

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UNPUBLISHED, IN PROGRESS PROJECTS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In Process, Unpublished NCDR Manuscripts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

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	49	Amneet Sandhu	National Trends in Use and Short-Term Outcomes of Same-Day Discharge Following Catheter Ablation for Atrial Fibrillation
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	50	Vincenzo Polsinelli	Use and Clinical Outcomes of Urgent versus Elective Catheter Ablation of Atrial Fibrillation
Analysis	55	Alejandro Velasco	Procedural Outcomes of Single versus Double Transeptal Puncture in Catheter Ablation of Atrial Fibrillation: The NCDR Afib Ablation Registry
Analysis	63	Sebastian Beyer	Impact of Hospital Teaching Status on Atrial Fibrillation Ablation Procedural Characteristics and its Associated Complications
External	78	Gregory Marcus	Linking the NCDR Atrial Fibrillation Ablation Registry to Patient Follow-up Data Using the Eureka Digital Research Platform
External	79	James Freeman	Utilization and In-hospital Outcomes for Patients Undergoing Atrial Fibrillation Ablation using Pulsed Field, Cryoballoon or Radiofrequency Energy

CATH PCI REGISTRY

Manuscript Status	RPA ID #	Author	Title
Submitted	569	Bobak Mortazavi	ICH.2 Dynamic Changes to Risk of Post-PCI Major Bleeds Throughout a Cardiac Catheterization Laboratory Visit Using the CathPCI 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	639	Ravi Sharma	Procedural Outcomes of Percutaneous Coronary Interventions Post Transcatheter Aortic Valve Replacement: Insights from the National Cardiovascular Data Registry (NCDR) registry
Submitted	698	Zaid Almarzooq	Door-to-Balloon Time and In-Hospital Mortality in Patients Presenting with STEMI: an Instrumental Variable Analysis
Submitted	709	Reza Fazel	Temporal Trends and Clinical Outcomes with Radial Versus Femoral Arterial Access for Percutaneous Coronary Intervention in the United States
In Preparation	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
In Preparation	684	Ben Peterson	Frailty and Risk of Mortality Among Patients Undergoing High-Risk or Complex Percutaneous Coronary Intervention: Insights from the CathPCI Registry.
In Preparation	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
In Preparation	713	Anezi Uzendu	The Association between Pre-Procedural AKI Risk and Same-Day Discharge: Are we 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
In Preparation	750	Islam Y. Elgendy	Racial and sex differences in high-potency P2Y12 inhibitors prescription among patients with acute myocardial infarction undergoing percutaneous coronary intervention: An analysis from the CathPCI Registry
In Preparation	763	Nobuhiro Ikemura	Changes in Contrast Volume among Patients at High Risk for Acute Kidney Injury after PCI

			Contemporary trends, characteristics and outcomes of patients undergoing
			percutaneous coronary intervention for stent thrombosis: An analysis from the
In Preparation	765	Ayman Elbadawi	CathPCI Registry
			Temporal Trends and Patient Characteristics in Intra-Procedural Cardiac Arrest in
			Patients Undergoing Percutaneous Coronary Intervention: A Report from the
In Preparation	780	Ramya Mosarla	NCDR-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
In Preparation	786	Jennifer Rymer	Use Among Women and Minorities in the US (The COMMIT-US Study)
In Preparation	789	Sunil Rao	Characteristics of Early Use of Shockwave Intravascular Lithotripsy (IVL)
			Real-world Outcomes of Coronary Intravascular Lithotripsy in In-stent Restenosis
In Preparation	791	Dean J. Kereiakes	from the ACC NCDR [®] CathPCI Registry [®]
			In-hospital Outcomes of Real-world IVL-Procedures in Coronary Artery Disease
			Based on Patient and Lesion Complexity: Deep Dive into the ACC NCDR [®] CathPCI
In Preparation	796	Dean J. Kereiakes	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
			Impact of Credentialing, Certification and Licensure of Cath Lab Staff on Patient
Analysis	741	Andrea Price	Outcomes
Analysis	754	Ajar Kochar	Percutaneous Management of Severely Calcified Culprit Lesions in STEMIs
			Prevalence, temporal trends, and predictors of same day discharge after PCI for
Analysis	798	Sunil Rao	NSTE-ACS in clinical practice: A report from the NCDR-CathPCI Registry
•			Temporal Trends and Predictors of Access Site Crossover during Percutaneous
Analysis	800	Eli Reynolds	Coronary Intervention in Contemporary Practice
·			Racial Disparities in Use of Atherectomy and Intra-Vascular Lithotripsy for
Anaylsis	803	Umair Syed Ahmad	Percutaneous Coronary Intervention
,		,	Temporal Trends and Practice Patterns of Percutaneous Revascularization in
Analysis	816	Sachit Singal	Ischemic Left Ventricular Systolic Dysfunction
,	010	Sachire Shingar	

			Trends, predictors, and institutional variation in the use of high-potency P2Y12
Analysis	820	Ayman Fath	inhibitors among patients with chronic coronary syndrome undergoing percutaneous coronary intervention: An analysis from the CathPCI Registry
Analysis	835	Jacob Doll	Variations in the Treatment and Outcomes of Patients with In-Stent Restenosis
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	736	Benjamin Horne	Actual Practice Evaluation of Predictors for Major Adverse Cardiovascular Events and Bleeding Outcomes following Percutaneous Coronary Intervention among Patients in the Clipper Dataset
External	751	Frederic Resnic	Validation of Novel Learning Curve Detection Tools within the NCDR StarClose Cath PCI Registry
External	790	Amit Amin	Outcomes and Costs Associated with Contemporary High-Quality PCI in the United States: Insights from the NCDR CathPCI Registry
External	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
External	834	Ajar Kochar	Practice Patterns and Trends for Culprit Lesion versus Complete Revascularization in NSTEMI
External	836	Vinay Kini	Impact of Bundled Payment Models on Selection and Outcomes of Patients Undergoing Elective Percutaneous Coronary Intervention
External	837	Robert Yeh	Validating the Long-Term Outcomes of Drug Coated Balloon Use for In-Stent Restenosis
External	838	Christina Lalani, MD	Applicability of the AGENT-IDE Trial Results to Real World Treatment of Patients with In-Stent Restenosis
External	839	Jennifer A Tremmel	Prevalence of Angina with Nonobstructive Coronary Arteries (ANOCA)

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	371	Kamil Faridi	Inpatient Outcomes for Patients with Peripheral Artery Disease Hospitalized for Acute Myocardial Infarction
Submitted	414	Ashwin Nathan	Variation in Risk for Percutaneous Coronary Intervention for Acute Myocardial Infarction Among United States Hospitals
In Preparation	409	Michael Kontos/Jenn Rymer	Outcomes in Patients with Inhospital STEMI
In Preparation	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
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	440	Rajesh Swaminathan	The Impact of Daylight-Saving Time on Acute Myocardial Infarction: Time to Shift Policy?
In Preparation	441	Kamil Faridi	Predicting In-Hospital Mortality in Patients with Acute Myocardial Infarction
Analysis	389	Michael Kontos	Impact of the COVID-19 pandemic on care and outcomes of patients with STEMI and NSTEMI in the United States
Analysis	428	Mohammed Essa	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

Analysis	438	Safi Khan	Site-level Variability in the Processes of Care for Management of Non-ST- Elevation Myocardial Infarction: Analysis from the NCDR Chest Pain-MI Registry
Analysis	439	Ahmed Elkaryoni	Coronary Angiography in Patients with Out-of-Hospital Cardiac Arrest and ST- Elevation Myocardial Infarction
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	
			Long-Term Outcomes of Subcutaneous Implantable Cardioverter
Submitted	266	Pun	Defibrillators in Dialysis Patients
			Direct Oral Anticoagulant Management and Outcomes after
Submitted	274	Carmel Ashur	Cardiovascular Implantable Electronic Device Placement
			Disproportionate race and gender disparities in implantation of
In Preparation	265	Beixin He	defibrillators during COVID-19 era
			Characteristics and Outcomes of Pediatric Patients Undergoing
			Subcutaneous ICD Implantation – An Analysis of the NCDR EP Device
In Preparation	275	Scott Weinreb	Implant Registry
			Outcomes in patients with diabetes receiving a subcutaneous implantable
In Preparation	178	Sharma	cardioverter defibrillator.
			Trends in Use and Outcomes of Same-Day Discharge After ICD and CRT
Analysis	286	Amneet Sandhu	Implantation
Analysis	291	Faisal Merchant	Outcomes Associated with Class 1 ICD Recalls
			Characteristics and In-Hospital Outcomes of Patients undergoing Non-
			Stylet vs Stylet Lead Pacing for use in His bundle pacing (HBP)/ Left bundle
Analysis	294	Aashish Katapadi	pacing (LBP).
External	296	John Walmsley	Utilizing Cardiac Devices for Access to Health Records in an Emergency

IMPACT REGISTRY

Manuscript			
Status	RPA ID #	Lead Author	Title
			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
			Outcomes of Catheter Ablation for Atrial Tachyarrhythmias in Congenital
In Preparation	88	Chandra Srinivasan	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
			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
Submitted	168	Bilal Munir	LAAO Registry®
			Combining left atrial appendage closure with WATCHMAN FLX and
			catheter ablation for atrial fibrillation: Results from the SURPASS analysis
Submitted	117	Jonathan Piccini	of the NCDR LAAO Registry
			LAAO in Patients with ICH
Submitted	87	Moussa Mansour	
			Clinical characteristics and outcomes in patients with same day discharge
In Preparation	94	Douglas Gibson	after left atrial appendage occlusion with WATCHMAN FLX
			Clinical characteristics and outcomes in men and women receiving left
In Preparation	103	Devi G. Nair	atrial appendage occlusion with WATCHMAN FLX
			Long-term Outcomes Following Left Atrial Appendage Occlusion with a
			Watchman Device: Outcomes from the National Cardiovascular Data
In Preparation	128	Angela Higgins	Registry
			Comparative Safety and Effectiveness of Left Atrial Appendage Occlusion
			with First-Generation Watchman and Next Generation Watchman FLX at
In Preparation	133	Matthew Price	One Year Follow-Up: An Analysis from the NCDR LAAO Registry
			Comparing Administrative Claims Data to Site-Reported Events in the
In Preparation	171	Kamil Faridi	NCDR Left Atrial Appendage Occlusion Registry
			In-Hospital and Long-Term Outcomes of Patients with Reduced Left
In Preparation	147	Angela Higgins	Ventricular Function Undergoing Left Atrial Appendage Occlusion
			Comparative Effectiveness of Transcatheter Left Atrial Appendage
Analysis	121	Kamil Faridi	Occlusion in Real-World Practice: Findings from the NCDR LAAO Registry
			Left Atrial Appendage Occlusion in Patients with Gastrointestinal Bleed:
Analysis	129	Jonathan Hsu	Insights from the NCDR LAAO Registry
			Shared decision making and use of patient decision aids for percutaneous
Analysis	174	Joshua Rager	LAAO

			Peri-Device Leak after Left Atrial Appendage Closure with WATCHMAN
On Hold	114	Matthew Price	FLX: Incidence and predictors
			Impact of long-term antiplatelet discontinuation after left atrial appendage
On Hold	132	Enrico Ferro	occlusion with WATCHMAN FLX
			National trends in the use of left atrial appendage occlusion in older adults
External	170	Darae Ko	with atrial fibrillation
			Simplified Anti-platelet Approach After LAAO. A Nationwide Analysis
External	176	Ahmed Elkaryoni	
			Outcomes with WATCHMAN FLX Pro in Everyday Clinical Practice: Results
External	177	Samir Kapadia	from SURPASS Pro

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
			The Impact of Frailty on Outcomes in Patients Undergoing Transcatheter
In Preparation	466	Michael Young	Mitral Valve Repair
intreparation	100	interfacer roung	Prosthesis-Patient Mismatch After TAVR (TVT Registry Research Proposal)
In Preparation	511	Herrmann	
intreparation	511	nermann	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
	5-17	Junnou	The contribution of site characteristics and patient selection to variation in site
In Preparation	553	Ahmed Kolkailah	TAVR outcomes
	222		Racial and Ethnic Differences in the Utilization and Outcomes of Transcatheter
In Preparation	577	John Suffredini	Mitral Valve Repair

			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
			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
External	765	Arjun Majithia	Validation of Novel Learning Curve Detection Tools within the NCDR TVT Registry