Complex (Damus-Kaye-Stansel Takedown) Ross Operations in 58 Consecutive Pediatric Patients

Alejandra Bueno, Boston Children's Hospital & Harvard Medical School, Boston, MA

14. Ultra Long Term Outcomes in Adult Survivors of Tetralogy of Fallot & the Effect of Pulmonary Valve Replacement

Richard Dobson, Scottish Adult Congenital Cardiac Service, Glasgow, United Kingdom

15. Long-Term Mortality after the Fontan Operation: Twenty Years of Experience at a Single Center

Tacy E. Downing, The Children's Hospital of Philadelphia, Philadelphia, PA

16. Long-term Outcomes after First-onset Arrhythmia in Fontan Physiology

Yves d'Udekem, The Royal Children's Hospital, Parkville, VIC, Australia

Moderators: Emile A. Bacha & Mark S. Bleiweis

17. The Impact of Non-cardiac & Genetic Abnormalities on Outcomes Following Neonatal Congenital Heart Surgery

*Bahaaldin Alsoufi, Emory University, Atlanta, GA

18. Health-Related Quality of Life in Adult Survivors after the Fontan Operation

*James K. Kirklin, University of Alabama at Birmingham, Birmingham, AL

19. Aortic Dilatation is Not Associated with Aortic Valvulopathy in Patients with Bicuspid Aortic Valve

Byron K. Yip, Northwestern University, Chicago, IL

*AATS Member



MONDAY, APRIL 27, 2015 2:00 – 5:00 pm
Moderators: *David J. Sugarbaker & *Jay M. Lee

20. Multimodality Therapy for Locally Advanced Thymomas: A Cohort Study of Prognostic Factors from a European Multicentric Database
Giovanni Leuzzi, Regina Elena National Cancer Institute - IFO, Rome, Italy

21. Giving Induction Radiation in Addition to Chemotherapy Does Not Improve Survival of Non-Small Cell Lung Cancer Patients with Operable Mediastinal Nodal Disease
Chi-Fu Jeffrey Yang, Duke University, Durham, NC

22. The Impact of Adjuvant Chemotherapy in Pulmonary Large Cell Neuroendocrine Carcinoma: Results of an International Multi-Institutional Propensity Score-Adjusted Cohort Study on behalf of the European Society Of Thoracic Surgeons Neuroendocrine Tumors Working
Pier Luigi Filosso, University of Torino Italy, Torino, Italy

23. Validation Study of the Proposed IASLC/ITMIG Staging Revisions of the Thymic Carcinoma Using Data from 287 Patients
Yang Zhao, Shanghai Chest Hospital, Shanghai, China

24. Routine VTE Screening after Pneumonectomy: You Must Look to Find
Siva Raja, Cleveland Clinic, Cleveland, OH

25. Accelerated Hemithoracic Radiation followed by Extrapleural Pneumonectomy for Malignant Pleural Mesothelioma
*Marc De Perrot, Toronto General Hospital & Princess Margaret Hospital, Toronto, ON, Canada

26. Is Surgical Resection Justified for Myasthenia Gravis? Long-term Results in Over 1000 Cases
Andrew Kaufman, Icahn School of Medicine, Mount Sinai Health System, New York, NY

PERIOPERATIVE CARE Simultaneous Scientific Session

MONDAY, APRIL 27, 2015 2:00 – 5:00 pm
Moderators: *Glenn J. Whitman & Katherine J. Hoercher

27. Modified Perioperative Management Improves the Early Outcomes in Hemodialysis Patients Undergoing Cardiac Surgery
Hiroyuki Tsukui, Tokyo Women's Medical University, Tokyo, Japan

28. Preoperative Anemia versus Blood Transfusion: Which is the Culprit for Worse Outcomes in Cardiac Surgery?
Damien J. LaPar, University of Virginia, Charlottesville, VA

29. The Use of Humidified CO2 with a Novel Diffuser to Prevent Air Embolism in Open Heart Surgery
Adam El-Gamel, Waikato Hospital, Hamilton, New Zealand

30. How Detrimental is Reopening for Bleeding after Cardiac Surgery? Analysis from 16,793 Cases
*Marc Ruel, University of Ottawa, Ottawa, ON, Canada

31. Use of Cumulative Data in Funnel Plots to Evaluate Performance Improvement in Cardiac Surgery
*James R. Edgerton, The Heart Hospital Baylor Plano, Plano, TX

32. Postoperative Delirium Increases Both Operative & One Year Mortality in Patients Treated with Surgical or Transcatheter Aortic Valve Replacement
*Hersh Maniar, Washington University, Saint Louis, MO

33. A Novel Score to Estimate the Risk of Pneumonia After Cardiac Surgery
Arman Kilic, Johns Hopkins Hospital, Baltimore, MD

34. Is Carotid Revascularization Necessary Before Cardiac Surgery?
Molly Schultheis, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ

35. Preoperative Pulmonary Function Tests Consistently Predict Mortality After Surgical or Transcatheter Aortic Valve Replacement
Matthew C. Henn, Washington University, St Louis, MO

36. Use of Psoas Muscle Size as a Frailty Assessment Tool for Open & Transcatheter Aortic Valve Replacement
*Himanshu J. Patel, University of Michigan Medical School, Ann Arbor, MI

18TH ANNUAL C. WALTON LILLEHEI RESIDENT FORUM

MONDAY, APRIL 27, 2015 5:00 – 6:30 pm
Chairs: *Todd K. Rosengart & *Joseph B. Zwischenberger

L1. GRK2 Inhibition Reduces Post-Myocardial Infarction Cardiac Fibroblast Mediated Adverse Remodeling
Jennifer L. Philip, University of Wisconsin, Madison, WI

L2. Ribosomal Dysfunction Results in Immunologic Susceptibility to Lung Cancer
Stephanie H. Chang, Washington University, St Louis, MO

L3. Bone Marrow-Derived Mesenchymal Stem Cells Attenuate Right Ventricular Remodeling & Preserve Function in Neonatal Swine
Brody Wehman, University of Maryland, Baltimore, MD

L4. Ex Vivo Lung Perfusion with Adenosine A2A Receptor Agonist Decreases Ischemia-Reperfusion Injury in Non-Heart-Beating Donor Lungs Subjected to Prolonged Cold Preservation
Cynthia E. Wagner, University of Virginia, Charlottesville, VA

L5. An Annexin V Homo-dimer Protects against Ischemia Reperfusion Induced Acute Lung Injury in Lung Transplantation
Kohei Hashimoto, University of Toronto, Toronto, ON, Canada

L6. Beneficial Role of Antigen Commensalism in Mesothelin-Targeted T-cell Therapy for Lung Adenocarcinoma
Adam Jason Bograd, New York University Medical Center, New York, NY

L7. Impact of Aortic Annular Geometry on Aortic Valve Insufficiency: Insights from a Pre-clinical, Ex-vivo, Porcine model
Talal Al-Atassi, University of Ottawa, Ottawa, ON, Canada

L8. Creation of a Novel Endosymbiotic System for Photon Powered Myocardium in the Ischemic Heart
Jeffrey E. Cohen, Stanford University, Stanford, CA

For additional details regarding the presentations, abstracts, and authors, please visit www.aats.org/annualmeeting



CARDIAC SURGERY FORUM

TUESDAY, APRIL 28, 2015 7:00 – 8:40 am

Moderators: *Frederick Y. Chen & *Juan A. Crestanello

F1. Intraventricular Papillary Muscle Banding is an Effective Technique to Repair Ischemic Mitral Regurgitation in Dilated Ventricles: comparison with annuloplasty in a chronic swine model
Muralidhar Padala, Emory University, Atlanta, GA

F2. Injectable Shear-thinning Hydrogels Deliver Endothelial Progenitor Cells, Enhance Cell Engraftment, Increase Vasculogenesis, & Stabilize regional Ischemic Myocardium
Ann C. Gaffey, University of Pennsylvania, Philadelphia, PA

F3. Transesophageal versus Transcranial Motor Evoked Potentials to Monitor Spinal Cord Ischemia
Kazumasa Tsuda, University School of Medicine, Hamamatsu, Japan

F4. Inhibition of microRNA-29c Induces Cerebroprotection in a Rat Model of Prolonged Deep Hypothermic Circulatory Arrest by Targeting PGC-1 α
Tianxiang Gu, First Hospital of China Medical University, Shenyang, China

F6. Small Platform Catheter-based Left Ventricular Assist Device Support Suppresses Cardioprotective Beta-arrestin-Mediated Signal Transduction
Keshava Rajagopal, University of Maryland, Baltimore, MD

F7. Differential Regulation of Intracellular Calcium Homeostasis Between Sevoflurane Postconditioning & Delayed Remote Ischemic Preconditioning in an Isolated Rat Heart Model
Yang Yu Fuwai, Cardiovascular Hospital, Beijing, China

F8. Multidisciplinary Histological & Mechanical Study of Aortic Aneurysm to Investigate Potential Parameters for Early Diagnosis of High Risk of Rupture.
Pasquale Totaro, IRCCS Foundation Hospital San Matteo, Pavia, Italy

F9. Improvements in the Electrospun Polycarbonate-urethane Vascular Graft by Effective Surface Modification
Xuefeng Qiu, Huazhong University, Wuhan, China; 2University of California, Berkeley, Berkeley, CA

F10. Preventing Allogeneic Immune Rejection by Transplanting MHC-homo Induced Pluripotent Stem Cell-derived Cardiomyocytes to an MHC-matched Non-human Primate
Takaji Kawamura, Osaka University, Osaka, Japan

GENERAL THORACIC SURGERY FORUM

TUESDAY, APRIL 28, 2015 7:00 – 8:40 am

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

F11. CD8+ T Cells Contribute to Lung Cancer Progression in a PD-1 Dependent Fashion
Stephanie H. Chang, Washington University, St Louis, MO

F12. Repair of Large Tracheal Defects Using a Bioengineered Neotrachea in a Porcine Model
Adnan M. Al-Ayoubi, Mount Sinai Hospital, New York, NY

F13. Pulmonary Venous Blood Sampling Significantly Increases the Yield of Circulating Tumor Cells in Early Stage Lung Cancer
Rishindra M. Reddy, University of Michigan, Ann Arbor, MI

F14. A Novel Large Animal Model of Acute Respiratory Distress Syndrome induced by Mitochondrial Products.
Pablo G. Sanchez, University of Maryland, Baltimore, MD

F15. High Expression of HOXC6 & HOXC8 Predicts Poor Prognosis of Patients with Esophageal Squamous Cell Carcinoma (ESCC) & Promotes Tumorigenesis through Their Positive Effect on Cell Proliferation
Keneng Chen, Key Laboratory of Carcinogenesis & Translational Research, Beijing, China

F16. Intraoperative Molecular Imaging of Pre-treated Mediastinal Tumors is Feasible
Jane Keating, University of Pennsylvania, Philadelphia, PA

F17. Rapamycin Prevents Bronchiolitis Obliterans Through Increasing Regulatory B Cells Infiltration in A Murine Tracheal Transplantation Model
Yunge Zhao, University of Virginia, Charlottesville, VA

F18. AP-1 Inhibitor (SR11302) Inhibits Metastatic Lesion Formation in Ex Vivo 4D Lung Cancer Model
Min P. Kim, Houston Methodist, Houston, TX

F19. Therapeutic Implications & Prognostic Significance of c-Met in Esophageal Squamous Cell Cancer
*Ching Tzao, Taipei Medical University, Taipei, Taiwan

F20. Lysyl-like oxidase 2 (LOXL2) is an Oncogenic Driver of Malignancy Regulated by miR-145 in Tobacco-Associated Esophageal Adenocarcinomas
Shakirat Oyetunji, National Institute of Health, Bethesda, MD

ADULT CARDIAC EMERGING TECHNOLOGIES AND TECHNIQUES FORUM

TUESDAY, APRIL 28, 2015 7:00 – 8:40 am

Moderator: *Y. Joseph Woo

Novel-Transcatheter Technologies
*Vinod H. Thourani, Emory University, Atlanta, GA

T1. Early Clinical Results of Transapical Mitral Valve Replacement for Mitral Regurgitation
Anson Cheung, St. Paul's Hospital, Vancouver, BC, Canada

T2. Xenoantigenicity of Porcine Decellularized Valves
Meghana R.K. Helder, Mayo Clinic, Rochester, MN

T3. Less Invasive Surgical Treatment for Acute Type A Aortic Dissection Involving the Arch In High- Risk Patients: A Comparative Study of Hybrid Total Arch Repair & Conventional Total Arch Replacement
Qian Chang, National Heart Center & Fuwai Hospital, Beijing, China

T4. Five Years Clinical Outcome of Endoscopic Versus Open Radial Artery Harvesting: A Propensity-score Analysis
Gianluigi Bisleri, University of Brescia Medical School, Brescia, Italy

T5. Point-of-View Video Streaming Promotes Enhanced Resident Surgeon Training & Assessment while Maintaining Quality Assurance & Patient Care
Andrew C.W. Baldwin, Baylor College of Medicine, Houston, TX

T6. Enabling Minimally Invasive Atraumatic Repair of Intracardiac Septal Defects with Light
Assunta Fabozzo, Boston Children's Hospital & Harvard Medical School, Boston, MA

Cutting Edge Mechanical Circulatory Support Technology
*William E. Cohn, Texas Heart Institute, Houston, TX

VIDEO SESSION

TUESDAY, APRIL 28, 2015 7:00 – 8:40 am

Moderators: *Song Wan, & Viktor Hraska

V1. A Novel Technique of Aortic Root Reconstruction for Extensive Endocarditis: The Pericardial Skirt Technique
Kiyoshi Doi Kyoto, Prefectural University, Kyoto, Japan

V2. Use of Fluorescence Imaging to Define the Intersegmental Plane during Robotic Segmentectomy
*David C. Rice, University of Texas, Houston, TX

V3. A Successful Case of Staged Fontan Operation for a Right Atrial Isomerism Patient with Pulmonary Atresia/MAPCAs, Complicated with Obstructed Supra-cardiac Total Anomalous Pulmonary Venous Connection
Yujiro Ide, Mt. Fuji Shizuoka Children's Hospital, Shizuoka City, Japan

V4. Fluorescence-Guided Placement of an Endo-Aortic Balloon Occlusion Device for Totally Endoscopic Robotic Mitral Valve Repair
David W. Yaffee, New York University, New York, NY

CARDIAC

THORACIC

CARDIAC

VIDEOS

V5. Laparoscopic Transdiaphragmatic Thymectomy

*Rafael Andrade, University of Minnesota, Minneapolis, MN

V6. New Technique for Reconstruction of the Sternum and Diaphragm in Pentology of Cantrell

Renato S. Assad, Hospital Samaritano Sao Paulo, Sao Paulo, Brazil

V7. Repair of Isolated Sinus of Valsalva Aneurysm Causing Right Ventricular Outflow Tract Obstruction

Basel Ramlawi, Houston Methodist DeBakey Heart & Vascular Center, Houston, TX

V8. Robot Assisted First Rib Resection

Raghav Murthy, University of Texas Southwestern, Dallas, TX

V9. Overlapping LV Plasty for AVSD with Progressive Severe Cardiac Dysfunction in Early Infancy

Mitsuru Sato, Children's Hospital, Sendai, Japan

V10. Aortic Valve Reconstructions For Aortic Stenosis with Autologous Pericardium

Yoshito Inoue, Hiratsuka City Hospital, Hiratsuka, Kanagawa, Japan

GENERAL THORACIC EMERGING TECHNOLOGIES AND TECHNIQUES FORUM**TUESDAY, APRIL 28, 2015 7:00 – 8:40 am**

Moderators: *Stephen R. DeMeester & *Shanda H. Blackman

T7. Comparison of Microwave Ablation & Radiofrequency Ablation Therapy for Nonsurgical Lung Malignancies

Qiang Lu, The Fourth Military Medical University, Xi'an, China

Interventional Management of Lung Cancer**T8. Efficacy & Safety of Novel Modified Nuss Procedure for Pectus Excavatum with A New Steel Bar**

Ju Mei, University School of Medicine, Shanghai, China

T9. Easy & Safe Visualizing Method for Creating Intersubsegmental Plane by Bronchial Closure using Slip-Knot in Thoracoscopic Lung Anatomical Subsegmentectomy

Hirohisa Kato, Yamagata University, Yamagata-shi, Japan

T10. Near Infrared (NIR) Image-Guided Lymphatic Mapping to Determine the Extent of an Adequate Lymphadenectomy in Early Stage Esophageal Cancer

Krista J. Hachey, Brigham & Women's Hospital, Boston, MA

Image-Guided Thoracic Surgery

*Raphael Bueno, Brigham & Women's Hospital, Boston, MA

T11. Endobronchial Treatment for Pneumothorax With Ongoing Air Leak By Using Intra Bronchial Valve (IBV) System

Eitan Podgaetz, University of Minnesota, Minneapolis, MN

T12. Successful 3D Printing of a Biologic Trachea

Faiz Y. Bhora, Mount Sinai St. Luke's Hospital & Mount Sinai Roosevelt Hospital, New York, NY

T13. Single Port Video-assisted Thoracoscopic Thymectomy

Hyun Koo Kim, Korea University Guro Hospital, Seoul, Republic of Korea

T14. Pneumonectomy for Locally Advanced Non-small-cell Lung Cancer after Neoadjuvant Concurrent Chemo-radiation Therapy

Kazunori Okabe, Ube Medical Center, Ube, Japan

VAD / ECMO SESSION**TUESDAY, APRIL 28, 2015 7:00 – 8:40 am**

Moderators: *Michael A. Acker & *Anelechi C. Anyanwu

37. Concomitant Aortic Valve Repair in Patients Undergoing Continuous-flow Left Ventricular Assist Device Placement: A 10-year Experience & Clinical Implications

Shinichi Fukuhara, Columbia University, New York, NY

38. A Novel & Validated Practical Risk Score to Predict the Need for Right Ventricular Assist Device at the Time of Continue-Flow Left Ventricular Assist Device Implantation

Steve K. Singh, Baylor College of Medicine, Houston, TX

39. Ipsilateral Lower Extremity Complications in Patients Undergoing Emergent Common Femoral Arteriovenous Extracorporeal Membrane Oxygenator Therapy

Prashanth Vallabhajosyula, University of Pennsylvania, Philadelphia, PA

40. A Decade of Experience with Over 300 Continuous-Flow Left Ventricular Assist Devices at a Single Center

*Ranjit John, University of Minnesota, Minneapolis, MN

41. Risk Factors for Development of Tricuspid Regurgitation post Heart Transplantation & Long-term Outcome of Tricuspid Valve Surgery

Anja Claudia Baier, Deutsches Herzzentrum Berlin, Berlin, Germany

42. A Multi-Institutional Comparison of Adverse Events in Contemporary Continuous-Flow Left Ventricular Assist Devices: Do Significant Differences Exist?

John M. Stulak, Mayo Clinic, Rochester, MN

43. Impact of Periportal Fibrosis without Cirrhosis on Outcome Following continuous Flow Left Ventricular Assist Device Implantation

Jonathan E. Sargent, University of Washington, Seattle, WA

44. Severe Pulmonary Hypertension in Patients Undergoing Leftventricular Assist Device Insertion as Bridge to Transplant

Masaki Tsukashita, New York Presbyterian Hospital/Columbia University, New York, NY

45. Lung Transplantation & Concomitant Cardiac Surgery: Is It Justified?

Reshma M. Biniwale, University of California, Los Angeles, CA

AATS Guidelines: Bridge to Transplant & Extracorporeal Lung Support

*Marcelo Cypel, Toronto General Hospital, Toronto, ON, Canada

PLENARY SCIENTIFIC SESSION**TUESDAY, APRIL 28, 2015 8:45 am – 12:30 pm**

Moderators: *Pedro J. del Nido, *Joseph s. Coselli & *Marc R. Moon

46. Long-term Survival, Valve Durability, & Reoperation for Four Aortic Root Procedures

*Lars G. Svensson, Cleveland Clinic, Cleveland, OH

47. Long-term Clinical Outcome & Performance of Pulmonary Valve Replacement with Bioprosthetic Valves in Patients with Congenital Heart Disease

Rio S. Nomoto, Boston Children's Hospital & Harvard Medical School, Boston, MA

48. Adjuvant Radiation is Not Associated with Improved Survival in Patients with Positive Margins Following Lobectomy for Stage I & II Non-Small Cell Lung Cancer

Brian C. Gulack, Duke University, Durham, NC

49. Should Asymptomatic Patients Discharged with Lower Hemoglobin Expect Worse Outcomes After Valve Surgery?

*Niv Ad, Inova Heart & Vascular Institute, Falls Church, VA

AWARD PRESENTATIONS**50. Resident versus Attending Surgeon Patency & Clinical Outcomes in On- versus Off-pump Coronary Artery Bypass Surgery**

G. Hossein Almassi, Medical College of Wisconsin, Milwaukee, WI

51. Incidence & Implications of Postoperative Supraventricular Tachycardia Following Pulmonary Lobectomy

*Brendon M. Stiles, Weill Cornell Medical College, New York-Presbyterian Hospital, New York, NY

52. What is a "Good" Result after Transcatheter Mitral Repair? Impact of 2+ Residual Mitral Regurgitation

Nicola Buzzatti, San Raffaele Scientific Institute, Milan, Italy

LUNCH IN THE EXHIBIT HALL 12:30 – 2:00pm**HONORED GUEST LECTURE**

11:40 am – 12:30 pm

Three Ideas About Changing Things

Colonel Casey Haskins, BLK SHP INNOVATIONS

TUESDAY, APRIL 28, 2015 12:45 – 2:00 pm

Adult Cardiac Moderated Poster Competition
Moderator: *Ralph J. Damiano, Jr.

P1. David vs. Goliath: Valve-Sparing Root Replacement Improves Outcomes Compared to Bentall Procedures in Patients with Aortic Root Dilatation
Maral Ouzounian, University of Toronto, Toronto, ON, Canada

P2. Should We Repair Moderate to Severe Tricuspid Regurgitation during Reoperative Left Sided Valve procedures?
Igor Gosev, Brigham & Women's Hospital, Boston, MA

P3. Off-Pump versus On-Pump Coronary Artery Bypass Grafting in Patients With Left Ventricular Dysfunction :Analysis of 918 Matched-Pairs
Chikara Ueki, Shizuoka General Hospital, Shizuoka, Japan

P4. Comparison of Clinical Efficacy Between Batrial Epicardial Application of Drug-Releasing Adhesive Hydrogels to Prevent Postoperative Atrial Fibrillation
William Wang, Scripps Memorial Hospital, La Jolla, CA

P5. Amiodarone after Surgical Ablation for Atrial Fibrillation – Is It Really Necessary? A Prospective Randomized Controlled Trial
*Niv Ad, Inova Heart and Vascular Institute, Falls Church, VA

P6. Surgical Treatment of HOCM In Patients with Extreme Hypertrophy, Septal Myocardial Fibrosis & Ventricular Tachycardia
Konstantin Borisov, German-Russian Cardiac Clinic, Moscow, Russian Federation

P7. Ten-Year Follow Up after Prospectively Randomized Evaluation of Stentless Aortic Valve versus Stented Aortic Valve Replacement
Adam El-Gamel, Waikato Hospital, Hamilton, New Zealand

P8. Plenary Presentations & Public Citations from the American Association for Thoracic Surgery
Yusuke Terasaki, Weill Cornell Medical College, New York
Presbyterian Hospital, New York, NY

P9. Does Grafting Coronary Arteries with Only Moderate Stenosis Affect Long-term Mortality?
*Joseph F. Sabik, III, Cleveland Clinic, Cleveland, OH

P10. Surgical Outcomes of Jehovah's Witness Patients Requiring Complex Cardiac Surgery
Akiko Tanaka, University of Chicago, Chicago, IL

P11. Long-term Clinical Outcomes of Mitral Valve Replacement with the Hancock II Bioprosthesis
Mitesh V. Badiwala, University of Toronto, Toronto, ON, Canada

P12. Restoration of Sinus Rhythm & Atrial Transport Function after the Maze Procedure: Box-lesion versus U-lesion Set
*Takashi Nitta, Nippon Medical School, Tokyo, Japan

Congenital Heart Disease Moderated Poster Competition
Moderator: *Richard G. Ohye

P13. Outcomes of Heart Transplantation in Children with Hypoplastic Left Heart Syndrome Previously Palliated with the Norwood Procedure
*Bahaaldin Alsoufi, Emory University, Atlanta, GA

P14. Burden of Potentially Pathologic Copy Number Variants is Higher in Children with Isolated Congenital Heart Disease & Significantly Impairs Covariate-adjusted Long-term Survival
Daniel Seung Kim, University of Washington, Seattle, WA

P15. Intramural Coronary Arteries are Not a Risk for Mortality in the Arterial Switch Operation
Tyson A. Fricke, Royal Children's Hospital, Melbourne, Australia

P16. The Surgical Treatment of Atrial Isomerism: Single Center Experience of 353 Cases
*Hajime Ichikawa, National Cerebral & Cardiovascular Center, Suita, Japan

P17. The Impact of Age at Cavo-Pulmonary Shunt (Stage II) on Outcome after the Norwood Procedure. Importance of Elective versus Non-Elective Intervention.
Adrian Crucean, Birmingham Children's Hospital, Birmingham, United Kingdom

P18. More Than Repair The Valve - Effect of Cone Reconstruction on Right Ventricle Remodeling in Patients with Ebstein Anomaly: A CMR Study
Qi An, West China Hospital, Chengdu, China

P19. Mild to Moderate Residual LVOTO may Stop Or Reverse The Progression Of Systemic Right Ventricle Remodeling Process In Adult CCTGA Patients after Physiological Repair

Fucheng Xiao, Union Medical College & Chinese Academy of Medical Sciences, Beijing, China

P20. What is the Procedure Impact on Ventricular Outflow Tract Hemodynamics & Reintervention in Patients with Complex Transposition?
Mohammed K. Al-Jughman, Hospital for Sick Children, Toronto, ON, Canada

P21. Increasing Complexity of Heart Transplantation in Patients With Congenital Heart Disease
William Y. Shi, Royal Children's Hospital, Parkville, Australia

P22. Bicuspid Aortic Valve Morphology: Does the Pattern of Leaflet Fusion Determine the Success of the Ross Procedure?
Mark Ruzmetov, Children's Hospital of Illinois, Peoria, IL

P23. Durable Ventricular Assist Device Support for End-stage Heart Failure: An Extended Role in Pediatric & Congenital Population
Ed Peng, Freeman Hospital, Newcastle Upon Tyne, United Kingdom

P24. Improving Outcomes with the Comprehensive Stage 2 Procedure after an initial Hybrid Stage 1 Palliation
*Mark E. Galantowicz, Nationwide Children's Hospital, Columbus, OH

General Thoracic Moderated Poster Competition
Moderator: *Michael J. Liptay

P25. Early Initiation of Oral Feeding Following Thoracoscopic Esophagectomy for Cancer: Interim Results from a Randomized Controlled Trial
Yin Li, Zhengzhou University, Zhengzhou, China

P26. Outcome of the Joint Council of Thoracic Surgery Education's Early Review Course Project
*Mark Allen, Mayo Clinic, Rochester, MN

P27. A Gene Expression Profile Based Test to Predict Neoadjuvant Chemoradiation Response in Esophageal Adenocarcinoma Patients
Weiwei Shan, Castle Biosciences, Friendswood, TX

P28. Metformin Exposure is Associated with Improved Survival in Early-Stage Non-Small Cell Lung Cancer Patients
Robert A. Medeiros, Rush University, Chicago, IL

P29. Post-Induction PET Mediastinal Activity Does Not Predict Persistent Nodal Disease or Overall Survival in Patients with Stage IIIA-N2 Lung Cancer
R. Taylor Ripley, Memorial Sloan-Kettering Cancer Center, New York, NY

P30. Should Lobectomy be Performed when Unsuspected pN2 Disease is Found at the Time of Planned Lung Cancer Resection? A National Cancer Data Base Analysis
Chi-Fu Jeffrey Yang, Duke University, Durham, NC

P31. Does Neoadjuvant Chemoradiation Followed by Pneumonectomy Provide Better Long-term Survival in Patients with NSCLC?
Cengiz Gebitekin, Uludag University, Bursa, Turkey

P32. Prophylactic Mass Ligation of the Thoracic Duct During Esophagectomy is Associated with a Higher Rate of Chylothorax Than Explicit Identification & Ligation of the Thoracic Duct
Yifan Zheng, Brigham & Women's Hospital, Boston, MA

P33. Pulmonary Function Changes after VATS Lobectomy Versus Limited Resection for Early Stage Lung Cancers
Zhitaog Gu, Shanghai Chest Hospital, Shanghai, China

P34. The Incidence & Burden of Venous Thromboembolism after Major Lung Resection: A Prospective Cohort Analysis
Yaron Shargall, McMaster University, Hamilton, ON, Canada

P35. Long-term Survival Advantage of Double Lung Transplantation in Patients with Secondary Pulmonary Hypertension
Joshua C. Grimm, Johns Hopkins University, Baltimore, MD

P36. Perforated Esophageal Intervention Focus (PERF) Study: A Multi Center Study of Contemporary Treatment
Rob Rice, University of Texas, Houston, TX



ADULT CARDIAC SURGERY Simultaneous Scientific Session

CARDIAC

TUESDAY, APRIL 28, 2015 2:00 – 5:35 pm

Moderator: *Thoralf M. Sundt, III

53. Multiple Arterial Bypass Grafting Should Be Routine

Robert F. Tranbaugh, Mount Sinai Beth Israel, New York, NY

54. Are all Forms of Total Arterial Revascularisation Equal? A Comparison of Single Versus Bilateral Internal Thoracic Artery Grafting Strategies

William Y. Shi, University of Melbourne, Melbourne, Australia

55. Complete Revascularization Improves Survival in Octogenarians

Spencer J. Melby, Washington University, Saint Louis, MO

56. Full Myocardial Revascularization Purely with Bilateral Internal Thoracic Arteries: Effects on Late Survival, Analysis of 3757 Patients

*Daniel O. Navia, Instituto Cardiovascular de Buenos Aires, Buenos Aires, Argentina

57. Non-Selective Carotid Artery Ultrasound Screening in Patients Undergoing Coronary Artery Bypass Grafting: Is It Necessary?

Khalil Masabni, Cleveland Clinic, Cleveland, OH

58. A 20-year Experience with Isolated Pericardiectomy: Analysis of Indications & Outcomes

Erin A. Gillaspie, Mayo Clinic, Rochester, MN

59. Early & late Surgical Outcomes of Infective Endocarditis among Intravenous Drug Abusers: Results from Two Large Academic Centers

Joon Bum Kim, Massachusetts General Hospital, Harvard Medical School, Boston, MA

AATS Guidelines: Ischemic Mitral Valve Regurgitation

*Irving L. Kron, University of Virginia, Charlottesville, VA

EXECUTIVE SESSION AATS Members Only

CONGENITAL HEART DISEASE Simultaneous Scientific Session

CONGENITAL

TUESDAY, APRIL 28, 2015 2:00 – 5:35 pm

Moderators: *Jonathan M. Chen, *Charles B. Huddleston, & *Michael E. Mitchell

60. Hybrid Therapy for the Hypoplastic Left Heart Syndrome - Myth, Alternative or Standard?

Can Yerebakan, Pediatric Heart Center Giessen, Giessen, Germany

61. Selective Management Strategy for Neonates with Interrupted Aortic Arch Mitigates Future Left Ventricular Outflow Tract Obstruction Risk

*Bahaaldin Alsoufi, Emory University, Atlanta, GA

62. Impact of Pacing on Left Ventricular Function in L-Transposition of the Great Arteries

Sophie C. Hofferberth, Boston Children's Hospital, Harvard Medical School, Boston, MA

63. Comparison between Two Surgical Techniques to Repair Total Anomalous Pulmonary Venous Connection at a Single Institute: 81 Cases with Sutureless Technique versus 98 Cases with Traditional Technique

Yiqun Ding, Guangdong General Hospital, Guangzhou, China

64. Characterization & Outcomes of Severe Primary Multi-Vessel Pulmonary Vein Stenosis in Low-Birth Weight Infants

Ashley Dickens, Boston Children's Hospital, Harvard Medical School, Boston, MA

Moderators: *E. Dean McKenzie & *Michael E. Mitchell

65. Pre Operative Predictors of Survival after Repair of Pulmonary Vein Stenosis

Mauro Lo Rito, Hospital For Sick Children, Toronto, ON, Canada

66. Improvement of Cardiopulmonary Exercise Capacity after Pulmonary Valve Replacement & its Predictors in Patients with Pulmonary Regurgitation after Repair of Tetralogy of Fallot

Yu Rim Shin, Yonsei University Severance Hospital, Seoul, Republic of Korea

67. Intermediate-term Neuro-Developmental Outcomes after Neonatal Cardiac Surgery: Role of Cortical Iso-Electric Activity

Michael Swartz, University of Rochester, Rochester, NY

EXECUTIVE SESSION AATS Members Only

GENERAL THORACIC SURGERY Simultaneous Scientific Session

THORACIC

TUESDAY, APRIL 28, 2015 2:00 – 5:35 pm

Moderators: *Thomas K. Waddell & *Yolonda L. Colson

68. Unexpected Readmission after Lung Cancer Surgery: A Benign Event?

Varun Puri, Washington University, Saint Louis, MO

69. Complexity of Case Mix is an Independent Predictor of Mortality After Esophagectomy in a Nationwide Inpatient Sample Data Analysis

Matthew L. Inra, Mayo Clinic, Rochester, MN

70. Development of a Nomogram for Predicting Outcomes after Sublobar Resection for lung cancer; An Analysis from ACOSOG Z4032 (Alliance), a Randomized Trial

Michael Kent, Beth Israel Deaconess Medical Center, Boston, MA

71. Esophageal Perforation in Europe - A Multinational Study using the Pittsburgh Esophageal Perforation Severity Scoring System

Michael Schweigert, Städtisches Klinikum Dresden Friedrichstadt, Dresden, Germany

72. Baseline Measure of Health-related Quality of Life (FACT-E) Predicts Overall Survival in Esophageal Cancer Patients

Biniam Kidane, University of Toronto, Toronto, ON, Canada

73. The Effect of Surgeon Volume on Procedure Selection in Non-small Cell Lung Cancer Surgery

Christian J. Finley, McMaster University, Hamilton, ON, Canada

74. The Integrated Comprehensive Care (ICC) Program: A Novel Home Care Initiative after Major Thoracic Surgery

Yaron Shargall, McMaster University, Hamilton, ON, Canada

AATS Guidelines: Management of Empyema

*K. Robert Shen, Mayo Clinic, Rochester, MN

EXECUTIVE SESSION AATS Members Only

AORTIC / ENDOVASCULAR SURGERY Simultaneous Scientific Session

AORTIC / ENDOVASCULAR

TUESDAY, APRIL 28, 2015 2:00 – 5:35 pm

Moderators: *Scott A. LeMaire & *Allan S. Stewart

75. Long Term Comparison of Aortic Root Operations for Marfan Syndrome: Bentall versus Valve-Sparing techniques

*Duke E. Cameron, Johns Hopkins Hospital, Baltimore, MD

76. Open Repair of Ruptured Descending Thoracic and Thoracoabdominal Aortic Aneurysms in 100 Consecutive Cases

Mario F.L. Gaudino, Weill Cornell Medical College, New York, NY

77. Total Aortic Arch Replacement with the Thoraflex Hybrid Frozen Elephant Trunk Prosthesis: Report on the First 100 Patients in a Single Center

*Malakh Shrestha, Hannover Medical School, Hannover, Germany

78. Total Aortic Arch Replacement: Predictors of Adverse Outcomes for Hybrid Arch Exclusion versus Traditional Open Repair in 319 Patients

Ourania Preventza, Baylor College of Medicine, Houston, TX

79. Does Moderate Hypothermia Really Carry Less Bleeding Risk than Deep Hypothermia For Circulatory Arrest? A Propensity-Matched Comparison in Hemiarth Replacement

Jeffrey E. Keenan, Duke University, Durham, NC

80. Aortic Dissection with Arch Entry Tear: Surgical Experience in 104 Patients during a 12-Year Period

Wei-Guo Ma, Yale University, New Haven, CT

81. Remodeling of the Remnant Aorta after Acute Type A Aortic Dissection Surgery; Are Young Patients More Likely to Develop Adverse Aortic Remodeling of the Remnant Aorta Over Time?

Suk Jung Choo, Asan Medical Center, Seoul, Republic of Korea

82. Prophylactic First Stage Elephant Trunk for Moderately Dilated Descending Aorta in Patients with Predominantly Proximal Disease

Jahanzaib Idrees, Cleveland Clinic, Cleveland, OH

83. Long-term Benefits of Surgical Pulmonary Embolectomy for Acute Pulmonary Embolus on Right Ventricular Function

William B. Keeling, Emory University, Atlanta, GA

84. Long-Term Follow-up of Aortic Intramural Hematomas and Penetrating Ulcers

Alan S. Chou, Yale University, New Haven, CT

EXECUTIVE SESSION AATS Members Only

WEDNESDAY, APRIL 29, 2015 7:00 – 8:40 am

Moderator: *Vinod H. Thourani

IN CASE YOU MISSED IT!

Listen to a summary of the 95th Annual Meeting scientific programming from the adult cardiac surgeon perspective.

*John S. Ikonomidis, University of South Carolina, Charleston, SC

85. Insights into Flow Hemodynamics in Externally Stented Vein Grafts

*David Paul Taggart, University of Oxford, Oxford, United Kingdom

86. The Rise of New Technologies for Aortic Valve Stenosis: A Propensity-score Analysis from Two Multicenter Registries Comparing Sutureless & Trans-catheter Aortic Valve Replacement

Augusto D'Onofrio, University of Padova, Padova, Italy

87. First North American Single Centre Experience with the Enable Sutureless Aortic Bioprosthesis in a High-Risk Surgical Cohort

Benoit de Varennes, McGill University, Montreal, QC, Canada

89. Robotic Repair of Simple vs. Complex Degenerative Mitral Valve Disease: Clinical & Echocardiographic Outcomes during Mid-term Follow-up

*Rakesh M. Suri, Mayo Clinic, Rochester Minnesota, MN

90. Minimalist Transcatheter Aortic Valve Replacement: The New Standard for Surgeons & Cardiologists Using Transfemoral Access?

Hanna Alaoja Jensen, Emory University, Atlanta, GA

91. Anterior Mitral Valve Leaflet Augmentation Repair in Type III Mitral Regurgitation: Lessons Learned

Thomas M. Kelley, Jr., Dwight D. Eisenhower Army Medical Center, Augusta, GA

92. Transapical Off-pump Mitral Valve Repair with Neochord Implantation: clinical & echocardiographic results of 3 Months Follow-up

Colli Andrea, University of Padua, Padua, Italy

93. Trends in U.S. Extracorporeal Membrane Oxygenation Utilization & Outcomes: 2002-2012

Fenton H. McCarthy, University of Pennsylvania, Philadelphia, PA

AATS Guidelines: Sternal Wound Infection

*Harold L. Lazar, Boston Medical Center, Boston, MA

CONGENITAL HEART DISEASE Simultaneous Scientific Session

CONGENITAL

WEDNESDAY, APRIL 29, 2015 7:00 – 8:40 am

Moderators: *Duke E. Cameron, *Andrew J. Lodge, *Bahaaldin AlSoufi, & *J. William Gaynor

IN CASE YOU MISSED IT!

Listen to a summary of the 95th Annual Meeting scientific programming from the congenital surgeon perspective.

94. Late Incidence of Endocarditis & Conduit Failure in Patients Undergoing Placement of Right Ventricular to Pulmonary Arterial Conduits with Bovine Jugular Grafts

Carlos M. Mery, Texas Children's Hospital, Houston, TX

95. Pulmonary Artery Flow Studies are Useful & Valid in Intraoperative Decision-Making for Patients Undergoing Repair of Pulmonary Atresia with Ventricular Septal Defect & Major Aortopulmonary Collateral Arteries

Jiaquan Zhu, Hospital for Sick Children, Toronto, ON, Canada

96. The Modification of Right Ventricle to Pulmonary Artery Conduit for Norwood Procedure Reduces the Number of Unintended Shunt-Related Events

Tomasz M. Mroczek, Jagiellonian University, Krakow, Poland

97. Right Ventricular Outflow Tract Reconstruction with a Polytetrafluoroethylene Monocusp Valve: A Twenty-year Experience

*John Brown, Indiana University, Indianapolis, IN

98. Repair of Parachute & Hammock Valves in Infants & Children & its Long-Term Outcome

Eva Maria Delmo Walter, Deutsches Herzzentrum Berlin, Berlin, Germany

99. Preliminary Experience in the use of an Extracellular Matrix (CorMatrix) as a Tube Graft: Word of Caution

Narutoshi Hibino, Nationwide Children's Hospital, Columbus, OH

100. Neo-aortic Valve Regurgitation after Arterial Switch: Outcomes from a Single Center

Shoujun Li, Fuwai Hospital, Beijing, China

101. Anatomic Variability of the Thoracic Duct in Pediatric Patients with Complex Congenital Heart Disease

Ji Hyun Bang, Asan Medical Center, Seoul, Republic of Korea

102. Double Outlet Right Ventricle with Non-Committed Ventricular Septal Defect

Olivier Villemain, Université Paris Descartes, Sorbonne Paris Cité, Paris, France

GENERAL THORACIC SURGERY Simultaneous Scientific Session

THORACIC

WEDNESDAY, APRIL 29, 2015 7:00 – 8:40 am

Moderator: *Sudish C. Murthy

IN CASE YOU MISSED IT!

Listen to a summary of the 95th Annual Meeting scientific programming from the general thoracic surgeon perspective.

*Sudish C. Murthy, Cleveland Clinic, Cleveland, OH

103. The use of High-risk donors Decreases One-year Survival in High-risk Lung Recipients: A Review of the United Network of Organ Sharing Database

Matthew Mulligan, University of Maryland, Baltimore, MD

104. Safety, Efficacy, & Durability of Lung Volume Reduction Surgery: A 10-Year Experience

Mark E. Ginsburg, Columbia University, New York, NY

105. Predictors of Prolonged Air Leak After Lung Resection

Sebastien Gilbert, Ottawa Hospital, Ottawa, ON, Canada

106. Proportion of Newly Diagnosed Non-Small Cell Lung Cancer Patients That Would Have Been Eligible for Lung Cancer Screening

Geena Wu, City of Hope National Medical Center, Duarte, CA

107. Is Costly Surveillance Indicated for Indolent Causes of Cancer? The Carcinoid Story

*Sudish C. Murthy, Cleveland Clinic, Cleveland, OH

108. A Propensity-matched Study of Lobectomy Versus Segmentectomy for Radiologically Pure Solid Small-sized Non-small Cell Lung Cancer

Terumoto Koike, Niigata University, Niigata, Japan

109. In the Modern Era, Single Lung Transplantation from Diabetic Donors is Associated with Increased Mortality

Vishnu Ambur, Temple University, Philadelphia, PA

110. Black Patients Die Earlier after Surgery for Esophageal Cancer

Andrea S. Wolf, Mount Sinai Medical Center, New York, NY

111. Locally Advanced Esophageal Cancer: What Becomes of Five Year Survivors?

Galal R. Ghaly, Weill Cornell Medical College, New York, NY

MASTER OF SURGERY SESSIONS 9:45 – 11:15 am

■ Adult Cardiac Masters of Surgery Video Session

■ Congenital Masters of Surgery Video Session

■ General Thoracic Masters of Surgery Video Session

3 WAYS TO REGISTER AND BOOK HOUSING

- 1 Online at www.aats.org
- 2 Call the AATS/Experient Customer Service Desk at 800-424-5249 (USA) or 847-996-5829 (International).
- 3 Mail/Fax Registration forms can be downloaded from www.aats.org.

REGISTRATION INFORMATION Early Bird Registration Deadline: March 18, 2015

MEETING FEES

Courses & Symposia

Saturday and Sunday April 25 - 26, 2015

	On or Before 3/18/15	On or After 3/19/15
Physician	\$225	\$325
Allied Health	\$125	\$225
Resident/Fellows//Medical Student	No Charge	\$100

Prices are shown for each day.

Register for a Saturday course and/or Sunday symposium and you will have access to all other courses/symposia taking place that same day.

95th Annual Meeting

Monday to Wednesday April 27 - 29, 2015

	On or Before 3/18/15	On or After 3/19/15
Member	\$0	\$0
Non-Member Physician	\$399	\$499
Allied Health	\$299	\$399
Resident/Fellows/ Medical Student	\$0	\$100

Expo Fee (Exhibit Hall Only) \$100 per day (Mon. & Tue. Only)

Non-Exhibiting Industry (Exhibit Hall & Scientific Sessions) \$1000

REGISTRATION PACKAGES

- AATS Week 2015 – Register for both Mitral Conclave and the 95th Annual Meeting and receive \$100 off the Mitral Conclave registration fee.
- Resident/Fellow and Medical Students – Save \$100 by registering before the early bird registration deadline.
- Allied Health Package – Save \$399 by registering for the Annual Meeting and both the Saturday Courses and Sunday Symposia.

For letters of invitation or for more information on registration packages, please visit our website at <http://aats.org/annualmeeting/Registration-and-Housing.cgi>.

HOTEL INFORMATION Housing Deadline: March 18, 2015

MEETING HOTELS

- **Sheraton Seattle** 1400 Sixth Avenue. Headquarter Hotel, less than 1 block from the Convention Center
- **Grand Hyatt Seattle** 721 Pine Street. Less than 1 block from the Convention Center
- **Hyatt Olive 8** 1635 8th Avenue. 2 blocks from the Convention Center
- **Westin Seattle** 1900 Fifth Avenue. 5 blocks from the Convention Center

AATS WELCOME RECEPTION

Sunday, April 26, 2015, 5:00 – 7:00 pm
Exhibit Hall - Washington State Convention Center

Admission to the event is complimentary for all registered attendees.

Join us as we officially celebrate the opening of this year's 95th Annual Meeting. Visit with our valued exhibitors and supporters where you will learn cutting edge techniques, and discover groundbreaking new products while networking with other attendees.

AATS ATTENDEE RECEPTION

Tuesday, April 28, 2015, 7:00 – 10:00 pm
The Museum of Flight
\$85 per person

Don't miss this year's Attendee Reception at the largest private air and space museum: The Museum of Flight. It has more than 150 aircraft in its collection, including the famous Blackbird, the only remaining Boeing 80A, and the Aerocar III.

ANNUAL MEETING SOCIAL PROGRAMS

TOURS

Woodinville Wine Excursion

Sunday, April 26, 2015 12:30 – 4:30 pm
Chateau Ste. Michelle & Novelty Hill, Januik.
\$77 per person

Boeing and Future of Flight Tour

Monday, April 27, 2015 9:00 am – 1:00 pm
Future of Flight Aviation Center & Boeing Assembly Plant
\$57 per person

Tastes of Pike Place Market Tour

Tuesday, April 28, 2015 9:15 am – 1:15 pm
Pike Place Market
\$78 per person



AATS **ANNUAL MEETING** 2015



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UPCOMING **AATS CME MEETINGS**

AATS Grant Writing Workshop

March 27, 2015

Doubletree Bethesda
Bethesda, MD, USA

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April 23 – 24, 2015

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New York, NY, USA

AATS 95th Annual Meeting

April 25 – 29, 2015

Washington State Convention Center
Seattle, WA, USA

2015 Heart Valve Summit: Medical, Surgical & Interventional Decision Making

October 1 – 3, 2015

Radisson Blu Aqua Hotel
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AATS Focus on Thoracic Surgery

October 23 – 25, 2015

Seaport Hotel and World Trade Center
Boston, MA USA

AATS Aortic Symposium

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