

March 2024



**NCDR**<sup>®</sup>  
NATIONAL CARDIOVASCULAR DATA REGISTRY

**Presented Abstracts From the  
STS/ACC TVT Registry**

March 2024

## STS/ACC TVT Registry™

1. **558.** Safety and Efficacy of Transcatheter Edge-to-Edge Mitral Repair in Degenerative Mitral Regurgitation: An Analysis of the STS/ACC TVT Registry. R. Makkar. **ACC 2023. Oral Presentation.**
2. **576.** The Impact of Residual Elevated Gradients After Transcatheter Aortic Valve Implantation for Degenerated Aortic Valve Bioprostheses: An Analysis of The Transvalvular Therapeutics (TVT) Registry. R. Kherallah. **ACC 2023. Moderated Poster Presentation.**
3. **703.** Bioprosthetic Valve Fracture in Patients Undergoing Self-Expanding Transcatheter Aortic Valve Replacement in A Failed Surgical Valve: Outcomes from A Real-World Registry. K. Allen. **ACC 2023. Oral Presentation.**
4. **645.** Heart failure medical therapy and outcomes in patients undergoing transcatheter mitral valve repair for secondary mitral regurgitation: a TVT Registry analysis across 449 US centers. A. Varshney. **ESC Young Investigator Awards Session in Heart Failure 2023. Oral Presentation.**
5. **547.** Impact of Baseline Tricuspid Regurgitation on Health Status and Clinical Outcomes After Transcatheter Aortic Valve Replacement: Insights from the STS/ACC TVT Registry. Y. Sammour. **SCAI 2023. Poster Presentation.**
6. **635.** Impact of Baseline Tricuspid Regurgitation on Health Status and Clinical Outcomes After Transcatheter Edge-to-Edge Repair of the Mitral Valve: Insights from the STS/ACC TVT Registry. Y. Sammour. **SCAI 2023. Poster Presentation.**
7. **480.** Temporal Trends in 1-Year Cause-Specific Mortality After Transcatheter Aortic Valve Replacement: Insights from the STS/ACC TVT Registry. D. Kolte. **TCT 2023. Poster Presentation.**
8. **683.** Association Between Polyvascular Disease and Transcatheter Aortic Valve Replacement Outcomes: Insights from the STS/ACC TVT Registry. K. Bansal. **TCT 2023. Poster Presentation.**
9. **688.** Outcomes of Patients with New Left Bundle Branch Block Following Transcatheter Aortic Valve Replacement: Insights from the NCDR STS/ACC TVT Registry. N. Singh. **TCT 2023. Oral Presentation.**
10. **416:** Incidence, Predictors, and Clinical Impact of Recovery in Left Ventricular Systolic Function After Transcatheter Aortic Valve Implantation in the STS/ACC TVT Registry. S. Patel. **ACC 2022. Poster Presentation.**
11. **479:** Comparing Volume Versus Quality Thresholds on Outcomes and Access to Transcatheter Aortic Valve Replacement (TAVR) in the United States: Insights from the TVT Registry. A. Nelson. **ACC 2022. Moderated Poster Presentation.**
12. **573:** Correlation Between Hospital Procedural Volumes and Outcomes for TAVR And MTEER In the United States: An STS/ACC TVT Registry Analysis. D. Kumbhani. **ACC 2022. Poster Presentation.**
13. **N/A:** Validation of the STS/ACC TVT Risk Score in Patients Undergoing Transcatheter Aortic Valve Replacement Stratified by Risk. **ACC 2022. Moderated Poster Presentation.**
14. **431:** National Trends in Permanent Pacemaker Implantation after Transcatheter Aortic Valve Replacement: An Analysis From the STS/ACC TVT Registry. K. Chau. **TCT 2021. Oral Presentation.**
15. **561:** Outcomes of Transcatheter Aortic Valve Replacement with a Balloon-Expandable Valve for Bicuspid vs Tricuspid Aortic Stenosis. R. Makkar. **TCT 2021. Oral Presentation.**
16. **342:** Peripheral versus Central Access for Alternative Access Transcatheter Aortic Valve Replacement (TAVR): Results from the TVT Registry. T. Kaneko. **ACC 2020. Virtual Poster Presentation.**

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17. **350A:** Low Body Mass Index is Associated with Higher Rates of Death in Patients Undergoing Transcatheter Mitral Valve Repair: A Report from the STS/ACC TVT Registry TM. Arora. **ACC 2020. Poster Presentation.**
18. **413:** Conscious Sedation versus General Anesthesia for Transcatheter Aortic Valve Replacement: Variation in Practice and Outcomes in the STS/ACC TVT Registry. Butala. **ACC 2020. Virtual Poster Presentation.**
19. **440:** Acute Kidney Injury in Transcatheter Aortic Valve Replacement. H. Julien. **CRT 2020. Poster Presentation.**
20. **350B:** Relationship of Body Mass Index with Outcomes After Transcatheter Aortic Valve Replacement: Results from the National Cardiovascular Data–STS/ACC TVT Registry. A. Sharma. **Mayo Clinic Proceedings 2020. Oral Presentation.**
21. **421:** Institution-Level Variability in 30-day Patient Outcomes after Transcatheter Mitral Valve Repair in the United States. Malik. **QCOR 2020. Poster Presentation.**
22. **422:** Patient-Reported Health Status Changes is Associated with Subsequent Clinical Outcomes After Transcatheter Valve Therapies: Insights from the STS/ACC TVT Registry. Hejjaji. **QCOR 2020.**
23. **472:** Association of Cerebral Embolic Protection Devices with Transcatheter Aortic Valve Replacement Outcomes: Results from the STS/ACC TVT Registry. Butala. **TCT Connect 2020. Oral Presentation.**
24. **518:** Outcome of Redo TAVR for failing transcatheter heart valves. A. Zajarias. **TCT 2020. Poster Presentation.**
25. **592:** Redo Transcatheter Aortic Valve Replacement with the Supra-Annular, Self-Expandable Evolut Platform: Insights from the TVT Registry. Harvey. **TCT 2020. Oral Presentation.**
26. **258:** Pre versus post-procedure clinical event rates and associated healthcare resource utilization in patients who undergo commercial Mitra Clip placement for severe mitral regurgitation. S. Vemulapalli. **ACC 2019. Poster Presentation.**
27. **353:** Sex-Based Differences in Outcomes After Transcatheter Repair of Mitral Regurgitation with the Mitra Clip System. P. Villablanca. **ACC 2019. Moderated Poster Presentation.**
28. **639:** Variation in post-TAVR Antithrombotic Therapy and Outcomes in Patients with Preexisting Atrial Fibrillation: Insights from the STS/ACC TVT® Registry. Gupta. **AHA 2019. Poster Presentation.**
29. **N/A.** Variation in post-TAVR Antithrombotic Therapy and Outcomes in Patients with Preexisting Atrial Fibrillation: Insights from the STS/ACC TVT® Registry. Gupta. **AHA 2019. Oral Presentation.**
30. **357:** Does Driving Time to the Transcatheter Aortic Valve Replacement Site Impacts on Long-Term Mortality Following a Successful Procedure? Insights from the STS/ACC TVT Registry. G. Marquis-Gravel. **QCOR 2019. Poster Presentation.**
31. **371:** Learning curve for transcatheter mitral repair: Insights from the STS/ACC TVT Registry. A. Chhatriwalla. **TCT 2019. Late Breaking Clinical Trial Presentation.**
32. **456:** Incidence and Outcomes of Patient-Prosthesis Mismatch Following Self-Expanding Transcatheter Aortic Valve Replacement in Native Aortic Stenosis: An Analysis from the STS/ACC TVT Registry. G. Tang. **TCT 2019. Poster Presentation.**
33. **215:** Atrial Fibrillation Is Associated with Higher Rates of Death and Heart Failure Hospitalizations in Patients Undergoing Mitra Clip: Outcomes from the TVT Registry. Arora. **ACC 2018. Poster Presentation.**

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34. **249:** Outcomes After Transcatheter Mitral Valve Repair in Patients with Chronic Kidney Disease: An Analysis of 5,241 Patients in the United States. B. Shah. **ACC 2018. Poster Presentation.**
35. **254:** Outcomes Following Urgent/Emergent Transcatheter Aortic Valve Replacement: Insights From the STS/ACC TVT Registry. D. Kolte. **ACC 2018. Moderated Poster.**
36. **260:** High Hospital Variability in Mortality After TAVR Can Be Explained by Differences in Failure to Rescue from Post Procedural Complications. Bishawi. **ACC 2018. Moderated Poster.**
37. **267:** The Effect and Relationship of Age and Frailty on Survival in Patients Undergoing Transcatheter Aortic Valve Replacement. Kiani. **ACC 2018. Moderated Poster.**
38. **291:** Racial / Ethnic Disparities in Baseline Characteristics and 1-Year Outcomes After TAVR: A Report from the Transcatheter Valve Therapy (TVT) Registry. Vemulapalli. **AHA 2018. Moderated Poster Presentation.**
39. **224:** Association of renin-angiotensin system inhibition with clinical outcomes in patients undergoing transcatheter aortic valve replacement: analysis from the STS/ACC TVT Registry. Inohara. **Euro PCR 2018.**
40. **256:** 30-day outcomes of transcatheter mitral valve replacement in native mitral valve disease with severe mitral annular calcification in the United States: Data from the STS/ACC/TVT Registry. M. Guerrero. **Euro PCR 2018. Late Breaking Clinical Trial Poster Presentation.**
41. **450:** Real World Outcomes of TAVR with the SAPIEN-3 Valve in Intermediate Risk Patients: Comparison of Data from the TVT Registry with PARTNER S3 Studies. Tuzcu. **Euro PCR 2018. Oral Presentation.**
42. **194:** Incidence and Risk Factors of Aborted Procedures and Emergent Conversion to Surgery During Elective TAVR. T. Wang. **TCT 2018. Oral Presentation.**
43. **263:** Incidence and Risk Factors for Early Stroke after Transcatheter Aortic Valve Replacement: Insights from the STS-ACC TVT Registry. C. Huded. **TCT 2018. Poster Presentation.**
44. **264:** Incidence, Predictors, and Outcomes of Prosthesis-Patient Mismatch in 62,125 TAVR Patients An STS/ACC TVT Registry Report. H. Herrmann. **TCT 2018. Oral Presentation.**
45. **272:** Quality of Life Outcomes After MitraClip in a Real-World Population. Results from the STS/ACC Transcatheter Valve Therapy Registry. S. Arnold. **TCT 2018. Oral Presentation.**
46. **285:** Change in Mitral Valve Gradient Following Mitra clip Repair and Correlation to 30-day and 1-year outcomes. V. Assche. **TCT 2018.**
47. **7:** Patterns of Red Blood Cell Transfusion and Associated Outcomes in patients undergoing TAVR in the U.S.: Insights from the STS/ACC TVT Registry. M. Sherwood **ACC 2017. Poster Presentation.**
48. **114:** Impact of the Presence of Coronary Artery Disease and Timing of Revascularization on Outcomes of Patients Undergoing Trans-Catheter Aortic Valve Replacement: Insights From STS/ACC TVT Registry. H. Tankazyan. **ACC 2017. Poster Presentation.**
49. **130:** Direct-home discharge and likelihood of 30-day hospital readmission after transcatheter aortic valve replacement (TAVR): Findings from the STS/ACC TVT Registry. J. Dodson **ACC 2017. Poster Presentation.**
50. **153:** Prevalence and Outcomes of Mitral Stenosis in Patients Undergoing Transcatheter Aortic Valve Replacement: Findings from the Society of Thoracic Surgeons/ American College of Cardiology (STS/ACC) Transcatheter Valve Therapies (TVT) Registry. L. Joseph. **ACC 2017. Poster Presentation.**
51. **155:** New-Onset Atrial Fibrillation Following Transcatheter Aortic Valve Replacement: Incidence, Anticoagulant Strategy, and Outcomes. A. Vora. **ACC 2017. Oral Presentation.**

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52. **156:** Incidence and Outcomes of Patients Requiring Surgical Bail-Out during Transcatheter Aortic Valve Replacement from the NCDR® STS/ACC TVT Registry. A. Moldonado. **ACC 2017. Moderated Poster Presentation.**
53. **190:** Peripheral Artery Disease and Transcatheter Aortic Valve Replacement Outcomes: A Report From the STS/TVT Registry. A. Fanaroff. **ACC 2017. Poster Presentation.**
54. **191A:** Stroke and Cardiovascular Outcomes in Patients with Carotid Disease Undergoing TAVR: Insights From the STS/TVT Registry. A. Kochar. **ACC 2017. Poster Presentation.**
55. **191B:** Stroke and Cardiovascular Outcomes in Patients with Carotid Disease Undergoing TAVR: Insights From the STS/TVT Registry. Kochar. **ACC 2017. Poster Presentation.**
56. **245B:** Clinical Outcomes at 1-Year After Commercial Transcatheter Mitral Valve Repair in the United States. P. Sorajja. **ACC 2017. Featured Clinical Research Oral Presentation.**
57. **269:** Real-World Comparative Effectiveness of Transcatheter Versus Surgical Aortic Valve Replacement in the United States: An Analysis from Two US Registries Linked to Medicare Data. M. Brennan. **ACC 2017. Featured Clinical Research.**
58. **N/A:** Incidence and Outcomes of Patients Requiring Surgical Bail-Out During Transcatheter Aortic Valve Replacement: A Report From the NCDR® STS/ACC Transcatheter Valve Therapy (TVT) Registry. Pineda. **ACC 2017. Poster Presentation.**
59. **186:** Effects of Fragmentation of Post-Procedural Care on Outcomes after TAVR. Wang. **AHA 2017. Poster Presentation.**
60. **200:** Transcatheter Aortic Valve Replacement Using the Self-Expanding Bioprosthesis: First Report from the Transcatheter Valve Therapies Registry. J. Popma. **TCT 2017. Poster Presentation.**
61. **333:** Impact of atrial fibrillation on clinical outcomes in patients treated with self-expanding transcatheter aortic valves in the United States: Results from the STS/ACC TVT Registry. Chandrasekhar. **TCT 2017. Moderated Poster.**
62. **98:** Impact of pulmonary hypertension on outcomes of patients undergoing transcatheter aortic valve replacement: Report from the TVT registry. C. Don. **ACC 2016. Oral Presentation.**
63. **105:** Outcomes of Permanent Pacemaker Implantation Following Transcatheter Aortic Valve Replacement: Analysis of the STS/ACC TVT Registry. Fadahunsi. **ACC 2016. Oral Presentation.**
64. **106:** Procedure Volume and Outcome for Transcatheter Aortic Valve Replacement in U.S. Clinical Practice. J. Carroll. **ACC 2016. LBCT Oral Presentation.**
65. **133:** Transcatheter Aortic Valve Replacement is Associated with Fewer Hospital Days: A Report from the STS / ACC TVT Registry. D. Holmes. **ACC 2016. Poster Presentation.**
66. **406:** Incidence and Outcomes of Hemodynamic Deterioration in Transcatheter Aortic Valve Replacement in U.S. Clinical Practice: A Report from the Society of Thoracic Surgery / American College of Cardiology Transcatheter Valve Therapy Registry. S. Vemulapalli. **ACC 2016. LBCT Oral Presentation.**
67. **240:** Development of a Risk Prediction Model for 1-Year Mortality after Surgical vs. Transcatheter Aortic Valve Replacement in Patients with Severe Aortic Stenosis. S. Baron. **AHA 2016. Poster Presentation.**
68. **90:** Sex Based Differences in Outcomes with Transcatheter Aortic Valve Therapy: From the STS/ACC TVT Registry. Chandrashekar. **SCAI 2016. LBCT Poster Presentation.**

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69. **58:** Transcatheter Aortic Valve in Valve Replacement for Degenerative Aortic Bioprosthesis: Initial Results from the STS/ACC Transcatheter Valve Therapy Registry. Tuzcu. **TCT 2016. LBCT Oral Presentation.**
70. **110:** Incidence and Outcomes of Vascular Complications and Bleeding Events in Patients undergoing TAVR in contemporary U.S. practice: Insights from the STS/ACC TVT Registry<sup>®</sup>. M. Sherwood. **TCT 2016. Oral Presentation.**
71. **174:** The Impact of Diabetes Mellitus on the Clinical Outcomes Following Transcatheter Aortic Valve Replacement: Insights From the STS/ACC TVT Registry. Abramowitz. **TCT 2016. LBCT Poster Presentation.**
72. **245A:** Outcomes in the Commercial Use of Self-Expanding Prostheses in Transcatheter Aortic Valve Replacement: A Comparison of the Medtronic Core Valve and Evolut R platforms in the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy Registry. P. Sorajja. **TCT 2016. Oral Presentation.**
73. **33:** Incremental Value of Disease-Specific Health Status in Predicting Mortality after Transcatheter Aortic Valve Replacement. S. Arnold. **ACC 2015. Poster Presentation.**
74. **36:** Acute Kidney Injury in Transcatheter Aortic Valve Replacement: Can We Reduce the Risk? Brooks. **ACC 2015. Poster Presentation.**
75. **37:** Impact of Baseline Left Ventricular Function and Aortic Valve Gradient on Outcomes in Patients Treated with Transcatheter Aortic Valve Replacement: Results from the TVT Registry. S. Baron. **ACC 2015. Oral Presentation.**
76. **109:** Outcomes of the Initial Experience with Commercial Transcatheter Mitral Valve Repair in the United States. P. Sorajja. **ACC 2015. Poster Presentation.**
77. **200:** Transcatheter Aortic Valve Replacement Using the Self-Expanding Bioprosthesis: First Report from the Transcatheter Valve Therapies Registry. J. Popma. **TCT 2015. Poster Presentation.**
78. **8:** One Year Outcomes from the STS/ACC Transcatheter Valve Therapy (TVT) Registry. D. Holmes. **ACC 2014. Late-Breaking Clinical Trial: Oral Presentation.**
79. **58:** Transcatheter Aortic Valve in Valve Replacement for Degenerative Aortic Bio prosthesis: Initial Results from the STS/ACC Transcatheter Valve Therapy Registry. M. Tuczu. **ACC 2014. Oral Presentation.**
80. **101:** The Outcomes of Transcatheter Aortic Valve Replacement in Patients with Bicuspid Aortic Stenosis: Insights from the STS/ACC TVT Registry. F. Edwards. **ACC 2014. Oral Presentation.**
81. **N/A:** ESRD: M. Mack. **ACC 2014. Oral Presentation.**
82. **N/A:** The Outcomes of Transcatheter Aortic Valve Replacement in Patients with Bicuspid Aortic Stenosis: Insights from the STS/ACC TVT Registry. F. Edwards. **ACC 2014. Oral Presentation.**
83. **N/A:** Transcatheter Aortic Valve in Valve Replacement for Degenerative Aortic Bioprosthesis: Initial Results from the STS/ACC Transcatheter Valve Therapy Registry. M. Tuczu. **ACC 2014. Oral Presentation.**
84. **3:** The Association of Transcatheter Aortic Valve Replacement (TAVR) Availability, Surgical Aortic Valve Replacement Case Volume, and In-hospital Mortality in the United States. A Report from the STS National Database and the STS/ACC TVT Registry. J. M. Brennan. **STS 2014. Oral Presentation.**

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85. **44:** Comparison of Alternative Access TAVR Techniques in the United States for Patients Considered High-Risk or Inoperable for Aortic Valve Replacement and with Severe Aortic Stenosis. V. Thourani. **STS 2014. Oral Presentation.**
86. **74:** The Prognostic Impact of Chronic Lung Disease in 12,139 Patients Undergoing Transcatheter Aortic Valve Replacement: Results from the STS/ACC-TVT Registry. R. Suri. **STS 2014. Oral Presentation.**