Special thanks to the members of the Program Committee and Postgraduate Committee and all abstract reviewers who volunteered their time, energy, and expertise in developing the STSA 68th Annual Meeting program.

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Amended by the STS Executive Committee: April 11, 2012

Review STSA Meeting Faculty Disclosures here.

STSA 68TH ANNUAL MEETING

This activity will be planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of The Society of Thoracic Surgeons and The Southern Thoracic Surgical Association. The Society of Thoracic Surgeons is accredited by the ACCME to provide continuing medical education for physicians. The STS designates this educational activity for a maximum of 19.75 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.
WEDNESDAY, NOVEMBER 3, 2021

3:30 pm - 4:30 pm
Industry Symposia (non-CME): Abbott
Location: Mercer Ballroom GH

STSA POSTGRADUATE PROGRAM
CME Credits Available: 2.50

4:45 pm – 5:30 pm
Welcome Reception
Location: Ellington Foyer
Join us Wednesday evening for the meeting’s official kick-off beginning with an informal reception followed by scientific video breakout sessions which have returned due to their high demand! Most attendees will have just arrived at the hotel, so check-in to your rooms, drop off your bags and join your colleagues for three casual video breakout sessions titled “How I Do It and Avoiding Pitfalls Video Case Presentations” accompanied by interactive discussion. Heavy hor d’oeuvres and refreshments will be served.

CARDIAC SURGERY VIDEO BREAKOUT

How I Do It and Avoiding Pitfalls Video Case Presentations and Interactive Discussions
Location: Ellington Ballroom
Moderators:
Gorav Ailawadi, University of Michigan, Ann Arbor, MI
Vinod H. Thourani, Piedmont Heart Institute, Atlanta, GA

5:30 pm -  6:00 pm
Aortic Valve Annular Enlargement and Transcarotid TAVR
Bo Yang
University of Michigan, Ann Arbor, MI
Yoshi Kaneko
Brigham and Women’s Hospital, Boston, MA

6:00 pm - 6:30 pm
Minimally Invasive CABG and All-arterial CABG
*Marc Ruel
University of Ottawa Heart Institute, Ottawa, ON, Canada
Joseph Sabik
University Hospitals Cleveland Medical Center, Cleveland, OH

6:30 pm - 7:00 pm
P2 Resection With Cleft Closures and Neochord Repair of the Barlow’s Valve
Vinay Badhwar
West Virginia University, Morgantown, WV
Marc Gillinov
Cleveland Clinic Foundation, Cleveland, OH

7:00 pm - 7:30 pm
Bentall Operation and Ascending Aortic Dissection
Edward Chen
Duke University Medical Center, Durham, NC
Mehrdad Ghorieshi
University of Maryland Medical Center, Baltimore, MD

7:30 pm - 8:00 pm
Biatrial Maze With LAA Closure and Convergent Procedure With LAA Closure
Marc Gerdisch
Franciscan St. Francis Heart Center, Indianapolis, IN
Faraz Kerendi
Cardiothoracic & Vascular Surgeons, PA, Austin, TX

**Schedule and speakers subject to change.  V indicates STSA surgical video  *indicates virtual presentation
THORACIC SURGERY VIDEO BREAKOUT

Location: Mercer Ballroom GH

Moderators:
Shanda Blackmon, Mayo Clinic, Rochester, MN
Lisa Brown, University of California, Davis, Sacramento, CA
Mark Block, Memorial Healthcare System, Hollywood, FL

Diaphragm Plication
5:30 pm - 5:40 pm
Patient Selection/Potential Postoperative Pitfalls
Richard Freeman
Loyola University Medical Center, Maywood, IL

5:40 pm - 5:50 pm
How I Do It: MIS Thoracic Approach
Stephanie Chang
NYU Langone Health, New York, NY

5:50 pm - 6:00 pm
How I Do It: MIS Abdominal Approach
Erin Gillaspie
Vanderbilt University Medical Center, Nashville, TN

6:00 pm - 6:15 pm
Panel Debate/ Open Discussion
Discussion on Approach:
Abdominal vs Thoracic and VATS vs Robotic
Discussion on Technical Aspects:
Running vs Continuous Suture, Pledget vs no Pledget,
V-lock vs Endostitch vs Tie/Core Knot vs Knot Pusher
All – Panel

Surgical Management of GERD and Hiatal Hernia
6:15 pm - 6:25 pm
Linx Anti-Reflux Procedure:
Indications and Technical Pearls
Carlos Anciano
East Carolina University, Greenville, NC

6:25 pm - 6:35 pm
Essential Considerations in Planning HH Repair
(Video of Collis Approach)
Virginia Litle
Intermountain Healthcare, Murray, UT

6:35 pm - 6:45 pm
*Fundamentals of Laparoscopic Hiatal Hernia Repair
Inderpal Sarkaria
University of Pittsburgh Medical Center, Pittsburgh, PA

6:45 pm - 6:55 pm
How I Do It: Mesh, Relaxing Incisions,
Short Esophagus
Steve DeMeester
The Oregon Clinic, Portland, OR

6:55 pm - 7:05 pm
Open Discussion
All – Panel

How I Managed the Most
Challenging Complication of My Career
7:05 pm - 7:15 pm
*Post-Pneumonectomy BPF
Elizabeth David
Keck School of Medicine of USC, Los Angeles, CA

7:15 pm - 7:25 pm
Unique Problems During Esophagectomy
Wayne Hofstetter
University of Texas, MD Anderson Cancer Center, Houston, TX

7:25 pm - 7:35 pm
Emergent Esophagectomy
Min Kim
Houston Methodist Hospital, Houston, TX

7:35 pm - 8:00 pm
Open Discussion
All – Panel

CONGENITAL SURGERY VIDEO BREAKOUT

Location: Mercer Ballroom I

Moderators:
Jeffrey Jacobs, University of Florida, Gainesville, FL
Jennifer Nelson, Nemours Children's Hospital, Orlando, FL
James O'Brien, Children's Mercy Hospital, Kansas City, MO
James St. Louis, Children Hospital of Georgia, Augusta, GA

5:30 pm - 5:45 pm
CONG-PG-V1. Simplified Sinus of Valsalva
Aneurysm With Associated Doubly-Committed
Ventricular Septal Defect Repair
Alexander Merriman, Peter Kouretas, Nicole Cresalia,
Shunji Sano
University of California, San Francisco, San Francisco, CA

5:45 pm - 6:00 pm
*CONG-PG-V2. Konno Procedure
for Tunnel Subaortic Stenosis
Elizabeth Stephens, Joseph Dearani
Mayo Clinic, Rochester, MN

**Schedule and speakers subject to change.  V indicates STSA surgical video  *indicates virtual presentation
CONGENITAL SURGERY VIDEO BREAKOUT (CONT.)

6:00 pm - 6:15 pm
**CONG-PG-V3.** Patent Ductus Arteriosus Exclusion Technique Using Thoracic Endovascular Aortic Repair
Kirsten Freeman, Dean Arnaoutakis, James Fudge, Jr, Tomas Martin, George Arnaoutakis
University of Florida, Gainesville, FL

6:15 pm - 6:30 pm
**CONG-PG-V4.** Two Stage Repair of Adult Vascular Ring: Right Aortic Arch and Aberrant Left Subclavian Artery
Elizabeth Stephens, Nishant Saran, Hidetake Kawajiri, Thomas Bower, Alberto Pochettino
Mayo Clinic, Rochester, MN

6:30 pm - 6:45 pm
**CONG-PG-V5.** Repair of Bicuspid Pulmonary Valve Insufficiency and Neo-Root Aneurysm Late After Arterial Switch Procedure
John Kupferschmid¹, J. Scott Rankin²
¹Methodist Children’s Hospital San Antonio, TX; ²West Virginia University, Morgantown, WV

6:45 pm - 7:00 pm
**CONG-PG-V6.** Modified Re-implantation Technique for Anomalous Origin of Right Coronary Artery from Left Sinus with Inter-arterial Course and Short Intramural Course
Hani Najm¹, Samantha Xu², Lin Chen², Joanna Ghobrial¹, Tara Karamlou¹
¹Cleveland Clinic, Cleveland, OH; ²Case Western Reserve University School of Medicine, Cleveland, OH

Congenital Surgery Video Breakout to conclude at 7:00 pm ET.

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THURSDAY, NOVEMBER 4, 2021

10:00 am - 12:00 pm
1:30 pm - 3:30 pm
Exhibits Open

7:00 am - 8:00 am
Industry Symposia: Breakfast (non-CME): Abiomed
Location: Dunwoody Room

7:00 am - 8:00 am
Industry Symposia: Breakfast (non-CME): CryoLife
Location: Mercer Ballroom I

**ROBERT M. SADE ETHICS LECTURESHIP**

7:00 am - 7:50 am
CME Credits Available: .75
Location: Ellington Ballroom
Moderator: Robert M. Sade, Medical University of South Carolina, Charleston, SC

7:00 am - 7:05 am
Case Introduction: Smoking and the Bier. Refusing to Operate If the Patient Keeps Smoking
Robert M. Sade
Medical University of South Carolina, Charleston, SC

7:05 am - 7:20 am
Pro: Stephanie Chang
NYU Langone Health, New York, NY

7:20 am - 7:35 am
*Con: Mark Orringer
University of Michigan, Ann Arbor, MI

7:35 am - 7:50 am
Panel Discussion

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**Schedule and speakers subject to change.  V indicates STSA surgical video  *indicates virtual presentation**
BASIC SCIENCE FORUM
7:00 am - 7:50 am
CME Credits Available: .75
Location: Mercer Ballroom GH
Moderators:
Scott LeMaire, Baylor College of Medicine, Houston, TX
Stephen Yang, Johns Hopkins Medical Institutions, Baltimore, MD
Resident Moderator:
Rosalie Sterner, Mayo Clinic, Rochester, MN

7:00 am - 7:10 am
1B. Simvastatin Inhibits Histologic Changes Associated With Gastroduodenal Reflux in a Murine Model
Anna Gergen¹, Helen Madsen¹, Anqi Li¹, Linling Cheng¹, Xianzhong Meng¹, David Fullerton¹, Akshay Pratap¹, Michael Weyant²
¹University of Colorado, Aurora, CO; ²INOVA Hospital System, Fairfax, VA

7:10 am - 7:20 am
2B. Valproic Acid Preserve Donor Heart Function After Prolonged Cold Ischemic Storage Through Suppressing Innate Immunity Activation
Ienglam Lei¹, Wei Huang¹, Zhong Wang¹, Y. Eugene Chen¹, Francis Paganii, Paul Tang¹
¹University of Michigan, Ann Arbor, MI

7:20 am - 7:30 am
3B. Development of a Porcine Model of ARDS via Gastric Aspiration and Ventilator-Induced Injury
Evan Rotar¹, Nathan Haywood¹, James Mehaffey¹, Dustin Money¹, Huy Ta¹, Nicholas Teman¹, Victor Laubach¹, Irving Kron¹, Mark Roesser¹
¹University of Virginia, Charlottesville, VA

7:30 am - 7:40 am
4B. A Percutaneous Pulmonary Artery Drainage Device Unloads the Left Ventricle in a VA ECMO-Supported Severe Cardiogenic Shock Sheep Model
Li Li¹, Cherry Ballard-Croft¹, Guangfeng Zhao², Stephen Topaz³, Joseph Zwischenberger¹, Dongfang Wang¹
¹University of Kentucky, Lexington, KY; ²W-Z Biotech, LLC, Lexington, KY

7:40 am - 7:50 am
5B. Biomarker Multiplex Assay in Critically Ill Covid-19 Patients Requiring Extracorporeal Membrane Oxygenation Support
Alexey Abramov¹, Richard Dubois¹, Andrew Thornton¹, Danielle Feldhaus¹, Philippe Lemaître¹, Cara Agerstrand¹, Daniel Brodie¹, Joshua Sonett², B. Payne Stanifer¹
¹Columbia University Medical Center, New York, NY

FIRST SCIENTIFIC SESSION
8:00 am - 10:15 am
CME Credits Available: 2.25
Location: Ellington Ballroom
Moderators:
Jeffrey Jacobs, University of Florida, Gainesville, FL
Daniel Miller, CTCA, Atlanta, GA
Vinod Thourani, Piedmont Heart Institute, Atlanta, GA
Resident Moderator:
Ashley Dawson, McGovern Medical School at UTHealth, Houston, TX

8:00 am - 8:15 am
1. Concomitant Initial Palliation and VAD Insertion in 15 High-Risk Neonates and Infants With Functionally Univentricular Hearts (HLHS or HRHS)
Mark Bleiweis¹, Joseph Philip¹, Giles Peek¹, James Fudge, Jr¹, Kevin Sullivan¹, Jennifer Co-Vu¹, Dipankar Gupta¹, F. Fricker¹, Himesh Vyas¹, Jose Hernandez-Rivera¹, Mohammad Ebraheem¹, Connie Nixon¹, Matheus Falasa¹, Jeffrey Jacobs¹
¹University of Florida, Gainesville, FL
Discussant: Iki Adachi, Texas Children's Hospital, Houston, TX

8:15 am - 8:30 am
2. Incidence and Impact of Prosthesis-Patient Mismatch After Surgical Aortic Valve Replacement: Analysis of the PARTNER Randomized Trials
Vinod Thourani¹, Amr Abbas³, Julien Ternacle³, Philippe Pibarot³, Rebecca Hahn³, Howard Herrmann³, Susheel Kodal³, Isaac George³, Wilson Szeto³, Gorav Alawadi³, Jonathon Leipsic³, Philippe Blanche³, Wael Jaber³, Mark Russo³, Pradeep Yadav¹, Marie-Annick Clavel³, Omar Khalique³, Neil J. Weissman³, Pamela Douglas³, Jeroen Bax³, Abdellaziz Dahou³, Ke Xu³, Maria Alu³, Martin Leon³, Michael Mack³
¹Piedmont Heart Institute, Atlanta, GA; ²Beaumont Hospital, Detroit, MI; ³University Hospital Centre, Pessac, Bordeaux, France; 4Laval University, Quebec, Canada; 5Columbia University Medical Center, New York, NY; 6University of Pennsylvania, Philadelphia, PA; 7University of Michigan, Ann Arbor, MI; 8Providence Health Care, Vancouver, Canada; 9University of British Columbia, Vancouver, Canada; 10Cleveland Clinic, Cleveland, OH; 11Rutgers-Robert Wood Johnson Medical School, New York, NY; 12Queen Heart and Lung Institute, Quebec, Canada; 13MedStar Health Research Institute, Washington, DC; 14Duke University, Durham, NC; 15Leiden University, Leiden, Netherlands; 16Cardiovascular Research Foundation, New York, NY; 17Edwards, Irvine, CA; 18Baylor Scott & White, The Heart Hospital, Plano, TX
Discussant: Ourania Preventza, Baylor College of Medicine, Houston, TX

**Schedule and speakers subject to change. V indicates STSA surgical video *indicates virtual presentation**
3. Extracorporeal Membrane Oxygenation for Patients With Thoracic Neoplasm
Yota Suzuki¹, Samuel Cass¹, Juliano Lentz Carvalho¹, Abe DeAnda, Jr.¹, Ravi Radhakrishnan¹
¹University of Texas Medical Branch, Galveston, TX
Discussant: Bill Putnam, Baptist MD Anderson Cancer Center, Jacksonville, FL

4. Complexity and Outcome of Reoperations After the Ross Procedure in the Current Era
Elizabeth Stephens¹, Nibras El Sherif, Heidi Connolly¹, Gabor Bagameri¹, Alberto Pochettino¹, John Stulak¹, Joseph Dearani¹
¹Mayo Clinic, Rochester, MN
Discussant: Ross Ungerleider, Advance, NC

5. Contemporary Management of Ischemic Mitral Regurgitation at the Time of Coronary Artery Bypass Grafting
Michael Pienta¹, Chang He¹, Patty Theurer², Melissa Clark², Jonathan Haft¹, Charles Willekes³, Steven Bolling¹, Matthew Romano¹, Richard Prager¹, Gorav Ailawadi¹
¹University of Michigan, Ann Arbor, MI; ²MSTCVS Quality Collaborative, Ann Arbor, MI; ³Spectrum Health, Grand Rapids, MI
Discussant: Nimesh Desai, University of Pennsylvania Health System, Philadelphia, PA

6. Conversion To Thoracotomy During Thoracoscopic and Robotic Lobectomy: Predictors and Impact On Morbidity and Mortality
Ellliot Servais¹, Daniel Miller², Dylan Thibault³, Matthew Hartwig⁴, Cameron Stock, Jr.¹, Andrzejs Kosinski⁵, Syed Quadri¹, Richard D'Agostino¹, William Burfeind⁶
¹Lahey Hospital and Medical Center, Burlington, MA; ²CTCA, Atlanta, GA; ³Duke Clinical Research Institute, Durham, NC; ⁴Duke University, Durham, NC; ⁵St. Luke's University Health Network, Bethlehem, PA
Discussant: Stephen Yang, The Johns Hopkins Medical Institutions, Baltimore, MD

7. Regionalization of Cardiac Surgical Services in the United States
Matthew Henn¹, Nahush Mokadam¹, Michael Valleyle¹, John Bozinovski¹, Susan Moffat-Bruce², Bryan Whitson³, Asvin Ganapathi¹, Nancy Matre¹, Thomas Williams, Jr.¹
¹The Ohio State University Wexner Medical Center, Columbus, OH; ²Royal College of Physicians and Surgeons of Canada, Ottawa, ON
Discussant: Robert S.D. Higgins, Johns Hopkins University School of Medicine, Baltimore, MD

8. Association Between Hospital Volume, Oncologic Care Processes, and Survival for Esophageal and Gastroesophageal Junction Cancer
William Lightle¹, Jorge Portuondo¹, Shawn Groth¹, Bryan Burt¹, Robert Ripley¹, Nader Massarweh¹
¹Baylor College of Medicine, Houston, TX
Discussant: Allan Pickens, Emory University, Atlanta, GA

Clauden Louis¹, David Blitzer², Jessica Luc³, Jason J. Han⁴, Fatima Wilder⁵, Yihan Lin⁶, Alexander Brescia⁷, Anthony Mozer⁸, Vakhtang Tchantchaleishvili⁹, Tom Nguyen¹⁰
¹University of Rochester Medical Center, Rochester, NY; ²Columbia University Medical Center, New York, NY; ³University of British Columbia, Vancouver, British Columbia; ⁴Hospital of the University of Pennsylvania, Philadelphia, PA; ⁵Johns Hopkins University Medical Center, Baltimore, MD; ⁶University of Colorado, Aurora, CO; ⁷University of Michigan, Ann Arbor, MI; ⁸Northwestern University, Chicago, IL; ⁹Thomas Jefferson University, Philadelphia, PA; ¹⁰University of California San Francisco, San Francisco, CA
Discussant: Joseph Cleveland, University of Colorado, Aurora, CO

**Schedule and speakers subject to change.  V indicates STSA surgical video  *indicates virtual presentation**
GENERAL SESSION
11:00 am - 12:30 pm
CME Credits Available: 1.5
Location: Ellington Ballroom
Moderators:
Daniel Miller, CTCA, Atlanta, GA
Vinod Thourani, Piedmont Heart Institute, Atlanta, GA

11:00 am - 11:20 am
TSF/STSA Research Award
Recipients’ Presentation
The leadership of the STSA would like to highlight past recipients of the TSF/STSA Research Award. Previous recipients of this award will be allotted time to briefly discuss their research project.

Bradley Leshnower, 2016 STSA Research Award
Emory University School of Medicine, Atlanta, GA

*Anson Lee, 2017 STSA Research Award
Stanford University School of Medicine, Stanford, CA

Paul Tang, 2018 STSA Research Award
University of Michigan, Ann Arbor, MI

*Lillian L. Tsai, 2019 STSA Resident Research Award
Johns Hopkins University, Baltimore, MD

*Renee Cholyway, 2020 STSA Resident Research Award
Virginia Commonwealth University, Richmond, VA

Evan P. Rotar, 2021 STSA Research Award
University of Virginia, Charlottesville, VA

11:20 am - 11:50 am
President’s Invited Lecturer
Larry Sperling, Executive Director of Million Hearts®
Impact of COVID-19 on Cardiovascular Care and Cardiovascular Disease Prevention
Million Hearts® is co-led by the Centers for Disease Control and Prevention (CDC) and the Centers for Medicare & Medicaid Services (CMS)

11:50 am – 12:30 pm
Presidential Address: The Marriage Between Innovation and Quality: Sometimes a Bumpy Road, but Worth the Sacrifices
Vinod H. Thourani, Piedmont Heart Institute, Atlanta, GA

SECOND SCIENTIFIC SESSION:
Simultaneous Breakout Sessions
2:00 pm - 3:00 pm
CME Credits Available: 1.0

Aortic Valve Breakout
Location: Ellington Ballroom
Moderators:
Thomas Beaver, University of Florida, Gainesville, FL
Jessica Forcillo, Centre Hospitalier de l’Université de Montréal, Montreal, Quebec
Eric Sarin, Inova Heart and Vascular Institute, Falls Church, VA
Resident Moderator: Clauden Louis, University of Rochester Medical Center, Rochester, NY

2:00 pm - 2:15 pm
11. Valve-In-Valve Transcatheter Aortic Valve Replacement Versus Redo Surgical Aortic Valve Replacement for Failed Surgical Bioprosthesis
Shinichi Fukuhara¹, Alexander Brescia¹, Chan Tran Nguyen¹, Karen Kim¹, Suzuna Shiomi¹, Bo Yang¹, Himanshu Patel¹, G. Michael Deeb¹
¹University of Michigan, Ann Arbor, MI
Resident Moderator: Clauden Louis, University of Rochester Medical Center, Rochester, NY
Discussant: Melissa Levack, Vanderbilt University Medical Center, Nashville, TN

2:15 pm - 2:30 pm
12. The Relationship of Left Ventricular Mass Regression to Survival: A Long-Term Analysis of Veterans Undergoing Surgical or Transcatheter Aortic Valve Replacement
Vivek Patel¹, Ernesto Jimenez¹, Lorraine Cornwell¹, Riyad Kherallah¹, Todd Rosengart¹, Ourania Preventza¹, Hani Jneid¹
¹Baylor College of Medicine, Houston, TX
Discussant: Hersh Maniar, Washington University School of Medicine, St. Louis, MO

2:30 pm - 2:45 pm
13. The Economic Impact of Transcatheter Aortic Valve Replacement for the Treatment of Aortic Stenosis in the US Medicare Population
Pieter van Bakel¹, Yunus Ahmed¹, Joost van Herwaarden², Himanshu Patel¹, Michael Thompson¹
¹University of Michigan, Ann Arbor, MI; ²Universiteit Utrecht, Utrecht, Netherlands
Discussant: J. Trent Magruder, Piedmont Heart Institute, Atlanta, GA

2:45 pm - 3:00 pm
Invited Lecture: Techniques in Valve-Sparing Root Replacement for Bicuspid Aortic Valve
Joseph Bavaria, University of Pennsylvania, Philadelphia, PA

**Schedule and speakers subject to change. V indicates STSA surgical video *indicates virtual presentation
Lessons Learned From Covid
2:00 pm - 3:00 pm

Location: Mercer Ballroom I
Moderators:
Joshua Appelstein, Piedmont Heart Institute, Atlanta, GA
Arman Kilic, Medical University of South Carolina, Charleston, SC
James St. Louis, Children's Hospital of Georgia, Augusta, GA
Resident Moderator: Raffaele Rocco, Mayo Clinic, Rochester, MN

2:00 pm - 2:15 pm
Invited Lecture: Lung Transplantation for COVID
Tiago Machuka, University of Florida, Gainesville, FL

2:15 pm - 2:30 pm
J Javidfar¹, Akram Zaaqoq¹, Ahmed Labib², Adrian Barnett³, Rakesh Arora⁴, Gregg Eschun⁴, Michael Yamashita⁴, J.W. Hayanga⁵, Jeffrey Jacobs⁶, Silver Heinsar⁷, Giles Peek⁸
¹Medstar Washington Hospital Center, Washington, DC; ²Hamad Medical Corporation, Doha, Qatar; ³University of Manchester, Manchester, UK; ⁴University of Toronto, Toronto, ON; ⁵WVU Heart and Vascular Institute, Morgantown, WV; ⁶University of Florida, Gainesville, FL; ⁷University of Queensland, Brisbane, Queensland; ⁸Emory University, Atlanta, GA
Discussant: J. Michael DiMaio, Baylor Scott and White, The Heart Hospital, Plano, TX

2:30 pm - 2:45 pm
Celeste Hall¹, Jeffrey Jacobs¹, Alfred Stammers², James St. Louis³, J.W. Hayanga⁴, Michael Firstenberg⁴, Linda Mongero⁵, Eric Tesdahl⁶, Keshava Rajagopal⁶, Faisal Cheema⁶, Kirti Patel⁶, Tom Cole⁶, Anthony Sestokas⁶, Marvin Slepián⁶, Vinay Badhwar⁷
¹University of Florida, Gainesville, FL; ²SpecialtyCare, Sweet Valley, PA; ³Children's Hospital of Georgia, Augusta, GA; ⁴WVU Heart and Vascular Institute, Morgantown, WV; ⁵Medical Center of Aurora, Aurora, CO; ⁶SpecialtyCare, Nashville, TN; ⁷HCA Healthcare & University of Houston, Houston, TX; ⁸SpecialtyCare, Brentwood, TN; ⁹Sarver Heart Center, University of Arizona, Tucson, AZ; ¹⁰West Virginia University, Morgantown, WV
Discussant: Peter Barrett, Piedmont Heart Institute, Atlanta, GA
SECOND SCIENTIFIC SESSION (CONT.)

2:30 pm - 2:45 pm
Kelsey Gray¹, Sarode Anuja¹, Stephanie Worrell², Boxiang Jiang¹, Vanessa Ho³, Jillian Sinopoli⁴, Philip Linden¹, Luis Argote-Greene¹, Christopher Towe¹
¹University Hospitals Cleveland Medical Center, Cleveland, OH; ²University Hospital and Case Western Reserve University, Cleveland, OH; ³MetroHealth Hospital, Cleveland, OH
Discussant: Richard Freeman, Loyola University Medical Center, Maywood, IL

2:45 pm - 3:00 pm
Invited Lecture: Update on Immunotherapy for Resectable Lung Care Patients
M. Blair Marshall, Brigham and Women's Hospital, Boston, MA

3:00 pm - 3:30 pm
Break – Visit Exhibits

THIRD SCIENTIFIC SESSION

CME Credits Available: 2.0
Location: Ellington Ballroom
Moderators: Kevin Accola, AdventHealth Orlando, Orlando, FL; Jeffrey Jacobs, University of Florida, Gainesville, FL; Ourania Preventza, Baylor College of Medicine, Houston, TX
Resident Moderator: John Spratt, University of Florida, Gainesville, FL

3:30 pm - 3:45 pm
20. Non-Aortic Valve Cardiac Surgery After Transcatheter Aortic Valve Replacement: Society of Thoracic Surgeons Database Analysis
Shinichi Fukuhara¹, Gorav Ailawadi¹, G. Michael Deeb¹
¹University of Michigan, Ann Arbor, MI
Discussant: Thor Sundt, Massachusetts General Hospital, Boston, MA

3:45 pm - 4:00 pm
21. Analysis of Revisitional Surgery After Myotomy for Achalasia With Recurrent Dysphagia
Raffaele Rocco¹, Miao Lin, Karthik Ravi¹, David Katzka¹, Louis Michele Wong Kee Song¹, Amandra Arora, Dennis Wigle¹, Jeffrey Alexander¹, Joseph Murray¹, John Barlow¹, Magnus Halland¹, Shanda Blackmon¹
¹Mayo Clinic, Rochester, MN
Discussant: Allan Pickens, Emory University, Atlanta, GA

4:00 pm - 4:15 pm
22. Association Between Venous Homografts and Allosensitization After the Norwood Procedure
Christian Tan¹, David Cleveland⁴, Robert Dabai¹, Robert Sorabella¹, Luz Padilla¹, Mark Law¹, Waldemar Carlo¹, Santiago Borasino¹
¹University of Alabama at Birmingham, Birmingham, AL
Discussant: Tara Karamlou, Cleveland Clinic, Cleveland, OH

4:15 pm - 4:30 pm
23. Atrial Fibrillation: The Facts Reveal Opportunities!
Chris Bond⁴, Richard Prager², Chang He², Patty Theurer³, Melissa Clark³, Edward Murphy⁴, Reza Dabir⁵, Matthew Romano²
¹University Hospitals Cleveland, Cleveland, OH; ²University of Michigan, Ann Arbor, MI; ³MSTCVS Quality Collaborative, Ann Arbor, MI; ⁴Spectrum Health, Grand Rapids, MI; ⁵Beaumont Hospital, Dearborn, MI
Discussant: Richard Lee, Medical College of Georgia at Augusta University, Augusta, GA

4:30 pm - 4:45 pm
24. Introduction of a Non-Narcotic Pain Management Protocol After Thoracoscopic Lobectomy Significantly Decreases Overall Opioid Use and Prescription of Home Opioids While Improving Overall Pain Control
Isabel Clark¹, James Speicher¹, Carlos Anciano¹, Robert Allman¹, Austin Rogers¹, Tamara Goda², Tyler Chanas³
¹East Carolina University, Greenville, NC; ²East Carolina Heart Institute, Greenville, NC; ³Vidant Medical Center, Greenville, NC
Discussant: Eric Grogan, Vanderbilt University Medical Center, Nashville, TN

4:45 pm - 5:00 pm
25. The Natural and Unnatural History of 231 Patients With Heterotaxy: A Single Center 5-Decade Experience
Gabriel Graham¹, Joseph Dearani¹, Elizabeth Stephens¹, Talha Niaz², Frank Cetta², Crow Sheri¹
¹Mayo Clinic, Rochester, MN
Discussant: Damien LaPar, University of Texas, Houston Children's Heart Institute, Houston, TX

**Schedule and speakers subject to change.  V indicates STSA surgical video  *indicates virtual presentation**
THIRD SCIENTIFIC SESSION (CONT.)

5:00 pm - 5:15 pm
26. Hyperthermic IntraThoracic Extracorporeal Chemotherapy (HITEC) For Primary and Secondary Pleural Malignancies
Daniel Miller¹, Christopher Parks¹, Patricia Rich², Ioana Bonta³
¹CTCA, Atlanta, GA; ²Piedmont Oncology, Atlanta, GA; ³Georgia Cancer Specialists, Atlanta, GA
Discussant: Puja Khaitan, Medstar Washington Hospital Center, Washington, DC

5:15 pm - 5:30 pm
27. “High Risk” CABG vs VAD for Ischemic Cardiomyopathy With Low EF: Where to Draw the Line?
Katherine Whitehouse¹, Jaimin Trivedi¹, Joseph Sweeney¹, Hazaim Alwair¹, Siddarth Pahwa¹, Mark Slaughter¹
¹University of Louisville, Louisville, KY
Discussant: Ezequiel Molina, Medstar Washington Hospital Center, Washington, DC

RESIDENTS RECEPTION
6:00 pm - 7:00 pm

PRESIDENT’S MIXER
7:00 pm - 9:00 pm

FRIDAY, NOVEMBER 5, 2021

8:00 am - 12:00 pm
Exhibits Open

FOURTH SCIENTIFIC SESSION A:
Simultaneous Adult Cardiac, Thoracic, and Congenital Breakout Sessions
7:00 am - 8:30 am
CME Credits Available: 1.5

Adult Cardiac: Mitral Valve Symposium Breakout
Location: Ellington Ballroom
Moderators:
Evelio Rodriguez, Ascension Saint Thomas, Nashville, TN
T. Sloane Guy, Thomas Jefferson University, Philadelphia, PA
Richard Myung, Wellstar Health System, Marietta, GA
Resident Moderator: Kimberly Holst, Mayo Clinic, Rochester, MN

7:00 am - 7:15 am
28. Longitudinal Outcomes of Mitral Valve Repair Among High-Volume and Low-Volume Surgeons Within a High-Volume Institution
*Edward Percy¹, Paige Newell¹, Sameer Hirji¹, Morgan Harloff¹, Olena Cherkasky¹, Siobhan McGurk¹, Muntasir Chowdhury², Farhang Yazdchi¹, Daniel Rinewalt¹, Hari Mallidi¹, Ashraf Sabe¹, Prem Shekar¹, Tsuyoshi Kaneko¹
¹Brigham and Women’s Hospital, Boston, MA; ²Marshall University, Huntington, WV
Discussant: Vinay Badhwar, West Virginia University, Morgantown, WV

7:15 am - 7:30 am
29. Three Year Outcomes for 4,219 Medicare Patients Undergoing Mitral Valve Repair
Vinod Thourani¹, James Edelman², Shannon Murphy³, Sreekanth Vemulpalli⁴, Matt Moore³, Tom Nguyen⁶, James Gammie⁶
¹Piedmont Heart Institute, Atlanta, GA; ²Medstar Heart and Vascular Institute, Washington, DC; ³Edwards Lifesciences, Irvine, CA; ⁴Duke Health, Durham, NC; ⁵University of California San Francisco, San Francisco, CA; ⁶Johns Hopkins Hospital, Baltimore, MD
Discussant: Adanna Akujuo, Tower Health, West Reading, PA

7:30 am - 7:45 am
*Invited Lecture: Understanding the Landscape for Transcatheter Mitral Valve Repair
Gilbert Tang, Mount Sinai Medical Center, New York, NY

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FOURTH SCIENTIFIC SESSION A (CONT.)

7:45 am - 8:00 am
**Invited Lecture:** Understanding the Landscape for Transcatheter Mitral Valve Replacement
Gorav Ailawadi, University of Michigan, Ann Arbor, MI

8:00 am - 8:15 am
**Invited Lecture:** Choosing the Ring Prosthesis During Primary MV Disease
Kevin Accola, AdventHealth, Orlando, FL

8:15 am - 8:30 am
**Invited Lecture:** Deciding When to Repair the Tricuspid Valve During a Mitral Valve Procedure
Matthew Romano, University of Michigan, Ann Arbor, MI

Thoracic: Lung & Chest Wall Breakout
Location: Mercer Ballroom GH
Moderators:
Virginia Litle, Intermountain Healthcare, Murray, UT
Eric Sceusi, Piedmont Heart Institute, Atlanta, GA

7:00 am - 7:15 am
30. Trends in Thoracotomy Lobectomy Outcomes for Lung Cancer Over The Last Two Decades: Multi-Institutional National Data Study
*Yahya Alwatari¹, Daniel Scheese¹, Salem Rustom¹, Athanasios Sevdalis¹, Dawit Ayalew¹, Vignesh Vudatha¹, Walker Julliard², Anthony Cassano¹, Rachit Shah¹
¹VCU Health, Richmond, VA; ²UVA Medical Center, Charlottesville, VA
Discussant: John Howington, Saint Thomas Health, Nashville, TN

7:15 am - 7:45 am
32. Chest Wall Reconstruction Utilizing Biosynthetic Material
Daniel Miller¹, Frederick Durden¹
¹CTCA, Atlanta, GA
Discussant: R. Taylor Ripley, Baylor College of Medicine, Houston, TX

7:30 am - 7:45 am
34. Safety of Absorbable Suture for Sternal Closure After Resection of Mediastinal Tumors: A Comparative Study
*Domenico Galetta¹, Lorenzo Spaggiari¹
¹European Institute of Oncology, Milan
Discussant: Dan Miller, CTCA, Atlanta, GA

8:00 am - 8:15 am
33. Robotic Resection for Primary Chest Wall Tumor
Andrew Lin¹, James Qiao¹, Zaid Abdelsattar¹, Wickii Vigneswaran¹
¹Loyola University Medical Center, Maywood, IL
Discussant: Saeid Khansarinia, Piedmont Heart Institute, Atlanta, GA

8:15 am - 8:30 am
**Invited Lecture:** Multimodality Treatment of Chest Wall Tumors
Daniela Molena, Memorial Sloan Kettering Cancer Center, New York, NY

Congenital Breakout
Location: Mercer Ballroom I
Moderators:
Jeffrey Jacobs, University of Florida, Gainesville, FL
Constantine Mavroudis, Children’s Hospital of Philadelphia, Philadelphia, PA
Joseph Turek, Duke University School of Medicine, Durham, NC
Resident Moderator: Eric Pruitt, University of Florida, Gainesville, FL

7:00 am - 7:30 am
*Invited Lecture: The History of Surgery for Anomalous Venous Return
Chris Mascio, West Virginia University, Morgantown, WV

7:30 am - 7:45 am
35. Early and Late Outcomes of the Warden Procedure
Jessey Mathew¹, Joseph Dearani¹, Gabriel Graham¹, Heidi Connolly¹, Katherine King¹, Hartzell Schaff¹, Elizabeth Stephens¹
¹Mayo Clinic, Rochester, MN
Discussant: Mark Bleiweis, University of Florida, Gainesville, FL

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FOURTH SCIENTIFIC SESSION A (CONT.)

7:45 am - 8:00 am

36. Partial Anomalous Pulmonary Venous Connection with Intact Atrial Septum: Early and Late Outcomes
Jessey Mathew¹, Joseph Dearani¹, Gabriel Graham¹, Elizabeth Stephens¹, William Miranda¹, Alexander Lee¹, Katherine King¹, Hartzell Schaff¹
¹Mayo Clinic, Rochester, MN
Discussant: Kristine Guleserian, Medical City Children's Hospital, Dallas, TX

8:00 am - 8:15 am

37. Long-Term Results of Total Anomalous Pulmonary Venous Connection Repair and Risk Factors for Reintervention and Mortality
Christian Jacobsen¹, Kevin Beers², Stewart Miller³, David Lehenbauer⁴, Elaine Maldonado⁵, S. Adil Husain⁶, John Calhoon⁵
¹UT Health San Antonio, San Antonio, TX; ²Children's Mercy Hospital, Kansas City, MO; ³University of Texas at San Antonio, San Antonio, TX; ⁴Cincinnati Children's Hospital, Cincinnati, OH; ⁵University of Texas Health Science Center at San Antonio, San Antonio, TX; ⁶University of Utah Health, Salt Lake City, UT
Discussant: Gus Mavroudis, Ascension Medical Group, Indianapolis, IN

8:15 am - 8:30 am

Invited Video Lecture:
Primary Sutureless Repair of TAPVC
Chris Caldarone, Texas Children's Hospital, Houston, TX

8:30 am - 9:00 am

Break – Visit Exhibits

FOURTH SCIENTIFIC SESSION B: Simultaneous Adult Cardiac, Thoracic, and Congenital Breakout Sessions

Rapid Fire Abstract Presentations

9:00 am - 10:00 am

CME Credits Available: 1.0

Adult Cardiac Breakout
Location: Ellington Ballroom
Moderators:
Jacob DeLaRosa, Portneuf Medical Center, Pocatello, ID
Cullen Morris, Piedmont Heart Institute, Atlanta, GA
Resident Moderator: John Kelly, Hospital of the University of Pennsylvania, Philadelphia, PA

9:00 am - 9:05 am

38. Heparin-Induced Thrombocytopenia After Cardiac Surgery – A Statewide Review of Costs, Outcomes, and Readmissions
*Lekha Yesantharao¹, Eric Etchill², Joseph Canner¹, Diane Alejo¹, Chun Choi², Jennifer Lawton³, Marc Sussman¹, Stefano Schena³
¹Johns Hopkins University School of Medicine, Baltimore, MD; ²Johns Hopkins School of Medicine, Baltimore, MD; ³Johns Hopkins Medicine, Baltimore, MD

9:05 am - 9:10 am

39. A Retrospective Longitudinal Analysis of TEG-Directed Transfusion in Isolated CABG, Isolated Valve, and Multiple Cardiac Procedures: Impact on Transfusion Exposure and Improved Patient Outcomes
Roberta Redfern¹, Gabriel Naimy¹, Michael Kuehne¹, Kevin Fleming¹, Nathan Bobulski¹, Michael Moront¹
¹Promedica Hospital System, Toledo, OH

9:10 am - 9:15 am

40. Transapical Ventricular Remodeling for Patients With Hypertrophic Cardiomyopathy and Systolic Cavity Obliteration
Daokun Sun¹, Hartzell Schaff¹, Rick Nishimura¹, Jeffrey Geske¹, Joseph Dearani¹, Steve Ommen¹
¹Mayo Clinic, Rochester, MN

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FOURTH SCIENTIFIC SESSION B (CONT.)

9:15 am - 9:20 am
41. Outcomes, Cost, and Readmissions After Surgical Aortic and Mitral Valve Replacement at Safety Net Versus Non-Safety Net Hospitals in the United States
William Frankel¹, Sainath Asokan², Christopher Sylvester³, Christopher Ryan², Rodrigo Zee-Vera³, Matthew Wall³, Subhasis Chatterjee³, Joseph Coselli³, Todd Rosengart³, Ravi Ghanta³
¹Cleveland Clinic Foundation, Cleveland, OH; ²Boston University School of Medicine, Boston, MA; ³Baylor College of Medicine, Houston, TX

9:20 am - 9:25 am
42. Impact of Heart Transplant Allocation Changes on Hospital Resource Utilization
Robert Hawkins¹, Erik Scott¹, James Mehaffey¹, Raymond Strobel¹, Mohammed Quader², Alan Speir³, Nicholas Teman¹, Leora Yarboro¹
¹University of Virginia, Charlottesville, VA; ²Virginia Commonwealth University, Richmond, VA; ³INOVA Heart and Vascular Institute, Falls Church, VA

9:25 am - 9:30 am
43. Intraaortic Balloon Pump Can Be Safely Used After Acute Type A Aortic Dissection Repair
*Akiko Tanaka¹, Jaydeep Dhillon, Mehmet Alagoz², Masaki Nakamura², Madiha Hassan³, Harleen Sandhu³, Charles Miller¹, Hazim Safi¹, Anthony Estrera¹
¹McGovern Medical School at UTHealth, Houston, TX; ²University of Texas Health Science Center at Houston, TX; ³University of Texas Health Science Center at Houston, Houston, TX

9:30 am - 9:35 am
44. Extracorporeal Membrane Oxygenation For Severe SARS-CoV-2 Acute Respiratory Distress Syndrome: Outcomes From A Single Institution Through Multiple Waves
Nathan Smith¹, Sarah Park¹, M. Tracy Zundel¹, Michael Cain², David Joyce¹, Lucian Durham, III¹
¹Medical College of Wisconsin, Milwaukee, WI; ²University of Colorado, Aurora, CO

9:35 am - 9:40 am
45. The Cost of Poverty: Healthcare Utilization is Greater in Socioeconomically Deprived Patients Undergoing Isolated CABG
*Max Fliegner¹, Jessica Yaser², Patty Theurer³, Donald S. Likosky⁴, Richard Prager⁴, Michael Thompson⁴
¹Michigan Medicine, Ann Arbor, MI; ²Michigan Value Collaborative, Ann Arbor, MI; ³MSTCVS Quality Collaborative, Ann Arbor, MI; ⁴University of Michigan, Ann Arbor, MI

9:40 am - 9:45 am
46. Clinical Outcomes of Valve Sparing Root Replacement Versus Conventional Bentall for Bicuspid Valve Aortic Pathology
Parth Patel¹, Mia Callahan¹, Jane Wei², Andy Dong¹, Jose Binongo³, Bradley Leshnower⁴, Edward Chen⁴
¹Emory University School of Medicine, Atlanta, GA; ²Emory University, Atlanta, GA; ³Rollins School of Public Health, Atlanta, GA; ⁴Duke University Medical Center, Durham, NC

9:45 am - 9:50 am
47. Autologous Blood Transfusion Is Associated With Improved Coagulopathy After Type A Repair
Irina Kolesnik¹, Gregory Boyajian¹, Sari Holmes¹, Aakash Shah¹, Chetan Pasrija¹, Bradley Taylor¹, Reney Henderson¹, Mehrdad Ghoreishi¹
¹University of Maryland School of Medicine, Baltimore, MD

Thoracic Breakout
Location: Mercer Ballroom GH
Moderators:
Shanda Blackmon, Mayo Clinic, Rochester, MN
Daniel Miller, CTCA, Atlanta, GA
Stephen Yang, Johns Hopkins Medical Institutions, Baltimore, MD
Resident Moderator:
Yota Suzuki, University of Texas Medical Branch, Galveston, TX

9:00 am - 9:05 am
48. Delayed Esophageal Reconstruction: Indications, Techniques, and Outcomes
Christian Jacobsen¹, John Treffalls¹, Rebecca Medina¹, Marc Koch¹, Daniel DeArmond¹, Nitin Das¹, Scott Johnson¹
¹UT Health San Antonio, San Antonio, TX

9:05 am - 9:10 am
49. Analysis of Adjuvant Treatment for Localized Primary Pulmonary Sarcoma
*Larisa Shagabayeva¹, Ariana Mansur¹, Alexandra Potter², Lana Schumacher², Chi-Fu Yang²
¹Harvard Medical School, Boston, MA; ²Massachusetts General Hospital, Boston, MA

9:10 am - 9:15 am
50. Routine Implementation of Patient Reported Outcome Assessment Into Thoracic Surgery Practice
Aubriana Perez¹, Alicia Bonanno², Meredith Dixon¹, Manu Sancheti¹, Allan Pickens², Theresa Gillespie², Seth Force², Felix Fernandez¹, Onkar Khullar¹
¹Emory University School of Medicine, Atlanta, GA; ²Emory University Hospital, Atlanta, GA

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9:15 am - 9:20 am
51. Translation of Legislation: Effect Analysis of Michigan Opioid Law on Clinical Practice
Ross Michaels¹, Jacob Lowey¹, Brennan McMichael¹, Sonali Reddy¹, Charles Keilin¹, Jules Lin², William Lynch², Elliott Wakeam², Rishindra Reddy², Andrew Chang², Kiran Lagissey²
¹University of Michigan Medical School, Ann Arbor, MI; ²University of Michigan Health System, Ann Arbor, MI

9:20 am - 9:25 am
52. Long-Term Outcomes After Esophagectomy in Octogenarians
*Aimee Zhang¹, Jared Beller¹, Jolian Dahl¹, James Mehaffey¹, Matthew Byler¹, Adishesh Narahari¹, Linda Martin²
¹University of Virginia, Charlottesville, VA; ²University of Virginia Health System, Charlottesville, VA

9:25 am - 9:30 am
53. Thoracic Surgical Evaluation in Patients Undergoing Stereotactic Body Radiation Therapy for Early-Stage Non-Small Cell Lung Cancer
Marcelo Cerullo¹, Hui-Jie Lee¹, Christopher Kelsey², Norma Farrow, MD¹, Charles Scales², Betty Tong²
¹Duke University School of Medicine, Durham, NC; ²Duke University Medical Center, Durham, NC

9:30 am - 9:35 am
54. Completion Pneumonectomy for Non-Small Cell Lung Cancer: Does Induction Treatment Influence Postoperative Outcomes?
*Domenico Galetta¹, Lorenzo Spaggiari¹
¹European Institute of Oncology, Milan

9:35 am - 9:40 am
55. Robotic-Assisted Transthoracic Diaphragmatic Plication: A 3 Year Case Series
Hannah Marmor¹, Jonathan Nesbitt¹, Erin Gillaspie¹, Eric Lambright¹, Matthew Bacchetta¹, Donald Moe¹, Stephen Deppen¹, Eric Grogan¹
¹Vanderbilt University Medical Center, Nashville, TN

9:40 am - 9:45 am
56. Discharging Patients by Postoperative Day One After Robotic Anatomic Pulmonary Resection
*Travis Geraci¹, Stephanie Chang³, Dana Ferrari-Light³, Robert Cerfolio¹
¹New York University, New York, NY; ²NYU Langone Health, New York, NY; ³New York Presbyterian Queens, Flushing, NY

9:45 am - 9:50 am
57. Intraoperative Manipulation Does Not Impact Long-Term Outcomes for Patients Undergoing Lobectomy for Non-Small Cell Lung Cancer
Mark Hennon¹, Rene Bouchard², Adrienne Groman³, Sai Yendamuri¹, Samantha Meyo²
¹Roswell Park Comprehensive Cancer Center, Buffalo, NY; ²Nichols School, Buffalo, NY; ³Roswell Park Cancer Institute, Buffalo, NY

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FOURTH SCIENTIFIC SESSION B (CONT.)

9:20 am - 9:25 am
62. Right Ventricular Outflow Tract Reconstruction With 18+ PTFE conduits: Comparison Between Orthotopic vs Heterotopic Position
Carlos Diaz-Castrillon¹, Mario Castro-Medina², Melita Viegas², Jordann Lewis¹, Eric J. Hyzny¹, Luciana Da Fonseca Da Silva², Victor Morell²
¹University of Pittsburgh Medical Center, Pittsburgh, PA; ²UPMC Children’s Hospital of Pittsburgh, Pittsburgh, PA

9:25 am - 9:30 am
63. Alternative Cardiopulmonary Bypass Strategy is Associated With Improved Neurological Outcomes in Neonates and Infants Undergoing Cardiac Surgery
Abhishek Chakraborty¹, Umar Boston², Christopher Knott-Craig¹
¹University of Tennessee Health Science Center, Memphis, TN; ²Le Bonheur Children’s Hospital, Memphis, TN

9:30 am - 9:35 am
64. Subaortic Stenosis in Adult Patients With Atrioventricular Septal Defects
Elizabeth Stephens¹, Yalile Perez¹, William Miranda¹, Joseph Dearani¹
¹Mayo Clinic, Rochester, MN

9:35 am - 9:40 am
65. A Technique to Control and Stabilize Preservation of the Donor Heart During Transportation: Initial Experience With 47 Consecutive Heart Transplants, Including 24 Pediatric Heart Transplants
Eric Pruitt¹, Jeffrey Jacobs¹, Edward Staples¹, Giles Peek¹, Joseph Philip¹, Eric Jeng¹, Dipankar Gupta¹, F. Fricker¹, Mark Bleiweis¹
¹University of Florida, Gainesville, FL

9:40 am - 9:45 am
66. Single Ventricle Congenital Heart Disease and Chromosome 22q11 Copy Number Variants
Tracy Geoffrion¹, T. Blaine Crowley¹, Donna McDonald-McGinn¹, David Goldberg¹, Jonathan Chen¹, J. William Gaynor¹
¹Children’s Hospital of Philadelphia, Philadelphia, PA

10:00 am - 10:30 am
Break – Visit Exhibits

GENERAL SESSION:
Innovation, Teamwork & Excellence
10:30 am - 12:00 pm
CME Credits Available: 1.5
Location: Ellington Ballroom
Moderators:
Daniel Miller, CTCA, Atlanta, GA
Vinod Thourani, Piedmont Heart Institute, Atlanta, GA

10:30 am – 10:50 am
*Kent Trinkle Education Lectureship: The Evolution of Cardiac and Thoracic Surgery at the University of Michigan
Richard Prager, University of Michigan, Ann Arbor, MI

10:50 am – 11:15 am
The Resilience Bank Account: Skills for Optimal Performance?
Brian Ferguson, Human Potential, Future of Teams, Global Security

11:15 am – 11:45 pm
Pathways In Innovation
William Cohn, Texas Heart Institute, Houston, TX

11:45 am – 12:00 pm
Open Discussion
All

12:00 pm - 1:00 pm
Lunch on Own
Industry sponsored luncheons will also be available during this time.

Industry Symposia: Lunch (non-CME):
AtriCure
Location: Mercer Ballroom I
Edwards Lifesciences
Location: Mercer Ballroom GH
Terumo Aortic
Location: Dunwoody Room

1:00 pm - 1:30 pm
Break – Visit Exhibits

**Schedule and speakers subject to change.  V indicates STSA surgical video  *indicates virtual presentation**
FOURTH SCIENTIFIC SESSION C:
Simultaneous Coronary Artery Disease, Esophagus Outcomes, Congenital, Aorta, and Congestive Heart Failure
Breakout Sessions
1:30 pm - 2:30 pm
CME Credits Available: 1.0

Cardiac: Coronary Artery Disease Breakout
Location: Mercer Ballroom I
Moderators: Andrea Carpenter, University of Texas Health Science Center, San Antonio, TX
Lorraine Cornwell, Baylor College of Medicine, Houston, TX
V. Seenu Reddy, TriStar CV Surgery, Nashville, TN

1:30 pm - 1:45 pm
68. Emergency Coronary Artery Bypass Grafting in the United States: Regional Variation and Trends
William B. Keeling¹, Bradley Leshnower¹, Woodrow Farrington¹, Jane Wei¹, Jose Binongo², Michael Halkos¹
¹Emory University, Atlanta, GA; ²Rollins School of Public Health, Atlanta, GA
Discussant: John Gott, Piedmont Heart Institute, Atlanta, GA

1:45 pm - 2:00 pm
69. Analysis of Concomitant Coronary Artery Bypass and Surgical Ablation for Atrial Fibrillation in United States Veterans
Christopher Heid⁴, Jennie Meier⁴, Mitri Khoury¹, Raghad Chandra¹, Hashim Hanif¹, Matthias Peltz¹, Michael Jessen¹, Michael Wait¹
¹University of Texas Southwestern Medical Center, Dallas, TX
Discussant: Puja Kachroo, Washington University School of Medicine, Saint Louis, MO

2:00 pm - 2:15 pm
70. Does Side of Arteriovenous Fistula and Internal Thoracic Artery Influence Outcomes After Coronary Artery Bypass Grafting in Dialysis Patients?
Sri Harsha Patlolla¹, Nishant Saran¹, Joseph Dearani³, Kevin Greason¹, John Stulak¹, Alberto Pochettino¹, Richard Daly¹, Hartzell Schaff³, Juan Crestanello¹
¹Mayo Clinic, Rochester, MN
Discussant: Michael Halkos, Emory University, Atlanta, GA

2:15 pm - 2:30 pm
Invited Lecture
With All the Evidence, Why do Most Surgeons not do Arterial Grafting?
Faisal Bakaen, Cleveland Clinic, Cleveland, OH

Thoracic: Esophagus Outcomes Breakout
Location: Mercer Ballroom GH
Moderators:
Thomas Watson, Beaumont Health, Royal Oak, MI
Lisa Brown, University of California, Davis, Sacramento, CA
Keith Naunheim, St. Louis University School of Medicine, St. Louis, MO
Resident Moderator: Melissa Taylor, CVA Heart Institute, Gray, TN

1:30 pm - 1:42 pm
71. Clinical and Patient Reported Outcomes Following Long-Segment Supercharged Jejunal Interposition for Esophageal Reconstruction: Targeted Modifications to Improve Outcomes
Anita Mohan¹, Nandita Mahajan², Samir Mardini¹, Shanda Blackmon¹
¹Mayo Clinic, Rochester, MN; ²Montefiore Medical Center, Bronx, NY
Discussant: Leah Backhus, Stanford University, Stanford, CA

1:42 pm - 1:54 pm
72. Recuperation of Patient-Reported Quality of Life After Esophagectomy
Alicia Bonanno¹, Meredith Dixon², Jose Binongo³, Seth Force¹, Manu Sancheti², Allan Pickens², David Kooby⁴, Charles Staley⁴, Maria Russell⁴, Kenneth Cardona⁴, Mihir Shah⁴, Theresa Gillespie⁵, Felix Fernandez⁶, Onkar Khullar⁶
¹Emory University Hospital, Atlanta, GA; ²Emory University School of Medicine, Atlanta, GA; ³Rollins School of Public Health, Atlanta, GA; ⁴Emory University, Atlanta, GA
Discussant: Richard Whyte, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA

1:54 pm - 2:06 pm
73. The Upper Digestive Disease Mobile Application: A Comparison of Patient-Reported Outcome Scores Versus Provider Scores Among Post-Esophagectomy Patients
*Michael Traynor, Jr.¹, Linda Chlian¹, Kathleen Yost¹, Karlyn Pierson¹, Minji Lee¹, Shanda Blackmon¹
¹Mayo Clinic, Rochester, MN
Discussant: Virginia Little, Intermountain Healthcare, Murray, UT

2:06 pm - 2:18 pm
74. Pilot Study Using the Patient Reported Outcomes Measurement Information System (PROMIS) Following Esophageal Cancer Resection
Brendan Heiden¹, Melanie Subramanian¹, Esther Lu¹, Tracey Guthrie¹, Deirdre Epstein¹, Kathryn Engelhardt¹, Bryan Meyers¹, Varun Puri¹, Benjamin Kozower⁴
¹Washington University School of Medicine, St. Louis, MO; ²Barnes-Jewish Hospital, St. Louis, MO
Discussant: Rachel Medbery, CTVS Texas, Austin, TX

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2:18 pm - 2:30 pm
75. Upper Digestive Disease Application as a Digital Health Intervention to Collect Electronic Patient Reported Outcomes in Esophagectomy Patients: A Single Arm Pilot Trial
Shanda Blackmon¹, Linda Chlanx¹, Kathryn Ruddy¹, Karlyn Pierson¹, Amy Schrandt¹, Minji Lee¹, K. Robert Shen¹, Kathleen Yost¹
¹Mayo Clinic, Rochester, MN
Discussant: Erin Gillaspie, Vanderbilt University Medical Center, Nashville, TN

Congenital Breakout
Location: Dunwoody
Moderators:
Mark Bleiweis, University of Florida, Gainesville, FL
James Gangemi, University of Virginia Health System, Charlottesville, VA
Lauren Kane, Children's Hospital New Orleans, New Orleans, LA
Resident Moderator: Shawn Shah, Johns Hopkins All Children's Hospital, University of Virginia, Charlottesville, VA

1:30 pm - 1:45 pm
Invited Lecture
Are All Patients with Fontan Circulation Headed Towards Transplantation (Is Heart Transplantation Stage IV?)
Carl Backer, UK HealthCare Kentucky Children’s Hospital, Lexington, KY

1:45 pm - 2:00 pm
76. The Failed Bi-Directional Glenn Shunt: Risk Factors for Poor Outcomes and the Role of Early Reoperation
Jason Greenberg¹, Chase M. Pribble¹, Aashray Singareddy¹, Ngoc-Anh Ta², Anne Sescleifer¹, Andrew Fiore³, Charles B. Huddleston¹
¹Saint Louis University School of Medicine, St. Louis, MO; ²Swedish Medical Center, Seattle, WA; ³Saint Louis University, St. Louis, MO
Discussant: Immanuel Turner, Joe DiMaggio Children’s Hospital, Hollywood, FL

2:00 pm - 2:15 pm
2:15 pm - 2:30 pm
78. Assessment of Current STS Data Elements for Adults With Congenital Heart Disease
Jennifer Nelson¹, Castiglione Bhamidipati², Leora Yarboro³, Jeffrey Jacobs⁴, Ram Kumar Subramanyan⁵, Donna McDonald⁶, Carole Krohn⁶, John Mayer, Jr.⁷, Leigh Ann Jones⁸, Frank Scholl⁹
¹Nemours Children’s Hospital, Orlando, FL; ²Oregon Health and Science University, Portland, OR; ³University of Virginia, Charlottesville, VA; ⁴University of Florida, Gainesville, FL; ⁵University of Southern California, Los Angeles, CA; ⁶The Society of Thoracic Surgeons, Chicago, IL; ⁷Boston Children’s Hospital Harvard Medical School, Boston, MA; ⁸Joe DiMaggio Children’s Hospital, Hollywood, FL
Discussant: Ziv Beckerman, University of Texas Dell Medical School / Dell Children’s Hospital, Austin, TX

Congestive Heart Failure Breakout
Location: Ravinia Room
Moderators:
Rosemary Kelly, University of Minnesota Minneapolis, MN
Arun Krishnamoorthy, Piedmont Heart Institute, Atlanta, GA
Mark Slaughter, University of Louisville, Louisville, KY
Resident Moderator: Erin Schumer, Mayo Clinic, Rochester, MN

1:30 pm - 1:45 pm
79. Heart Transplantation for Peripartum Cardiomyopathy: Improving Outcomes and Diminishing Racial Disparities Over Time
Jennie Kwon¹, Ryan Tedford¹, Lucas Witer¹, Nicolas Pope¹, Brian Houston¹, Marc Katz¹, Arman Kilic¹
¹Medical University of South Carolina, Charleston, SC
Discussant: Ashish Shah, Vanderbilt University Medical Center, Nashville, TN

1:45 pm - 2:00 pm
80. Rejection in Heart and Lung Transplant with Hepatitis C Donors
Asvin Ganapathi¹, Matthew Henn¹, Brian Keller¹, Sakima Smith¹, Nahush Mokadam¹, Bryan Whitson¹
¹The Ohio State University Wexner Medical Center, Columbus, OH
Discussant: Mauricio Villavicencio, Mayo Clinic, Rochester, MN

2:00 pm - 2:15 pm
81. Impact of Increased Donor Distance Following Adult Heart Allocation System Changes: A Single Center Review of One-Year Outcomes
Zakir Rahaman¹, Emilee Larson¹, Tarek Absi¹, William McMaster, Jr.¹, Keki Balsara¹, Ashish Shah¹, Jordan Hoffman¹
¹Vanderbilt University Medical Center, Nashville, TN
Discussant: Ahmet Kilic, Johns Hopkins Hospital, Baltimore, MD

**Schedule and speakers subject to change. V indicates STSA surgical video *indicates virtual presentation**
FOURTH SCIENTIFIC SESSION C (CONT.)

**2:15 pm - 2:30 pm**

**Invited Lecture**

Techniques for Bridge to Transplant
Mani Daneshmand, Emory University, Atlanta, GA

**Aorta Breakout**

**Location:** Ellington Ballroom

**Moderators:**
Edward Chen, Duke University Medical Center, Durham, NC
Dawn Hui, University of Texas Health Science Center at San Antonio, San Antonio, TX
John A. Kern, University of Virginia Health System, Charlottesville, VA

**Resident Moderator:** Steven Buckeridge, Morehouse School of Medicine, Atlanta, GA

1:30 pm - 1:45 pm

**82. Selective Sinus Replacement for Aortic Root Aneurysm: Durable Approach in Selected Patients**
Andrew Vekstein¹, Charles WojnarSKI¹, E. Hope Weissler¹, Ryan Plichta¹, Jacob Schroder¹, G. Chad Hughes¹

¹Duke University Medical Center, Durham, NC

**Discussant:** Anthony Estrera, University of Texas Houston Medical School, Memorial Hermann Hospital, Houston, TX

1:45 pm - 2:00 pm

**83. Long Term Results of the Modified Bentall Procedure: A 21-Year Experience in Composite Graft Replacement for Aortic Root Disease**
Paul Werner¹, Jasmin Gritsch¹, Iuliana Coti¹, Alfred Kocher¹, Stephane Mahr¹, Guenther Laufer¹, Martin Andreas¹, Marek Ehrlich¹

¹Medical University of Vienna, Vienna

**Discussant:** Eric Roselli, Cleveland Clinic, Cleveland, OH

2:00 pm - 2:15 pm

**84. Aortic Valve Repair Decreases Risks Of Valve-Related Events In Aortic Insufficiency At 10 Years: A Propensity Score-Matched Analysis**
Habib Jabagi¹, Munir Boodhwani²

¹University of Michigan, Ann Arbor, MI; ²University of Ottawa Heart Institute, Ottawa, Ontario

**Discussant:** S. Chris Malaisrie, Northwestern University, Chicago, IL

**2:15 pm - 2:30 pm**

**Invited Lecture**

How History Will Shape the Future of Aortic Surgery
Joseph Coselli, Texas Heart Institute/Baylor College of Medicine, Houston, TX

2:30 pm - 3:00 pm

Break – Visit Exhibits

**FIFTH SCIENTIFIC SESSION**

**3:00 pm – 4:00 pm**

**CME Credits Available: 1.0**

**Location:** Ellington Ballroom

**Moderators:**
Daniel Miller, CTCA, Atlanta, GA
Vinod Thourani, Piedmont Heart Institute, Atlanta, GA
Stephen Yang, Johns Hopkins Medical Institutions, Baltimore, MD

**Resident Moderator:** Irina Kolesnik, University of Maryland School of Medicine, Baltimore, MD

3:00 pm - 3:15 pm

**85. Predictors of 30-Day Postoperative Pulmonary Complications in Veterans Undergoing Video-Assisted Thoracoscopic Lobectomy**
Timothy Holleran¹, Michael Napolitano², John Duggan³, Alex Peters³, Richard Amdur², Jared Antevil⁴, Gregory Trachiotis⁴

¹MedStar Georgetown University Hospital, Washington, DC; ²George Washington University Hospital, Washington, DC; ³Walter Reed National Military Medical Center, Bethesda, MD; ⁴Washington DC VA Medical Center, Washington, DC

**Discussant:** Philip Carrott, University of Virginia, Charlottesville, VA

3:15 pm - 3:30 pm

**86. Progression of The Aortic Root Based on Long-Term Imaging Studies After Acute Type-A Dissection Surgery**
Faraz Longi¹, Felix Orelaru², Aroma Naeem¹, Xiaoting Wu¹, Karen Kim¹, Shinichi Fukuhara¹, Himanshu Patel¹, G. Michael Deeb¹, Bo Yang¹

¹University of Michigan, Ann Arbor, MI; ²St. Joseph Mercy Hospital, Ann Arbor, MI

**Discussant:** G. Chad Hughes, Duke University Medical Center, Durham, NC

3:30 pm - 3:45 pm

**87. Long-Term Survival Following Intervention for Functional Single Ventricle Heart Disease: A 15-Year Analysis From a Single Institution**
Alexander Zhu¹, James Meza², Andrew McCrory², Veerajalandhar Allareddy³, Andrew Lodge³, Joseph Turek¹, Nicholas Andersen³

¹Duke University School of Medicine, Durham, NC; ²Duke University Medical Center, Durham, NC

**Discussant:** James Quintessenza, Johns Hopkins All Children's Hospital, St. Petersburg, FL

**Schedule and speakers subject to change. V indicates STSA surgical video *indicates virtual presentation**
FIFTH SCIENTIFIC SESSION (CONT.)

3:45 pm - 4:00 pm

88. Demographics of Integrated Thoracic Surgery Applicants and Residents: Is There a Leaky Pipeline or Weak Stream?
Jacqueline Olive¹, Justin Robinson², Alexander Brescia³, Jason J. Han⁴, John Heney⁵, Joseph Forbess⁶, Thomas Varghese, Jr.⁷, Leah Backhus⁸, David Cooke⁹, Lorraine Cornwell¹⁰, Ourania Preventza¹
¹Baylor College of Medicine, Houston, TX; ²Michigan State University, East Lansing, MI; ³University of Michigan, Ann Arbor, MI; ⁴Hospital of the University of Pennsylvania, Philadelphia, PA; ⁵Duke University Medical Center, Durham, NC; ⁶University of Maryland, Baltimore, MD; ⁷University of Utah, Salt Lake City, UT; ⁸Stanford University, Stanford, CA; ⁹UC Davis Health, Sacramento, CA
Discussant: Rosemary Kelly, University of Minnesota, Minneapolis, MN

STSA ANNUAL BUSINESS MEETING
4:00 pm - 4:45 pm
Location: Ellington Ballroom
Members Only
All new STSA Members are required to attend.

RECEPTION
7:00 pm - 7:30 pm
Location: Ellington Foyer

DINNER GALA
7:30 pm - 10:00 pm
Location: Ellington Ballroom

SATURDAY, NOVEMBER 6, 2021

STSA POSTGRADUATE BREAKOUT SESSIONS
8:00 am - 9:30 am
CME Credits Available: 1.5

Hot Controversies In Cardiac Surgery Breakout
Location: Ellington Ballroom
Moderators:
Juan Crestanello, Mayo Clinic, Rochester, MN
Joseph Lamelas, University of Miami Health System, Miami, FL
Bradley Leshnower, Emory University, Atlanta, GA

8:00 am - 8:20 am
Surgical and Transcatheter Management of Mitral Annular Calcification
Robert Smith, Baylor Scott & White: The Heart Hospital Plano, Plano, TX
Brian Bethea, MedStar Union Memorial Hospital, Baltimore, MD

8:20 am - 8:40 am
Moving the Needle on the Undertreatment of Atrial Fibrillation
Marc Moon, Washington University School of Medicine, St. Louis, MO

8:40 am - 9:00 am
Mini-VAD vs Full Sternotomy VAD
Sagar Damle, Piedmont Heart Institute, Atlanta, GA

9:00 am - 9:20 am
I’ll Recommend a SAVR in My Low Risk 65yo Patient and I’ll Recommend a TAVR in My Low Risk 65yo Patient
Tom MacGillivray, Houston Methodist DeBakey Heart and Vascular Institute, Houston, TX
Tom Nguyen, University of California San Francisco, San Francisco, CA

9:20 am - 9:30 am
Open Discussion

**Schedule and speakers subject to change.  V indicates STSA surgical video  *indicates virtual presentation**
STSA POSTGRADUATE BREAKOUT SESSIONS (CONT.)

Hot Controversies In Thoracic Surgery Breakout
Location: Mercer Ballroom GH
Moderators:
M. Blair Marshall, Brigham and Women's Hospital, Boston, MA
Daniela Molena, Memorial Sloan Kettering Cancer Center, New York, NY

8:00 am - 8:20 am
Regionalization of Care in Esophageal Surgery
Thomas Watson, Beaumont Health, Detroit, MI

8:20 am - 8:40 am
Update on Extracorporeal Lung Preservation
Mani Daneshmand, Emory University, Atlanta, GA

8:40 am - 9:00 am
Robotic Bronchoscopy
Luis Herrera, UF Health Cancer Center – Orlando Health, Orlando, FL

9:00 am - 9:20 am
State of the Art for Thoracic Simulation
Lana Schumacher, Massachusetts General Hospital, Boston, MA

9:20 am - 9:30 am
Open Discussion

Hot Controversies In Congenital Surgery Breakout
Location: Mercer Ballroom I
Moderators:
Jeffrey Jacobs, University of Florida, Gainesville, FL
Jennifer Nelson, Nemours Children's Hospital, Orlando, FL
James St. Louis, Children's Hospital of Georgia, Augusta, GA

8:00 am - 8:20 am
Update on Regionalization of Congenital Heart Surgery
Carl Backer, UK HealthCare Kentucky Children's Hospital, Lexington, KY

8:20 am - 8:40 am
Update on Regionalization of Congenital Heart Surgery - Q&A
Panel Discussion

8:40 am - 8:55 am
Congenital Clinical Trial Collaboration - The Pediatric Heart Network
Jennifer Romano, University of Michigan Medical School, Ann Arbor, MI

8:55 am - 9:10 am
Congenital Clinical Trial Collaboration - The Stress Network
Kevin Hill, Duke University, Durham, NC

9:10 am - 9:30 am
Panel Discussion

9:30 am - 10:00 am
Break

STSA POSTGRADUATE GENERAL SESSION:
Standing on the Shoulders of Giants
10:00 am - 12:00 pm
CME Credits Available: 2.0
Location: Ellington Ballroom
Moderators: Damien LaPar, University of Texas, Houston
Children's Heart Institute, Houston, TX
Daniel Miller, CTCA, Atlanta, GA
Vinod Thourani, Piedmont Heart Institute, Atlanta, GA

10:00 am - 10:35 am
Legend on Legend Interview
Joseph Bavaria, University of Pennsylvania, Philadelphia, PA
Michael Mack, Baylor Scott and White - The Heart Hospital, Plano, TX
Interview moderated by Vinod Thourani, Piedmont Heart Institute, Atlanta, GA

10:35 am - 10:45 am
Open Discussion

10:45 am - 11:00 am
Changing The Way Residents are Trained: Preparing for the Future
John Calhoon, University of Texas Health Science Center at San Antonio, San Antonio, TX

11:00 am - 11:10 am
Open Discussion

11:10 am - 11:25 am
Update on the Changes for the STS Database and Using the Database to Further Enhance Your Practice
Felix Fernandez, Emory University, Atlanta, GA

11:25 am - 11:35 am
Open Discussion

11:35 am - 11:50 am
Practical Lessons in Leadership
*Sean Grondin, University of Calgary, Foothills Medical Centre, Calgary, AB, Canada

11:50 am - 12:00 pm
Open Discussion

MEETING ADJOURNED
12:00 pm

**Schedule and speakers subject to change.  V indicates STSA surgical video  *indicates virtual presentation
Scientific posters will be on display in the meeting space foyer during the course of the meeting. Stop by during a scheduled break to review the following posters:

### ADULT CARDIAC SURGERY POSTERS

**AC-P1.** A Bridge-to-Bridge Strategy From Intra-Aortic Balloon Pump to Left Ventricular Assist Device Is Associated With Non-Inferior Post-Transplant Outcomes

Alice Zhou¹, Benjamin Shou¹, Iulia Barburi¹, Katherine Giuliano¹, Eric Etchill¹, Chun Choi¹, Ahmet Kilic²

¹Johns Hopkins School of Medicine, Baltimore, MD; ²Johns Hopkins Hospital, Baltimore, MD

**AC-P2.** Extracorporeal Membrane Oxygenation Use in Severe COVID Pneumonia

Erik Scott¹, Alexander Wisniewski¹, James Mehaffey¹, Robert Hawkins¹, Kyle Enfield¹, Alexandra Kadi¹, Kenan Yount¹, Leora Yarboro¹, Nicholas Teman¹

¹University of Virginia, Charlottesville, VA

**AC-P3.** Real Time Electrophysiological Mapping for Surgical Epicardial Ablation in Recurrent Ventricular Arrhythmias

William McMaster, Jr¹, Daniel Freno¹, Arvindh Kanagasundram¹, William Stevenson¹, Ashish Shah¹

¹Vanderbilt University Medical Center, Nashville, TN

**AC-P4.** Improving Prediction of AKI After CABG: An Exploratory Analysis of the ACEF Tool

Connor McDonald¹, Amber Warren¹, Dawn Hui¹, Joshua Walker¹, Edward Sako¹

¹University of Texas Health Science Center at San Antonio, San Antonio, TX

**AC-P5.** Hybrid Ablation of Atrial Fibrillation in Patients With Heart Failure is Safe and Effective

Armin Kiankhooy¹, Carolyn Pierce¹, Shelby Burk¹, Susan Eisenberg¹, Gansevoort Dunnington, Jr.¹

¹Adventist Health - St. Helena, St. Helena, CA

**AC-P6.** Clinical Predictors of Cerebrovascular Accident in Patients Undergoing Isolated Coronary Artery Bypass Grafting: A Veterans Affairs Surgical Quality Improvement Program Analysis

Michael Napolitano¹, Timothy Holleran², Jessica Lapiano³, Suzanne Arnott¹, Andrew Sparks², Jared Antevil³, Gregory Trachiotis³

¹George Washington University Hospital, Washington, DC; ²MedStar Georgetown University Hospital, Washington, DC; ³Washington DC VA Medical Center, Washington, DC

**AC-P7.** Twenty-Year United States National Demographic and Regional Mortality Trends From Traumatic Thoracic Aortic Injury, 1999 to 2019

Mariam Sharifi¹, Ashish Kumar², John Stulak¹

¹Mayo Clinic, Rochester, MN; ²Cleveland Clinic, Cleveland, OH

**AC-P8.** Significant Mitral Regurgitation Associated With LVAD Implantation Modulates the Human Myocardial Transcriptome

Neal Duggal¹, Ienglam Lei¹, Jonathan Haft¹, Matthew Romano¹, Steven Bolling¹, Ashraf Abou El Ela¹, Gorav Ailawadi¹, Francis Pagani¹, David Nordsletten¹, Hugo Lam², Paul Tang¹

¹University of Michigan, Ann Arbor, MI; ²Hypahub, Inc., Sunnyvale, CA

**AC-P9.** Temporal Cluster Analysis of Deep Sternal Wound Infection in a Regional Quality Collaborative

Erik Scott¹, William Kane², Sarah Ratcliffe¹, Mark Smolkin¹, James Mehaffey¹, Robert Hawkins¹, Raymond Strobel¹, Alan Speir², Mark Joseph², Leora Yarboro¹, Nicholas Teman³

¹University of Virginia, Charlottesville, VA; ²INOVA Heart and Vascular Institute, Falls Church, VA; ³Carilion Clinic, Roanoke, VA
CONGENITAL POSTERS

CONG-P1. Hospitalizations of Children and Adults With Hypoplastic Left Heart Syndrome in Texas From 2009 - 2019
Andrew Well¹, Catherine Dawson¹, Gregory Johnson², Hanoch Patt³, Charles Fraser, MD¹, Carlos Mery¹, Ziv Beckerman¹
¹University of Texas at Austin Dell Medical School, Austin, TX; ²Texas Center for Pediatric and Congenital Heart Disease, Austin, TX

CONG-P2. Impact of Graft Size on Pulmonary Functions Tests in a Pediatric Lung Transplantation Cohort
Carlos Diaz-Castrillon¹, Melita Viegas², Eric J. Hynsy³, Mario Castro-Medina², Geoffrey Kurland⁴, Victor Morell²
¹University of Pittsburgh Medical Center, Pittsburgh, PA; ²UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA

CONG-P3. Outcomes of Mitral Valve Replacement With a Handmade Valve Using Porcine Extracellular Matrix in Neonates and Infants
Frank Scholl¹, Mark Ruzmetov¹, Immanuel Turner¹, Steve Bibevski¹
¹Joe DiMaggio Children's Hospital, Hollywood, FL

CONG-P4. Biventricular Conversion After Left Ventricular Recruitment Procedure in Patients With Hypoplastic Left Heart Variant
Christopher Greenleaf¹, Julija Dobrila¹, Blaz Podgorsek¹, Santosh Uppu¹, Jorge Salazar¹
¹McGovern Medical School at UTHealth, Houston, TX

THORACIC POSTERS

GT-P1. Tissue Plasminogen Activator Alone With Prolonged Dwell Time Effectively Evacuates Complex Pleural Effusions
Alexandra Townsend¹, Harsha Raju¹, Krystina Serpa³, Rachel Pruett³, Syed Razi³, Francisco Tarrazzi³, Catherine Tami³, Mark Block²
¹Florida International University Herbert Wertheim College of Medicine, Miami, FL; ²Memorial Healthcare System, Hollywood, FL

GT-P2. Single Institution Experience With COVID-19 Patients Suffering From Pneumomediastinum
John Waters¹, Tanya Pothini¹
¹University of Texas Southwestern Medical Center, Dallas, TX

GT-P3. Novel Robotic Approach to Lung Volume Reduction Surgery Results in Excellent Short-Term Outcomes
Kristen Walker¹, Mindaugas Rackauskas¹, Mauricio Pipkin¹, Olusola Oduntan¹, Abbas Shahmohammadi¹, Sravanthi Nandavaram¹, Andres Pelaye¹, Tiago Machuca¹
¹University of Florida, Gainesville, FL

GT-P4. Clinical Snapshot: Current Practice Patterns in General Thoracic Surgery
Peter Drevets¹, Fairouz Chibane¹, Melanie Edwards², Keith Naunheim³, Richard Lee¹
¹Augusta University Medical Center, Augusta, GA; ²IHA Cardiovascular & Thoracic Surgery, Ypsilanti, MI; ³St. Louis University School of Medicine, St. Louis, MO

Fatima Wilder¹, Zachary Enumah¹, Jinny Ha², Bo Soo Kim¹, Sung-Min Cho¹, Michael Grant², Stephen Broderick¹, Stephanie Cha¹, Ferdinand Hi¹, Errol Bush¹
¹Johns Hopkins University Medical Center, Baltimore, MD; ²Johns Hopkins University School of Medicine, Baltimore, MD

GT-P6. Lobectomy Provides Best Survival for Stage I Lung Cancer Patients Despite Advanced Age
Edward Chan¹, Farshad Amirkhosravi¹, Duc Nguyen¹, Ray Chihara¹, Edward Graviss¹, Min Kim¹
¹Houston Methodist Hospital, Houston, TX
GT-P7. Where Does the Time Go? Transitioning From VATS to Robotic Lung Resection: Opportunities for Improvement in Efficiency
Michael Weyant¹, Anna Gergen²
¹INOVA Hospital System, Fairfax, VA; ²University of Colorado, Aurora, CO

GT-P8. Analysis of Adjuvant Treatment for Localized Primary Pulmonary Carcinosarcoma
Arian Mansur¹, Larisa Shagabayeva¹, Alexandra Potter², Lana Schumacher², Chi-Fu Yang²
¹Harvard Medical School, Boston, MA; ²Massachusetts General Hospital, Boston, MA

GT-P9. Change in Total Psoas Area in Patients Undergoing Esophagectomy
AlleaBelle Gongola¹, Jace Bradshaw², David Strain², Kevin Sexton², Jason Muesse²
¹University of Kentucky College of Medicine, Lexington, KY; ²University of Arkansas for Medical Sciences, Little Rock, AR

GT-P10. Vein-First vs. Artery-First Robotic Lobectomy Outcomes in Non-Small Cell Lung Cancer
Gagandip Singh¹, Peter Abraham², James Donahue², Benjamin Wei²
¹UAB School of Medicine, Birmingham, AL; ²University of Alabama at Birmingham, Birmingham, AL

GT-P11. Modeling the COVID Pandemic: Do Delays in Surgery Justify Using Stereotactic Radiation to Treat Early Stage Non-Small Cell Lung Cancer?
Lifen Cao¹, Philip Linden¹, Stephanie Worrell³, Tithi Biswas³, Jillian Sinopoli¹, Megan Miller¹, Robert Shenk¹, Christopher Towe¹
¹University Hospitals Cleveland Medical Center, Cleveland, OH; ²University Hospital and Case Western Reserve University, Cleveland, OH; ³University Hospitals Seidman Cancer Center, Case Western Reserve University, Cleveland, OH

GT-P12. Final Distensibility Index After LINX Placement Does Not Correlate With Post-Operative Dysphagia
Shawn Purnell¹, Duc Nguyen¹, Edward Chan¹, Ray Chihara¹, Edward Graviss¹, Min Kim¹
¹Houston Methodist Hospital, Houston, TX
SCIENTIFIC VIDEOS

Scientific videos will be on rotation in the meeting space foyer during the course of the meeting. Stop by to watch the following videos:

**ADULT CARDIAC SURGERY VIDEOS**

**AC-V1. The Supported Ross Procedure**
William Brinkman¹, William Ryan¹, Katherine Harrington¹
¹Baylor Scott & White, The Heart Hospital, Plano, TX

**AC-V2. Robotic Redo Mitral Valve Replacement and Left Ventricular Pseudoaneurysm Repair Secondary to Atrioventricular Dissociation**
Panos Vardas¹, Raymond Lopez¹, Richard Stephens¹, Charles Tyndal, Jr², James Davies, Jr³, Clifton Lewis, T.P.¹
¹University of Alabama at Birmingham, Birmingham, AL

**AC-V3. Severe Mitral Regurgitation Following Migration of Percutaneous Occluder Device for Post-Infarct Ventricular Septal Defect**
Kirsten Freeman¹, John Spratt¹, Tyler J. Wallen¹, Tomas Martin¹
¹University of Florida, Gainesville, FL

**AC-V4. Open Repair of Aortic Arch Mycotic Pseudoaneurysms With Distal Perfusion**
Jeffrey Clemence, Jr.¹, Bo Yang¹
¹University of Michigan, Ann Arbor, MI

**AC-V5. Minimally Invasive Tricuspid Valve Repair**
Lauren Barron¹, Muhammad Masood¹
¹Washington University School of Medicine, St. Louis, MO

**AC-V6. Konno Procedure for Patient-Prosthesis Mismatch**
Neil Venardos¹, Joseph Cleveland, Jr.¹, David Campbell¹, T. Brett Reece¹
¹University of Colorado, Aurora, CO

**THORACIC SURGERY VIDEOS**

**GT-V1. Robot-Assisted Thoracoscopic Lobectomy of T4 Lung Cancer**
Anuj Shah¹, John Nance¹, Ray Chihara¹, Edward Chan¹, Min Kim¹
¹Houston Methodist Hospital, Houston, TX

**GT-V2. Complex Traumatic Hiatal Hernia Repair With the Robotic Platform**
Ealaf Shemmeri¹, M. Blair Marshall²
¹Albany Medical Center, Albany, NY; ²Brigham and Women’s Hospital, Boston, MA
GENERAL INFORMATION

MEETING LOCATION
Loews Atlanta Hotel
1065 Peachtree Street NE
Atlanta, Georgia 30309
(404) 745-5000

We welcome you to join STSA at the Loews Atlanta Hotel. Walk into a stylish new atmosphere where contemporary Southern style meets classic luxury. Located in the heart of midtown Atlanta, Loews Atlanta Hotel exceeds expectations by providing experiences through personal engagement and putting you first.

A Statement from Loews Hotels regarding COVID-19:
At Loews Hotels & Co, the safety and well-being of our guests, team members and communities is always a top-priority. We understand the concerns which surround the COVID-19 pandemic, and that's why we have created Welcoming you like Family, to remind our guests, customers and neighbors of the continuous efforts we make on a daily basis and new measures we have added, to provide a welcoming and clean environment at our hotels. For up-to-date information on current safety protocols, please visit https://www.loewshotels.com/protocols

A Statement from STSA regarding COVID-19:
The health, safety and well-being of STSA members, meeting attendees, guests, exhibitors, and staff is of the utmost importance. STSA staff and leadership continue to monitor the developments related to the COVID-19 pandemic and the CDC’s guidelines on small large gatherings. STSA is implementing several steps to ensure the safest environment possible during the STSA 68th Annual Meeting. All meeting attendees, including guests, exhibitors, and vendors, will be required to:

1. Show proof of full vaccination against COVID-19, or a negative COVID-19 test within 72 hours of checking in at the STSA 68th Annual Meeting registration desk;
2. Acknowledge they have read and submit a signed or agreed to COVID-19 Safety Acknowledgement – Assumption of the Risk, Liability Waiver and Release of Claims document posted here.
3. Wear a well-fitted mask during all indoor activities, educational sessions, and events. Attendees are also encouraged to wear a well-fitted mask outdoors when not actively eating or drinking.

Please take note of these protocols. Additional information will be available in the coming weeks.

GETTING AROUND ATLANTA

Airport Transportation
Atlanta is home to the busiest and most efficient airport in the world: Hartsfield-Jackson Atlanta International Airport. For international arrivals, the airport offers a free, 24-hour International Shuttle Connector that connects the International Terminal with the Domestic Terminal’s ground transportation center, including MARTA.

Taxi Service
Taxicabs are another great option to get you where you need to go, with flat rates available between the airport and areas like downtown, Midtown and Buckhead. Zone Fare vs. Metered Fare in Atlanta is unique from most cities, because there are flat rate zones inside the city limits.

Limos and Shuttle Service
Whether you are planning a special night on the town or you need to arrange transportation for a large group, Atlanta’s shuttle and limousine services are at your disposal. Use a shuttle service for a quick trip to the airport or hire a limousine when it’s easier to let someone else do the driving. No matter the need, Atlanta businesses are happy to get you where you need to be.

Shared or Private Car Service
The emergence of rideshare apps such as Uber and Lyft are also convenient options for getting around Atlanta. Schedule a reservation or find the airport’s designated pick-up and drop-off locations that will help to make your visit to Atlanta effortless.

MARTA
MARTA, Atlanta’s public transportation system, offers easy-to-navigate rail and bus service with fares starting at $2.50. Accessible directly from the airport, MARTA provides public transportation that is convenient, safe and clean.

Parking
The Loews Atlanta Hotel offers two options for locals who require parking at the hotel. Self-parking is available for $32 and valet parking is available for $45.
ACTIVITIES AND ENTERTAINMENT

HOSPITALITY SUITE
Thursday, November 4 – Saturday, November 6
Location: King Boardroom
Time: 8:30 am – 11:00 am
STSA is providing a hospitality room for your spouse or guest to mingle with other spouses and guests and to make plans for exploring Atlanta.

RESIDENTS RECEPTION
Thursday, November 4
Location: Saltwood Restaurant (Hotel Lobby)
Cost: Complimentary for Residents
Time: 6:00 pm - 7:00 pm
Residents and medical students are encouraged to attend this function to meet other residents and students, and network with leaders in the field.

PRESIDENT’S MIXER
Thursday, November 4
Location: Terrace (14th Floor)
Time: 7:00 pm - 9:00 pm
Cost: Complimentary
Gather with fellow meeting attendees for an evening of networking and fun. Attendees receive two tickets with registration. Additional tickets may be purchased for $25.00.

DINNER GALA
Friday, November 5
Location: Ellington Foyer & Ballroom
Reception: 7:00 pm - 7:30 pm
Dinner: 7:30 pm - 10:00 pm
Cost: $125.00 per adult / $40.00 per child (ages 12 and younger)
Advanced registration recommended. A limited number of tickets will be sold on site.

Join fellow meeting attendees and their families for the always-memorable Dinner Gala, complete with a cocktail reception, dinner, awards and music entertainment. A local band will provide easy listening during the reception as well as through the dinner hour. Black tie or cocktail attire is welcome; come comfortable and prepared for an evening of fun where you can reconnect with friends, families and colleagues!

ATLANTA ACTIVITIES AND LOCAL EXCURSIONS
Learn more about Atlanta and review the multitude of activities available to you and your family during your stay.

City Pass: Bundled/discounted access to five area attractions are available through City Pass.

Savings in the City: A la carte discounts on attractions, tours, and dining are available to meeting attendees.

FOR ADDITIONAL INFORMATION
Contact STSA at (312) 202-5892 or email stsa@stsa.org.