

In Process, Unpublished NCDR Manuscripts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.

CATH PCI REGISTRY

| RPA ID # | Lead Author | Title | Lead Author Email |
|-----------------|--------------------|---|--|
| 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 | |
| 666 | Rajendra Mehta | Recent Trends in the Incidence, Risk factors and Outcomes of Periprocedural Stroke in Patients Undergoing PCI | |
| 650 | Akash Kataruka | Failure to Rescue after Percutaneous Coronary Intervention Complications: Insights from NCDR ® CathPCI Registry | |
| 635 | Ali Malik | Potential Implications of the ISCHEMIA Trial results on Appropriateness of Percutaneous Coronary Intervention for Stable Coronary Artery Disease: Insights from the NCDR CathPCI Registry | aomalik88@gmail.com |
| 633 | Jeffrey Popma | Evaluation of outcomes for patients receiving percutaneous mechanical circulatory support devices during elective high-risk percutaneous coronary interventions | jpopma@bidmc.harvard.edu |
| 612 | Ashwin Nathan | Is it Rational to Avoid High-Risk Cases to Improve Hospital Performance Metrics? | ashwin.nathan@penmedicine.upenn.edu |
| 610 | Fabio Lima | Nationwide trends and outcomes of percutaneous coronary interventions following diagnostic angiography by invasive, non-interventional cardiologists versus solo-interventionalists: Insights from the CathPCI Registry | fabio_lima@brown.edu |

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|-----|-------------------|--|--|
| 608 | Michel Zeitouni | Trends and In-Hospital Outcomes of Prophylactic Mechanical Circulatory Support Devices in Elective PCI: Insights from the CathPCI Registry | michel.zeitouni@duke.edu |
| 606 | Saurav Chatterjee | Demographic, Clinical and Angiographic Features, and Outcomes Associated with Invasive Management of Patients in the US with Intermediate-High Risk Stress Test Findings similar in characteristics to the ISCHEMIA Trial Population | guillaume.marquis.gravel@duke.edu |
| 605 | Mark Hlatky | Use and Outcomes of Coronary Angiography and Percutaneous Coronary Intervention Performed in the Evaluation of Patients for Kidney Transplantation | hlatky@stanford.edu |
| 604 | Frederick Masoudi | ICH 6: Performance measures for comparing clinical risk prediction models: Looking beyond c-statistics | fred.masoudi@ucdenver.edu |
| 603 | John Spertus | ICH 7: Model guided contrast dosing to reduce risk of acute kidney injury in patients undergoing percutaneous coronary interventions | spertusj@umkc.edu |
| 602 | Mohamed Omer | Multivessel Percutaneous Coronary Intervention in Patients With NSTEMI and Cardiogenic Shock: Insights From the NCDR Cath PCI RegistryNew | omerm@umkc.edu |
| 601 | Eric Secemsky | Practice Patterns and Outcomes of Complete Revascularization versus Culprit-Only PCI for ST-Elevation Myocardial Infarction: A Sub-Analysis of the CathPCI National Cardiovascular Data Registry Research to Practice (R2P) Initiative | esecemsk@bidmc.harvard.edu |
| 597 | Charles Chambers | Ionizing Radiation Exposure of the Population of the United States | cchambers@psu.edu |
| 593 | Purav Mody | Coronary Angiography and Outcomes after In-Hospital Cardiac Arrest | puravmody@gmail.com |

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| 590 | Khera | Variation of care practices for acute myocardial infarction with multivessel coronary artery disease presenting with cardiogenic shock in the United States: A report from the CathPCI National Cardiovascular Data Registry Research to Practice (R2P) Initiative, 2008-2017 | Rohan.Khera@UTSouthwestern.edu |
| 590 | Rohan Khera | Variation of care practices for acute myocardial infarction with multivessel coronary artery disease presenting with cardiogenic shock in the United States: A report from the CathPCI National Cardiovascular Data Registry Research to Practice (R2P) Initiat | Rohan.Khera@UTSouthwestern.edu |
| 589 | Alexander Fanaroff | Atrial Fibrillation and Coronary Heart Disease: A Long-Term Perspective on the Need for Triple Antithrombotic Therapy | alexander.fanaroff@dm.duke.edu |
| 577 | Ali Malik | Association between hospital reimbursement models and rates of normal elective coronary angiograms | aomalik@saint-lukes.org |
| 574 | Robert Yeh | The Extending Trial-Based Evaluations of Medical Therapies Using Novel Sources of Data (EXTEND) Study | ryeh@bidmc.harvard.edu |
| 573 | Jacob Doll | PCI operator phenotypes and associations with procedural outcomes | jakedoll@gmail.com |
| 572 | Marc Sintek | Excimer laser coronary angioplasty: Current use and complications in the NCDR/CATH PCI Registry | msintek@wustl.edu |

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| 570 | Bobak Mortazavi | ICH.5 Evaluating Personalized Treatment Effectiveness of PCI Bleeding Avoidance Strategies Using the CathPCI Registry | bobak.mortazavi@yale.edu |
| 569 | Bobak Mortazavi | ICH.2 Dynamic Changes to Risk of Post-PCI Major Bleeds Throughout a Cardiac Catheterization Laboratory Visit Using the CathPCI Registry | bobak.mortazavi@yale.edu |
| 566 | Shun Kohsaka | Difference in the Utilization of Percutaneous Coronary Intervention for Stable Ischemic Heart Disease Between the US and Japan: Collaborative Analysis of NCDR CathPCI and J-PCI Registry | skohsaka@hotmail.com |
| 552 | Wassef Karrowni | The Prevalence and Outcomes of Transradial Access for Percutaneous Coronary Intervention in Patients with Prior Coronary Artery Bypass Grafting | wassef@hotmail.com |
| 545 | David Manly | Characteristics and outcomes of patients with prior history of coronary artery bypass grafting undergoing cardiac catheterization via the radial vs. femoral approach | david.manly@gmail.com |
| 528 | Sajjad Raza | Impact of Large Clinical Trials on Coronary Revascularization Practice in the United States | sajjad.raza@uhhospitals.org |
| 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 | h.v.anderson@uth.tmc.edu |

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| 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 | h.v.anderson@uth.tmc.edu |
| 522 | Tamez | Long-term Outcomes and Resource Utilization Associated with Coronary Stent Restenosis | htamez@bidmc.harvard.edu |
| 522 | Hector Tamez Aguilar | Long-term Outcomes and Resource Utilization Associated with Coronary Stent Restenosis | htamez@icloud.com |
| 493 | Hector Tamez Aguilar | Long-term major adverse cardiovascular events after chronic total occlusion percutaneous coronary intervention | htamez@bidmc.harvard.edu |
| 487 | T. Inohara | Concordance and discordance of appropriate ratings for percutaneous coronary intervention between new and old appropriate use criteria | taku.inohara@duke.edu |
| 477 | J. Abbott | Contemporary Patterns and Trends in Duration of Antiplatelet Therapy After Percutaneous Coronary Intervention in Patients on Oral Anticoagulants | JAbbott@Lifespan.org |
| 422 | S. Bradley | Changes in Reimbursement and Associated Trends in Use and Outcomes of Same-day Discharge Following Elective Percutaneous Coronary Intervention | steven.bradley@allina.com |

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| 387 | R. Dadu | Symptom Onset to Door Time, Door to Balloon Time and Mortality in patients with ST Elevation Myocardial Infarction | dadu@bcm.edu |
| 381 | Ali Malik | A Patient-centered Approach to Reduce Contrast Volume during Percutaneous Coronary Intervention to prevent Acute Kidney Injury | aomalik@saint-lukes.org |
| 366 | M. Young | An Assessment of the Operator Learning Curve for Percutaneous Coronary Intervention of Chronic Total Occlusions. | mnyoung@mgh.harvard.edu |
| 353 | Yulanka Castro K. Dharmarajan | Does hospital mortality performance for older patients undergoing percutaneous coronary intervention (PCI) reflect performance for all patients undergoing PCI? | yulanka.castro-dominguez@yale.edu kumar.dharmarajan@yale.edu |
| 297 | Bob McNamara-Nicholas Downing | Comparison of percutaneous coronary intervention procedures in China and the US in 2006 and 2011 | robert.mcnamara@yale.edu nicholas.downing@yale.edu |
| 292 | R. Nairooz | Symptom Onset to Door Time, Door to Balloon Time and Mortality in patients with ST Elevation Myocardial Infarction | ramez.nairooz@gmail.com |

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| 248 | R. Yeh | Symptom Onset to Door Time, Door to Balloon Time and Mortality in patients with ST Elevation Myocardial Infarction | ryeh@bidmc.harvard.edu |
| 168 | K. Minges | TOP PCI: QUALITATIVE: A qualitative study of the organizational strategies of high and low performing PCI hospitals: insights from TOP PCI | karl.minges@yale.edu |
| 161 | Amit Amin | Variation in the incidence of contrast-induced acute kidney injury in patients undergoing PCI. | amitamin.mahi@gmail.com |

CHEST PAIN - MI REGISTRY

| RPA ID # | Lead Author | Title | Email |
|----------|-------------------|--|--|
| 394 | Bashar Al Hemyari | Patient characteristics, use of ischemia testing and clinical outcomes in patients with stable ischemic heart disease undergoing percutaneous coronary intervention during the COVID-19 pandemic | bashar.Alhemyari@gmail.com |
| 392 | Sameer Saleem | Impact of the COVID-19 Pandemic on Management and Outcomes of Patients Presenting with ST Elevation Myocardial Infarction | sameersaleems@gmail.com |
| 391 | Aniruddha Singh | Management and Outcomes of COVID-19 Patients Presenting with ST Elevation Myocardial Infarction | aniruddha.singh@uky.edu |
| 390 | Hanna Ahmed | Out of hospital cardiac arrest and outcomes during the COVID-19 pandemic | hanna.ahmed@alumni.tufts.edu |

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| 389 | Michael Kontos | Impact of the COVID-19 pandemic on care and outcomes of patients with STEMI and NSTEMI in the United States | michael.kontos@vcuhealth.org |
| 388 | Mazen Albaghdadi | Association of GLP-1 Receptor Agonists and Outcomes in Patients with Diabetes and Acute Myocardial Infarction | malbaghdadi@partners.org |
| 385 | Khaled Ziada | Impact of urban vs. rural residence on process and outcome of ST segment elevation myocardial infarction | khaled.ziada@uky.edu |
| 374 | Zachary Wegermann | Simultaneous STEMI Presentation: Incidence and Outcomes | zachary.wegermann@duke.edu |
| 365 | Islam Elgendy | Sex-specific Differences in In-hospital Management and Outcomes of Patients with Acute Myocardial Infarction and Cardiogenic Shock: An Analysis from the Chest Pain Registry | iyelgendy@gmail.com |
| 363 | HAITHAM KHRAISHAH | Association of SGLT2 Inhibitors and Outcomes in Diabetic Patients with Acute Myocardial Infarction | hkhraish@bidmc.harvard.edu |
| 362 | Harmony Reynolds | Variability of discharge medical therapy for patients with myocardial infarction with non-obstructive coronary arteries (MINOCA) in the United States | harmony.reynolds@nyumc.org |
| 349 | Sanjay Gandhi | Reflection on the 10-year journey of the National Cardiovascular Data Registry Chest Pain – MI Registry (formerly ACTION registry) and its impact on cardiovascular outcomes in the United States | sgandhi@metrohealth.org |
| 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 | jacqueline.tamis-holland@mountsinai.org |
| 339 | Nihar Desai | Utilization of mechanical circulatory support devices among patients with acute myocardial infarction complicated by cardiogenic shock | nihar.desai@yale.edu |
| 338 | Bobak Mortazavi | ICH.3 Prediction of In-Hospital Mortality with Acute Myocardial Infarction using Machine Learning Techniques | bobakm@tamu.edu |
| 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 | mkarthik118@gmail.com |

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| 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 | akochar@partners.org ; akochar5@gmail.com |
| 313 | Dharam Kumbhani | Attributes of high-performing hospitals for cardiogenic shock following acute myocardial infarction | Dharam.Kumbhani@UTSouthwestern.edu |
| 306 | Jennifer Rymer | Understanding Racial Disparities in Invasive Management for Patients with Acute Myocardial Infarction and Chronic Kidney Disease | jennifer.rymer@dm.duke.edu |
| 300 | Leila Haghghat | A Patient- and Hospital-Level Analysis from the NCDR ACTION Registry-GWTG | leila.haghighat@yale.edu |
| 297 | Faridi | Use of Novel P2Y12 Inhibitors in ST-Elevation Myocardial Infarction in the United States | kfaridi@bidmc.harvard.edu |
| 277 | Sarah Goldstein | Implantable Cardioverter-Defibrillator Utilization Among Older Patients with Low Ejection Fraction Following Coronary Artery Bypass Grafting | sarah.goldstein@duke.edu |
| 269 | Acharya | Trends of Compliance with Guideline Directed Therapy and Performance and Quality Measures in Diabetic Patients Admitted with Acute Coronary Syndrome | drtusharacharya@gmail.com |
| 266 | Amit Amin | DEVELOPMENT AND VALIDATION OF PREDICTION MODELS OF 90-DAY RESOURCES AND COSTS OF CARE AFTER AMI TO INFORM HOSPITALS IN PREPARING FOR "BUNDLED PAYMENTS" | aamin@wustl.edu |
| 261 | A. Fanaroff | Is routine intensive care unit utilization associated with greater patient satisfaction, better care and better long-term outcomes for patients with non-ST-elevation myocardial infarction? | alexander.fanaroff@duke.edu |
| 258 | F. Rodriguez | Cardiovascular disease Unmasked In DisAggregated Hispanic Data (CUIDADO) | frodriqu@stanford.edu |
| 251 | Majithia | Public Reporting and Outcomes of Patients with Out-of-Hospital Cardiac Arrest | arjun.majithia@lahey.org |
| 243 | N. Albert | Changes in Performance Measures Over Time after Implementation of the Patient Navigator program | albertn@ccf.org |
| 237 | Thomas | Comparative Methods proposal | laine.thomas@duke.edu |
| 232 | J. Wong T. Wang | Anticoagulation and antiplatelet prescribing trends in chronic kidney disease patients with atrial fibrillation who experience acute myocardial infarction: insights from the ACTION registry | jonmwong@gmail.com ; mailto:WongJon@sutterhealth.org |
| 205 | J. Udell | Frailty and Outcomes in a Large Acute Myocardial Infarction Registry: Observations from the NCDR ACTION Registry GWTG | jay.udell@utoronto.ca |
| 204 | A. Vora | Hospital Engagement in clinical participation | alexander.fanaroff@duke.edu |

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| 196 | S. Mikesell J. Sather M. Cook | Rural Systems of Care: Real World Observations and Trends in STEMI Patient Characteristics, and correlations of arrival mode to outcomes | smikesell@slhduluth.com jeffrey.sather@trinityhealth.org mindy.cook@heart.org |
| 194 | M. Garzon | Ethnic disparities in secondary prevention therapy and risk factors burden in patients with known CAD at the time of admission for ACS | magdaelizabethmd@gmail.com |
| 178 | Rodwin | Hospital variation in antiplatelet agents after myocardial infarction, an analysis of the NCDR ACTION Registry-GWTG | Benjamin.Rodwin@yale.edu |
| 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 | christopher.fordyce@duke.edu |
| 139 | McNamara | Comparison of treatments and outcomes among patients with STEMI in China and US in 2011 | robert.mcnamara@yale.edu nicholas.downing@yale.edu |

DIABETES COLLABORATIVE REGISTRY

| RPA ID | Title | Lead Author Email |
|--------|--|---------------------------------|
| 34 | Under-recognition of heart failure in ambulatory patients with diabetes | suz.v.arnold@gmail.com |
| 13 | Quality of Care Among Diabetic Patients with Cerebrovascular Disease compared to those with other forms of Atherosclerotic Cardiovascular Diseases (ASCVD) – The Diabetes Collaborative Registry | echouffotcheugui@gmail.com |
| 14 | Patterns of Use of Glucose-Lowering Therapies by Prescriber Type in Patients with Type 2 Diabetes Mellitus: the NCDR Diabetes Collaborative Registry | mvaduganathan@bwh.harvard.edu |
| 30 | CVD-Real outcomes vs. DCR outcomes comparison | kirill.zhudenkov@msdecisions.ru |
| 32 | Description of the T2DM population that will potentially benefit from the update to ADA/EASD management guidelines. | jesus.medina@astrazeneca.com |
| 39 | Quality of Care & Prescription of Evidence-Based Glucose Lowering Therapies by Insurance Status Among Older Adults with Type 2 Diabetes Mellitus: the NCDR Diabetes Collaborative Registry | |
| 8 | Diabetes Belt Benchmark Report | gambinr@ccf.org |

ICD REGISTRY

| RPA ID | Title | Lead Author Email |
|--------|---|---------------------------|
| 173 | In-Hospital Outcomes of Subcutaneous ICDs vs Transvenous ICDs in Dialysis Patients: A report from the NCDR | patrick.pun@duke.edu |
| 173 | In-Hospital Outcomes of Subcutaneous ICDs vs Transvenous ICDs in Dialysis Patients: A report from the NCDR | patrick.pun@duke.edu |
| 184 | Use and outcomes of dual chamber and cardiac resynchronization therapy defibrillators among patients undergoing ICD implantation with a pacing indication | ryan.borne@ucdenver.edu |
| 107 | Association Between Sunshine Act Physician Payments and Appropriateness with Selection of ICDs | aramarnath@yahoo.co.in |
| 145 | Brief Report on DOJ | |
| 109 | Processes of Care and Outcomes in the Uninsured: Insight from NCDR ICD Registry. | 'Rachel.lampert@yale.edu' |
| 120 | Outcomes from ICD generator replacements in response to FDA recalls | emily.zeitler@duke.edu |
| 134 | Clinical and Mechanical Complications after Primary Implantable Cardioverter Defibrillator in Elderly Heart Failure Patients | natash.cy@gmail.com |
| 168 | Sex Differences in Patient Characteristics, Indications, and In-Hospital Adverse Events of the S-ICD | sanket.dhruva@yale.edu |

| RPA ID | Title | Lead Author Email |
|---------------|---|---------------------------------------|
| 185 | Defibrillation threshold testing in Pediatric and Congenital Heart Disease Patients | JPrutkin@cardiology.washington.edu |
| 211 | ICD in Patients with Non-ischemic Cardiomyopathy in the United States – Insights from the NCDR ICD Registry (DANISH) | valentina.kutyifa@heart.rochester.edu |
| 218 | Longitudinal Outcomes Associated with Non-Evidence-Based ICD Implantations Among Medicare Beneficiaries: A Report from the National Cardiovascular Data Registry. | faisal.aslam@yale.edu |
| 239 | Survival Following Implantable Cardioverter-Defibrillator Implantation in Patients Sarcoid Cardiomyopathy Compared with Other Non-Ischemic Cardiomyopathies | aramarnath@yahoo.co.in |
| 241 | ICD-DELTA Study | |
| 78 | Sex Differences in Long-Term Adverse Event Risk After Implantable Cardioverter-Defibrillator Implantation | sanket.dhruva@ucsf.edu |
| 186 | Risk Stratification for ICD Generator Changes in the ICD Registry | bilchick@virginia.edu |
| 192 | Appropriateness of ICD and CRT-D | |
| 227 | Medicare Claims-Based Analyses to Inform the Electrophysiology Predictable and Sustainable Implementation of National Registries (EP PASSION) Project | philchui fwd@gmail.com |

| RPA ID | Title | Lead Author Email |
|---------------|---|----------------------------|
| 243 | Temporal Trends and Outcomes Among Recipients of Cardiac Resynchronization Therapy in the United States, 2012-2016: Insights from the National Cardiovascular Data Registry | Jonathan.Hsu@ucsd.edu |
| 248 | Outcomes of Patients with Recalled ICD Leads | emily.zeitler@duke.edu |
| 151 | Longitudinal Outcomes After Implantation of a Subcutaneous or Transvenous ICD: A Report from the NCDR | daniel.friedman@duke.edu |
| 161 | Predictors of RV Pacing and Pacing-Induced Adverse Outcomes | joeakar@gmail.com |
| 220 | Trends in use of single versus dual chamber ICDs among patients without a pacing indication in the NCDR ICD Registry | RYAN.BORNE@CUANSCHUTZ.EDU |
| 225 | Survival and ICD therapy after CRT-D generator replacement in patients with normalized or improved LVEF | ycha@mayo.edu |
| 176 | Characteristics of hospitals performing differently on ICD and CathPCI discharge measures | msimanowith@acc.org |
| 178 | Outcomes in patients with diabetes receiving a subcutaneous implantable cardioverter defibrillator. | Esseim.Sharma@Lifespan.org |
| 212 | Validation of SCD HeFT in ICD | |

| RPA ID | Title | Lead Author Email |
|--------|---|--|
| 249 | Left ventricular lead implant failure in the United States: A Report from the NCDR ICD Registry | daniel.j.friedman@yale.edu |
| 261 | Assessment of the Value of Electronic Health Records Data for Identifying Implantable Cardiac Lead Failures | groseenth@wakehealth.edu |
| 262 | Complications after CIED implantation following cessation of elective procedures during the COVID 19 crisis. | dkkd75@hotmail.com |
| 263 | Impact of CMS Mandate on Shared Decision-making for ICD Implantation for Primary Prevention | grace.lin@ucsf.edu |
| 264 | Implantable Cardioverter Defibrillator Use Among Patients with Hypertrophic Cardiomyopathy: A Focus on Utilization and Outcomes in Older Patients | sarah.goldstein@duke.edu |

IMPACT REGISTRY

| RPA ID # | Lead Author | Title | Author Email |
|----------|----------------------|--|--|
| 65 | Maully Shah | Effect of Ablation Energy Source on Outcomes of Pediatric AVNRT Ablation: RF vs. Cryo | shahm@email.chop.edu |
| 64 | Christopher Janson | Effect of Patient Size on Procedural Outcomes in Pediatric Patients Undergoing EP Study and Catheter Ablation for Wolff-Parkinson-White Syndrome | jansonc@email.chop.edu |
| 51 | Christopher Janson | Comparison of Outcomes of Pediatric Supraventricular Tachycardia Ablation Under Sedation Versus General Anesthesia | jansonc@email.chop.edu |
| 48 | Doff McElhinney | Standards of Care for Pulmonary and Aortic Balloon Valvuloplasty in Children, Adolescents, and Young Adults with Congenital Heart Disease | doff@stanford.edu |
| 68 | Shriprasad Deshpande | Indications and Safety of Endomyocardial Biopsy in Pediatric Heart Transplant Patients: Analysis of the IMPACT Registry Data | deshpandes@kidsheart.com |

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| 53 | Shriprasad Deshpande | Atrial Septostomy in Patients Supported With Venoarterial Extracorporeal Membrane Oxygenation: Analysis of the IMPACT Registry Data | sdeshpan@childrensnational.org |
| 29 | Natalie Jayaram | Prediction of adverse events after catheter-based procedures in congenital heart disease in the IMPACT registry. | njayaram@cmh.edu |
| 35 | A. Stefanescu | Interventions for coarctation of the aorta in adults- a report from the IMPACT registry | ada.stefanescu@mgh.harvard.edu |
| 34 | Ada Stefanescu Schmidt | Use of transcatheter pulmonary valve replacement in patients with congenital heart disease- a report from the IMPACT registry | ada.stefanescu@mgh.harvard.edu |
| 27 | Aimee Armstrong | The IMPACT of Reducing Radiation Risk: An NCDR QI Project | Aimee.Armstrong@nationwidechildrens.org |
| 44 | Michael O'Byrne | Sedation and Anesthesia Strategies and Outcomes in Pediatric/Congenital Cardiac Catheterization | obyrnem@email.chop.edu |
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LAO REGISTRY

| RPA ID # | Lead Author | Title | Author Email |
|----------|------------------|---|--|
| 80 | Matthew Price | One Year Clinical Outcomes After Transcatheter Left Atrial Appendage Occlusion For Stroke Prevention in Patients With Atrial Fibrillation: A Report from the NCDR LAO Regist | price.matthew@scrippshealth.org |
| 79 | Andrew Goldsweig | Association of Antithrombotic Regimen with Ischemic and Hemorrhagic Outcomes Following Left Atrial Appendage Occlusion: Insights from the NCDR LAO Registry | andrew.goldsweig@unmc.edu |
| 59 | Chengan Du | Safety and Effectiveness of Left Atrial Appendage Closure in Atrial Fibrillation (SAFELY-AF) Aim 2. | chengan.du@yale.edu |
| 58 | Jeptha Curtis | Safety and Effectiveness of Left Atrial Appendage Closure in Atrial Fibrillation (SAFELY-AF) Aim 1. | jeptha.curtis@yale.edu |
| 57 | Jeptha Curtis | Safety and Effectiveness of Left Atrial Appendage Closure in Atrial Fibrillation (SAFELY-AF) Aim 4. | jeptha.curtis@yale.edu |
| 56 | Karl Minges | Safety and Effectiveness of Left Atrial Appendage Closure in Atrial Fibrillation (SAFELY-AF) Aim 3 | karl.minges@yale.edu |
| 40 | Gaurav Dhar | Efficacy and clinical benefit of Left Atrial Appendage Occlusion (LAO) in patients with Atrial Fibrillation with elevated CHAD-VaSC score and End Stage Renal Disease (ESRD) on hemodialysis (HD) | beenugaurav@hotmail.com |

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| 39 | James Freeman | "Safety and Effectiveness of Left Atrial Appendage Closure in Atrial Fibrillation" (SAFELY-AF) Aim 2: Evaluating the demographics and medical comorbidities for patients in the LAAO Registry that are associated with major adverse events and developing a risk model | james.freeman@yale.edu |
| 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-practic | james.freeman@yale.edu |
| 37 | Jennifer Williams | WATCHMAN® New Enrollment PoST Approval Surveillance Analysis Plan to Assess Safety and Efficacy for the use of Dual AntiPlaTelet Post-Implant (WATCHMAN NESTed SAP - DAPT) | Jennifer.Williams2@bsci.com |
| 33 | Ellenhogen | Real World Outcomes with WATCHMAN: 7-Day Safety and 45-Day Results from the NESTed Post Approval Study | kenneth.ellenbogen@vcuhealth.org |
| 32 | Mohamad Alkhouli | Incidence and Outcomes of Peri-Device Leak Following Left Atrial Appendage Occlusion; Insights from the LAAO Registry. | adnanalkhouli@gmail.com |
| 21 | Angela Higgins | Patterns of Peri-procedural Anticoagulation and Anti-platelet therapy for Left Atrial Appendage Occlusion in the United States | angela.y.higgins@gmail.com |
| 19 | Usama Daimee | Indications for Left Atrial Appendage Occlusion in the United States | usama.daimee@yale.edu |
| 9 | James Freeman | Left Atrial Appendage Occlusion Safety and Effectiveness Study. | james.freeman@yale.edu |
| 4 | Jennifer Williams | WATCHMAN US Post-Implant Drug Therapy Analysis | Jennifer.Williams2@bsci.com |

PINNACLE REGISTRY

| RPA ID | Title | Lead Author Email |
|--------|---|--|
| 119 | Practice-Level Variation in Secondary Prevention Treatment Among Patients with Peripheral Artery Disease: Insights From the NCDR PINNACLE Registry | David.Lee@unchealth.unc.edu |
| 131 | Reducing Cardiovascular Risk in the Medicare Million Hearts Risk Reduction Model (strategic ms #1) | wborden@mfa.gwu.edu |
| 146 | Geographic, Provider, and Patient-Level Variations in the Use of Proprotein convertase subtilisin/kexin type 9 (PCSK9) Inhibitors: A Report from the NCDR's Pinnacle Registry | dblumenthal1@partners.org |
| 154 | Association between neighborhood socioeconomic status and quality of outpatient cardiovascular care in the PINNACLE registry | drmayank.sardana@gmail.com |
| 176 | Atrial fibrillation in Asian Americans: Cross Sectional Analysis of the PINNACLE registry | kevin.gu025@gmail.com |
| 35 | Uptake of Novel Oral Anticoagulants in Patients with Non-Valvular and Valvular Atrial Fibrillation: Results from the NCDR® PINNACLE Registry® | |
| 106 | Gender Differences in Long Term Cardiovascular Outcomes among Women and Men with Atrial Fibrillation: A Review from the NCDR | Stacie.Daugherty@ucdenver.edu |
| 127 | Provider-Level Variation in the Guideline Concordant Management of Cardiovascular Disease: Insights from NCDR PINNACLE | PRATEETI.KHAZANIE@UCDENVER.EDU |
| 135 | Use, Safety, and Effectiveness of Novel Oral Anticoagulants in Overweight and Obese Patients with Atrial Fibrillation | j.sadhu@wustl.edu |
| 136 | Practice-level variation in guideline-recommended patient education among outpatients with heart failure: Insights from the PINNACLE Registry | karl.minges@yale.edu |

| RPA ID | Title | Lead Author Email |
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| 144 | The influence of insurance expansion on cardiovascular preventive care | steckere@ohsu.edu |
| 172 | Advanced care planning discussions among outpatients with heart failure | Casey.Cavanagh@virginia.edu |
| 180 | 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 | HGAGGIN@mgh.harvard.edu |
| 184 | Impact of the 2017 ACC/AHA Guideline for the Management of High Blood Pressure on Contemporary Cardiovascular Practices: Insights from the NCDR® PINNACLE® Registry | virani@bcm.edu |
| 188 | Relationship Between Industry Payments to Physicians and Prescription Patterns for NOACs, PCSK9 inhibitors, and ARNI: A Report from the NCDR PINNACLE Registry | aramarnath@gmail.com |
| 196 | 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 | christopher.cannon@baiminstitute.org |
| 198 | Predictors of Smoking Cessation among Outpatients with Atherosclerotic Cardiovascular Disease | vitty.hejyy@gmail.com |
| 205 | Contemporary Compliance with the 2016 ACC/AHA Clinical Performance and Quality Measures for Adults with Atrial Fibrillation or Atrial Flutter: Insights from the NCDR PINNACLE Registry®. (Strategic #3) | Jonathan.Hsu@ucsd.edu |
| 207 | Impact of the 2019 ACC/AHA Guidelines on the Primary Prevention of Cardiovascular Disease recommendations on the inappropriate and lack of appropriate use of aspirin for primary prevention of cardiovascular disease in Cardiology practices: Insights from the NCDR (R2P) | |

| RPA ID | Title | Lead Author Email |
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| 91 | Proportion of US Heart Failure Patients with Reduced Ejection Fraction Who May Benefit from Additional Rate Control | mvandyke@amgen.com |
| 140 | Association between Accountable Care Organization participation and Quality of Outpatient Cardiovascular Care | erica.spatz@yale.edu |
| 206 | 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 | |
| 213 | The 2017 ACC/AHA Hypertension Guidelines and CHA2DS2-VASc Up-Scoring in Patients with Atrial Fibrillation: Insights from the NCDR® PINNACLE® Registry | kpundi@stanford.edu |
| 215 | Practice-Level Compliance with Cardiac Performance Measures and Outcomes in US Ambulatory Care: Findings from the NCDR PINNACLE Program | PAUL.HESS@UCDENVER.EDU |
| 216 | 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 | falbadarin@saint-lukes.org |
| 221 | Association of beta-blocker use and heart failure hospitalizations in patients with HFpEF: Findings from the PINNACLE Registry | daniel.silverman@uvmhealth.org |
| 178 | Angiotensin Receptor-Neprilysin Inhibitor Utilization in PINNACLE Patients: An NCDR Research to Practice Project | joshmitchellmd@gmail.com |
| 218 | Transform LDL | |

PVI REGISTRY

| RPA ID | Author Name | Title | Lead Author Email |
|--------|-------------|--|----------------------------|
| 20 | Sefley | A Risk Model of Acute Kidney Injury in Patients Undergoing Peripheral Vascular Intervention: From the National Cardiovascular Data Registry Peripheral Vascular Intervention (NCDR PVI) Registry™. | dsefley@saint-lukes.org |
| 15 | Qamar | Impact of Annual Operator Volumes on Outcomes after Lower Extremity Endovascular Revascularization: Insights from the NCDR-PVI Registry | MQAMAR@PARTNERS.ORG |
| 21 | Salisbury | A Risk Model of Bleeding in Patients Undergoing Peripheral Vascular Intervention: From the National Cardiovascular Data Registry Peripheral Vascular Intervention (NCDR PVI) Registry™ | salisbury.adam@yahoo.com |
| 34 | Secemsky | Outcomes following Carotid Artery Stenting compared with Carotid Endarterectomy among Patients with Contralateral Carotid Occlusion: An Analysis from the NCDR PVI Registry | esecemsky@mgh.harvard.edu |
| 36 | Jones | Safety and Effectiveness of Drug-Coated Balloons and Drug-Eluting Stents in the Treatment of Femoropopliteal Stenosis: An Analysis from the ACC PVI Registry | schuyler.jones@dm.duke.edu |
| 12 | Secemsky | Guideline-Directed Medical Therapy among Patients with Peripheral Arterial Disease Undergoing Peripheral Vascular Revascularization: An Analysis from the NCDR PVI Registry | esecemsky@partners.org |

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|----|------------------|--|-------------------------------------|
| 25 | Kobayashi | The effect of an intentional subintimal approach to chronic total occlusions in the superficial femoral artery: Insights from the NCDR PVI Registry | taisei.kobayashi@uphs.upenn.edu |
| 49 | Albaghdadi | Contemporary patterns of vessel preparation among patients undergoing peripheral vascular intervention in the United States: insights from the National Cardiovascular Data Registry | malbaghdadi@partners.org |
| 63 | Ravid Katchalski | TBD | ravid.sasson-katchalski@philips.com |
| 50 | Merrill Thomas | Optimal Medical Therapy in Patients Undergoing Invasive Interventions for Peripheral Artery Disease | thomasmer@umkc.edu |
| 64 | Balijepalli | Procedures Utilizing the AngioSculpt (AS) PTA Scoring Balloon Device | |

STS/ACC TVT REGISTRY

| RPA ID # | Lead Author | Title | Lead Author Email |
|----------|-----------------|--|-------------------------------|
| 98 | Gleason | Outcomes of patients with elevated pulmonary artery pressure undergoing TAVR | |
| 114 | H. Tankazyan | 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 | htankazyan@llu.edu |
| 240 | S. Baron | Development of a Risk Prediction Model for 1-Year Mortality after Surgical vs. Transcatheter Aortic Valve Replacement in Patients with Severe Aortic Stenosis | suzanne.baron@gmail.com |
| 253 | Bhardwaj | Outcomes of trans-catheter aortic valve replacement (TAVR) in patients with mixed aortic valve disease | bhardwajb@health.missouri.edu |
| 353 | Villablanca | Sex-Based Differences in Outcomes After Transcatheter Repair of Mitral Regurgitation with the MitraClip System | pedrovillablanca@hotmail.com |
| 374 | Anwaruddin | Understanding Out of Hospital 30 Day Mortality after TAVR: An Analysis of the STS/TVT Registry | sanwaruddin@gmail.com |
| 438 | Carroll | STS/ACC TVT Registry 2018 Update from Three Modules | john.carroll@ucdenver.edu |
| 127 | Saif Anwaruddin | A Characterization of the Incidence and Predictors of Paravalvular Regurgitation (PVL) and its Impact on Outcomes: A Study of the STS/ACC Transcatheter Valve Therapy (TVT) Database | sanwaruddin@gmail.com |
| 260 | Bishawi | Failure to Rescue in Transcatheter Aortic Valve Replacement | muath.bishawi@duke.edu |

| RPA ID # | Lead Author | Title | Lead Author Email |
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| 285 | Van Assche | Change in Mitral Valve Gradient Following Mitraclip Repair and Correlation to 30-day and 1 year outcomes | lowie.assche@northwestern.edu |
| 350 | Vavalle | The Effect of Obesity on Outcomes in Patients Undergoing MitraClip- Insights from the TVT-NCDR registry | jvavalle@gmail.com |
| 361 | Brennan | Individualized Risk Prediction for Intermediate and High Risk Patients with Aortic Valve Stenosis Considering SAVR or TAVR in the United States | j.matthew.brennan@duke.edu |
| 406 | Vemulapalli | Improving Data Completeness and Expanding Available Data Elements in the TVT Registry through the use of Electronic Health Record Based Data: Linking the TVT Registry and PCORnet | sreekanth.vemulapalli@duke.edu |
| 409 | Valle | Growth and Dissemination of Transcatheter Aortic Valve Replacement in the United States and Procedural Volumes, Risk Profiles and Outcomes: Insights from the TVT Registry | javier.valle@ucdenver.edu |
| 417 | Tanawuttiwat | The Use of Non-vitamin K Antagonist and Outcomes in Atrial Fibrillation Patients after Transcatheter Aortic Valve Replacement: Insights from STS/ACC TVT Registry. | ttanawuttiwat@umc.edu |
| 422 | Hejjaji | Association between short term health status variation and long-term clinical outcomes after trans-catheter valve therapies: Insights from the STS/ACC TVT registry | vhejjaji@saint-lukes.org |
| 440 | Julien | Acute Kidney Injury in Transcatheter Aortic Valve Replacement | hmartinjulien@gmail.com |
| 458 | Guerrero | Clinical outcomes of Mitral Valve-in-Valve using the SAPIEN 3 Transcatheter Heart Valve | mayraguerrero@me.com |
| 117 | Sherwood | The Use of Red Blood Cell Transfusion and Outcomes after TAVR: Insights from the STS/ACC TVT Registry® | matthew.sherwood@duke.edu |

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| 170 | K. Greason | AATS Guideline: TAVI in the hybrid operating room, hybrid catheterization suite, or catheterization laboratory; is there a difference? | greason.kevin@mayo.edu |
| 241 | R. Matsouka | PCORI Grant - 6 manuscripts expected: 2 of 6 Estimating the risk of mortality in aortic valve disease treatment: assessment for bias in non-randomized treatment comparisons | roland.matsouaka@duke.edu |
| 342 | Kaneko | Peripheral versus Central Access for Alternative Access TAVR | tkaneko2@partners.org |
| 384 | Kataruka | Outcomes of Percutaneous Structural Interventions at Top-Ranked and Non-Ranked Hospitals: Insights from the NCDR STS/ACC TVT Registry | akash.kataruka@gmail.com |
| 399 | Cohen | Impact of Short-Term Complications of TAVR on Outcomes. Results from the STS/ACC Transcatheter Valve Therapy Registry. | dcohen@saint-lukes.org |
| 416 | 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. | sidmpatel@gmail.com |
| 431 | Chau | National trends of permanent pacemaker implantation after transcatheter aortic valve replacement | kat.chau@gmail.com |
| 442 | Wang | Association of MitraClip Availability and Hospital Surgical Mitral Valve Repair Volume and Mortality-Aim2 | A.WANG@DUKE.EDU |
| 444 | Lowenstern | Association of MitraClip Availability and Hospital Surgical Mitral Valve Repair Volume and Mortality-Aim1 | angela.sandelin@dm.duke.edu |

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| 447 | Tuzcu | Real World Outcomes of TAVR with the SAPIEN-3 Valve in Intermediate Risk Patients: Comparison of Data from the TVT Registry with PARTNER S3 Studies | tuzcue@ccf.org |
| 449 | Russo | Case Volume vs. Outcomes Relationship with Balloon Expandable TAVR Valves: Insights from the TVT Registry | mr2143@gmail.com |
| 451 | Arora | Association of Post Transcatheter Aortic Valve Implantation Mitral Regurgitation with Mortality and Heart Failure Readmission in Patients with Aortic Stenosis | parora@uabmc.edu |
| 452 | Kaneko | Transcatheter Aortic Valve Replacement Outcomes by Procedure Location: Catheterization Laboratory versus Operating Room | TKaneko2@partners.org |
| 454 | Makkar | SAPIEN 3 Outcomes in Bicuspid vs. Tricuspid Aortic Valve Stenosis | makkarr@cshs.org |
| 464 | Ando | Comparative Outcomes of Direct Oral Anticoagulants Versus Vitamin K Antagonist After Transcatheter Aortic Valve Replacement; From the TVT Registry | andotomo@hotmail.co.jp |
| 466 | Young | The Impact of Frailty on Outcomes in Patients Undergoing Transcatheter Mitral Valve Repair | michael.n.young@hitchcock.org |
| 467 | Kaneko | Risk Profile of Patients undergoing Transcatheter Aortic Valve Replacement in the US and Japan: Joint Data Harmonization Effort between TVT and J-TVT | TKaneko2@partners.org |
| 472 | Cohen | Impact of Embolic Protection Devices on TAVR Outcomes: An Instrumental Variable Analysis | djc795@gmail.com |
| 474 | Hung | Association between Embolic Protection Device use and Reimbursement Rates for Transcatheter Aortic Valve Replacement | anna.hung@duke.edu |
| 479 | Nelson | Procedural Volumes versus Outcomes Measurements for Identifying Low and High Performing TAVR Centers | a.nelson@duke.edu |
| 480 | | Temporal Trends in Cause of Death After Transcatheter Aortic Valve Replacement | |

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| 484 | Saxon | Clinical Outcomes After Repeat MitraClip | jtsaxon@gmail.com |
| 505 | | Temporal Trends and Hospital Variation in the Pacemaker Implantation following TAVR – Insights from the STS / ACC TVT Registry | |
| 510 | Abbas | Clinical Outcomes of Valve-in-Valve Transcatheter Aortic Valve Replacement (VIV-TAVR) with SAPIEN 3 | aabbas@beaumont.edu |
| 559 | Mack | Mitral Annual Update Paper | Michael.mack@bswhealth.org |
| 560 | Giri | Rates and Outcomes of Percutaneous Coronary Intervention after Implantation of Transcatheter Aortic Valve Replacement | giri.jay@gmail.com |
| TBD | Brennan | "PCORI Grant - 6 manuscripts expected: | |
| 28 | D. Cohen | In-Hospital and Long-Term Costs Associated with Peri-Procedural Complications in Patients Treated with Transcatheter Aortic Valve Replacement: Results from the TVT Registry | dcohen@saint-lukes.org |
| 273 | Das | Does the Mitraclip NT Device, improve procedural results and short-term clinical outcomes compared to the first generation Mitraclip device? | dasxx007@umn.edu |
| 404 | Saidi | Mitral clip feasibility in nonagenarians: Insights from the STS/ACC TVT registry | abdulfattah.saidi@hsc.utah.edu |
| 405 | Fraser | The Impact of Valve-in-Valve Transcatheter Aortic Valve Replacement on Outcomes in Patients with Degenerative Bioprosthetic Aortic Valves | cfrase11@jhmi.edu |
| 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 | sreekanth.vemulapalli@duke.edu |

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| 450 | Tuzcu | Real World Outcomes of TAVR with the SAPIEN-3 Valve in Intermediate Risk Patients: Comparison of Data from the TVT Registry with PARTNER S3 Studies | tuzcue@ccf.org |
| 455 | Desai | Development of a 30 day mortality/morbidity composite risk model for pts w/TAVR | nimesh.desai@uphs.upenn.edu |
| 456 | Tang | Incidence and Impact of Prosthesis-Patient Mismatch using Self-expanding Bioprosthesis in TAVR: A Report from the ACC/STS TVT Registry | doctor.gilberttang@gmail.com |
| 495 | Turagam | Applied Machine Learning for Predicting Post Transcatheter Aortic Valve Replacement Permanent Pacemaker Implantation: Insights From the U.S. Society of Thoracic Surgeons /American College of Cardiology TVT Registry | mohitkturagam@gmail.com |
| 508 | McCabe | Clinical Outcomes of Subclavian-Axillary Approach with Percutaneous Technique Compared to Cutdown for Transcatheter Aortic Valve Replacement with SAPIEN 3 | jmmccabe@uw.edu |
| 509 | Nazif | Comparative Analysis of the Clinical Outcomes of the SAPIEN 3 Ultra and SAPIEN 3 Transcatheter Heart Valves (THV) | tnazif@gmail.com |
| 561 | Raj Makkar | Outcomes of Transcatheter Aortic Valve Replacement with a Balloon-Expandable Valve for Bicuspid vs Tricuspid Aortic Stenosis | Raj.Makkar@cshs.org |

NCDR

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| NCDR 0005 | Comparative Effectiveness of Carotid Artery Stenting and Carotid Endarterectomy Among Medicare Beneficiaries 2005-2009 | jessica.jalbert@la-ser.com |
| | CCF Update | aponirakis@acc.org |
| 7 | Developing Risk Prediction Models for AMI, PCI, and ICD Patients Using Novel Analytic Methods: Yale-BD2K Use Case | harlan.krumholz@yale.edu |