

# Published Manuscripts From the STS/ACC TVT Registry

## **TVT Registry**

#### **PUBLISHED**

- 1. Carroll JD, Edwards FH, Marinac-Dabic D, et al. The STS-ACC Transcatheter Valve Therapy National Registry: A New Partnership and Infrastructure for the Introduction and Surveillance of Medical Devices and Therapies. JACC, Volume 62, Issue 11, 10 September 2013, Pages 1026–1034.
- 2. **2.** Mack MJ, Brennan JM, Brindis R, et al. Outcomes following transcatheter aortic valve replacement in the United States. JAMA. 2013 Nov 20;310(19):2069-77.
- 3. **3.** Brennan JM, Holmes DR, Sherwood MW, et al. The association of transcatheter aortic valve replacement availability and hospital aortic valve replacement volume and mortality in the United States. Ann Thorac Surg. 2014 Dec;98(6):2016-22.
- 4. **5.** O'Brien SM, Cohen DJ, Rumsfeld JS, et al. Variation in Hospital Risk-Adjusted Mortality Rates Following Transcatheter Aortic Valve Replacement in the United States: A Report from the STS/ACC TVT Registry. Circ Cardiovasc Qual Outcomes. 2016;9:560-565.
- 5. **7.** Sherwood MW, Vemulapalli S, Harrison JK, et al. Variation in post-TAVR antiplatelet therapy utilization and associated outcomes: Insights from the STS/ACC TVT Registry. AHJ 2018.
- 6. **8.** DR Holmes, JM Brennan, JS Rumsfeld, et al. Clinical Outcomes at 1 Year Following Transcatheter Aortic Valve Replacement. JAMA. 2015;313(10):1019-1028. doi:10.1001/jama.2015.1474.
- 7. **27.** Alfredsson J, Stebbins A. Brennan JM, et al. Gait Speed Predicts 30-Day Mortality After Transcatheter Aortic Valve Replacement: Results From the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy Registry. Circulation. 2016;133.
- 8. **33.** Arnold SV, Spertus JA, Vemulapalli S, et al. Association of Patient-Reported Health Status With Long-Term Mortality After Transcatheter Aortic Valve Replacement Report From the STS/ACC TVT Registry. Circ Cardiovasc Interv. 2015;8.
- 9. **34.** Hira, RS, Vemulapalli, S, Li, Z, et al. Trends and Outcomes of Off-label Use of Transcatheter Aortic Valve Replacement Insights From the NCDR STS/ACC TVT Registry JAMA Cardiol. 2017;2(8):846-854.
- 10. **37.** Baron SJ, Arnold SV, Herrmann HC, et al. Impact of Ejection Fraction and Aortic Valve Gradient on Outcomes of Transcatheter Aortic Valve Replacement. J Am Coll Cardiol. 2016;67(20):2349-2358. doi:10.1016/j.jacc.2016.03.514.
- 42. Mavromatis, K, Thourani, VH, Stebbins, A, et al. Transcatheter Aortic Valve Replacement in Patients with Aortic Stenosis and Mitral Regurgitation. Ann Thorac Surg. 2017. Volume 104, Issue 6.
- 12. **44.** Thourani VH, Jensen HA, Babaliaros V, et al. Transapical and Transaortic Transcatheter Aortic Valve Replacement in the United States. Ann Thorac Surg 2015;100:1718–27.
- 13. **57.** Szerlip, M, Zajarias, A, Vemalapalli, S, et al. Transcatheter Aortic Valve Replacement in Patients with End-Stage Renal Disease. JACC 2019.
- 14. **58.** Tuzcu, EM, Kapadia, SR, Vemulapalli, S, et al. Transcatheter Aortic Valve Replacement of Failed Surgically Implanted Bioprostheses; The STS/ACC Registry. JACC. 2018.

- 15. **72.** Arsalan M, Szerlip M, Vemilapalli S, et al. Should Transcatheter Aortic Valve Replacement Be Performed in Nonagenarians? Insights From the STS/ACC TVT Registry. JACC. 2016; 67 (10).
- 16. **74.** Suri RM, Gulack BC, Brennan JM, et al. Outcomes of Patients With Severe Chronic Lung Disease Who Are Undergoing Transcatheter Aortic Valve Replacement; The Annals of Thoracic Surgery, Available online 29 August 2015.
- 17. **90.** Chandrasekhar, J, Dangas, G, Yu, J, et al.; Sex-Based Differences in Outcomes With Transcatheter Aortic Valve Therapy; JACC; 12/2016; Vol 68 No. 25; Pages 2733-44.
- 18. 101. Halim S, Edwards FH, Dai D, et al. Outcomes of Transcatheter Aortic Valve Replacement in Patients With Bicuspid Aortic Valve Disease A Report From the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy Registry. Circulation. 26 Feb 2020. https://doi.org/10.1161/CIRCULATIONAHA.119.040333.
- 19. **105.** Fadahunsi , Olowoyeye A, et al. Incidence, Predictors, and Outcomes of Permanent Pacemaker Implantation Following Transcatheter Aortic Valve Replacement: Analysis from STS/ACC TVT Registry, JACC: Cardiovascular Interventions, November 14, 2016, 9 (21) 2189-2199.
- 20. **106.** Carroll, JD, Vemulapalli, S, Dai, D, et al. Procedural Experience for Transcatheter Aortic Valve Replacement and Relation to Outcomes. JACC. July 2017, Volume 70, Issue 1.
- 21. 107. Holmes DR, Nishimura RA, Grover FL, et al. Annual Outcomes With
- 22. Transcatheter Valve Therapy: From the STS/ACC TVT Registry. J Am Coll Cardiol 2015; ISSN 0735-1097.
- 23. **108.** Edwards FH, Cohen DJ, O'Brien SM, et al. Development and Validation of a Risk Prediction Model for In-Hospital Mortality After Transcatheter Aortic Valve Replacement. JAMA Cardiol. Published online March 09, 2016. doi:10.1001/jamacardio.2015.0326.
- 24. **109.** Sorajja P, Mack M, Vemulapalli S, et al. Initial Experience With Commercial Transcatheter Mitral Valve Repair in the United States. JACC. 2016; 67 (10).
- 25. **110.** Sherwood MW, Xiang K, Matsouaka R, et al. Incidence, Temporal Trends, and Associated Outcomes of Vascular and Bleeding Complications in Patients Undergoing Transfemoral Transcatheter Aortic Valve Replacement Insights From the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapies Registry. Circulation: Cardiovascular Interventions.. 15 Jan 2020. https://doi.org/10.1161/CIRCINTERVENTIONS.119.008227.
- 26. **119.** Hyman, MC, Vemulapalli, S, Szeto, WY, et al. Conscious Sedation Versus General Anesthesia for Transcatheter Aortic Valve Replacement: Insights from the NDCR STS/ACC TVT Registry. Circ. November 2017. Volume 136, Issue 22.
- 27. **130.** Dodson, JA, Williams, MR, Cohen, DJ, et al. Home Practice of Direct-Home Discharge and 30-Day Readmission After Transcatheter Aortic Valve Replacemane in the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy (STS/ACC TVT) Registry. JAHA. August 2017, Volume 6, Issue 8.
- 28. **133.** Vemulapalli, S, Dai, D, Hammill, BG, et al. Hospital Resource Utilization Before and After Transcatheter Aortic Valve Replacement: The STS/ACC TVT Registry. JACC 2019.
- 29. **140.** McCarthy, FH, Vemulapalli, S, Zhuokai, L, et al. The Association of Tricuspid Regurgitation With Transcatheter Aortic Valve Replacement Outcomes: A Report From The Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy Registry. ATS. March 2018.
- 30. 153. Joseph, L, Bashir, M, Xiang, Q, et al. Prevalence and Outcomes of Mitral Stenosis in Patients

- Undergoing Transcatheter Aortic Valve Replacement: Findings From the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapies Registry. JACC CI. April 2018.
- 31. **155.** Vora AN, Dai D, Matsuoka R, et al. Incidence, Management, and Associated Clinical Outcomes of New-Onset Atrial Fibrillation Following Transcatheter Aortic Valve Replacement: An Analysis from the STS/ACC TVT Registry. JACC CI 2018.
- 32. **156.** Pineda, AM, Harrison, JK, Kleiman, N. et al. Incidence and Outcomes of Surgical Bailout during TAVR: Insights from the STS/ACC TVT Registry. JACC CI. 2019.
- 33. **161.** Sharma A, Lavie CJ, Elmariah S, et al. Relationship of Body Mass Index With Outcomes After Transcatheter Aortic Valve Replacement: Results From the National Cardiovascular Data-STS/ACC TVT Registry. Mayo Clin Proc. 2020;95(1):57-68. doi:10.1016/j.mayocp.2019.09.027.
- 34. **169.** Arnold, SV, Spertus, JA, Vemulapalli, S, et al.; Quality-of-Life Outcomes After Transcatheter Aortic Valve Replacement in an Unselected Population: A Report from the STS/ACC TVT Registry; JAMA Cardiol. Published online February 01, 2017. doi:10.1001/jamacardio.2016.5302.
- 35. **174.** Abramowitz, Y, Vemulapalli, S, Chakravarty, T, et al. Clinical Impact of Diabetes Mellitus on Outcomes After Trancatheter Aortic Valve Replacement: Insights from the STS/ACCC TVT Registry. Cir Cl. November 2017.
- 36. **180.** Hansen, JW, Foy, A, Yadav, P, et al. Death and Dialysis After Transcatheter Aortic Valve Replacement. An Analysis of the STS/ACC TVT Registry. JACC CI. Sept. 2017.
- 37. **186.** Wang, A, Li, Z, Rymer, JA et al. Relation of Postdischarge Care Fragmentation and Outcomes in Transcatheter Aortic Valve Implantation from the STS/ACC TVT Registry. AJC 2019.
- 38. **190.** Alexander C. Fanaroff, Pratik Manandhar, David R. Holmes, et al. Peripheral Artery Disease and Transcatheter Aortic Valve Replacement Outcomes, Cardiovascular Interventions. 2017;10:e005456, originally published October 17, 2017.
- 39. **191.** Kochar, A, Li, Z, Harrison, JK, et al. Stroke and Cardiovascular Outcomes in Patients With Carotid Disease Undergoing Transcatheter Aortic Valve Replacement. Circ Cardiovasc Interv. 2018.
- 40. **194.** Rymer, JA, Xiang, Q, Wang, A et al. Factors Associated With and Outcomes of Aborted Procedures During Elective Transcatheter Aortic Valve Replacement. JACC CI. 2019.
- 41. **197.** Wayangankar, S.A., Elgendy, I.Y., Xiang, Q., et al. Length of Stay After Transfemoral Transcatheter Aortic Valve Replacement An Analysis of the Society of Thoracic Surgeons/ American College of Cardiology Transcatheter Valve Therapy Registry. JACC CI. 2019.
- 42. **199.** Grover FL, Vemulapalli S, Carroll JD, et al. 2016 Annual Report of The Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy Registry. J Am Coll Cardiol 2017;69:1215-1230.
- 43. **209.** Masha L, Vemulapalli S, Manandhar P, et al. Demographics, Procedural Characteristics, and Clinical Outcomes When Cardiogenic Shock Precedes TAVR in the United States. JACC: CARDIOVASCULARINTERVENTIONS VOL. 13, NO. 11, 2020 Clinical Outcomes When Cardiogenic Shock Precedes TAVR in the U.S. JUNE 8, 2020:1314 25.
- 44. **211.** Chhatriwalla, Ak, Vemulapalli, S, Holmes, DR, et al. Institutional Experience With Transcatheter Mitral Valve Repair and Clinical Outcomes. JACC CI. 2019.
- 45. **215.** Arora, S.A., Vemulapalli, S, Stebbins, A, et al. The Prevalence and Impact of Atrial Fibrillation on 1-Year Outcomes in Patients Undergoing Transcatheter Mitral Valve Repair: Results From the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy

- Registry. JACC CI. 2019.
- 46. **224.** Inohara, T, Manandhar, P, Kosinski, AS, et al. Association of Renin-Angiotensin Inhibitor Treatment With Mortality and Heart Failure Readmission in Patients with Transcatheter Aortic Valve Replacement. JAMA 2018.
- 47. **236.** Thourani V, Kelly Jj, Cervantes DG, et al. Transcatheter Aortic Valve Replacement After Prior Mitral Valve Surgery: Results From the Transcatheter Valve Therapy Registry. The Annals of Thoracic Surgery, Volume 109, Issue 6, 1789 1796.
- 48. **243.** Sorajja, P., Kodali, S., Reardon M.J., et al. Outcomes for the Commercial Use of Self-Expanding Prostheses in Transcatheter Aortic Valve Replacement: A Report From the STS/ACC TVT Registry. JACC: Cardiovascular Intervention. 2017; 10(20): 2090-2098.
- 49. **244.** Qintar, M, Li, Z, Vemulapalli, S, et al. Association of Smoking Status With Long-Term Mortality and Health Status After Transcatheter Aortic Valve Replacement: Insights From the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy Registry. JAHA. 2019.
- 50. **245.** Sorajja, P, Vemulapalli, S, Feldman, T, et al. Outcomes with Transcatheter Mitral Valve Repair in the United States: An STS/ACC TVT Registry Report. JACC. 2017.
- 51. **249.** Shah, B, Villablanca, P, Vemulapalli, S, et al. Outcomes After Transcatheter Mitral Valve Repair in Patients With Renal Disease Insights From the Society of Thoracic Surgeons/American College of Cardiology National Cardiovascular Data Registry Transcatheter Valve Therapy Registry. Circ Cl 2019.
- 52. **254.** Kolte, D., Khera, S., Vemulapalli, S. Outcomes Following Urgent/Emergent Transcatheter Aortic Valve Replacement: Insights from the STS/ACC TVT Registry. JACC. March 2018.
- 53. **256.** Guerrero M, Vemulapalli S, Xiang Q, et al. Thirty-Day Outcomes of Transcatheter Mitral Valve Replacement for Degenerated Mitral Bioprostheses (Valve-in-Valve), Failed Surgical Rings (Valve-in-Ring), and Native Valve With Severe Mitral Annular Calcification (Valve-in-Mitral Annular Calcification) in the United States Data From the Society of Thoracic Surgeons/American College of Cardiology/Transcatheter Valve Therapy Registry. Circulation: Cardiovascular Interventions.6 Mar 2020. https://doi.org/10.1161/CIRCINTERVENTIONS.119.008425.
- 54. **258.** Jennifer A. Rymer, Zhuokai Li, Morgan L. Cox, et al. Pre- Versus Post-Procedure Health Care Resource Utilization in Patients Undergoing Commercial Transcatheter Mitral Valve Repair. J Am Coll Cardiol Intv. 2019 Dec, 12 (23) 2416-2426.
- 55. **263.** Huded CP, Tuzcu EM, Kishnaswamy A, et al. Association Between Transcatheter Aortic Valve Replacement and Early Postprocedural Stroke. JAMA Card. 2019.
- 56. **264.** Herrmann, HC, Daneshvar, SA, Fonarow, GC et al. Prosthesis—Patient Mismatch in 62,125 Patients Following Transcatheter Aortic Valve Replacement: From the STS/ACC TVT Registry. JACC. 2018.
- 57. **268.** Thourani, VH, O'Brien, SM, Kelly, JJ, et al. Development and Application of Risk Prediction Model for In-Hospital Stroke after Transcatheter Aortic Valve Replacement: A Report From the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy Registry. Ann Thorac Surg. 2019.
- 58. **269.** Brennan, MJ, Thomas, L, Cohen, DJ, et al. Transcatheter Versus Surgical Aortic Valve Replacement. JACC. July 2017, Volume 70, Issue 4.
- 59. 270. Arnold SV, O'Brien SM, Vemulapalli S, et al. Inclusion of Functional Status Measures in the

- Risk Adjustment of 30-Day Mortality After Transcatheter Aortic Valve Replacement. JACCCI. 2018.
- 60. **272.** Arnold, SV, Li, Z, Vemulapalli, S, et al. Association of Transcatheter Mitral Valve Repair with Quality of Life Outcomes at 30 days and 1 year: Analysis of the Transcatheter Valve Therapy Registry. JAMA Card. 2018.
- 61. **291.** Alkhouli, M, Holmes DR, Carroll, JD et al. Racial Disparities in the Utilization and Outcomes of TAVR: TVT Registry Report. JACC CI. 2019.
- 62. **296.** Al-Bawardy R, Vemulapalli S, Thourani VH, et al. Association of Pulmonary Hypertension With Clinical Outcomes of Transcatheter Mitral Valve Repair. JAMA Cardiol. 2020;5(1):47–56. doi:10.1001/jamacardio.2019.4428.
- 63. **301.** Varshney, AS, Manandhar, P, Vemulapalli, S, et al. Left Ventricular Hypertrophy Does Not Affect 1-Year Clinical Outcomes in Patients Undergoing Transcatheter Aortic Valve Replacement. JACC CI. 2019.
- 64. **332.** Sanchez CE, Hermiller JB, Pinto DS, et al. Predcitors and risk calculator of early unplanned hospital readmission following contemporary self-expanding transcatheter aortic valve replacement from the STS/ACC TVT-registry. Cardiovascular Revascularization Medicine. 2019.
- 65. **333.** Chandrasekhar J, Vogel B, Baber U, et al. TCT-398 Associations Between Atrial Fibrillation and Clinical Outcomes Among Patients Undergoing Transcatheter Aortic Valve Replacement With Self-Expanding Devices: Results From the United States STS/ACC TVT Registry. Journal of the American College of Cardiology Volume 70, Issue 18 Supplement, October 2017 DOI: 10.1016/j.jacc.2017.09.496.
- 66. **334.** Anwaruddin S, Desai N, Szeto W, et al. Self-Expanding Valve System for Treatment of Native Aortic Regurgitation by Transcatheter Aortic Valve Implantation (from the STS/ACC TVT Registry). AJC. 2019.
- 67. **357.** Marquis-Gravel G, Stebbins A, Kosinski A, et al. Geographic Access to Transcatheter Aortic Valve Replacement Centers in the United States Insights From the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy Registry. JAMA Cardiol. 2020;5(9):1006-1010. doi:10.1001/jamacardio.2020.1725.
- 68. **371.** Chhatriwalla, AK, Vemulapalli, S, Szerlip, M, et al. Operator Experience and Outcomes of Transcatheter Mitral Valve Repair in the United States. JACC CI. December 2019.
- 69. **374.** Anwaruddin S, Desai N, Vemulapalli S, et al. Out-of-Hospital 30-Day Mortality After Transfemoral Transcatheter Aortic Valve Replacement: An STS/ACC TVT Analysis. JACC: Cardiovascular Interventions Evaluating. 2021, 2, 01.
- 70. **399.** Arnold S, Manandhar P, Vemulapalli S, et al. Impact of short-term complications of transcatheter aortic valve replacement on longer-term outcomes: results from the STS/ACC Transcatheter Valve Therapy Registry. European Heart Journal Quality of Care and Clinical Outcomes. 2019.
- 71. **406.** Vemulapalli S, Holmes DR Jr, Dai D, et al. Valve hemodynamic deterioration and cardiovascular outcomes in TAVR: A report from the STS/ACC TVT Registry. Am Heart J. 2018 Jan.
- 72. **413.** Butala NM, Chung M, Secemsky EA, et al. Conscious Sedation Versus General Anesthesia for Transcatheter Aortic Valve Replacement: Variation in Practice and Outcomes. JACC Cardiovasc Interv. 2020;13(11):1277-1287. doi:10.1016/j.jcin.2020.03.008.
- 73. **421.** Malik AO, Chhatriwalla AK, Saxon J, et al. Site-Level Variability in 30-Day Patient Outcomes After Transcatheter Mitral Valve Repair in the United States. Circ CQO. 2020.

- 74. **438**. Carroll JD, Mack MJ, Vemulapalli S, et al. STS-ACC TVT Registry of Transcatheter Aortic Valve Replacement: JACC State-of-the-Art Review. J Am Coll Cardiol. 2020 Nov., 76 (21) 2492–2516
- 75. **439.** Vemulapalli, S, Carroll, JD, Mack, MJ, et al. Procedural Volume and Outcomes for Transcatheter Aortic-Valve Replacement. NEJM. 2019.
- 76. **440.** Julien HM, Stebbins A, Vemulapalli S, et al. Incidence, Predictors, and Outcomes of Acute Kidney Injury in Patients Undergoing Transcatheter Aortic Valve Replacement Insights From the Society of Thoracic Surgeons/American College of Cardiology National Cardiovascular Data Registry—Transcatheter Valve Therapy Registry. Circ. 2021.
- 77. **449.** Russo, MJ, McCabe, JM, Thourani, VH, et al. Case Volume and Outcomes after TAVR with Balloon-Expandable Protheses: Insights from the TVT Registry. JACC. 2019.
- 78. **453.** Dahle, TG, Kaneko, T, McCabe, JM. Outcomes Following Subclavian and Axillary Artery Access for Transcatheter Aortic Valve Replacement: STS/ACC TVT Registry Report. JACC CI. 2019.
- 79. **455.** Desai ND,O'Brien S, Cohen DJ, et al. A Composite Metric for Benchmarking Site Performance in TAVR:ResultsfromtheSTS/ACCTVTRegistry.2021,05,05.https://doi.org/10.1161/CIRCULATIONAHA.1 20.051456.
- 80. **456.** Tang GHL, Sengupta A, Alexis SL, et al. Outcomes of Prosthesis-Patient Mismatch Following Supra-Annular Transcatheter Aortic Valve Replacement: From the STS/ACC TVT Registry. JACC. 2021.
- 81. 458. Whisenant B, Kapadis S, Eleid M, et al. One-Year Outcomes of Mitral Valve-in-Valve
- 82. Using the SAPIEN 3 Transcatheter Heart Valve. JACC. 2020, 11, 19.
- 83. **472**. Butala NM, Makkar R, Secemsky EA, Gallup D, Marquis-Gravel G, et al. Cerebral Embolic Protection and Outcomes of Transcatheter Aortic Valve Replacement: Results from the TVT Registry. Circulation. 2021 Feb 23. doi: 10.1161/CIRCULATIONAHA.120.052874.
- 84. **593.** Forrest JK, Kaple RK, Tang GHL, et al. Three Generations of Self-Expanding Transcatheter Aortic Valves. J Am Coll Cardiol Intv. 2020 Jan, 13 (2) 170-179.
- 85. **N/A.** Mack MJ, Holmes DR Jr. Rational dispersion for the introduction of transcatheter valve therapy. JAMA. 2011 Nov 16;306(19):2149-50.
- 86. **N/A.** Sedrakyan A, Marinac-Dabic D, Holmes DR, et al. The international registry infrastructure for cardiovascular device evaluation and surveillance. JAMA. 2013 Jul 17;310(3):257-9.
- 87. **N/A.** Rumsfeld JS, Holmes DR, Stough WG, et al. Insights From the Early Experience of the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy Registry. J Am Coll Cardiol Intv. 2015.
- 88. **N/A.** John D. Carroll, Jeff Shuren, Tamara Syrek Jensen, John Hernandez, David Holmes, Danica Marinac-Dabic, Fred H. Edwards, Bram D. Zuckerman, Larry L. Wood, Richard E. Kuntz and Michael J. Mack. Transcatheter Valve Therapy Registry Is A Model For Medical Device Innovation And Surveillance. Health Affairs, 34, no.2 (2015):328-334.

## **IN PRESS**

1. **472.** Butala NM, Makkar R, Secemsky EA, Gallup D, Marquis-Gravel G, et al. Cerebral Embolic Protection and Outcomes of Transcatheter Aortic Valve Replacement: Results from the TVT Registry. Circulation. 2021 Feb 23. doi: 10.1161/CIRCULATIONAHA.120.052874. Epub a head of print. PMID: 33619968.