

March 2025



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UNPUBLISHED, IN PROGRESS PROJECTS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In Process, Unpublished NCDR Manuscripts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

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CATHPCI 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	684	Ben Peterson	Frailty and Risk of Mortality Among Patients Undergoing High-Risk or Complex Percutaneous Coronary Intervention: Insights from the CathPCI Registry.
Submitted	698	Zaid Almarzooq	Door-to-Balloon Time and In-Hospital Mortality in Patients Presenting with STEMI: an Instrumental Variable Analysis
Submitted	708	Javier Valle	Practice patterns and outcomes of women interventional cardiologists in the treatment of STEMI from the National Cardiovascular Data Registry
Submitted	709	Reza Fazel	Temporal Trends and Clinical Outcomes with Radial Versus Femoral Arterial Access for Percutaneous Coronary Intervention in the United States
Submitted	713	Anezi Uzendu	The Association between Pre-Procedural AKI Risk and Same-Day Discharge: Are we Safely Sending the Right Patients Home?
Submitted	754	Ajar Kochar	Percutaneous Management of Severely Calcified Culprit Lesions in STEMI
Submitted	803	Umair Syed Ahmad	Racial Disparities in Use of Atherectomy and Intra-Vascular Lithotripsy for Percutaneous Coronary Intervention

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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	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	765	Ayman Elbadawi	CONTEMPORARY TRENDS, CHARACTERISTICS AND OUTCOMES OF PATIENTS UNDERGOING PERCUTANEOUS CORONARY INTERVENTION FOR STENT THROMBOSIS: AN ANALYSIS FROM THE CATHPCI REGISTRY
In Preparation	780	Ramya Mosarla	Temporal Trends and Patient Characteristics in Intra-Procedural Cardiac Arrest in Patients Undergoing Percutaneous Coronary Intervention: A Report from the NCDR-CathPCI Registry
In Preparation	785	Riyad Kherallah	ACUTE TOTAL CORONARY OCCLUSION IN NSTEMI: ANALYSIS OF THE CATHPCI NATIONAL CARDIOVASCULAR DATA REGISTRY
In Preparation	786	Jennifer Rymer	UTILIZATION OF CANGRELOR IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION ACROSS DEMOGRAPHIC GROUPS: AN ANALYSIS FROM THE NCDR CATHPCI REGISTRY
In Preparation	789	Sunil Rao	Characteristics of Early Use of Shockwave Intravascular Lithotripsy (IVL)
In Preparation	791	Dean J. Kereiakes	Real-world Outcomes of Coronary Intravascular Lithotripsy in In-stent Restenosis from the ACC NCDR® CathPCI Registry®
In Preparation	796	Dean J. Kereiakes	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 Registry®

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In Preparation	809	Renee Y Hsia	An Evaluation of the Growth of PCI in Outpatient and Inpatient Settings in Disadvantaged and Non-Disadvantaged Communities
Analysis	741	Andrea Price	Impact of Credentialing, Certification and Licensure of Cath Lab Staff on Patient Outcomes
Analysis	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
Analysis	800	Eli Reynolds	Temporal Trends and Predictors of Access Site Crossover during Percutaneous Coronary Intervention in Contemporary Practice
Analysis	816	Sachit Singal	Temporal Trends and Practice Patterns of Percutaneous Revascularization in Ischemic Left Ventricular Systolic Dysfunction
Analysis	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
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

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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	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	Contemporary Yield of Coronary Angiography for Stable Angina: Implications for ANOCA Prevalence
External	843	Robert Yeh	Estimating the Effects of the Novel DynamX Bioadaptor (implant) in U.S. Patients Undergoing Percutaneous Coronary Intervention
External	866	Dr. Jeremiah Brown	IMPROVE AKI: A Cluster-Randomized Trial of Team-Based Coaching Interventions to IMPROVE Acute Kidney Injury
External	867	Antonio Gutierrez	Early Uptake of Drug-Coated Balloons for the Treatment of In-Stent Restenosis in the United States

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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	371	Kamil Faridi	Inpatient Outcomes for Patients with Peripheral Artery Disease Hospitalized for Acute Myocardial Infarction
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	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	440	Rajesh Swaminathan	The Impact of Daylight-Saving Time on Acute Myocardial Infarction: Time to Shift Policy?

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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	439	Ahmed Elkaryoni	Coronary Angiography in Patients with Out-of-Hospital Cardiac Arrest and ST-Elevation Myocardial Infarction
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

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EP DEVICE IMPLANT REGISTRY™ (FORMERLY ICD)

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	274	Carmel Ashur	Direct Oral Anticoagulant Management and Outcomes after Cardiovascular Implantable Electronic Device Placement
Submitted	275	Scott Weinreb	Characteristics and Outcomes of Pediatric Patients Undergoing Subcutaneous ICD Implantation – An Analysis of the NCDR EP Device Implant Registry
In Preparation	265	Beixin He	Disproportionate race and gender disparities in implantation of defibrillators during COVID-19 era
In Preparation	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
Analysis	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).
On Hold	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®

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	29	Natalie Jayaram	Association Between Trainee Involvement During Pediatric and Congenital Cardiac Catheterization and Procedural Outcomes
Submitted	84	Michael O'Byrne	Evaluating Racial Disparities in Access to Common Transcatheter Interventions
Submitted	96	Khalifah Aldawsari	Procedural Related Major Adverse Events of Cardiac Catheterization In Pediatric Patients With Cardiomyopathy: Insights from IMPACT Registry
In Preparation	27	A. Stefanescu	The IMPACT of Reducing Radiation Risk: An NCDR QI Project
In Preparation	73	Dustin Nash	Evaluation of the Effect of Center Procedural Volume on Outcomes of Pediatric Catheter Ablation
In Preparation	80	Katia Bravo Jaimes	Racial disparities in clinical presentation and outcomes of transcatheter coarctation procedures in adults with coarctation of the aorta.
In Preparation	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
External	103	Wisam Beauti	Outcomes of Ventricular Arrhythmia Ablation in Pediatric and Adult Patients with Congenital Heart Disease – Insight from the NCDR-IMPACT Registry

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Submitted	29	Natalie Jayaram	Association Between Trainee Involvement During Pediatric and Congenital Cardiac Catheterization and Procedural Outcomes
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LAAO REGISTRY™

Manuscript Status	RPA ID #	Lead Author	Title
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	128	Angela Higgins	In-Hospital and Long-Term Outcomes of Patients with Reduced Left Ventricular Function Undergoing Left Atrial Appendage Occlusion
Submitted	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
Submitted	171	Kamil Faridi	Comparing Administrative Claims Data to Site-Reported Events in the NCDR Left Atrial Appendage Occlusion Registry
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	129	Jonathan Hsu	Left Atrial Appendage Occlusion in Patients with Gastrointestinal Bleed: Insights from the NCDR LAAO Registry
In Preparation	147	Angela Higgins	In-Hospital and Long-Term Outcomes of Patients with Reduced Left Ventricular Function Undergoing Left Atrial Appendage Occlusion
In Preparation	174	Joshua Rager	Shared decision making and use of patient decision aids for percutaneous LAAO
Analysis	121	Kamil Faridi	Comparative Effectiveness of Transcatheter Left Atrial Appendage Occlusion in Real-World Practice: Findings from the NCDR LAAO Registry
On Hold	114	Matthew Price	Peri-Device Leak after Left Atrial Appendage Closure with WATCHMAN FLX: Incidence and predictors

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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	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

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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
External Review	11	James Freeman	Concomitant AF ablation and LAAO

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PINNACLE REGISTRY®

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	135	J. Sadhu	Use, Safety, and Effectiveness of Novel Oral Anticoagulants in Overweight and Obese Patients with Atrial Fibrillation
Submitted	215	Paul Hess	Practice-Level Compliance with Cardiac Performance Measures and Outcomes in US Ambulatory Care: Findings from the NCDR PINNACLE Program
Submitted	216	Firas Al Badarin	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
Submitted	225	Leila Haghighat	Implications of REDUCE-IT for the management of hypertriglyceridemia—an analysis from the NCDR PINNACLE registry

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STS/ACC TVT REGISTRY™

Manuscript Status	RPA ID #	Lead Author	Title
Submitted	285	Arman Qamar	Change in Mitral Valve Gradient Following Mitraclip Repair and Correlation to 30-day and 1 year outcomes
Submitted	466	Michael Young	The Impact of Frailty on Outcomes in Patients Undergoing Transcatheter Mitral Valve Repair
Submitted	608	Howard Julien	Development and validation of models for predicting risk of acute kidney injury in patients undergoing transcatheter aortic valve replacement: insights from the STS-ACC National Cardiovascular Data Registry TVT Registry
Submitted	630	Marc Allard-Ratick	The effect of transcatheter mitral valve repair on chronic kidney disease
Submitted	654	Kyeeun Park	Sex and race based difference with TMVR mortality and complications
Submitted	667	Nimesh Desai	Development of an unsuccessful 30-day outcome following MitraClip transcatheter mitral valve repair to support patient counseling and decision making
Submitted	684	Ahmed Kolkailah	Hospital-Level Transcatheter Aortic Valve Replacement Performance With Simulated Risk Avoidance Strategies
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	754	Sreek Vemulapalli	Creation and Internal Validation of a Risk Model to Predict Heart Failure Hospitalization and Death after TAVR
Submitted	846	Wessler	Comorbid Conditions and Patient Centered Outcomes after Transcatheter Aortic Valve Intervention
In Preparation	442	Andrew Vekstein	Resource Utilization and Costs Associated with Surgical Mitral Valve Repair After the Introduction of Transcatheter Repair-Aim2

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In Preparation	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
In Preparation	553	Ahmed Kolkailah	The contribution of site characteristics and patient selection to variation in site TAVR outcomes
In Preparation	577	John Suffredini	Racial and Ethnic Differences in the Utilization and Outcomes of Transcatheter Mitral Valve Repair
In Preparation	691	Andrew Vekstein	Early Outcomes of Commercial Transcatheter Tricuspid Valve Procedures in the Transcatheter Valve Therapies Registry
In Preparation	692	Andrew Vekstein	Outcomes of Sequential Transcatheter Aortic Valve Replacement and Edge-to-Edge Mitral Valve Repair
In Preparation	725	Jingjing HE	Sex Specific TAVR Outcome in Bicuspid versus Tricuspid Aortic Stenosis: A Report from STS/TVT Registry
In Preparation	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
In Preparation	741	Dhaval Kolte	Identifying Modifiable Practices Related to Outcome Variation and Enhancement in TAVR (IMPROVE TAVR)
In Preparation	759	Amit Vora	Institutional Volume and Failure to Rescue in Transcatheter Aortic Valve Replacement – Insights from the STS/ACC TVT Registry
In Preparation	773	Sundos Alabbadi	The Trend in Transcatheter Aortic Valve Replacement (TAVR) and Outcomes in Patients Younger than 65 Years Old
In Preparation	781	Saket Girotra	Correlation between hospital and operator-level procedural volumes and outcomes for TAVR and MTEER
Analysis	484	John Saxon	Clinical Outcomes After Repeat MitraClip
Analysis	517	Brennan	Outcomes of Transcatheter Aortic Valve Replacement for Primary Aortic Insufficiency
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

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Analysis	765	Arjun Majithia	Validation of Novel Learning Curve Detection Tools within the NCDR TVT Registry
Analysis	783	Hiroki Ueyama	Contemporary Trends and Outcomes of Antithrombotic Strategies in Valve-in-Valve Transcatheter Aortic Valve Replacement
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
Analysis	811	Mansi Maini	Use of Alternative Access for TAVR in Low and Intermediate Risk Patients with Class III/IV Obesity
Analysis	814	Sreekanth Vemulapalli	Clopidogrel vs. Aspirin in Patients Undergoing Transcatheter Aortic Valve Replacement
Analysis	837	Christina Lalani	Identification of COAPT-Like Patients in the Real World: A Linked Trial-Claims Analysis
External	839	Gloria Ayuba	Risk and Impact of Elevated Mitral Valve Gradient After Mitral Transcatheter Edge-to-Edge Repair (M-TEER) on Outcomes in Ventricular Functional Mitral Regurgitation: A TVT Registry Analysis
External	842	Ali Malik	Predictors of favorable outcomes in patients with low flow low gradient aortic stenosis after transcatheter aortic valve replacement
External	846		Comorbid Conditions and Patient Centered Outcomes after Transcatheter Aortic Valve Intervention
External	852	Ifeoma Ugonabo	Sex and Race Based Differences in Outcomes After Transcatheter Tricuspid Valve Interventions (TTVI): A TVT Registry Analysis
External	860	George Dangas	CLASH-TAVR: Clopidogrel versus Aspirin for Heart disease after TAVR