

April 2026



**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## UNPUBLISHED, IN PROGRESS PROJECTS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**In Process, Unpublished NCDR Manuscripts**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.

**AFIB REGISTRY™**

<b>Manuscript Status</b>	<b>RPA ID #</b>	<b>Lead Author</b>	<b>Title</b>
Submitted	79	James Freeman	Utilization and In-hospital Outcomes for Patients Undergoing Atrial Fibrillation Ablation using Pulsed Field, Cryoballoon or Radiofrequency Energy
In Preparation	67	Douglas Darden	Outcomes Associated with First-Line Catheter Ablation for Atrial Fibrillation: Insights from the NCDR Afib Ablation Registry
In Preparation	92	Samuel Reinhardt	Pre-Procedural Cardiac CT and MRI Imaging for Atrial Fibrillation Ablation: Use Patterns and Associated In-Hospital Outcomes
External	78	Gregory Marcus	Linking the NCDR Atrial Fibrillation Ablation Registry to Patient Follow-up Data Using the Eureka Digital Research Platform
External	97	Gregory Marcus	Patient Reported Symptoms after Atrial Fibrillation Ablation

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**CATHPCI REGISTRY®**

Manuscript Status	RPA ID #	Author	Title
Submitted	462	Sanket Dhruva	Changes in Practice Patterns for Non-Infarct Artery Revascularization in Patients with ST-Elevation Myocardial Infarction and Multivessel Coronary Artery Disease: Insights from the National Cardiovascular Data Registry
Submitted	632	Nadia Shaikh	Practice patterns and outcomes of women interventional cardiologists in the treatment of STEMI from the National Cardiovascular Data Registry
Submitted	708	Javier Valle	Practice patterns and outcomes of women interventional cardiologists in the treatment of STEMI from the National Cardiovascular Data Registry
Submitted	742	Yulanka Castro Dominguez	Contemporary Risk Prediction Model for 30-day Mortality After Percutaneous Coronary Interventions: An NCDR CathPCI Registry Model
Submitted	780	Chitra Mosarla	Intra-procedural Cardiac Arrest in Patients Undergoing Percutaneous Coronary Interventions in the United States: An Analysis of the NCDR CathPCI Registry
Submitted	785	Riyad Kherallah	ACUTE TOTAL CORONARY OCCLUSION IN NSTEMI: ANALYSIS OF THE CATHPCI NATIONAL CARDIOVASCULAR DATA REGISTRY
Submitted	800	Eli Reynolds	Temporal Trends and Predictors of Access Site Crossover during Percutaneous Coronary Intervention in Contemporary Practice
Submitted	804	Toshiki Kuno	Percutaneous Coronary Intervention in Hemodialysis Patients: Insights from a Nationwide Registry Analysis
Submitted	820	Ayman Fath	Trends, predictors, and institutional variation in the use of high-potency P2Y12 inhibitors among patients with chronic coronary syndrome undergoing percutaneous coronary intervention: An analysis from the CathPCI Registry
Submitted	835	Husam M. Salah	Variations in the Treatment and Outcomes of Patients with In-Stent Restenosis
Submitted	837	Robert Yeh, Christina Lalani	Validating the Long-Term Outcomes of Drug Coated Balloon Use for In-Stent Restenosis
Submitted	843	Robert Yeh	Estimating the Effects of the Novel DynamX Bioadaptor (implant) in U.S. Patients Undergoing Percutaneous Coronary Intervention

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In Preparation	754	Ajar Kochar	Percutaneous Management of Severely Calcified Culprit Lesions in STEMI
In Preparation	786	Mauro Gitto Jennifer Rymer	UTILIZATION OF CANGRELOR IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION ACROSS DEMOGRAPHIC GROUPS: AN ANALYSIS FROM THE NCDR CATHPCI REGISTRY
In Preparation	789	Jennifer Rymer Sunil Rao	Characteristics of Early Use of Shockwave Intravascular Lithotripsy (IVL)
In Preparation	798	Sunil Rao	Prevalence, temporal trends, and predictors of same day discharge after PCI for NSTEMI-ACS in clinical practice: A report from the NCDR-CathPCI Registry
In Preparation	870	Anna O'Kelly	Defining clinically significant periprocedural bleeding in patients undergoing percutaneous coronary intervention: a predictive model from the NCDR CathPCI registry
Analysis	698	Zaid Almarzooq	Door-to-Balloon Time and In-Hospital Mortality in Patients Presenting with STEMI: an Instrumental Variable Analysis
Analysis	741	Michelle Bierig	Impact of Credentialing, Certification and Licensure of Cath Lab Staff on Patient Outcomes
Analysis	809	Renee Y Hsia	An Evaluation of the Growth of PCI in Outpatient and Inpatient Settings in Disadvantaged and Non-Disadvantaged Communities
Analysis	816	Sachit Singal	Temporal Trends and Practice Patterns of Percutaneous Revascularization in Ischemic Left Ventricular Systolic Dysfunction
Analysis	839	Jennifer A Tremmel	Contemporary Yield of Coronary Angiography for Stable Angina: Implications for ANOCA Prevalence
Analysis	845	Ayman Fath	Contemporary trends and institutional variations in multivessel versus culprit-only percutaneous coronary intervention among patients with ST-elevation myocardial infarction and multivessel disease with and without cardiogenic shock: Insights from the CathPCI Registry
Analysis	862	Matthew Cavender	Association between public reporting and in-hospital outcomes in the NCDR CathPCI Registry
Analysis	876	Yulanka Castro Dominguez	Quality-of-Care Composite Measure for Patients Undergoing Percutaneous Coronary Interventions
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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
External- On Hold	790	Amit Amin	Outcomes and Costs Associated with Contemporary High-Quality PCI in the United States: Insights from the NCDR CathPCI Registry
Contracting	792	Fred Resnic	Validation of Novel Learning Curve Detection Tools on the clinical outcomes associated with the use of the Mynx vascular closure device within the NCDR CathPCI Registry
Contracting	836	Vinay Kini	Impact of Bundled Payment Models on Selection and Outcomes of Patients Undergoing Elective Percutaneous Coronary Intervention
Contracting	838	Christina Lalani, MD	Applicability of the AGENT-IDE Trial Results to Real World Treatment of Patients with In-Stent Restenosis
Contracting	866	Dr. Jeremiah Brown	IMPROVE AKI: A Cluster-Randomized Trial of Team-Based Coaching Interventions to IMPROVE Acute Kidney Injury
Contracting	874	Karthik Murugiah	Door-to-Balloon Time for STEMI Patients in U.S. Hospitals: An NCDR Analysis (JACC Report Card)
Contracting	875	Chetan Huded	Appropriateness of Invasive Coronary Angiography for the Detection of Chronic Coronary Disease in the United States
External	883	Robert Yeh	Augmenting the AGENT IDE Trial Analysis with External Data and Standard Foundation Models: An Empirical Assessment
External	917	Yang Song	Estimating Outcomes of Mechanical Circulatory Support Use in Cardiogenic Shock: A Transportability Study of the DanGer Shock Trial

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## 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	422	Riyad Kherallah	Trends in noninvasive anatomic testing for the evaluation of patients with low and intermediate risk chest pain: Insights from the Chest Pain-MI registry
Submitted	438	Yasser Sammour	Site-level Variability in the Processes of Care for Management of Non-ST-Elevation Myocardial Infarction: Analysis from the NCDR Chest Pain-MI Registry
In Preparation	389	Michael Kontos	Impact of the COVID-19 pandemic on care and outcomes of patients with STEMI and NSTEMI in the United States
In Preparation	428	Mohammed Tharwat	Low-Density Lipoprotein Cholesterol (LDL-C) and Lipid-Lowering Therapy in Patients Hospitalized for Acute Myocardial Infarction: A Report from the NCDR Chest Pain-MI Registry
In Preparation	433	Darcy Banco	Variance in hospital level care quality among adults hospitalized with myocardial infarction by age and sex: an NCDR analysis
In Preparation	450	Majd Al Deen Alhuarrat	Sex and Racial Disparities in the Outcomes of NSTEMI Revascularization of Octa- and Nonagenarians: NCDR Registry Retrospective Study

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Analysis	456	Mohammed Essa	Characteristics and Outcomes of Patients Without Standard Modifiable Risk Factors Undergoing Percutaneous Coronary Intervention for Acute Myocardial Infarction: A Report from the NCDR Chest Pain-MI Registry
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
External	463	Benjamin M Easow	Sex-Based Differences in Timeliness of Care, Management, and In-Hospital Outcomes Among Patients With Acute Myocardial Infarction: Insights From the NCDR Chest Pain-MI Registry

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## EP DEVICE IMPLANT REGISTRY™ (FORMERLY ICD)

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	275	Scott Weinreb	Characteristics and Outcomes of Pediatric Patients Undergoing Subcutaneous ICD Implantation - An Analysis of the NCDR EP Device Implant Registry
Submitted	294	Aashish Katapadi	Characteristics and In-Hospital Outcomes of Patients undergoing Non-Stylet vs Stylet Lead Pacing for use in His bundle pacing (HBP)/ Left bundle pacing (LBP).
Submitted	306	Samuel Reinhardt	Predicting Major Adverse Events in Patients Undergoing Alternative Pacemaker Insertion
In Preparation	286	Amneet Sandhu	Trends in Use and Outcomes of Same-Day Discharge After ICD and CRT Implantation
In Preparation	307	Omar Aldaas	Review of the National Implantable Cardioverter Defibrillator Registry Quality Composite Measure for Use in the Public Reporting Initiative
In Preparation	300	Andrew Lin	Outcomes of Implantable Cardioverter-Defibrillator Procedures in Patients with Ventricular Assist Device: Insights from the NCDR ICD Registry
In Preparation	291	Faisal Merchant	Outcomes Associated with Class 1 ICD Recalls
External	296	John Walmsley	Utilizing Cardiac Devices for Access to Health Records in an Emergency

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**IMPACT REGISTRY®**

<b>Manuscript Status</b>	<b>RPA ID #</b>	<b>Lead Author</b>	<b>Title</b>
Submitted	27	A. Stefanescu	The IMPACT of Reducing Radiation Risk: An NCDR QI Project
Submitted	29	Natalie Jayaram	Association Between Trainee Involvement During Pediatric and Congenital Cardiac Catheterization and Procedural Outcomes
Submitted	80	Katia Bravo Jaimes	Racial disparities in clinical presentation and outcomes of transcatheter coarctation procedures in adults with coarctation of the aorta.
Submitted	88	Chandra Srinivasan	Outcomes of Catheter Ablation for Atrial Tachyarrhythmias in Congenital Heart Disease
In Preparation	100	Geetha Haligheri	Practice variation in catheter-based interventions for recurrent coarctation of the aorta in pediatric patients with single ventricle heart disease
In Preparation	104	Christopher M. Janson	Impact of Patient Obesity on Outcomes of Pediatric Supraventricular Tachycardia Ablation
In Preparation	105	Maully J. Shah	Effect of Ablation Energy Source on Outcomes of Pediatric Septal Accessory Pathway Ablation: Radiofrequency vs. Cryo
In Preparation	108	Sunita Ferns	Utilization and Outcomes of Irrigated Radio Frequency Catheters for Accessory Pathway Ablation in the Pediatric Population

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**LAAO REGISTRY™**

<b>Manuscript Status</b>	<b>RPA ID #</b>	<b>Lead Author</b>	<b>Title</b>
In Preparation	182	Omar Cantu Martinez	Predicting Device-Related Thrombus in Patients with Left Atrial Appendage Occlusion
In Preparation	170	Darae Ko	National trends in the use of left atrial appendage occlusion in older adults with atrial fibrillation
External	176	Ahmed Elkaryoni	Simplified Anti-platelet Approach After LAAO. A Nationwide Analysis
External	177	Samir Kapadia	Outcomes with WATCHMAN FLX Pro in Everyday Clinical Practice: Results from SURPASS Pro
External	194	Matthew Price	Procedural Safety of Transcatheter Left Atrial Appendage Occlusion Performed Under Conscious Sedation in Contemporary Clinical Practice

## NCDR-WIDE PUBLICATIONS

Manuscript Status	RPA ID #	Lead Author	Title
In Preparation	10	Andrew Ryan	The effects of cardiovascular bundled payment models on outcomes in the elderly
In Preparation	12	Matthew Cavender	Public Reporting in the NCDR: History, Current Landscape and Challenges, and Future Directions
Analysis	11	James Freeman	Rates and in-hospital and medium-term major adverse events of concomitant AFIB ablation and LAAO compared to sequential AFIB ablation and LAAO
Analysis	16	James Freeman	Procedural Volume and outcomes of concomitant AFIB ablation and LAAO
Analysis	17	James Freeman	Sex-based differences in outcomes after concomitant AFIB ablation and LAAO
Contracting	13	Harlan Krumholz	Leveraging longitudinal care sequences to enhance short- and long-term cardiovascular risk prediction

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**PINNACLE REGISTRY®**

<b>Manuscript Status</b>	<b>RPA ID #</b>	<b>Lead Author</b>	<b>Title</b>
Submitted	225	Leila Haghghat	Implications of REDUCE-IT for the management of hypertriglyceridemia—an analysis from the NCDR PINNACLE registry

**STS/ACC TVT REGISTRY™**

Manuscript Status	ID #	Lead Author	Title
Submitted	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.
Submitted	517	Brennan	Outcomes of Transcatheter Aortic Valve Replacement for Primary Aortic Insufficiency
Submitted	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
Submitted	577	John Suffredini	Racial and Ethnic Differences in the Utilization and Outcomes of Transcatheter Mitral Valve Repair
Submitted	688	Nickpreet Singh	Temporal trends, risk factors, and outcomes of patients with new left bundle branch block following transcatheter aortic valve replacement: Insights from the STS/ACC TVT Registry
Submitted	692	Andrew Vekstein	Outcomes of Sequential Transcatheter Aortic Valve Replacement and Edge-to-Edge Mitral Valve Repair
Submitted	725	Jingjing HE	Sex Specific TAVR Outcome in Bicuspid versus Tricuspid Aortic Stenosis: A Report from STS/TVT Registry
Submitted	739	G. Michael Deeb	The relationship between site Joint Commission Stroke Certification Designation level and the incidence of stroke reporting in the ACC/STS National TVT Registry
Submitted	754	Sreek Vemulapalli	Creation and Internal Validation of a Risk Model to Predict Heart Failure Hospitalization and Death after TAVR
Submitted	783	Hiroki Ueyama	Contemporary Trends and Outcomes of Antithrombotic Strategies in Valve-in-Valve Transcatheter Aortic Valve Replacement
Submitted	791	Dennis Narcisse	Case volumes and Outcomes of Early Career Interventional Cardiologist performing TAVR in the United States

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Submitted	805	Neel Butala	Applicability of TAVR Trials to Real-World Clinical Practice
Submitted	811	Mansi Maini	Use of Alternative Access for TAVR in Low and Intermediate Risk Patients with Class III/IV Obesity
Submitted	814	Sreekanth Vemulapalli	Clopdigorel vs. Aspirin in Patients Undergoing Transcatheter Aortic Valve Replacement
Submitted	930	Husam M. Salah	Validity of Medicare Administrative Claims for Risk Adjustment and Hospital Performance After Transcatheter Aortic Valve Replacement
In Preparation	466	Michael Young	The Impact of Frailty on Outcomes in Patients Undergoing Transcatheter Mitral Valve Repair
In Preparation	484	John Saxon	Clinical Outcomes After Repeat MitraClip
In Preparation	553	Ahmed Kolkailah	The contribution of site characteristics and patient selection to variation in site TAVR outcomes
In Preparation	816	Nathan Matzko	The Role of Postprocedural Antithrombotic Therapy in Patients Undergoing Valve-in-valve Transcatheter Aortic Valve Replacement (ViV-TAVR): Insights from the NCDR STS/ACC TVT Registry
In Preparation	841	Tom Hu	Association of antithrombotic therapy with outcomes after transcatheter mitral valve edge-to-edge repair
In Preparation	854	Aneel Maini	Association of Socioeconomic Status, Site Metrics, and Outcomes Following Transcatheter Aortic Valve Replacement: Insights from the TVT Registry
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	741	Dhaval Kolte	Identifying Modifiable Practices Related to Outcome Variation and Enhancement in TAVR (IMPROVE TAVR)
Analysis	792	Jayakumar Sreenivasan	Staging classification of primary mitral regurgitation based on the extent of cardiac damage among patients undergoing transcatheter edge to edge repair - Insights from the STS/ACC TVT Registry
Analysis	821	Bhaskar Bhardwaj	Prevalence and impact of coronary artery disease (CAD) among patients undergoing transcatheter mitral edge to edge repair (M-TEER)

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Analysis	866	Marco Frazzetto	Mitral transcatheter edge-to-edge repair in patients with prior mitral valve intervention
Analysis	867	Marco Frazzetto	Transcatheter Edge-to-Edge Repair in Patients With Anatomically Complex Degenerative Mitral Regurgitation
Analysis	889	Dharam Kumbhani	Long-term association between hospital and operator-level procedural volumes and outcomes for TAVR
Analysis	901	Jaffar Khan	BASILICA trends and outcomes: insights from the STS/TVT registry
Analysis	902	Jaffar Khan	LAMPOON Trends and Outcomes: insights from the STS/TCT Registry
Analysis	912	Sean O'Brien	Linking the TVT Registry to Medicare Advantage and Fee-for-Service Claims: Feasibility, Accuracy, and Implications for Real-World Surveillance Infrastructure
Analysis	950	Husam M. Salah	TBD