

STSA 70thth Annual Meeting
November 2-5, 2023
Loews Sapphire Falls Resort at Universal Studios Orlando
Orlando, FL

Program Outline*

Thursday, Nov. 2, 2023

6:30 pm – 7:00 pm **Postgraduate Welcome Reception**

7:00 pm – 9:00 pm **Postgraduate Video Session**

1. Radical Resection of Pediatric Anterior Mediastinal Atypical Spindle Cell
2. Technique of Axillary Insertion of Intra-Aortic Balloon Pump
3. Open Pectus Repair with Biomaterial Stabilization
4. Proximal-First Zone 2 Arch Repair Using a Trifurcated graft for Acute Type A Aortic Dissection
5. Novel technique for implantation of Stented Jugular Vein Valve at Left AVV location
6. Minimally Invasive Intra-thoracic Rib Fixation - a Two-year Experience
7. Repair of Large Inferior Left Ventricular Aneurysm with Transventricular Mitral Valve Replacement
8. Novel Technique for Unroofing an Anomalous Coronary Artery
9. Robotic Right Upper Lobe Apical Segmentectomy

Friday, Nov. 3, 2023

7:00 am – 8:00 am

Basic Science Forum

5-minute presentation / 5-minute open discussion with audience

1. Genetic Profiles of Iatrogenic Tracheal Stenosis: Identifying Molecular Targets and Potential Therapeutic Options
2. Comparison of Different Porcine Models Simulating Myocardial Cold Ischemia of the Pediatric Donor Heart
3. Inhaled Hydrogen Gas Attenuates Neurologic Injury Following Warm Ischemia
4. Detecting Molecular Residual Esophageal Adenocarcinoma by Utilizing Circulating Tumor DNA - Preliminary Data
5. What is the Weakest Point of a Secured Aortic Cannula in Central Extracorporeal Membrane Oxygenation
6. Tricuspid Anteroposterior Patch (TAP) Repair: Optimization of Patch Geometry in an Ex Vivo Model

General Thoracic Rapid Fire Session

3-minute presentation / 2-minute open discussion with the audience

1. Association of Gas Prices and Access Costs With Lung Cancer Outcomes in the United States
2. Evaluation of The Safety of Telehealth For The Initial Surgical Evaluation Of General Thoracic Patients

3. Treatment of Unsuspected T4 Non-small-cell Lung Cancer with Additional Intrapulmonary Nodules
4. Assessment of Lymph Node Evaluation Standard in Patients Undergoing Pulmonary Resection for Clinical Stage IA NSCLC
5. TPX2 as a Novel Tumor Marker for Non-Small Cell Lung Cancer
6. Results of Surgery and Stereotactic Body Radiotherapy for Stage I Small Cell Carcinoma of the Lung: A 25-Year Single-Institution Experience
7. Clinical Utility of Pre-operative Plasma Next Generation Sequencing in Early-Stage Lung Cancers
8. Safety and Efficacy of Robotic First Rib Resection With Adjuvant Endovascular Therapy for Paget Schroetter Syndrome
9. Access to Minimally Invasive Lung Cancer Surgery among Medicare Beneficiaries is Limited More by Rurality and Poverty than Race
10. Morbidity and Mortality After Anti-reflux and Hiatal Hernia Surgery Across a Spectrum of Ages

7:50 am – 8:00 am BREAK

8:00 am – 10:30 am **First Scientific Session**

*5-minute presentation / 2 minute assigned discussant / 8-minute open discussion with audience
1 minute lectureship introduction / 10 minute talk*

1. Adherence Concomitant Treatment of Atrial Fibrillation in Isolated Coronary Artery Bypass Grafting
2. Adherence to Post-Operative Survivorship Quality Metrics Is Associated With Improved Outcomes in Early-Stage Non-Small Cell Lung Cancer
3. Risk of Reoperative Cardiac Surgery in Congenital Heart Disease: A Society of Thoracic Surgeons Congenital Heart Surgery Database Study
4. Nationwide Comparison of Incidence and Outcomes of Permanent Pacemaker Insertion After Surgical Versus Transcatheter Aortic Valve Replacement
5. Segmentectomy vs. Lobectomy for Patients With 2-3cm Non-Small-Cell Lung Cancers
6. An analysis of 112 patients with Congenital Heart Disease undergoing Cardiac Transplantation: The Impact of Pre-transplant Ventricular Assist Device
7. Lower Socioeconomic Status Impacts Readmission After Left-Sided Valve Replacement for Infective Endocarditis: A Nationwide Analysis of 13,694 Patients
8. Long-term esophageal cancer survivors struggle with severe symptoms after curative esophagectomy
9. Machine Learning Analysis of 40,000 Manuscripts Reveals Increased Focus on Clinical Research Among Academic Cardiac Surgeons
10. Harold Urschel History Lectureship: Alton Ochsner, Sr., King of Carnival...and Lung Cancer

10:30 am – 11:00 am BREAK / Visit Exhibit Hall / CT Surgery Masters Showdown Round 1

11:00 am – 11:05 am **2022 TSF/STSA Resident Research Award Recipient Presentation**

Qimeng Gao, MD, MHS

Duke University Medical Center

The Delivery of PD-L1 to Lung Allograft During Static Cold Storage Using an AAV-Based Gene Therapy

11:05 am – 11:25 am	President's Invited Lecturer Ron Galloway
11:25 am – 11:35 am	Presidential Address Introduction Stephen Yang, MD
11:35 am – 12:00 pm	Presidential Address <i>"Is Surgery Still a Contact Sport?"</i> Daniel Miller, MD
12:00 pm – 1:00 pm	All Attendee Luncheon
1:00 pm – 1:30 pm	Dessert in the Exhibit Hall
1:30 pm – 2:30 pm	<u>Second Scientific Session</u> Simultaneous Cardiac, General Thoracic & Congenital Breakout Sessions <i>5-minute abstract presentations / 2-minute assigned discussant</i> <i>10-minute invited lecture / 20-minute open discussion</i>

Adult Cardiac Breakout

5-minute abstract presentations / 2-minute assigned discussant
10-minute invited lecture / 20-minute open discussion

11. Effects of 2018 Heart Allocation Policy Change on Donor Utilization and Survival for Patients Bridged with Durable Left Ventricular Assist Device

12. Relationship of preoperative anemia and perioperative blood transfusion on acute kidney injury in cardiac surgery.

13. Transcatheter vs Surgical Aortic Valve Replacement for Bicuspid Aortic Valve Disease

Invited Lecture: Robotic AVR for AVD

General Thoracic Breakout

5-minute abstract presentations / 2-minute assigned discussant
10-minute invited lecture / 20-minute open discussion

14. Pulmonary Metastasectomy for Adrenocortical Carcinoma – Not If, but When

15. Firefighting Is Associated with Lung-RADS 4 Nodules On Low-Dose CT Scan

16. Pulmonary Surgical Margins for Metastatic Osteosarcoma: Is Negative Margin Enough?

Invited Lecture: Radionomics in Lung Cancer Management and Nodule Detection

Congenital Breakout

5-minute abstract presentations / 2-minute assigned discussant
10-minute invited lecture / 16-minute open discussion

17. Video: Single Stage Neonatal Yasui Procedure in the setting of Congenitally Absent Aortic Valve and Interrupted Aortic Arch

18. Improved Surgical Management of Complex Neonates with Heterotaxy Syndrome

19. Staged Repair of Borderline Hypoplastic Heart Disease with Early Biventricular Conversion

20. Days Alive and Out of Hospital for Children Born with Single Ventricle Heart Disease

Invited Lecture: Evolution of 3-D Modeling and Virtual Reality Imaging in the Assessment of Congenital Heart Disease

2:30 pm – 3:00 pm BREAK / CT Surgery Masters Showdown Round 2

3:00 pm – 3:45 pm **Robert M. Sade Ethics Lectureship**
"Should a Seemingly Opioid-Impaired Surgeon Be Reported to Authorities?"

3:45 pm – 5:00 pm **Third Scientific Session**
5-minute abstract presentations / 2-minute assigned discussant / 2-minute open discussion with the audience

21. Mechanical Circulatory Support Devices for Post-Cardiotomy Shock – Prevalence and Outcomes from a Decade of Statewide Registry Data

22. Disparities in Young Black Patients with Lung Cancer – Is There a Role for Earlier Screening?

23. Long-Term Outcomes with expanded-Polytetrafluoroethylene Valved Conduits (ePTFE VC) for Right Ventricular Outflow Tract Reconstruction (RVOTR) in Pediatric Patients

24. Long-term Outcomes of Porcine and Pericardial Prosthesis in Mitral Valve Replacement in 1162 Patients

25. Segmentectomy for Lung Cancer: Trends in Approach and Center Volume Data Among STS GTSD Participants

26. Midterm Durability of Valve-Sparing Root Replacement in Bicuspid and Tricuspid Aortic Valves

27. Morbidity and Mortality in Systemic to Pulmonary Artery Shunts in Neonates in Low and Middle- Income Countries: An Eleven-Year Study

28. Medical Student Role in the Cardiothoracic Surgery Operating Room: Results of a Needs Assessment to Optimize Involvement

6:00 pm – 7:00 pm Residents Reception

7:00 pm – 9:00 pm President's Mixer

Saturday, Nov. 4, 2023

7:00 am – 8:30 am **Fourth Scientific Session**
Simultaneous Cardiac, General Thoracic: Esophagus, Congenital, and Lung Transplant Breakout Sessions

Adult Cardiac Breakout
5-minute abstract presentations / 2-minute assigned discussant / 5 minute open discussion with the audience
20-minute invited lecture / 20-minute open discussion

29. Impact of Donor Sequence Number on Heart Transplant Outcomes

- 30. Community Socioeconomic Distress is Associated with Worse Access to Heart and Lung Transplantation in the United States
- 31. Donor Cardiac Allograft Undersizing is Associated with Early Mortality Alone and Excellent Late Hemodynamics
- 32. Interaction between Race and Insurance Status in Heart Transplant Waitlist Outcomes and Post-Transplant Survival

Invited Lecture

General Thoracic: Esophagus Breakout

5-minute abstract presentations / 2-minute assigned discussant / 5 min open discussion with the audience

10-minute invited lecture / 20-minute open discussion

- 33. Esophageal Skip Lesions: A Propensity Matched Analysis
- 34. Novel Technique of Gastric Preconditioning by Percutaneous Angioembolization Prior to Esophagectomy
- 35. The Concept and Preliminary Definition of Residual Uncertain [R(un)] Tumor Status in Esophageal Cancer
- 36. Faster Return to Oral Intake Following Open Repair vs Stent Placement Following Spontaneous Esophageal Perforation
- 37. The Role of Immunotherapy in the Management of Esophageal Cancer in Patients Treated with Neoadjuvant Chemoradiation: An Analysis of the National Cancer Database

Invited Lecture: Complex Esophagus Reconstruction

Congenital Breakout

5-minute abstract presentations / 2-minute assigned discussant / 5-minute open discussion with the audience

10-minute invited lecture / 30-minute open discussion

- 38. Video: Open Hybrid Aortic Stent Placement for Recurrent Coarctation in Complex Single Ventricles
- 39. Video: Repair of a Complex Unicuspid/Nullicuspid Aortic Valve Defect using Geometric Ring Annuloplasty
- 40. The Melody Valve is the Better Bridge to a Durable Prosthesis in Infants and Children with Unreparable Left Sided Atrioventricular Valves
- 41. Stenting of the RVOT Promotes Less Conduit Insertion Compared with Arterial Duct Stenting in Symptomatic Patients with Fallot-type Lesions

Invited Lecture: New Developments in RVOT Reconstruction

Lung Transplant Breakout

5-minute abstract presentations / 2-minute assigned discussant / 8-minute open discussion with audience

- 42. Lung Transplantation in HIV Seropositive Recipients: An Analysis of the UNOS Registry
- 43. Association of Pre-Lung Transplant Opioid Use with Post-Transplant Opioid Use and Outcomes
- 44. Intercostal Nerve Cryoablation in Lung Transplantation: A Single-Center, Propensity-Matched Analysis
- 45. How Does Duration of ECMO Bridging Impact Lung Transplant Outcomes?
- 46. Development of an Ex Vivo Heart Model to Evaluate a Novel Cannula for Durable Venovenous Extracorporeal Membrane Oxygenation
- 47. The Specialized Donor Care Facility Model Improves Operating Room Efficiency

8:30 am – 9:00 am BREAK / Visit Exhibit Hall

9:00 am – 10:00 am **Fifth Scientific Session – Rapid Fire Abstract Presentations**
Simultaneous Cardiac, Thoracic, and Congenital Breakout Sessions

Rapid Fire Presentations - Cardiac Breakout

2-minute presentation / 2-minute question from moderator

- 48. Feasibility and Short-Term Outcomes of Endovascular Aortic Arch Repair in Very High-Risk Patients With Aortic Arch Disease
- 49. Safety of Early Discharge After Coronary Artery Bypass Grafting: A Nationwide Readmissions Analysis
- 50. Clinical Associations With Surgical Outcomes of Tricuspid Valve Endocarditis
- 51. Outcome of Selective Management of the Pulmonary Valve in Patients Undergoing Surgery for Carcinoid Heart Disease
- 52. Clinical and Financial Impact of Training Cardiothoracic Fellows in Coronary Artery Bypass Grafting Surgery
- 53. Mid-Term Results of Thoracic Endovascular Aortic Repair for Complicated Acute Type B Dissection: Lessons Learned
- 54. Traveling Long Distances Does Not Impact Operative Mortality in Acute Type A Aortic Dissection
- 55. Mini-Thoracotomy is Associated With Improved Long-Term Survival in Patients Undergoing Redo Mitral Surgery
- 56. Contact Isolation Precautions are Associated With Increased Complications and Failure to Rescue After Cardiac Surgery
- 57. Long-Term Outcomes of Aortic Valve Replacement With the Same Stented Bioprosthesis in Patients With Tricuspid Versus Bicuspid Aortic Valve

Rapid Fire Presentations – Pleural Disease Breakout

2-minute presentation / 2-minute question from moderator

- 58. Ice Cream in the Recovery Room Rules out Chylothorax After Thoracic Lymphadenectomy and Allows Early Chest Tube Removal
- 59. Discharging Patients Home With a Chest Tube Connected to a Digital Drainage System
- 60. Discharge to Home With Chest Tube After Lung Surgery is Associated With a Low Incidence of Empyema
- 61. Defining the Optimal Suction Strategy After Lung Resection Using a Digital Drainage System and a Single Blake Drain: A Randomized Study
- 62. Pleural Cavity Digital Drainage System Reduces Morbidity, Length of Stay and Cost After Lung Surgery
- 63. Pleural Amylase Following Esophagectomy
- 64. Tissue Plasminogen Activator Concentration in Pleural Fluid Is Elevated for At Least Two Hours Following a Single Intrapleural Dose
- 65. Video: Sinking Stones and Fluorescent Undertones: A Novel Technique for Intraoperative Parathyroid Identification
- 66. Video: ICG for Intra-Operative Thoracic Duct Lymphangiogram in VATS Thoracic Duct Ligation

Rapid Fire Presentations - Congenital Breakout

2-minute presentation / 2-minute question from moderator

- 67. Growable Shunt as Novel Therapy in Children Requiring Aortopulmonary Shunt for a Protracted Period of Time
- 68. Operative Repair of Aortopulmonary Window: Positive Outcomes in a Heterogeneous Population
- 69. Revisiting the Role of Balloon Atrial Septostomy Prior to the Arterial Switch Operation
- 70. Delayed Sternal Closure in Infants with Congenital Heart Disease: Can Chest Wall Edema Guide Timing?
- 71. Influence of Cardiac Diagnosis on Outcomes of Pediatric Heart-Lung Transplantation
- 72. 15-Year Single Institutional Analysis of Surgical Approaches and Outcomes for Aortic Coarctation in 132 Neonates and Infants
- 73. Early and Late Outcomes of Delayed Sternal Closure vs Emergent Sternal Reopening in Adults with Congenital Heart Disease
- 74. Standardization of the Norwood Procedure Improves Outcomes in a Medium Sized Volume Center

Concurrent Breakout – Artificial Intelligence, Machine Learning, and Radionomic Breakout

5-minute presentation / 2–10-minute invited lectures / 20-minute open discussion

- 75. Improving Outcomes Via Process Improvements and Innovation: 1,506 Consecutive Robotic Lobectomy and Segmentectomy

76. Artificial Intelligence: Can It Save Lives and Hospitals?

77. Comparing Conversational Artificial Intelligence-Initiated Care Pathways to Expert-Guided Algorithms for Symptom Management After Esophagectomy for Esophageal Cancer

78. The (Broken) Promise of Generative Artificial Intelligence for Cardiothoracic Surgery Trainee Education

Invited Lectures

10:00 am – 10:30 am BREAK / Visit Exhibit Hall / CT Surgery Masters Showdown Final Round

10:30 am – 12:00 pm **Kent Trinkle Lectureship**

10:30 am – 10:50 am Kent Trinkle Lectureship

11:45 am – 12:00 pm Invited Lectures

History Abstract - Three Generations of Southern Thoracic and Cardiovascular Surgical Excellence

12:00 pm – 1:00 pm LUNCH

1:00 pm – 1:30 pm BREAK / Dessert in the Exhibit Hall / Visit Exhibit Hall

1:30 pm – 2:30 pm **Sixth Scientific Session**
Simultaneous Adult Cardiac, General Thoracic & Congenital Breakout Sessions

Adult Cardiac Breakout

5-minute abstract presentations / 2-minute assigned discussant

10-minute invited lecture / 20-minute open discussion

79. Impact of Prior Percutaneous Coronary Intervention on Outcomes After Coronary Artery Bypass Grafting With Bilateral Internal Thoracic Arteries

80. Beyond Static Planning: Computational Predictive Modeling to Avoid Coronary Artery Occlusion in TAVR

81. Long-Term Results of Valve Sparing Root Replacement in Type A Aortic Dissection

Invited Lecture: Future Advances in Zone 1-2 Reconstruction

Thoracic Breakout

5-minute abstract presentations / 2-minute assigned discussant

10-minute invited lecture / 20-minute open discussion

82. Under-Representation of Patients from Racial and Ethnic Minorities in Clinical Trials for Non-Small-Cell Lung Cancer

83. The Effect of Social Vulnerability on Stage at Presentation and Subsequent Therapy in Non-Small Cell Lung Cancer Patients

84. Management of Clinical Stage IA Non-Small Cell Lung Cancer After Segmentectomy With Incidental Node-Positive Disease

Invited Lecture

Congenital Breakout

5-minute abstract presentations / 2-minute assigned discussant

10-minute invited lecture / 14-minute open discussion

85. Video: Heart Transplant and Complex Venous Baffle In an Infant With Heterotaxy, Double Outlet Obstruction and Unbalanced Atrioventricular Septal Defect

86. Outcome of Heart Transplantation in Adult Congenital Heart Disease: Does Functionally Univentricular Physiology Impact Early Mortality?

87. Preoperative Trends in Panel Reactive Antibody Among Patients With Pediatric and/or Congenital Heart Disease and Elevated Panel Reactive Antibody Undergoing Transplantation

88. Trends in Pediatric Heart Transplantation Over 36 Years and Contemporary Outcomes Among the Highest Volume Centers

Invited Lecture

2:30 pm – 2:45 pm	BREAK / Visit Exhibit Hall
2:45 pm – 3:30 pm	STSA Business Meeting
7:00 pm – 10:00 pm	Reception and Dinner Gala

Sunday, Nov. 5, 2023

8:00 am – 10:00 am **Postgraduate General Session**

89. ABTS Update

90. Cultural Complications: How to Manage Challenging Interactions with Patients and Their Caregivers

91. Cardiothoracic Surgeon Career Pivot to Industry – Panel Interview w/ Discussion

End of Session

*Subject to change.