

December 2021



NCDR[®]
NATIONAL CARDIOVASCULAR DATA REGISTRY

**In Progress Projects Based on
STS/ACC TVT Registry**

December 2021

In Process, Unpublished NCDR Manuscripts

The following pages list current research and publications proposals that have been recently approved, are under analysis, are under manuscript development, or submitted to a journal for review/publication. Items are listed by registry and include the ID number and title.

STS/ACC TVT REGISTRY

Manuscript Status	RPA ID #	Lead Author	Title
In Press	176	Arnold	Comparison of Physician- and Patient- Reported Health Status Before and After TAVR
In Press	559	Mack	Mitral Annual Update Paper
Submitted	98	Thomas Gleason	Outcomes of patients with elevated pulmonary artery pressure undergoing TAVR
Submitted	240	S. Baron	Development of a Risk Prediction Model for 1-Year Mortality after Surgical vs. Transcatheter Aortic Valve Replacement in Patients with Severe Aortic Stenosis
Submitted	350	John Vavalle	The Effect of Obesity on Outcomes in Patients Undergoing MitraClip- Insights from the TVT-NCDR registry
Submitted	417	Tanyanan Tanawuttiwat	The Use of Non-vitamin K Antagonist and Outcomes in Atrial Fibrillation Patients after Transcatheter Aortic Valve Replacement: Insights from STS/ACC TVT Registry.
Submitted	467	Tsuyoshi Kaneko	Risk Profile of Patients undergoing Transcatheter Aortic Valve Replacement in the US and Japan: Joint Data Harmonization Effort between TVT and J-TVT
Submitted	474	Anna Hung	Association between Embolic Protection Device use and Reimbursement Rates for Transcatheter Aortic Valve Replacement
Submitted	509	Nazif	Comparative Analysis of the Clinical Outcomes of the SAPIEN 3 Ultra and SAPIEN 3 Transcatheter Heart Valves (THV)

December 2021

In Preparation	114	Maniar	Impact of the Presence of Coronary Artery Disease and the Revascularization on Outcomes of Patients Undergoing Trans-catheter Aortic Valve Replacement: Insights from STS/ACC TVT Registry
In Preparation	117	(Confirm Author) Sherwood	The Use of Red Blood Cell Transfusion and Outcomes after TAVR: Insights from the STS/ACC TVT Registry®
In Preparation	260	Muath Bishawi	Failure to Rescue in Transcatheter Aortic Valve Replacement
In Preparation	361	Brennan	Individualized Risk Prediction for Intermediate and High Risk Patients with Aortic Valve Stenosis Considering SAVR or TAVR in the United States
In Preparation	431	Katherine Chau	National trends of permanent pacemaker implantation after transcatheter aortic valve replacement
In Preparation	437	Vemulapalli	Improving Data Completeness and Expanding Available Data Elements in the TVT Registry through the use of EHR-Based Data: Linking the TVT Registry and PCORnet
In Preparation	450	Tuzcu	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
In Preparation	479	Adam Nelson	Procedural Volumes versus Outcomes Measurements for Identifying Low and High Performing TAVR Centers
In Preparation	505	Amit Vora	Temporal Trends and Hospital Variation in the Pacemaker Implantation following TAVR – Insights from the STS / ACC TVT Registry
In Preparation	532	Sahil Khera	Incidence, Trends and Outcomes of Non-Access site Bleeding After Transfemoral Transcatheter Aortic Valve Replacement
In Preparation	553	Adam Nelson	The contribution of site characteristics and patient selection to variation in site TAVR outcomes
In Preparation	573	Dharam Kumbhani	Percutaneous Structural Heart Volumes, Hospital Characteristics, and MitraClip outcomes
In Preparation	591	Dallan	Outcomes by Self-Expanding Valves in VIV TAVR
In Preparation	592	Attizzani	Redo Transcatheter Aortic Valve Replacement with the Supra-Annular, Self-Expandable Evolut Platform: Insights from the TVT Registry
In Preparation	640	Vemulapalli	Minimum Core Data Elements for Transcatheter Aortic Valve Replacement Evidence: A systematic review and joint scientific statement by the PASSION CV Public Private Partnership, the Heart Valve Collaboratory, and the Transcatheter Valve Therapy Registry

December 2021

In Preparation	127	Saif Anwaruddin	A Characterization of the Incidence and Predictors of Paravalvular Regurgitation (PVL) and its Impact on Outcomes: A Study of the STS/ACC Transcatheter Valve Therapy (TVT) Database
Analysis	241	R. Matsouka	PCORI Grant - 6 manuscripts expected: 2 of 6 Estimating the risk of mortality in aortic valve disease treatment: assessment for bias in non-randomized treatment comparisons
Analysis	416	Siddharth Patel	Incidence, Predictors and Clinical Impact of Recovery in Left Ventricular Systolic Function after Transcatheter Aortic Valve Replacement: an analysis of the STS/ACC TVT Registry.
Analysis	442	Wang	Association of MitraClip Availability and Hospital Surgical Mitral Valve Repair Volume and Mortality-Aim2
Analysis	444	Lowenstern	Association of MitraClip Availability and Hospital Surgical Mitral Valve Repair Volume and Mortality-Aim1
Analysis	451	Arora	Association of Post Transcatheter Aortic Valve Implantation Mitral Regurgitation with Mortality and Heart Failure Readmission in Patients with Aortic Stenosis
Analysis	464	Tomo Ando	Comparative Outcomes of Direct Oral Anticoagulants Versus Vitamin K Antagonist After Transcatheter Aortic Valve Replacement; From the TVT Registry
Analysis	466	Michael Young	The Impact of Frailty on Outcomes in Patients Undergoing Transcatheter Mitral Valve Repair
Analysis	510	Abbas	Clinical Outcomes of Valve-in-Valve Transcatheter Aortic Valve Replacement (VIV-TAVR) with SAPIEN 3
Analysis	511	Herrmann	Prosthesis-Patient Mismatch After TAVR (TVT Registry Research Proposal)
Analysis	518	Alan Zajarias	Outcome of Redo TAVR for failing transcatheter heart valves
Analysis	548	Trevor Simard	Evaluation of transcatheter mitral-valve repair in cardiogenic shock
Analysis	558	Joanna Chikwe	Safety and efficacy of transcatheter mitral repair in degenerative mitral regurgitation
Analysis	560	Giri	Rates and Outcomes of Percutaneous Coronary Intervention after Implantation of Transcatheter Aortic Valve Replacement
Analysis	576	John Suffredini	Trends, Predictors, and Outcomes associated with Elevated Gradients after Transcatheter Valve-In-Valve for Degenerated Surgical Bioprosthetic Aortic Valves

December 2021

Analysis	594	Grayburn	Outcomes of Transcatheter Mitral Valve Repair in High Surgical Volume Centers
Analysis	595	John Carroll	Impact of COVID-19 on Patients Needing Transcatheter Valve Therapy in USA
Analysis	596	Bernacki	TAVR Peri-procedural Code Status
Analysis	598	Adnan Chhatiwalla	Outcomes of Mitral Valve Transcatheter Edge-to-Edge Repair in Patients with Functional Mitral Regurgitation and Clinical Trial Exclusions: Insights from the STS/ACC TVT Registry
Analysis	613	Suzanne Arnold	Mediators of Improvement in TAVR Outcomes Over Time
Analysis	614	Chetan Huded	Characteristics and Outcomes of Patients with Minimal or No Symptoms Treated with Transcatheter Aortic Valve Replacement
Analysis	630	Marc Allard-Ratick	The effect of transcatheter mitral valve repair on chronic kidney disease
Analysis	635	Yasser Sammour	Impact of Baseline Tricuspid Regurgitation on Health Status After Transcatheter Aortic and Mitral Valve Therapies: Insights from the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapies Registry
Analysis	638	Harvey	Changing In-hospital Permanent Pacemaker Implantation Rates in the TVT Registry
Analysis	654	Kyeeun Park	Sex and race based difference with TMVR mortality and complications
Analysis	TBD	Brennan	PCORI Grant - 6 manuscripts expected: Compare outcomes with surgical vs. transcatheter AVR Create a decision tool for to evaluate expected outcomes in those patients Develop risk assessment tool for inoperable patients with aortic valve disease
On Hold	285	(Confirm Author) Arman Qamar	Change in Mitral Valve Gradient Following Mitraclip Repair and Correlation to 30-day and 1 year outcomes
On hold	342	Kaneko	Peripheral versus Central Access for Alternative Access TAVR
On Hold	384	Akash Kataruka	Outcomes of Percutaneous Structural Interventions at Top-Ranked and Non-Ranked Hospitals: Insights from the NCDR STS/ACC TVT Registry
On Hold	480	Dahaval Kolte	Temporal Trends in Cause of Death After TAVR

December 2021

On Hold	484	John Saxon	Clinical Outcomes After Repeat MitraClip
On Hold	498	Singh	Assessment of clinical & hemodynamic outcomes after re-do transcatheter valve replacement for degenerated or dysfunctional transcatheter aortic prosthesis. Transcatheter Aortic Valve-IN-Transcatheter Aortic Valve (TAV-IN-TAV) study from STS/TVT registry.
On Hold	517	Brennan	Outcomes of Transcatheter Aortic Valve Replacement for Primary Aortic Insufficiency
On Hold	547	Sammour	Impact of Coronary Artery Disease and Revascularization on Health Status After Transcatheter Aortic Valve Replacement: Insights from the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapies Registry
External	495	Turagam	Applied Machine Learning for Predicting Post Transcatheter Aortic Valve Replacement Permanent Pacemaker Implantation: Insights From the U.S. Society of Thoracic Surgeons/American College of Cardiology TVT Registry
External	508	McCabe	Clinical Outcomes of Subclavian-Axillary Approach with Percutaneous Technique Compared to Cutdown for Transcatheter Aortic Valve Replacement with SAPIEN 3