

September 2022



**NCDR<sup>®</sup>**

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NATIONAL CARDIOVASCULAR DATA REGISTRY

**In Progress Projects Based on  
NCDR Registries**

## UNPUBLISHED, IN PROGRESS PROJECTS

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**In Process, Unpublished NCDR Manuscripts**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.

**A FIB ABLATION REGISTRY**

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	1	Jonathan Hsu	The NCDR AFib Ablation Registry® Report: Review of the Registry's Initial Two years, Data Collected, and Future Plans
Submitted	4	Douglas Darden	Characteristics and In-Hospital Outcomes of Patients Undergoing Pulmonary Vein Isolation Only vs. Pulmonary Vein Isolation with Adjunctive Lesions: Insights from the NCDR AFib Ablation Registry
In Preparation	12	Brent Klinkhammer	Trends in Transesophageal Echocardiography Use Prior to Atrial Fibrillation Ablation: Insights from the NCDR® AFib Ablation Registry®
Analysis	21	Omar Yousuf	Catheter Ablation for Atrial Fibrillation in Patients with Heart Failure with Reduced Left Ventricular Ejection Fraction: Insights from the NCDR AFib Ablation Registry

## CATH PCI REGISTRY

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	493	Z.Alamarzooq	Long-term major adverse cardiovascular events after chronic total occlusion percutaneous coronary intervention
Submitted	666	Rajendra Mehta	Recent Trends in the Incidence, Risk factors and Outcomes of Periprocedural Stroke in Patients Undergoing PCI
In Preparation	487	Taku Inohara	Trends and in-hospital outcomes of prophylactic mechanical circulatory support devices in elective PCI
In Preparation	524	H. Vernon Anderson	Trends in Transradial Artery Access for Percutaneous Coronary Intervention in Hospitals With and Without Onsite Cardiac Surgery in the United Kingdom and the United States. A Report from the International Registries Collaboration
In Preparation	525	H. Vernon Anderson	Trends in Drug Eluting Stent Use in Elderly Patients with ST-elevation Myocardial Infarction in the United Kingdom and the United States. A Report from the International Registries Collaboration
In Preparation	639	Ravi Sharma	Procedural Outcomes of Percutaneous Coronary Interventions Post Transcatheter Aortic Valve Replacement: Insights from the National Cardiovascular Data Registry (NCDR) registry
In Preparation	650	Akash Kataruka	Failure to Rescue after Percutaneous Coronary Intervention Complications: Insights from NCDR ® CathPCI Registry
In Preparation	671	Reed Mszar	Symptom Burden Among Adults Undergoing Elective Percutaneous Coronary Intervention and Variations in Hospital Submission of Patient-Reported Outcomes
In Preparation	673	Andrea Price	Strategic RPA: Changes in observed post PCI Bleeding events before and after the participation in the Reduce the Risk PCI Bleed Campaign
In Preparation	681	Dhruv Mahtta	Trends, outcomes and institutional variation for radial versus femoral access among patients with acute myocardial infarction and cardiogenic shock undergoing PCI: An analysis from the CathPCI Registry

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Analysis	632	Frederic Resnic	Does the Gender of the Interventional Cardiologist Influence Door to Balloon Times in STEMI?  YNHH Core title: Is the Sex of the Interventional Cardiologist Associated with Door to Balloon Times in STEMI?
Analysis	683	Devika Aggarwal	Predictors of and Outcomes associated with Ultra-low Contrast Volume and Zero Contrast Use During Percutaneous Coronary Interventions in Patients With Existing Renal Impairment
Analysis	684	Ben Peterson	Frailty and Risk of Mortality Among Patients Undergoing High-Risk or Complex Percutaneous Coronary Intervention: Insights from the CathPCI Registry.
Analysis	708	Javier Valle	Strategic: Contemporary Trends in Percutaneous Coronary Intervention at Facilities Without On-Site Cardiac Surgical Capabilities: Insights from the National Cardiovascular Data Registry
On Hold	489	William Cooper	Association Between Unsolicited Patient Complaints and Adverse Outcomes Related to Percutaneous Coronary Intervention
On Hold	611	Zachary Wegermann	Prevalence, temporal trends, and associated outcomes of intravascular ultrasound use in patients undergoing PCI
On Hold	667	Hannah Chaudry	Nationwide trends and predictors of anti-anginal use and de-escalation in patient's undergoing PCI for stable ischemic heart disease: Insights from the CathPCI Registry
On Hold	698	Zaid Almarzooq	A quasi-experimental study to assess the impact of door-to-balloon time delays on mortality
External	420	F. Alqahtani	Anatomic distribution of culprit lesions in smoker patients with STEMI undergoing PCI
External	522	Hector Tamez Aguilar	Long-term Outcomes and Resource Utilization Associated with Coronary Stent Restenosis
External	528	Sajjad Raza	Impact of Large Clinical Trials on Coronary Revascularization Practice in the United States

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External	569	Bobak Mortazavi	ICH.2 Dynamic Changes to Risk of Post-PCI Major Bleeds Throughout a Cardiac Catheterization Laboratory Visit Using the CathPCI Registry
External	570	Bobak Mortazavi	ICH.5 Evaluating Personalized Treatment Effectiveness of PCI Bleeding Avoidance Strategies Using the CathPCI Registry
External	593	Purav Mody	Coronary Angiography and Outcomes after In-Hospital Cardiac Arrest
External	603	John Spertus	ICH 7: Model guided contrast dosing to reduce risk of acute kidney injury in patients undergoing percutaneous coronary interventions
External	604	Frederick Masoudi	ICH 6: Performance measures for comparing clinical risk prediction models: Looking beyond c-statistics
External	605	Mark Hlatky	Use and Outcomes of Coronary Angiography and Percutaneous Coronary Intervention Performed in the Evaluation of Patients for Kidney Transplantation
External	633	Jeffrey Popma	Evaluation of outcomes for patients receiving percutaneous mechanical circulatory support devices during elective high-risk percutaneous coronary interventions
External	705	Mitsuaki Sawano	Assessing the Impact of Race Using Machine Learning Methods to Predict Risk of Bleeding After Percutaneous Coronary Intervention in the National Cardiovascular Data Registry
External	706	Tara Chang	Use and Outcomes of Coronary Angiography and Percutaneous Coronary Intervention Performed in the Evaluation of Patients for Kidney Transplantation
External	707	Karthik Murugiah	ICH.8: Effect of inclusion of race in eGFR calculation on the NCDR AKI prediction model

## CHEST PAIN – MI REGISTRY (FORMERLY ACTION)

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	334	Ajar Kochar	Temporal Trends of Higher Potency P2Y12 Inhibitor Use and Bleeding Outcomes in Patients with Myocardial Infarction Complicated by Out of Hospital Cardiac Arrest
Submitted	342	Jacqueline Tamis-Holland	Contemporary Evaluation of the Incidence and Timing of Post Infarction Ventricular Arrhythmias Among Patients Undergoing Primary PCI for ST Segment Elevation Infarction
Submitted	385	Khaled Ziada	Impact of urban vs. rural residence on process and outcome of ST segment elevation myocardial infarction
Submitted	397	Cian McCarthy	Use of high-sensitivity cardiac troponin assays among U.S. hospitals and association with patient testing and outcomes: a report from the NCDR Chest Pain-MI Registry
In Preparation	165	C. Fordyce	Linking Regional Approach to Cardiovascular Emergencies Cardiac Arrest Resuscitation System (RACE-CARS) to NCDR ACTION-GWTG Registry – Evaluating Regional Systems Of Care in Acute Coronary Syndrome Complicated By Out-of-Hospital Cardiac Arrest: Pre- and Intra-Hospital Approaches
In Preparation	243	N. Albert	Changes in Performance Measures Over Time after Implementation of the Patient Navigator program
In Preparation	251	Majithia	Public Reporting and Outcomes of Patients with Out-of-Hospital Cardiac Arrest
In Preparation	313	Dharam Kumbhani	Attributes of high-performing hospitals for cardiogenic shock following acute myocardial infarction
In Preparation	371	Kamil Faridi	Treatment and Clinical Outcomes for Patients with Peripheral Artery Disease Hospitalized for Acute Myocardial Infarction

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In Preparation	395	Julie Mobayed	CPMI Patient Navigator program analysis (ad hoc patient navigator analysis)
Analysis	374	Zachary Wegermann	Simultaneous STEMI Presentation: Incidence and Outcomes
On Hold	269	Acharya	Trends of Compliance with Guideline Directed Therapy and Performance and Quality Measures in Diabetic Patients Admitted with Acute Coronary Syndrome
On Hold	335	Karthik Murugiah	Hospital Collaboration with Emergency Medical Services in the Care of Patients with Acute Myocardial Infarction: Results from the Translating Outstanding Performance in Percutaneous Coronary Intervention (TOP PCI) Study
On Hold	348	Nathaniel Smilowitz	Patterns of Discharge Medical Therapy and Outcomes in Patients with Myocardial Infarction and Non-obstructive Coronary Arteries (MINOCA): An Analysis of the NCDR Chest Pain-MI Registry



## DIABETES COLLABORATIVE REGISTRY

Manuscript Status	RPA ID #	Authors Name	Title
Submitted	13	Tcheugui	Quality of Care Among Diabetic Patients with Cerebrovascular Disease compared to those with other forms of Atherosclerotic Cardiovascular Diseases (ASCVD) – The Diabetes Collaborative Registry
Submitted	14	Vaduganathan	Patterns of Use of Glucose-Lowering Therapies by Prescriber Type in Patients with Type 2 Diabetes Mellitus: the NCDR Diabetes Collaborative Registry
Submitted	41	Priya Jain	Use of Bariatric Surgery Among Patients with Diabetes: Insights From The NCDR Diabetes Collaborative Registry
N/A	8	Katherine Gambino	Diabetes Belt Benchmark Report

**EPDI REGISTRY (FORMERLY ICD)**

Manuscript Status	RPA ID #	2nd Manu.	Lead Author	Title
In Preparation	78	B	Dhruva	Sex Differences in Long-Term Adverse Event Risk After Implantable Cardioverter-Defibrillator Implantation
In Preparation	168		S Dhruva	Sex Differences in Patient Characteristics, Indications, and In-Hospital Adverse Events of the S-ICD
In Preparation	211		V Kutyaifa	ICD in Patients with Non-ischemic Cardiomyopathy in the United States – Insights from the NCDR ICD Registry (DANISH)
In Preparation	161		J Akar	Predictors of RV Pacing and Pacing-Induced Adverse Outcomes
In Preparation	192		Yousuf	Appropriateness of ICD and CRT-D
In Preparation	212		Khariton	Validation of SCD HeFT in ICD
Submitted	240		Chui	Failure to use CRT among eligible patients and association with long-term outcomes
Analysis	249		Daniel Friedman	Left ventricular lead implant failure in the United States: A Report from the NCDR ICD Registry
In Preparation	264		Goldstein	Utilization Patterns and Outcomes Associated with the Use of Primary Prevention Implantable Cardioverter Defibrillators in Patients with Hypertrophic Cardiomyopathy
In Preparation	278		Goldstein	Utilization Patterns and Outcomes Associated with the Use of Primary Prevention Subcutaneous Implantable Cardioverter Defibrillators in Patients with Hypertrophic Cardiomyopathy
On Hold	178		Sharma	Outcomes in patients with diabetes receiving a subcutaneous implantable cardioverter defibrillator.
On Hold	225		Cha	Survival and ICD therapy after CRT-D generator replacement in patients with normalized or improved LVEF

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On Hold	266		Pun	Long-Term Outcomes of Subcutaneous Implantable Cardioverter Defibrillators in Dialysis Patients
External	262		Andrew Krumerman	Complications after CIED implantation following cessation of elective procedures during the COVID 19 crisis.
External	277		Benjamin Steinberg	Implementation and Outcomes of Novel Pacing Strategies in US Clinical Practice

## IMPACT REGISTRY

Manuscript Status	RPA ID #	Lead Author	Title
In Preparation	27	Aimee Armstrong	The IMPACT of Reducing Radiation Risk: An NCDR QI Project
In Preparation	29	Natalie Jayaram	Prediction of adverse events after catheter-based procedures in congenital heart disease in the IMPACT registry.
In Preparation	34	Ada Stefanescu Schmidt	Use of transcatheter pulmonary valve replacement in patients with congenital heart disease- a report from the IMPACT registry
In Preparation	48	Doff McElhinney	Standards of Care for Pulmonary and Aortic Balloon Valvuloplasty in Children, Adolescents, and Young Adults with Congenital Heart Disease
In Preparation	65	Maully Shah	Effect of Ablation Energy Source on Outcomes of Pediatric AVNRT Ablation: RF vs. Cryo
In Preparation	68	Shriprasad Deshpande	Indications and Safety of Endomyocardial Biopsy in Pediatric Heart Transplant Patients: Analysis of the IMPACT Registry Data
In Preparation	70	Brian Morray	Evolving Utilization of Covered Stents in Patients Undergoing Transcatheter Therapy for Aortic Coarctation or Right Ventricular Outflow Tract Dysfunction
In Preparation	77	Adrienne Bischoff	Percutaneous Patent Ductus Arteriosus Closure in infants $\leq 2$ kg
In Preparation	83	Natalie Jayaram	Examining the performance of the IMPACT risk model
Analysis	73	Dustin Nash	Evaluation of the Effect of Center Procedural Volume on Outcomes of Pediatric Catheter Ablation
On Hold	43	Lisa Bergersen	Validating the IMPACT Registry Risk-Standardization Model in IMPACT version 2
Externally Funded	80	Katia Bravo Jaimes	Racial disparities in clinical presentation and outcomes of transcatheter coarctation procedures in adults with coarctation of the aorta.

## LAAO REGISTRY

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	61	Matthew Price	Peri-procedural pericardial effusion associated with transcatheter LAA closure in the NCDR LAAO registry: incidence, risk factors, and clinical outcomes.
Submitted	73	Amneet Sandhu	Device-size Related Complications Associated with Left Atrial Appendage Occlusion: Findings from the NCDR LAAO Registry <sup>2</sup>
In Preparation	56	Freeman	VOLUME OUTCOMES To evaluate the hospital and physician characteristics for procedures included in the LAAO Registry and the association between these characteristics and major adverse events Safety and Effectiveness of Left Atrial Appendage Closure in Atrial Fibrillation (SAFELY-AF) Aim 3
In Preparation	88	John-Ross Clarke	Safety and Effectiveness of Pre-procedure Imaging for Percutaneous Left Atrial Appendage Occlusion: Insights from the National Cardiovascular Data Registry (NCDR) LAAO Registry
Analysis	60	Douglas Darden	Impact of Frailty on In-Hospital and Long-Term Outcomes in Patients Undergoing Percutaneous Left Atrial Appendage Occlusion: Insights from the NCDR LAAO Registry
Analysis	87	Moussa Mansour	LAAO in Patients with ICH
Analysis	94	Douglas Gibson	Clinical characteristics and outcomes in patients with same day discharge after left atrial appendage occlusion with WATCHMAN FLX
Analysis	95	Samir Kapadia	Real-world Outcomes with WATCHMAN FLX: Early Results from the SURPASS analysis of the NCDR LAAO Registry
External	4	Jennifer Williams	WATCHMAN US Post-Implant Drug Therapy Analysis
External	9	James Freeman	Left Atrial Appendage Occlusion Safety and Effectiveness Study.

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External	33	Kenneth Ellenbogen	Real World Outcomes with WATCHMAN: 7-Day Safety and 45-Day Results from the NESTed Post Approval Study
External	37	Jennifer Williams	WATCHMAN® New Enrollment PoST Approval Surveillance Analysis Plan to Assess Safety and Efficacy for the use of Dual AntiPlaquelet Post-Implant (WATCHMAN NESTed SAP - DAPT)
External	38	James Freeman	Safety and Effectiveness of Left Atrial Appendage Closure in Atrial Fibrillation (SAFELY-AF): Aim 1: A comparison of short-term rates of major adverse events for patients in the pivotal LAAO randomized trials with rates for patients in community-practice
External	39	James Freeman	Evaluating the demographics and medical comorbidities for patients in the LAAO Registry that are associated with major adverse events and developing a risk model Safety and Effectiveness of Left Atrial Appendage Closure in Atrial Fibrillation” (SAFELY-AF) Aim 2
External	40	Gaurav Dhar	Efficacy and clinical benefit of Left Atrial Appendage Occlusion (LAAO) in patients with Atrial Fibrillation with elevated CHAD-VaSC score and End Stage Renal Disease (ESRD) on hemodialysis (HD)
External	57	Jeptha Curtis	Safety and Effectiveness of Left Atrial Appendage Closure in Atrial Fibrillation (SAFELY-AF) Aim 4.
External	59	Chengan Du	Safety and Effectiveness of Left Atrial Appendage Closure in Atrial Fibrillation (SAFELY-AF) Aim 2.
External	79	Andrew Goldsweig	Association of Antithrombotic Regimen with Ischemic and Hemorrhagic Outcomes Following Left Atrial Appendage Occlusion: Insights from the NCDR LAAO Registry
Submitted	99	Daniel Friedman	Watchman left atrial appendage occluder device embolization and migration
Analysis	101	Enrico Ferro	Comparison of intracardiac and transesophageal echocardiography for guidance of percutaneous left atrial appendage occlusion with WATCHMAN FLX: Results from the SURPASS analysis of the NCDR LAAO Registry

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Analysis	102	Megan Coylewright	Outcomes with DAPT compared to Anticoagulation after LAAC with WATCHMAN: A propensity-matched analysis of NCDR LAAO Registry WATCHMAN data
Analysis	103	Devi G. Nair	Clinical characteristics and outcomes in men and women receiving left atrial appendage occlusion with WATCHMAN FLX
External	114	Matthew Price	Peri-Device Leak after Left Atrial Appendage Closure with WATCHMAN FLX: Incidence and predictors

## PINNACLE REGISTRY

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	106	Kamal Henderson	Gender Differences in Long Term Cardiovascular Outcomes among Women and Men with Atrial Fibrillation: A Review from the NCDR
Submitted	119	David Lee	Practice-Level Variation in Secondary Prevention Treatment Among Patients with Peripheral Artery Disease: Insights From the NCDR PINNACLE Registry
Submitted	127	Prateeti Khazanie	Provider-Level Variation in the Guideline Concordant Management of Cardiovascular Disease: Insights from NCDR PINNACLE
Submitted	221	Daniel Silverman	Association of beta-blocker use and heart failure hospitalizations in patients with HFpEF: Findings from the PINNACLE Registry
In Preparation	136	Karl Mingos	Practice-level variation in guideline-recommended patient education among outpatients with heart failure: Insights from the PINNACLE Registry
In Preparation	144	Eric Stecker	"The influence of insurance expansion on cardiovascular preventive care
In Preparation	180	Gaggin	Relevance and Significance of Left Ventricular Ejection Fraction in Chronic Heart Failure Phenotypes in Patients With Heart Failure With Preserved, Midrange and Reduced Ejection Fraction: Results from the PINNACLE Registry
In Preparation	188	Amarnath Annapureddy	Relationship Between Industry Payments to Physicians and Prescription Patterns for NOACs, PCSK9 inhibitors, and ARNI: A Report from the NCDR PINNACLE Registry
In Preparation	196	Christopher Cannon	The Benchmarking an Oral Anticoagulant Treatment Rate in Patients with Nonvalvular Atrial Fibrillation (BOAT-AF) study: A prospective, multicenter study evaluating perspectives on use of oral anticoagulation using a patient survey and clinical review by t
In Preparation	198	Vittal Hejjaji	Predictors of Smoking Cessation among Outpatients with Atherosclerotic Cardiovascular Disease



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In Preparation	213	Krishna Pundi	The 2017 ACC/AHA Hypertension Guidelines and CHA2DS2-VASc Up-Scoring in Patients with Atrial Fibrillation: Insights from the NCDR® PINNACLE® Registry
In Preparation	216	Firas Al Badairn	Prescription patterns and provider-level variability in the use of direct-acting oral anti-coagulants in non-valvular atrial fibrillation patients at extremes of body weight
Analysis	135	Justin Sadhu	Use, Safety, and Effectiveness of Novel Oral Anticoagulants in Overweight and Obese Patients with Atrial Fibrillation
Analysis	140	Erica Spatz	Association between Accountable Care Organization participation and Quality of Outpatient Cardiovascular Care
Analysis	206	Rajesh Dash	A novel, evidence-based AI engine identifies real-world, high impact care gaps at scale: a proposal for stroke prevention opportunities in 13 million patients from the largest cardiovascular registry
Analysis	215	Paul Hess	Practice-Level Compliance with Cardiac Performance Measures and Outcomes in US Ambulatory Care: Findings from the NCDR PINNACLE Program
Analysis	220	Eric Brandt	Blood Pressure and Treatment Patterns Among Older Adults After Recent Major Trial Results and Guideline Recommendations
Analysis	225	Leila Haghighat	Implications of REDUCE-IT for the management of hypertriglyceridemia—an analysis from the NCDR PINNACLE registry

## PVI REGISTRY

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	17	Howard Julien	Racial and Ethnic Disparities in Characteristics and Outcomes of Patients Referred for Peripheral Vascular Intervention: Analysis from the PVI Registry
In Preparation	15	Arman Qamar	Impact of Annual Operator Volumes on Outcomes after Lower Extremity Endovascular Revascularization: Insights from the NCDR-PVI Registry
In Preparation	43	Amod Amritphale	Characteristics and outcomes of patients presenting with acute limb ischemia: insights from the NCDR PVI Registry
In Preparation	49	Mazen Albaghdadi	Contemporary patterns of vessel preparation among patients undergoing peripheral vascular intervention in the United States: insights from the National Cardiovascular Data Registry
External	64	Balijepalli	Procedures Utilizing the AngioSculpt (AS) PTA Scoring Balloon Device

## STS/ACC TVT REGISTRY

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	98	Thomas Gleason	Outcomes of patients with elevated pulmonary artery pressure undergoing TAVR
Submitted	342	Kaneko	Peripheral versus Central Access for Alternative Access TAVR
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	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	285	Lowie Van Assche	Change in Mitral Valve Gradient Following Mitraclip Repair and Correlation to 30-day and 1 year outcomes
In Preparation	350	John Vavalle	The Effect of Obesity on Outcomes in Patients Undergoing MitraClip- Insights from the TVT-NCDR registry
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	466	Michael Young	The Impact of Frailty on Outcomes in Patients Undergoing Transcatheter Mitral Valve Repair
In Preparation	479	Adam Nelson	Procedural Volumes versus Outcomes Measurements for Identifying Low and High Performing TAVR Centers
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	558	Joanna Chikwe	Safety and efficacy of transcatheter mitral repair in degenerative mitral regurgitation

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In Preparation	573	Dharam Kumbhani	Percutaneous Structural Heart Volumes, Hospital Characteristics, and MitraClip outcomes
In Preparation	576	John Suffredini	Trends, Predictors, and Outcomes associated with Elevated Gradients after Transcatheter Valve-In-Valve for Degenerated Surgical Bioprosthetic Aortic Valves
In Preparation	595	John Carroll	Impact of COVID-19 on Patients Needing Transcatheter Valve Therapy in USA
In Preparation	598	Adnan Chhatriwalla	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
In Preparation	613	Suzanne Arnold	Mediators of Improvement in TAVR Outcomes Over Time
In Preparation	636	Bernacki	TAVR Peri-procedural Code Status
In Preparation	672	Anirudh Kumar	Impact of Mitral Stenosis on Patients Undergoing Transcatheter Aortic Valve Replacement (TAVR)
In Preparation	681	Mayra Guerrero	Outcomes of Transcatheter Mitral Valve Replacement Using with the SAPIEN 3 Balloon-Expandable Aortic Transcatheter Heart Valve in Failed Mitral Annuloplasty Ring
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	464	Tomo Ando	Comparative Outcomes of Direct Oral Anticoagulants Versus Vitamin K Antagonist After Transcatheter Aortic Valve Replacement; From the TVT Registry
Analysis	480	Dahaval Kolte	Temporal Trends in Cause of Death After TAVR
Analysis	510	Abbas	Clinical Outcomes of Valve-in-Valve Transcatheter Aortic Valve Replacement (VIV-TAVR) with SAPIEN 3
Analysis	548	Trevor Simard	Evaluation of transcatheter mitral-valve repair in cardiogenic shock

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Analysis	560	Giri	Rates and Outcomes of Percutaneous Coronary Intervention after Implantation of Transcatheter Aortic Valve Replacement
Analysis	594	Grayburn	Outcomes of Transcatheter Mitral Valve Repair in High Surgical Volume Centers
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	645	Anubodh Varshney	Guideline directed medical therapy utilization in heart failure patients undergoing transcatheter mitral valve repair
Analysis	654	Kyeeun Park	Sex and race-based difference with TMVR mortality and complications
Analysis	673	Joe Aoun	Outcomes of Transcatheter Mitral Valve Repair in Patients with Recurrent Mitral Regurgitation After Surgical Mitral Valve Repair: A Report from the STS/TVT ACC Registry
Analysis	678	Megan Coylewright	Comparison of comorbidity burden among “young” (<65 years) and “older” (65 years-80) patients treated with transcatheter aortic valve replacement (TAVR): A Real World US Data Analysis
Analysis	703	Santiago Garcia	Frequency and Safety of Bioprosthetic Valve Fracture in Patients Undergoing Valve in Valve for Failed Surgical Valves using the SAPIEN 3/Ultra Valves
On Hold	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.
On Hold	484	John Saxon	Clinical Outcomes After Repeat MitraClip
On Hold	511	Herrmann	Prosthesis-Patient Mismatch After TAVR (TVT Registry Research Proposal)

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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	508	McCabe	Clinical Outcomes of Subclavian-Axillary Approach with Percutaneous Technique Compared to Cutdown for Transcatheter Aortic Valve Replacement with SAPIEN 3