

# In Progress Projects Based on NCDR Registries

# **UNPUBLISHED, IN PROGRESS PROJECTS**

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STS/ACC TVT Registry	

## **In Process, Unpublished NCDR Manuscripts**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**

Manuscript Status	RPA ID#	Lead Author	Title
In Preparation	21	Omair Yousuf	Catheter Ablation for Atrial Fibrillation in Patients with Heart Failure with Reduced Left Ventricular Ejection Fraction: Insights from the NCDR AFib Ablation Registry
In Preparation	49	Amneet Sandhu	National Trends in Use and Short-Term Outcomes of Same-Day Discharge Following Catheter Ablation for Atrial Fibrillation
In Preparation	50	Vincenzo Polsinelli	Use and Clinical Outcomes of Urgent versus Elective Catheter Ablation of Atrial Fibrillation
External	78	Gregory Marcus	Linking the NCDR Atrial Fibrillation Ablation Registry to Patient Follow-up Data Using the Eureka Digital Research Platform

## **CATH PCI REGISTRY**

Manuscript			
Status	RPA ID#	Author	Title
			ICH.2 Dynamic Changes to Risk of Post-PCI Major Bleeds Throughout a Cardiac
Submitted	569	Bobak Mortazavi	Catheterization Laboratory Visit Using the CathPCI Registry
			Practice patterns and outcomes of women interventional cardiologists in the
Submitted	632	Nadia Shaikh	treatment of STEMI from the National Cardiovascular Data Registry
			Procedural Outcomes of Percutaneous Coronary Interventions Post Transcatheter
			Aortic Valve Replacement: Insights from the National Cardiovascular Data Registry
Submitted	639	Ravi Sharma	(NCDR) registry
			Radial Versus Femoral Arterial Access for Percutaneous Coronary Intervention in the
Submitted	709	Reza Fazel	United States: An Analysis from the NCDR CathPCI Registry
			Changes in Practice Patterns for Non-Infarct Artery Revascularization in Patients with
	460	6 1 1 5	ST-Elevation Myocardial Infarction and Multivessel Coronary Artery Disease: Insights
In Preparation	462	Sanket Dhruva	from the National Cardiovascular Data Registry
			Symptom Burden Among Adults Undergoing Elective Percutaneous Coronary
In Preparation	671	Reed Mszar	Intervention and Variations in Hospital Submission of Patient-Reported Outcomes
			Predictors of and Outcomes associated with Ultra-low Contrast Volume and Zero
	500		Contrast Use During Percutaneous Coronary Interventions in Patients With Existing
In Preparation	683	Devika Aggarwal	Renal Impairment
			Frailty and Risk of Mortality Among Patients Undergoing High-Risk or Complex
In Preparation	684	Ben Peterson	Percutaneous Coronary Intervention: Insights from the CathPCI Registry.
			A quasi-experimental study to assess the impact of door-to-balloon time delays on
In Preparation	698	Zaid Almarzooq	mortality
			Strategic: Contemporary Trends in Percutaneous Coronary Intervention at Facilities
			Without On-Site Cardiac Surgical Capabilities: Insights from the National
In Preparation	708	Javier Valle	Cardiovascular Data Registry
			The Association between Pre-Procedural AKI Risk and Same-Day Discharge: Are we
In Preparation	713	Anezi Uzendu	Safely Sending the Right Patients Home?

In Preparation	740	Dean Kereiakes	The Shockwave Intravascular Lithotripsy Post-approval Study: Procedural safety from the NCDR/CathPCI Registry
			Changes in Contrast Volume among Patients at High Risk for Acute Kidney Injury after
In Preparation	763	Nobuhiro Ikemura	PCI
			Temporal Trends and Patient Characteristics in Intra-Procedural Cardiac Arrest in
			Patients Undergoing Percutaneous Coronary Intervention: A Report from the NCDR-
In Preparation	780	Ramya Mosarla	CathPCI Registry
			Occluded Coronary Arteries in Patients with Non-ST Segment Elevation Myocardial
In Preparation	785	Riyad Kherallah	Infarction
			A Retrospective Analysis of the National Cardiovascular Data Registry on Cangrelor Use
In Preparation	786	Jennifer Rymer	Among Women and Minorities in the US (The COMMIT-US Study)
			Characteristics of Early Use of Shockwave Intravascular Lithotripsy (IVL)
In Preparation	789	Sunil Rao	
			Real-world Outcomes of Coronary Intravascular Lithotripsy in In-stent Restenosis from
In Preparation	791	Dean J. Kereiakes	the ACC NCDR® CathPCI Registry®
,			An Evaluation of the Growth of PCI in Outpatient and Inpatient Settings in
In Preparation	809	Renee Y Hsia	Disadvantaged and Non-Disadvantaged Communities
			Actual Practice Evaluation of Predictors for Major Adverse Cardiovascular Events and
			Bleeding Outcomes following Percutaneous Coronary Intervention among Patients in
Analysis	736	Benjamin Horne	the Clipper Dataset
			Impact of Credentialing, Certification and Licensure of Cath Lab Staff on Patient
Analysis	741	Andrea Price	Outcomes
			Racial and sex differences in high-potency P2Y12 inhibitors prescription among
			patients with acute myocardial infarction undergoing percutaneous coronary
Analysis	750	Islam Y. Elgendy	intervention: An analysis from the CathPCI Registry
			Validation of Novel Learning Curve Detection Tools within the NCDR StarClose Cath PCI
Analysis	751	Frederic Resnic	Registry
			Percutaneous Management of Severely Calcified Culprit Lesions in STEMIs
Analysis	754	Ajar Kochar	
			Contemporary trends, characteristics and outcomes of patients undergoing
			percutaneous coronary intervention for stent thrombosis: An analysis from the
Analysis	765	Ayman Elbadawi	CathPCI Registry

A 1	700	C villav	Prevalence, temporal trends, and predictors of same day discharge after PCI for NSTE-ACS in clinical practice: A report from the NCDR-CathPCI Registry
Analysis	798	Sunil Rao	
			Trends, predictors, and institutional variation in the use of high-potency P2Y12 inhibitors among patients with chronic coronary syndrome undergoing percutaneous
Analysis	820	Ayman Fath	coronary intervention: An analysis from the CathPCI Registry
7 11 11 7 515	020	7 tyman raen	Temporal Trends and Predictors of Access Site Crossover during Percutaneous
Analysis	800	Eli Reynolds	Coronary Intervention in Contemporary Practice
7 11 11 7 515		Zii Neyiioids	Prevalence, temporal trends, and associated outcomes of intravascular ultrasound use
On Hold	611	Zachary Wegermann	in patients undergoing PCI
01111010	011	Zachary Wegermann	Nationwide trends and predictors of anti-anginal use and de-escalation in patient's
On Hold	667	Hannah Chaudry	undergoing PCI for stable ischemic heart disease: Insights from the CathPCI Registry
			Outcomes and Costs Associated with Contemporary High-Quality PCI in the United
External	790	Amit Amin	States: Insights from the NCDR CathPCI Registry
			Validation of Novel Learning Curve Detection Tools on the clinical outcomes associated
External	792	Fred Resnic	with the use of the Mynx vascular closure device within the NCDR CathPCI Registry
			In-hospital Outcomes of Real-world IVL-Procedures in Coronary Artery Disease Based
External	796	Dean J. Kereiakes	on Patient and Lesion Complexity: Deep Dive into the ACC NCDR® CathPCI Registry®
			Prevalence and clinical outcomes of Hemorrhagic Myocardial Infarction in the United
External	801	Keyur Vora	States
			Racial Disparities in Use of Atherectomy and Intra-Vascular Lithotripsy for
External	803	Umair Syed Ahmad	Percutaneous Coronary Intervention
			Practice Patterns and Trends for Culprit Lesion versus Complete Revascularization in
External	834	Ajar Kochar	NSTEMI
			Impact of Bundled Payment Models on Selection and Outcomes of Patients
External	836	Vinay Kini	Undergoing Elective Percutaneous Coronary Intervention

# CHEST PAIN - MI REGISTRY (FORMERLY ACTION)

Manuscript			
Status	RPA ID#	Lead Author	Title
			Temporal Trends of Higher Potency P2Y12 Inhibitor Use and Bleeding
			Outcomes in Patients with Myocardial Infarction Complicated by Out of
Submitted	334	Ajar Kochar	Hospital Cardiac Arrest
			Public Reporting and Outcomes of Patients with Out-of-Hospital Cardiac
In Preparation	251	Majithia	Arrest
In Duamanation	274	Kamail Famidi	Inpatient Outcomes for Patients with Peripheral Artery Disease
In Preparation	371	Kamil Faridi	Hospitalized for Acute Myocardial Infarction
	205		CPMI Patient Navigator program analysis (ad hoc patient navigator
In Preparation	395	Julie Mobayed	analysis)
			Variation in Risk Avoidant Behavior for Coronary Angiography for Acute
In Preparation	414	Ashwin Nathan	Myocardial Infarction Among United States Hospitals
			Trends in noninvasive anatomic testing for the evaluation of patients with
I. B	422	B' and Mhanallah	low and intermediate risk chest pain: Insights from the Chest Pain-MI
In Preparation	422	Riyad Kherallah	registry
In Droparation	426	Hiraki Hayama	Contemporary Trends and Outcomes of P2Y12 Inhibitors Pretreatment in Non-ST-Elevation Acute Coronary Syndrome
In Preparation	420	Hiroki Ueyama	Variance in hospital level care quality among adults hospitalized with
In Preparation	433	Darcy Banco	myocardial infarction by age and sex: an NCDR analysis
mrreparation	+33	Darcy Barreo	The Impact of Daylight-Saving Time on Acute Myocardial Infarction: Time
			to Shift Policy?
In Preparation	440	Rajesh Swaminathan	
-			Simultaneous STEMI Presentation: Incidence and Outcomes
In Preparation	374	Zachary Wegermann	
			Outcomes in Patients with Inhospital STEMI
In Preparation	409	Michael Kontos	
			Impact of the COVID-19 pandemic on care and outcomes of patients with
Analysis	389	Michael Kontos	STEMI and NSTEMI in the United States

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#	Lead Author	Title

## **EP DEVICE IMPLANT REGISTRY**

Manuscript Status	RPA ID#	Lead Author	Title
			Predictors of RV Pacing and Pacing-Induced Adverse Outcomes
Submitted	161	J Akar	
Submitted	266	Pun	Long-Term Outcomes of Subcutaneous Implantable Cardioverter Defibrillators in Dialysis Patients
In Prep	265	Beixin He	Disproportionate race and gender disparities in implantation of defibrillators during COVID-19 era
In Prep	274	Carmel Ashur	Direct Oral Anticoagulant Management and Outcomes after Cardiovascular Implantable Electronic Device Placement
In Prep	275	Scott Weinreb	Characteristics and Outcomes of Pediatric Patients Undergoing Subcutaneous ICD Implantation – An Analysis of the NCDR EP Device Implant Registry
In Prep	178	Sharma	Outcomes in patients with diabetes receiving a subcutaneous implantable cardioverter defibrillator.
Analysis	286	Amneet Sandhu	Trends in Use and Outcomes of Same-Day Discharge After ICD and CRT Implantation

## **IMPACT REGISTRY**

Manuscript Status	RPA ID#	Lead Author	Title
Status	10.77.12.11	Lead Nation	Association Between Trainee Involvement During Pediatric and
Submitted	29	Natalie Jayaram	Congenital Cardiac Catheterization and Procedural Outcomes
		,	Cardiac Catheterization and Interventions in Patients on ECMO: Analysis
Submitted	90	Shriprasad Deshpande	of the IMPACT Registry Data
In Preparation	27	Aimee Armstrong	The IMPACT of Reducing Radiation Risk: An NCDR QI Project
			Evaluation of the Effect of Center Procedural Volume on Outcomes of
In Preparation	73	Dustin Nash	Pediatric Catheter Ablation
			Racial disparities in clinical presentation and outcomes of transcatheter
In Preparation	80	Katia Bravo Jaimes	coarctation procedures in adults with coarctation of the aorta.
In Preparation	83	Natalie Jayaram	Examining the performance of the IMPACT risk model
			Evaluating Racial Disparities in Access to Common Transcatheter
In Preparation	84	Michael O'Byrne	Interventions
In Preparation	88	Chandra Srinivasan	Outcomes of Catheter Ablation for Atrial Tachyarrhythmias in Congenital Heart Disease
-			Procedural Related Major Adverse Events of Cardiac Catheterization In
In Preparation	96	Khalifah Aldawsari	Pediatric Patients With Cardiomyopathy: Insights from IMPACT Registry
			Practice variation in catheter-based interventions for recurrent
			coarctation of the aorta in pediatric patients with single ventricle heart
Analysis	100	Geetha Haligheri	disease
			Impact of Patient Obesity on Outcomes of Pediatric Supraventricular
Analysis	104	Christopher M. Janson	Tachycardia Ablation
			Effect of Ablation Energy Source on Outcomes of Pediatric Septal
Analysis	105	Maully J. Shah	Accessory Pathway Ablation: Radiofrequency vs. Cryo

## **LAAO** REGISTRY

Manuscript Status	RPA ID #	Lead Author	Title
In Press	120	Oluseun Alli	Racial Disparities in the Utilization and Outcomes with WATCHMAN FLX: A SURPASS analysis of the NCDR LAAO Registry
In Press	126	Kamil Faridi	A Simplified Risk Score to Predict Major Adverse Events During Hospitalization for Transcatheter Left Atrial Appendage Occlusion: From the NCDR LAAO Registry
In Press	167	Kamil Faridi	Use of Machine Learning Models to Predict In-Hospital Adverse Outcomes for Transcatheter Left Atrial Appendage Occlusion
Submitted	168	Bilal Munir	Association of Chronic Kidney Disease and End Stage Renal Disease with In-Hospital and Long-Term Outcomes Among Atrial Fibrillation Patients Undergoing Left Atrial Appendage Occlusion: Insights From the NCDR LAAO Registry®
Submitted	117	Jonathan Piccini	Combining left atrial appendage closure with WATCHMAN FLX and catheter ablation for atrial fibrillation: Results from the SURPASS analysis of the NCDR LAAO Registry
Submitted	87	Moussa Mansour	LAAO in Patients with ICH
In Preparation	94	Douglas Gibson	Clinical characteristics and outcomes in patients with same day discharge after left atrial appendage occlusion with WATCHMAN FLX
In Preparation	103	Devi G. Nair	Clinical characteristics and outcomes in men and women receiving left atrial appendage occlusion with WATCHMAN FLX
In Preparation	119	Lucy Pereira	Association of Physician Certification and Outcomes Among Patients Undergoing Left Atrial Appendage Occlusion
In Preparation	128	Angela Higgns	Long-term Outcomes Following Left Atrial Appendage Occlusion with a Watchman Device: Outcomes from the National Cardiovascular Data Registry
In Preparation	133	Matthew Price	Comparative Safety and Effectiveness of Left Atrial Appendage Occlusion with First-Generation Watchman and Next Generation Watchman FLX at One Year Follow-Up: An Analysis from the NCDR LAAO Registry
Analysis	121	Kamil Faridi	Comparative Effectiveness of Transcatheter Left Atrial Appendage Occlusion in Real-World Practice: Findings from the NCDR LAAO Registry
Analysis	129	Jonathan Hsu	Left Atrial Appendage Occlusion in Patients with Gastrointestinal Bleed: Insights from the NCDR LAAO Registry

Analysis	147	Angela Higgns	In-Hospital and Long-Term Outcomes of Patients with Reduced Left Ventricular Function Undergoing Left Atrial Appendage Occlusion
			Shared decision making and use of patient decision aids for percutaneous LAAO
Analysis	174	Joshua Rager	
On Hold	114	Matthew Price	Peri-Device Leak after Left Atrial Appendage Closure with WATCHMAN FLX: Incidence and predictors
On Hold	132	Enrico Ferro	Impact of long-term antiplatelet discontinuation after left atrial appendage occlusion with WATCHMAN FLX
External	170	Darae Ko	National trends in the use of left atrial appendage occlusion in older adults with atrial fibrillation
External	171	Kamil Faridi	Comparing Administrative Claims Data to Site-Reported Events in the NCDR Left Atrial Appendage Occlusion Registry

## PINNACLE REGISTRY

Manuscript Status	RPA ID#	Lead Author	Title
			Prescription patterns and provider-level variability in the use of direct-
			acting oral anti-coagulants in non-valvular atrial fibrillation patients at
Submitted	216	Firas Al Badarin	extremes of body weight
			Practice-Level Compliance with Cardiac Performance Measures and
			Outcomes in US Ambulatory Care: Findings from the NCDR PINNACLE
In Preparation	215	Abdelghani El Rafei	Program
			Blood Pressure and Treatment Patterns Among Older Adults After Recent
In Preparation	220	Eric Brandt	Major Trial Results and Guideline Recommendations
			Implications of REDUCE-IT for the management of hypertriglyceridemia—
In Preparation	225	Leila Haghighat	an analysis from the NCDR PINNACLE registry
			Eligibility and Use of Sodium Glucose Cotransporter-2 Inhibitor (SGLT2i)
			Therapy in Diabetics and Non-Diabetics with Heart Failure with reduced
In Preparation	238	Evan Manning	ejection fraction (HFrEF): Findings from the NCDR PINNACLE Registry

# STS/ACC TVT REGISTRY

Manuscript			
Status	RPA ID#	Lead Author	Title
			Sex and race-based difference with TMVR mortality and complications
Submitted	654	Kyeeun Park	
			Development of an unsuccessful 30-day outcome following MitraClip
			transcatheter mitral valve repair to support patient counseling and decision
Submitted	667	Nimesh Desai	making
			Hospital-Level Transcatheter Aortic Valve Replacement Performance With
Submitted	684	Ahmed Kolkailah	Simulated Risk Avoidance Strategies
			Outcomes of Commercial Transcatheter Aortic Valve Replacement in Low-Risk
Submitted	696	Lillian Kang	Patients: An Analysis of the STS/ACC TVT Registry
			Out-of-Hospital 30-Day Mortality After Transcatheter Edge-to-Edge Repair of
Submitted	738	Bansal	Mitral Valve: Insights from STS/ACC TVT Registry
			Temporal improvement in procedural success and clinical outcome of TEER by
Submitted	763	Zach Rozenbaum	etiology of mitral regurgitation
			Resource Utilization and Costs Associated with Surgical Mitral Valve Repair
In Preparation	442	Vekstein	After the Introduction of Transcatheter Repair-Aim2
Поременения			The Impact of Frailty on Outcomes in Patients Undergoing Transcatheter
In Preparation	466	Michael Young	Mitral Valve Repair
reparation		Whender roung	Prosthesis-Patient Mismatch After TAVR (TVT Registry Research Proposal)
In Preparation	511	Herrmann	Trostnesis rational initial and the first region y nescaron resposar,
mrreparation	311	riciiiiaiiii	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
In Preparation	547	Sammour	Therapies Registry
т герагасіон	5-7	Julilloui	The contribution of site characteristics and patient selection to variation in site
In Preparation	553	Ahmed Kolkailah	TAVR outcomes
iii r i eparation	223	Allilled Kolkallall	Racial and Ethnic Differences in the Utilization and Outcomes of Transcatheter
In Droporation	F 7 7	John Cuffrodia:	Mitral Valve Repair
In Preparation	577	John Suffredini	Ivilial valve Kepali

			Impact of COVID-19 on Patients Needing Transcatheter Valve Therapy in USA
In Preparation	595	Manasi Tannu	
			Development and validation of models for predicting risk of acute kidney
			injury in patients undergoing transcatheter aortic valve replacement: insights
In Preparation	608	Julien	from the STS-ACC National Cardiovascular Data Registry TVT Registry
			The effect of transcatheter mitral valve repair on chronic kidney disease
In Preparation	630	Marc Allard-Ratick	
			Early Outcomes of Commercial Transcatheter Tricuspid Valve Procedures in
In Preparation	691	George Yankey	the Transcatheter Valve Therapies Registry
			Outcomes of Sequential Transcatheter Aortic Valve Replacement and Edge-to-
In Preparation	692	Andrew Vekstein	Edge Mitral Valve Repair
			The relationship between site Joint Commission Stroke Certification
			Designation level and the incidence of stroke reporting in the ACC/STS
In Preparation	739	G. Michael Deeb	National TVT Registry
			Identifying Modifiable Practices Related to Outcome Variation and
In Preparation	741	Dhaval Kolte	Enhancement in TAVR (IMPROVE TAVR)
			Creation and Internal Validation of a Risk Model to Predict Heart Failure
In Preparation	754	Sreek Vemulapalli	Hospitalization and Death after TAVR
			Institutional Volume and Failure to Rescue in Transcatheter Aortic Valve
In Preparation	759	Amit Vora	Replacement – Insights from the STS/ACC TVT Registry
			Clinical Outcomes After Repeat MitraClip
Analysis	484	John Saxon	
			Outcomes of Transcatheter Aortic Valve Replacement for Primary Aortic
Analysis	517	Brennan	Insufficiency
			Outcomes of Transcatheter Mitral Valve Repair in Patients with Recurrent
			Mitral Regurgitation After Surgical Mitral Valve Repair: A Report from the
Analysis	673	Joe Aoun	STS/TVT ACC Registry
			Comparison of comorbidity burden among "young" (<65 years) and "older"
			(65 years-80) patients treated with transcatheter aortic valve replacement
Analysis	678	Megan Coylewright	(TAVR): A Real World US Data Analysis
			Temporal trends, risk factors, and outcomes of patients with new left bundle
Amalustis	600	Ni alama a t Cia ala	branch block following transcatheter aortic valve replacement: Insights from
Analysis	688	Nickpreet Singh	the STS/ACC TVT Registry

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
Analysis	722	Kashish Goel	Transseptal Mitral Valve in Valve – A comprehensive analysis of temporal trends, adoption and outcomes from 2014 to 2022
Analysis	725	Jingjing HE	Sex Specific TAVR Outcome in Bicuspid versus Tricuspid Aortic Stenosis: A Report from STS/TVT Registry
Analysis	773	Sundos Alabbadi	The Trend in Transcatheter Aortic Valve Replacement (TAVR) and Outcomes in Patients Younger than 65 Years Old
Analysis	781	Saket Girotra	Correlation between hospital and operator-level procedural volumes and outcomes for TAVR and MTEER
Analysis	791	Dennis Narcisse	Case volumes and Outcomes of Early Career Interventional Cardiologist performing TAVR in the United States
Analysis	805	Neel Butala	Applicability of TAVR Trials to Real-World Clinical Practice
Allalysis	803	Neer Butara	Validation of Novel Learning Curve Detection Tools within the NCDR TVT
External	765	Arjun Majithia	Registry