STS Abstracts Report


Influence of Surgeon and Center Volume on Early Morbidity and Mortality Following Arterial Switch Operation for Transposition of the Great Arteries: An Analysis of The Society of Thoracic Surgeons Congenital Heart Surgery Database
Accepted for presentation for STS 2014


Epidemiology and Outcomes of In-Hospital Cardiac Arrest after Pediatric Cardiac Surgery: An Analysis of The Society of Thoracic Surgeons Congenital Heart Surgery Database
Accepted for presentation for STS 2014

Savage EB, Saha-Chaudhuri P, Asher CR, Brennan JM, Gammie JS

What Is The Valve Of Choice For Aortic Valve Endocarditis? Analysis Of The Society Of Thoracic Surgeons National Cardiac Database
Accepted for presentation for STS 2014

Linden P, Sheng S, Saha-Chaudhuri P, Onaitis M

Wedge Resection Reduces the Incidence of Major Morbidity by Nearly 50% as Compared to Lobectomy: A STS Database Propensity Matched Analysis
Accepted for presentation for STS 2014

Husain SA, Pasquali SK, Jacobs JP, Hill K, Kim S, Kane LC, Calhoon JH, Jacobs ML

Effect of Geography on Congenital Heart Disease Requiring Operative Intervention within the First Year of Life – An STS Congenital Heart Surgery Database Study
Accepted for presentation for STS 2014


Contemporary Management and Outcomes of Acute Type A Aortic Dissection: an Analysis of the Society of Thoracic Surgeons (STS) Adult Cardiac Surgery Database
Accepted for presentation for STS 2014


The association of chronic lung disease with early mortality and respiratory complications after AVR: What can we learn from the Society of Thoracic Surgeons National Database?
Accepted for presentation for STS 2014
Ferguson MK, Saha-Chaudhuri P, Mitchell J, Varela G, Brunelli A
Prediction of major cardiovascular events after lung resection using a modified scoring system: a Society of Thoracic Surgeons Database analysis
Accepted for presentation for AATS 2013

Burt BM, Kosinski A, Shrager J, Onaitis M, Weigel TL
VATS lobectomy is not associated with prohibitive morbidity or mortality in patients with predicted post-operative FEV1 (ppoFEV1) less than 40% of normal: A Society of Thoracic Surgeons database analysis.
Accepted for presentation for AATS 2013

Caceres M, Ma Y, Rankin JS, Saha-Chaudhuri P, Gammie JS, Suri RM, Puskas JD, Svensson LG
MORTALITY CHARACTERISTICS OF AORTIC ROOT SURGERY IN NORTH AMERICA
Accepted for presentation for EACTS 2013

Mavroudis C, Siegel A, Mavroudis C, Jacobs JP, Jacobs ML
Procedure-based Frequency of Complications to Guide Informed Consent in Congenital Heart Surgery: An Analysis from the STS-Congenital Heart Surgery Database
Accepted for presentation for Southern 2013

Caceres M, Ma Y, Rankin JS, Saha-Chaudhuri P, Gammie JS, Suri RM, Puskas JD, Svensson LG
Trends and Outcomes of Aortic Root Surgery in North America
Accepted for presentation for Southern 2013

St Louis JD, Jodhka U, He X, Hill K, Jacobs JP, Pasquali SK, Jacobs ML
Contemporary Trends and Outcomes in Patients Following Repair of Complete Atrioventricular Septal Defects: An Analysis of the STS-Congenital Heart Database
Accepted for presentation for Southern 2013

Suri RM, Thourani VH, Rankin JS, Badhwar V, Svensson LG, Brennan JM, He X, Schaff HV, Gammie JS
Contemporary Outcomes of Triple Valve Surgery in North America – the Expanding Role of Mitral Valve Repair
Accepted for presentation for Southern 2013
Mascio CE, Austin EH, Jacobs JP, Jacobs ML, Pasquali SK
Perioperative Mechanical Circulatory Support in Children Undergoing Heart Surgery: An Analysis of the Society of Thoracic Surgeons (STS) Congenital Heart Surgery Database
Presented at AATS 2013

Costello JM, Pasquali SK, He X, Jacobs JP, Hill K, Cooper DS, Backer CL, Jacobs ML
Gestational Age at Birth and Outcome after Neonatal Cardiac Surgery: An Analysis of the Society of Thoracic Surgeons (STS) Congenital Heart Surgery Database
Presented at ACC 2013

Evaluation of the Reliability of Clinical Staging of T2N0 Esophageal Cancer: A Review of the STS Database
Presented at STS 2013

The Benchmark for Isolated Mitral Valve Surgery. Analysis Of 77,836 patients From The Society Of Thoracic Surgeons (STS) Database.
Presented at STS 2013

Williams ML, Slaughter M, He X, Gammie JS
Preoperative Hematocrit is a Powerful Predictor of Adverse Outcomes in CABG Surgery: A Report from the STS Adult Cardiac Surgery Database
Presented at STS 2013

Kassis ES, Kosinski A, Ross P, Donahue J, Daniel VC
Predictors of Anastomotic Leak After Esophagectomy: An Analysis of the STS General Thoracic Database
Presented at STS 2013

Kilic A, Saha-Chaudhuri P, Rankin JS, Conte JV
Trends and Outcomes of Tricuspid Valve Surgery: An Analysis of over 50,000 Patients from The Society of Thoracic Surgeons Adult Cardiac Surgery Database
Presented at STS 2013
Keeling WB, Williams ML, Slaughter M, Zhao Y, Puskas JD
Comparison of Off-Pump and On-Pump Coronary Revascularization in Patients with a Low Ejection Fraction: A Report from the STS National Database
Presented at STS 2013

Gaca JG, Sheng S, Rankin JS, Williams ML, Suri RM, Thourani VH, O’ Brien SM, Gammie JS
Current Outcomes for Tricuspid Valve Infective Endocarditis Surgery
Presented at STS 2013

Davies R, Pasquali SK, Jacobs ML, Jacobs JP, Pizarro C
National Experience with Surgery for Ebstein's Malformation: an Analysis of the STS-CHS Database
Presented at STS 2013

Vigneswaran WT, Burt BM, Shrager J, Cameron RB, Mollberg N, Schipper P, Kosinski A
Pleurectomy and Decortication (PD) for Malignant Pleural Mesothelioma (MPM) is Associated with Lower Morbidity and Mortality Compared with Extrapleural Pneumonectomy (EPP) Among Participants of the Society of Thoracic Surgeons (STS) General Thoracic Database.
Presented at WTSA 2013

Puskas JD, He X, O’ Brien SM, Rankin JS, Thourani VH, Gammie JS
Off-Pump Coronary Artery Bypass Is Associated with Fewer Adverse Events In Higher Risk Patients After Adjustment for Patient Factors, Center Volume and Surgeon Identity
Presented at AATS 2012

Aortic Valve Replacement in Neonates and Infants – Contemporary Outcomes in the STS Congenital Heart Surgery Database
Presented at AATS 2012

Thourani VH, Sheng S, Ailawadi G, Szeto WY, Dewey TM, Guyton RA, Kron IL, Babalaros B, Boulton B, Gammie JS, Mack MJ
Outcomes of Surgical Aortic Valve Replacement in Low-, Intermediate, and High-Risk Patients
Presented at AATS 2012
STS Abstracts Report

Welke KF, Karamlou T, He X, Jacobs ML, Jacobs JP, Pasquali SK

Surgeon volume and operative mortality in congenital cardiac surgery
Presented at AHA 2012

Ceppa DP, Kosinski A, Berry MF, Harpole DH, Tong BC, Mitchell J, D'Amico TA, Onaitis M

Thoracoscopic Lobectomy Has Increasing Benefit in Patients With Poor Pulmonary Function: An STS Database Analysis
Presented at American Surgical Association 2012

Stamou SC, Williams ML, Zhao Y, Kouchoukos NT, Hagberg RC, Lobdell KW

AORTIC ROOT SURGERY IN THE UNITED STATES: REPORT FROM THE SOCIETY OF THORACIC SURGEONS DATABASE
Presented at Aortic Symposium 2012

Caceres M, Rankin JS, Williams ML, Weiman DS, Garrett HE

RISK STRATIFICATION MODEL AND INTERNAL MAMMARY ARTERY GRAFTING IN PATIENTS UNDERGOING CORONARY ARTERY BYPASS SURGERY WITHIN 24 HOURS OF A MYOCARDIAL INFARCTION
Presented at Asian Cardiovascular 2012

Rankin JS, Thourani VH, Suri RM, He X, O’ Brien SM, Vassileva C, Williams ML, Gammie JS

ASSOCIATIONS BETWEEN VALVE REPAIR AND REDUCED OPERATIVE MORTALITY IN MITRAL/TRICUSPID DOUBLE VALVE SURGERY
Presented at EuropeanThoracic 2012

Ferraris V, Saha SP, Martin J

Pneumonectomy For Non-Malignant Disease
Presented at Southern 2012

Thourani VH, Suri RM, Rankin JS, O’ Brien SM, Vassileva C, Gammie JS

Concomitant Aortic and Mitral Valve Operation: Should we Repair or Replace the Mitral Valve?
Presented at Southern 2012
STS Abstracts Report

Suri RM, Thourani VH, He X, Rankin JS, Schaff HV, Gammie JS

**Thromboprophylaxis Following Mitral Valve Repair: Contemporary Practice Patterns in North America**
Presented at Southern 2012

DiBardino DJ, Pasquali SK, Hirsch-Romano JC, Benjamin DK, Kleeman KC, Salazar JD, Jacobs ML, Mayer JE, Jacobs JP

**Effect of Gender and Race on Outcome in Congenital Heart Surgery Patients; an STS Congenital Heart Surgery Database Study**
Presented at STS 2012

Boffa DJ, Kosinski A, Paul S, Mitchell J, Onaitis M

**Lymph Node Evaluation by Open and VATS approaches: Analysis of 11,500 anatomic lung cancer resections in the STS General Thoracic Database**
Presented at STS 2012

Pasquali SK, Jacobs JP, He X, Jacobs ML, O’Brien SM, Gaynor JW

**Evaluation of Failure to Rescue as a Quality Metric in Pediatric Heart Surgery**
Presented at STS 2012

Ad N, Suri RM, Gammie JS, Sheng S, O’Brien SM, Henry L

**Surgical ablation of atrial fibrillation trends and outcomes in North America.**
Presented at WTSA 2012

Tong BC, Kosinski A, Burfeind W, Onaitis M, Hartwig MG, Berry MF, Harpole DH, D’Amico TA

**Gender is an independent predictor of morbidity and mortality after lung cancer resection: Analysis of the Society of Thoracic Surgeons’ (STS) General Thoracic Database**
Presented at WTSA 2012

Ghanta RK, Sheng S, Aranki SF

**Current Outcomes of Isolated Reoperative CABG in the United States: An Analysis of the STS Adult Cardiac Surgery Database**
Presented at WTSA 2012

Ungerleider RM, Welke KF, Ootaki Y, Pasquali SK, Jacobs JP, Williams D, Quartermain M

**Contemporary patterns of presentation, surgery and outcome for coarctation of the aorta**
Presented at WTSA 2012
Elbardissi AW, Sheng S, Gammie JS, O'Brien SM, Greenberg CC, Aranki SF

**The Evolving Role of Isolated CABG: An Analysis of the STS National Database**
Presented at AATS 2011

Mascio CE, Pasquali SK, Jacobs JP, Shook GJ, Jacobs ML, Austin EH

**Outcomes in Adult Congenital Heart Surgery: Analysis of the Society of Thoracic Surgeons (STS) Congenital Heart Surgery Database**
Presented at AATS 2011


**Contemporary Fontan Operation: Association of Type of Cavopulmonary Connection with Early Outcome**
Presented at Southern 2011

Russell HM, Pasquali SK, Jacobs JP, Shook GJ, O'Brien SM, Backer CL

**Outcomes of Common Arterial Trunk with Truncal Valve Insufficiency: A Review of the STS Congenital Heart Surgery Database**
Presented at STS 2011

Williams JB, Peterson ED, O'Brien SM, Gammie JS, Chen EP, Hughes GC

**Contemporary Results for Replacement of the Ascending Aorta and Arch in North America**
Presented at WTSA 2011


**Effects of Institutional Volumes on Operative Outcomes**
Presented at AHA 2010

Wallace MC, Benjamin DK, Jaggers J, O'Brien SM, Peterson ED, Jacobs ML, Jacobs JP, Li JS, Pasquali SK

**Patient, Operative, and Center Factors Impacting Post-operative Outcomes in Patients Undergoing the Fontan Operation: Analysis of a National Clinical Database**
Presented at AHA 2010

**The impact of intensive care unit structure on post-operative outcomes following congenital heart surgery: Analysis of a multi-institutional database.**
Presented at AHA 2010

The Impact of Intensive Care Unit Structure on Post-operative Outcomes Following Congenital Heart Surgery: Analysis of a Multi-institutional Database
Presented at AHA 2010

Petrucci O, O’ Brien SM, Jacobs ML, Jacobs JP, Manning PB, Eghtesady P

Risk Factors for Mortality following the Neonatal Blalock-Taussig Shunt Procedure
Presented at Southern 2010

Lee R, Rankin JS, O’ Brien SM, Gammie JS, McCarthy PM, Edwards FH

Trends in Outcomes after Multiple Valve Surgery from A 15-Year Analysis: Decreased Mortality, Increased Pulmonary Complications
Presented at STS 2010

Bolling SF, Prager RL, Gammie JS, O’ Brien SM, Brennan JM, Li S

The Mitral Valve Repair Index: Clinical and Surgeon Predictors of Mitral Valve Repair
Presented at STS 2010

Onaitis M, D’Amico TA, Zhao Y, O’ Brien SM, Harpole DH

Risk Factors for Atrial Fibrillation after Lung Cancer Surgery: An Analysis of the STS General Thoracic Surgery Database
Presented at STS 2010

Gammie JS, Zhao Y, Rankin JS, O’ Brien SM, Griffith BP

Utilization and Outcomes of Less Invasive Mitral Valve Operations in North America-Dr. James Gammie
Presented at STS 2010

Al Habib HF, Jacobs JP, Mavroudis C, Tchervenkov CI, O’ Brien SM, Jacobs ML

Contemporary Patterns of Management of Tetralogy of Fallot: Data from the STS Database
Presented at STS 2010

Shapiro M, Wisnivesky JP, Swanson SJ, Sheng S, Chin C, Wright CD, Weiser TS

Predictors of Major Morbidity and Mortality after Pneumonectomy for Benign or Malignant Disease Using an STS Database
Presented at STS 2010
Williams ML, Sheng S, Haan CK, Smith PK, Hughes GC

Aortic Dissection as a Complication of Cardiac Surgery: Report from the STS Database
Presented at STS 2010


Outcomes for Endocarditis Surgery in North America: A Simplified Risk Scoring System and Need for Clinical Innovation
Presented at WTSA 2010


Delayed Sternal Closure is Associated With Prolonged Length of Stay and Infection Following Stage 1 Palliation for Hypoplastic Left Heart Syndrome
Presented at AAP 2009

Paul S, Altorki NK, Sheng S, Lee PC, Harpole DH, Onaitis M, Stiles BM, Port JL, D’Amico TA

Thoracoscopic Lobectomy is Associated with Lower Morbidity than Open Lobectomy: A Propensity Analysis of the STS Database
Presented at AATS 2009

Mehta RH, Sheng S, Grover FL, Gammie JS, Ferguson TB, Peterson ED

Identifying Patients at Risk for Reoperation for Bleeding after Cardiac Surgery
Presented at ACC 2009

Lee R, Rankin JS, McGee EC, O’ Brien SM, Malaserie C, Gammie JS, McCarthy PM

Incremental Risks of Tricuspid Valve Procedures in the STS Database
Presented at ACC 2009


A Predictive Model of Operative Mortality for Multiple Valve Surgery
Presented at SHVD 2009

Patel A, Hickey E, Jacobs JP, Jacobs ML, Backer CL, Gevirtz M, Mavroudis C

Impact of Syndromic Abnormalities on Outcomes in Hypoplastic Left Heart Syndrome
Presented at STS 2009
Subramanian S, Mason DP, Grab JD, Rice TW, Murthy SC, Blackstone EH, Sabik JF
Optimal Timing of Smoking Cessation Prior to Pulmonary Resection for Cancer: An STS General Thoracic Surgery Database Study
Presented at STS 2009

Evans NR, Li S, Wright CD, Allen MS, Burfeind W
The Impact of Induction Therapy on Morbidity and Operative Mortality after Resection of Primary Lung Cancer
Presented at WTSA 2009

Wright CD, Allen MS, Grab JD, Kucharczuk JC
Predictors of Major Morbidity and Mortality after Esophagectomy for Esophageal Cancer: An STS General Thoracic Surgery Database Risk Adjustment Model
Presented at AATS 2008

DiBardino DJ, McElhinney DB, Kaza AK, Mayer JE
Analysis of the U.S. Food and Drug Administration MAUDE Database for Adverse Events Involving Amplatzer™ Septal Occluder Devices and Comparison to STS Congenital Cardiac Surgery Database
Presented at AATS 2008

Welke KF, O’ Brien SM, Peterson ED, Ungerleider RM, Jacobs ML, Jacobs JP
How Size Matters: The Complex Relationship Between Pediatric Cardiac Surgery Case Volumes and Mortality Rates in a National Clinical Database
Presented at AATS 2008

The Mayo Clinic Risk Score for Percutaneous Coronary Intervention Predicts In-Hospital Mortality in Patients Undergoing CABG Surgery
Presented at ACC 2008

Prasad SM, Li S, O’ Brien SM, Rankin JS, Gammie JS, Puskas JD, Shahian DM, Chedrawy EG, Massad MG
Current Outcomes of Simultaneous Carotid Endarterectomy and Coronary Artery Bypass in North America
Presented at AHA 2008
Mehta RH, Sheng S, O’ Brien SM, Gammie JS, Grover FL, Ferguson TB, Peterson ED  
Reoperation for Bleeding Among 528,306 Patients Undergoing Cardiac Surgery: The  
Society Of Thoracic Surgeons National Database Experience  
Presented at AHA 2008

Ley J, Black MD, Chorne N, Slagle T, Shaw RE  
Surgical Ligation of Patent Ductus Arteriosus: Time For A New Approach?  
Presented at Cardiology 2008

Song HK, Grab JD, O’ Brien SM, Welke KF, Edwards FH, Ungerleider RM  
Gender specific differences in outcomes following cardiovascular surgery: exploring the  
role of estrogen  
Presented at Southern 2008

Gammie JS, Grab JD, Griffith BP, Peterson ED, Rankin JS, O’ Brien SM, Brown JM  
Mitral Valve Surgery in North America 2000 – 2006: Increased Adoption of Repair in the  
New Millennium  
Presented at Southern 2008

Wright CD, Burfeind W, Grab JD, O’ Brien SM, Peterson ED  
Predictors of Prolonged Length of Stay after Lobectomy for Lung Cancer: An STS  
General Thoracic Surgery Database Risk Adjustment Model  
Presented at STS 2008

Little L, Ferguson MK, Rizzo L, Popovich KJ, Glonek GF, Leff A, Manjoney D, Little AG  
Diffusing Capacity Predicts Pulmonary Complications After Lung Resection in Patients  
With and Without Obstructive Pulmonary Disease  
Presented at WTSA 2008

Reece TB, Welke KF, Gammie JS, O’ Brien SM, Grover FL  
The Ross Procedure: A Vanishing Operation in Adults  
Presented at WTSA 2008

O’ Brien SM, Brown JM, Griffith BP, Gammie JS  
10 years of Changing Risk, Mortality and Valve Type in Aortic Valve replacement: A report  
of the Society of Thoracic Surgery Database  
Presented at WTSA 2008
STS Abstracts Report

Jacobs JP, Wernovsky G, Elliott MJ
  Case mix Complexity Adjustment using both RACHS-1 and Aristotle applied to 45635 Operations in the STS Congenital Database.
  Presented at AATS 2007

Boffa DJ, Allen MS, Grab JD, Burfeind W, Harpole DH, Wright CD
  Surgical Management of Lung Cancer by Board Certified Thoracic Surgeons
  Presented at AATS 2007

Curzon CL, Milford-Beland SE, Li JS, O’ Brien SM, Jacobs JP, Jacobs ML, Welke KF, Lodge AL, Peterson ED, Jaggers J
  Presented at AATS 2007

Mehta RH, Grab JD, O’ Brien SM, Glower DD, Haan CK, Gammie JS, Peterson ED
  Coronary Artery Bypass Surgery In 14,956 Patients With Cardiogenic Shock: The Society Of Thoracic Surgery National Cardiac Surgery Database Experience
  Presented at AHA 2007

Mehta RH, Grab JD, Bridges CR, Gammie JS, Haan CK, Ferguson TB, Peterson ED
  Bedside Tool For Predicting Operative Mortality In Patients With Cardiogenic Shock Undergoing Coronary Artery Bypass Surgery
  Presented at AHA 2007

  Surgical Treatment of Atrial Fibrillation During Mitral Valve Surgery Does Not Increase Morbidity or Mortality
  Presented at ISMICS 2007

Rankin JS, Milford-Beland SE, O’ Brien SM, Edwards FH, Glower DD, Ferguson TB, Stratton CW
  The Risk of Endocarditis Surgery in Dialysis-Dependent Renal Failure
  Presented at SHVD 2007
Puskas JD
In Off-Pump Techniques Neutralize The Gender Disparity In Outcomes After Coronary Artery Bypass Surgery
Presented at STS 2007

Assessing the relationship between the Aristotle Basic Complexity Score and Outcomes Measured in the STS Congenital Heart Surgery Database
Presented at STS 2007

Mehta RH, Grab JD, O'Brien SM, Bridges CR, Ferguson TB, Peterson ED
Predicting the Need for Dialysis Among Patients Undergoing Coronary Artery Bypass Surgery: The Importance of Baseline Serum Creatinine
Presented at ACC 2006

Bridges CR, O'Brien SM, Cleveland JC, Savage EB, Gammie JS, Edwards FH, Delong ER, Peterson ED, Grover FL
Effect of patient and prosthesis size on operative mortality after aortic valve replacement
Presented at AATS 2005

Hernandez AF, Grab JD, Gammie JS, O'Brien SM, Hammill BG, Rogers JG, Camacho MT, Dullum MK, Ferguson TB, Peterson ED
A Decade of Acute Outcomes in Post-Cardiotomy Ventricular Assist Device Implantation: Data from the Society of Thoracic Surgeons' National Cardiac Database
Presented at AHA 2005

Gammie JS, O'Brien SM, Griffith BP, Ferguson TB, Peterson ED
Influence of Hospital Procedural Volume on Mortality for Patients Undergoing Elective Surgery for Mitral Insufficiency
Presented at AHA 2005

Haan CK, O'Brien SM, Edwards FH, Peterson ED, Ferguson TB
Trends In Use And Outcomes Related To Emergency Coronary Artery Bypass Grafting After Percutaneous Coronary Intervention
Presented at AHA Quality Forum 2005
**A Comparison of Cardiac Surgical Volumes and Mortality Rates Between the Society of Thoracic Surgeons and Medicare Datasets**  
Presented at AHA Quality Forum 2005

Gammie JS, O’ Brien SM, Griffith BP, Peterson ED  
**Surgical Treatment Of Mitral Valve Endocarditis In North America**  
Presented at STS 2005  

**Current Status of the EACTS and STS Congenital Heart Surgery Database**  
Presented at STS 2005  

Rankin JS, Hammill BG, Ferguson TB, Glower DD, O’ Brien SM, Delong ER, Peterson ED, Edwards FH  
**Determinants of Operative Mortality in Valvular Heart Surgery**  
Presented at WTSA 2005  

Hernandez AF, Velazquez EJ, Dullum MK, O’ Brien SM, Ferguson TB, Peterson ED  
**Clinical Outcomes of Surgical Ventricular Restoration: Data from the Society of Thoracic Surgeons' National Cardiac Database**  
Presented at AHA 2004  

Muhlbaier LH, Peterson ED  
**Clinical Predictors of Major Infections Following Coronary Bypass Surgery**  
Presented at AHA 2004  

Edwards FH, Ferraris V, Haan CK, Bridges CR, Dullum MK, Ferguson TB  
**Off-pump surgical revascularization in women: Internal mammary artery use determines the degree of improved survival compared to conventional on-pump revascularization**  
Presented at AHA 2004  

Dokholyan RS, Welke KF, Ferguson TB, Peterson ED  
**Use of Post CABG Secondary Prevention - Discharge Medications**  
Presented at AHA Quality Forum 2004
Trichon BH

Surgical outcomes after mitral valve intervention in patients with moderate ischemic mitral regurgitation
Presented at ACC 2003

Risk-Adjusted Mortality, Revascularization Completeness and the Learning Curve Effect in Off-Pump CABG
Presented at AHA 2003