

# SCHOLARLY ACTIVITY IN THE HONORHEALTH CARDIOVASCULAR DISEASE FELLOWSHIP PROGRAM

## 2019-2021 EXECUTIVE SUMMARY

### Overview

Clinical training focused on medical knowledge alone is not sufficient to prepare Cardiovascular Disease (CVD) fellows for the practice of medicine. As part of improving their patient care, fellows must be well-versed in inquiry: research, quality improvement, leveraging human and electronic resources, and applying research findings to improve patient care.

The Scholarly Activity Program (SAP) for CVD provides fellows with a strong foundational skillset, ensuring their effectiveness in evaluating the care of the patient in terms of best practices and their proficiency in critical appraisal of peer-reviewed literature, which will help fellows develop a pattern of lifelong learning habits. Fellows learn principles of how research and Quality Improvement (QI) is conducted, evaluated, explained to patients, and applied to their patients' care. The Scholarly Activity Program is designed to fulfill the fellowship program's Practice-Based Learning goals. Scholarly activities of fellows and faculty are documented and assessed regularly as part of the Cardiovascular Disease Program evaluation and are also assessed through the annual Faculty and Fellows Survey.

This executive summary is organized into three parts. In Part I, scholarly activity processes and structures are identified and described. Part II provides details regarding resources in place to support scholarly research activities. Part III includes a list of recent faculty and fellow activities.

### PART I – Processes for Scholarly Activity & Research

The Scholarly Activity Program is administered through a variety of teaching strategies, including regular instruction through didactics sessions, engaged participation in QI or research projects, journal club, and presentations at fellowship-based conferences (M&M, Grand Rounds, etc). Fellows are also required to regularly submit scientific abstracts, posters and/or manuscripts to professional associations and publishers with the intent to present at conferences or publish in peer-reviewed journals. The sections below provide further details for each type of scholarly activity.

## Faculty Research and Scholarly Activity

Cardiology faculty are required to demonstrate involvement in CVD fellow scholarly activity by providing guidance and support to fellows and participating in clinical discussions and conferences. Faculty are responsible for committing and scheduling a portion of their time to supporting the scholarly activities of fellows. During such time, faculty may provide direct consultation and advisement on scholarly topics, the research process, or provide ongoing guidance throughout a project's entire timeline. Faculty may also select peer-reviewed and clinically significant research articles for fellows to review, appraise and present during journal club activities.

Faculty are also responsible for the development and implementation of their own scholarly activities in order to expand their own knowledge base and contribute to the body of literature in their specialties. To foster faculty interest and engagement in research, HonorHealth offers a faculty development series as well as workshops provided through the ResQIPS program (see below). In addition, teaching faculty will be required to participate in clinical discussions and conferences along with on-site faculty development and training. All faculty will be encouraged to participate in national and regional professional organizations.

## Grand Rounds

Each academic year, the HonorHealth Academic Affairs department sponsors a required bimonthly Grand Rounds series for all HonorHealth residents, fellows, and core faculty focusing on topics pertaining to the institution's clinical learning environment (CLE). These educational sessions cover a range of topics as defined in the ACGME Common Program requirements to ensure compliance and oversight of the clinical learning environment at both the institutional and program levels. Specific topics include patient safety event reporting and disclosure, fatigue mitigation/impairment, well-being, empathic communication, just culture, scholarly activity, diversity/equity/inclusion in the workplace, healthcare disparities, and professionalism. Topics are revised each academic year based upon the clinical learning environment experience and feedback from residents, fellows, and the sponsoring institution's academic affairs leadership.

In addition, HonorHealth offers several other Grand Round series (IM, FM etc) including a Cardiology Grand Rounds series. These series offer presentation opportunities for fellows and faculty in addition to lecture topics provided by local and regional experts. As of Spring 2021 the CVD series was approved to provide continuing medical education credit and opened to clinicians across the system in a live/virtual format. The series emphasizes best practices of current options in diagnosis, treatment, and prevention of cardiovascular disease, while enhancing patient satisfaction and outcomes.

## Case Conferences:

Case conferences offer fellows a unique opportunity to present and get input from their attending physicians and other faculty members.

Noninvasive case conference series: A monthly series where interesting imaging cases are brought by fellows for discussion. This includes pre-prepared case discussions with an attached review of literature and didactics created by the fellows for input by the faculty. This series has broad attendance, including ECHO staff, because it provides a unique opportunity to delve deeply into teaching images from recent cases (usually cases occurring during the prior month). Faculty and trainees are able to enhance their depth of understanding of the case and its broader applicability to HonorHealth's patient population through robust discussion of both image interpretation and the applicability of all imaging modalities, primarily echocardiography, to improving patient care.

Invasive case conference series: A monthly series where both interesting and routine catheterization/electrophysiology cases are presented by fellows and attendings for review. This conference started as a didactic conference created by the fellows with input from attendings, but has moved toward a series of interesting cases. The fellows now have a separate catheter conference for direct teaching. There remains a small didactic component with the case series — a ten to fifteen minute review of current literature and practice on a prepared case, but the series now focuses on an attending faculty discussion of imaging with Socratic questioning of the fellows. This has broad attendance including catheter lab staff.

## Journal Club

Journal club is designed to expand skills in appraisal and assimilation of evidence from scientific studies. It is a monthly, fellows-led, interactive session under the supervision of Core Faculty and faculty members with content expertise relevant to the topics chosen for presentation. Reading assignments and participation are mandatory. Journal club activities are intended to assist fellows in critically analyzing their own care against the most up-to-date information on diagnosis and treatment effectiveness.

## Cath Conference Series:

Biweekly conference where a specific invasive topic is prepared by a fellow with faculty support both before and during conference. This series is designed to give a forum where simple and complicated questions can be asked by the fellows and where new and seasoned learners are open discussion and question asking is encouraged. Conferences are run in a judgement-free way that allow identification of knowledge gaps or systems issues that, if unasked, could lead to suboptimal care.

## Morbidity and Mortality Conference

Fellows participate in interprofessional review of patient complications and discussion of action steps to prevent similar events in the future. Cases can include unexpected deaths, delay in care or diagnosis, procedural complication, avoidable medical events, or near miss events such as medication errors, lab events or errors, or failure to act. When appropriate Root Cause Analysis (RCA) is included as part of the discussion. During each session, the goals, guiding principles and privileged nature of the discussion and materials are introduced. Format includes timeline discussion and identification of cognitive errors, systemic errors, and solutions based on scientific evidence. Sessions are directed and supervised by a Board-Certified physician and focus is on education and potential patient care or system improvement. The discussion is summarized, and a list of action items or best practices may be developed.

## ResQIPS Curriculum and Workshop Series

HonorHealth has developed an innovative framework and curriculum called ResQIPS (Research, Quality Improvement and Patient Safety), linking education and support on research and QI/PS activities to scholarship, and with the intent of increasing scholarly projects and improving outcomes. ResQIPS is designed to support the advancement of research, quality improvement and scholarship for the network's medical residency and fellowship programs and, more broadly, across multiple disciplines in the network. The ResQIPS learning objectives are as follows:

- Design a significant clinical question that aligns with the ResQIPS Framework
- Describe the steps involved in conducting investigator-initiated human subject research & prepare for IRB application submission
- Use Quality data and tools to support practice or improvement initiatives
- Describe methodology and design considerations for QI and Research projects
- Identify tools, resources and mentors needed to support research activities
- Develop a scholarly project
- Collect and analyze data
- Disseminate findings through local, regional or national presentations and/or through peer-reviewed journal article publication

ResQIPS didactics include grand rounds presentations, faculty development sessions, workshops, 'snippet sessions' (short, 15-minute presentations on a research topic of interest), ResQIPS newsletters, 1:1 mentoring sessions, and statistical consultations. Fellowship/Residency, Faculty and IPE projects are showcased to the organization in poster and presentation sessions annually.

## Quality Projects & Teams

All fellows are required to participate in a quality team and/or a quality improvement project within the base hospital institution. Fellows complete CITI human subject protections training at the start of their fellowship and are trained regarding the organization's policies and processes for reporting medical errors and near misses. Quality projects focus on quality measures, patient safety, efficient workflows, improved patient outcomes, or risk management.

## National Conventions and Conferences

Fellows are expected to present a scholarly research project at a local, regional and/or national meeting. Presentations may include a published work, poster and/or podium presentation representing a research or QI project completed during their CVD fellowship. Presentations will be prepared under supervision of fellowship faculty and/or physician researcher.

Fellows' scholarly projects are frequently submitted to the annual "Academic Excellence Day", sponsored by the University of Arizona, College of Medicine Phoenix, which is designed for residents and fellows and includes poster and oral presentations of case reports and research projects. Selection of showcased projects is through a competitive abstract selection process overseen by the ResQIPS Director and her team. Those selected compete in poster and or/oral presentation competition that is judged by UA-College of Medicine faculty and invited GME faculty from various organizations.

## Fellows in a Teaching Role

Fellows have multiple opportunities to practice and develop their teaching skills. In addition to the teaching demands required from daily interaction with patients, families, and other health care professionals, fellows participate in leading interactive didactic sessions such as Grand Rounds or teaching a didactic session for one of the GME Residency Programs. Fellows also have opportunity to work closely with UA medical students, offering didactics and mentoring. Additionally, faculty model and mentor teaching skills on clinical rounds, in didactic sessions, through committee work, and in nearly all aspects of clinical practice for which they provide supervision. Fellows have numerous opportunities to teach and counsel patients. These interactions are frequently supervised by faculty, offering opportunities for feedback and improvement. As fellows advance, they are expected to take on a greater teaching role, including teaching or leading interactive didactic sessions in the CVD or other GME residency and fellowship programs.

Multiple tools are utilized to assess and provide feedback for improvement on skills at educating patients, families, students and peers. Faculty provide daily, face-to-face feedback on fellow teaching and counseling skills. Fellows incorporate this real-time feedback into their daily practice. At the conclusion of each rotation, fellows are evaluated by faculty in the six ACGME competencies, including issues relevant to their teaching performance. Fellows review these evaluations at the end of each rotation. Medical students complete an evaluation form of fellows involved in their instruction. Fellow peers are periodically called upon to evaluate each other. Skills at teaching are included in this

assessment. Finally, the faculty advisors and Program Director provide a semiannual Milestone review at which feedback from all these sources is provided. Fellows utilize this feedback to improve upon their teaching skills.

## Scholarly Research/QI Project

All fellows receive didactic training from research faculty on research methodology, study design, biostatistics, appraisal and application of evidence-based medicine, ethics in the context of research, developing research questions, and disseminating and presenting results of research projects. Fellows also attend HonorHealth's Research, Quality Improvement and Patient Safety sessions (ResQIPS) which are collaborative, interprofessional events planned by Academic Affairs, Quality, HonorHealth Research Institute, Nursing, Pharmacy and Library Services. Academic Affairs also subscribes to IHI Open School which offers QI and Patient Safety modules to the fellows. Fellows are encouraged to complete these modules during their fellowship and may be assigned one or more modules for completion as part of their didactics requirements, especially if deemed relevant to implementation of their scholarly project.

**SCHOLARLY RESEARCH PROJECT** Fellows are required to be actively working on a QI or research project throughout their fellowship program with the goal to complete a scholarly research project annually. Projects must be reviewed and discussed with the program director, mentor/advisor, ResQIPS Program Director or a faculty advisor. Appropriate timelines will be determined in order to complete QI project or research. Program Directors will not sign off on promotion and/or program graduation if QI or research projects are incomplete.

# PART II – Resources for Scholarly Activity & Research

## CVD Fellowship Program Resources

The CVD Fellowship Program provides access to HonorHealth resources and cardiovascular-specific resources including the American College of Cardiology’s self-assessment program (ACCSAP) which covers the entire field of adult clinical cardiology and includes all ACC Board review course lectures. Fellows and core faculty are also provided access to Cardiosource Plus which features a wealth of online resources, yearly highlights from ACC’s annual scientific session, guidelines, clinical topic lectures, tools and board preparation activities in general cardiology, adult congenital heart disease, heart failure, interventional cardiology, echocardiography, and nuclear cardiology.

Other program-specific resources include a Cardiovascular Disease Fellowship Resource guide (<https://azhin.org/honorhealth/rescv>) tailored to the program and curated by the HonorHealth librarians, and which includes specialty eJournals and eBooks, videos and podcasts, links to professional organizations, and other CVD resources housed together in one guide for ease of access.

Academic Affairs has purchased Bridge, a learning management system software for the administration, tracking, reporting and delivery of educational course content as well as training and development programs. This will offer additional resources and learning modules, most of which can be accessed “on demand” at a convenient time for busy fellows and faculty. Implementation will begin in July 2021.

*Also see Appendices A-C for Didactics, Conference and Cath Conference Schedules*

## HonorHealth Research Institute

The HonorHealth Research Institute (HRI) provides both institutional and scientific review for all research activities at the organization, including the scholarly projects of residents and faculty. All research performed at HonorHealth is based on scientific principles and carried out using the highest quality standards. The HRI assists in setting the standard for excellence in personalized healthcare by developing a culture of inquisitiveness, leading to the provision of the best evidence-based medicine to patients and the community. HRI provides the following:

- research administration staff responsible for ensuring that all research performed at HonorHealth is in compliance with relevant state and Federal requirements and that it fulfills the HonorHealth mission;
- documentation to guide researchers through the process of both investigator- and sponsor- initiated studies;
- guidance on scientific and institutional review board submissions;
- access to human subject protections training;
- access to local resources, including statisticians and other personnel experienced in research;

- Office of Sponsored Programs (OSP), which is responsible for supporting researchers in the identification and submission of grants.

## HonorHealth Library Resources

**ACCESSIBILITY** HonorHealth Osborn Medical Center, Shea Medical Center and John C Lincoln Medical Center libraries provide 24/7 access to single workstations as well as meeting/collaboration space. In 2021 at Thompson Peak Medical Center, a physical library site will be incorporated into a new Learning and Simulation Center at that campus. The libraries also maintain a Web-based library portal which is available on-site through the employee intranet and off-site through Athens (authentication software). Librarians provide mobile app support for several key resources:

- UpToDate clinical decision support system
- Elsevier's ClinicalKey resource which contains the FirstConsult clinical decision support system along with thousands of high-impact electronic textbooks and journals, practice guidelines, over 340 procedure/skills videos, image library and PresentationMaker component to support presentations
- Micromedex drug information, IV compatibilities, drug/herbal/food interactions, other pharmaceutical tools & calculators; also includes Pediatric Essentials & NeoFax Essentials
- Access Medicine and Access Emergency Medicine series

**LIBRARIAN SUPPORT** A wide range of library services are provided by the HonorHealth librarian team, which consists of 4.0 FTE American Library Association accredited medical librarians. Outside of physically staffed hours at each location, librarians can be emailed or contacted by phone at the health science library locations.

Personalized services available at HonorHealth libraries include:

- Mediated (librarian-assisted) literature searching using databases and search engines that access published and unpublished evidence (results delivered with 48 hours of receiving request)
- Mediated "state of the science" literature reviews, including a synopsis of findings and critical appraisal of the literature, to support patient care needs
- Mediated searching for acute & chronic disease management and general health & wellness information for patients & families (results delivered within 48 hours of receiving request)
- Research consultations, including research question brainstorming and development using the PICOT algorithm, identification of appropriate resources for searching, search strategy development and database manipulation guidance
- Citation management, presentation and publishing support, including identification of appropriate journals to consider for submission and formatting, reference lists and footnoting support according to publisher's instructions for authors.
- Document retrieval & delivery (delivery frequently same-day, otherwise 1-3 days of receiving



request)

- One-on-one and small group training on all library databases & tools, ranging from quick overviews of resources & research tools to advanced/expert search strategy training
- Technical assistance and training for the UpToDate clinical decision website and mobile app, the ClinicalKey site and mobile app, and the Micromedex suite and mobile apps.
- Meeting and collaboration space which includes a large conference table with electrical outlets
- Provision of reliable, easy-to-read, evidence-based consumer health & wellness resources for patients & families as well as for residents & faculty as they communicate with and educate their patients
- Health literacy consultation services, including review of proposed patient education & discharge instructions and recommendations to improve readability and comprehension, which improves patient outcomes overall and reduces hospital readmissions

**CONTENT** HonorHealth Library Services provide access to numerous print & electronic resources. Many have been acquired through membership to the Arizona Health Information Network (AZHIN), a statewide consortium uniting communication technology and resource access in the Arizona health care and health education communities. Other resources are acquired through Library Service's operation budget and HonorHealth Foundation funding. Resources include:

- Evidence-based medicine (Cochrane Library, Access Medicine, UpToDate, FirstConsult)
- Journal literature databases (PubMed, Ovid Medline, Ebsco Medline with Full Text, CINAHL Complete, Health Business Elite)
- Research and scholarly project tools (research instruments/scales, theses/dissertations)
- Faculty resources (ProceduresConsult, Teacher Reference Center)
- eBooks, Full-text (ClinicalKey, Access Medicine and EM, TDS (formerly STAT!Ref), Ovid Books)
- eJournals, Full-text (JAMA and JAMA Archives, Lancet, NEJM, and thousands more through Medline with Full Text, CINAHL Complete, ClinicalKey and other database collections)
- Drug information (Micromedex and Lexi-Comp via UpToDate)

*See Appendix D for detailed descriptions of these resources.*

# PART III – Inventory of Scholarly Activities

## Fellow Activities

### QI/Research Project Table and Projects in Development

1=Project Identified, 2=Literature review, 3=Proposal development, 4=Data collection and analysis, 5=Presentation/publication

NOTE: Some projects span more than one academic year (AY) cycle; Fellow PGY (column 2) may thus reflect both the AY that the project began and his/her current AY if the project is continuing

Trainee Name	PGY Year	Scholarly Project Title	Mentor	Completion Date
Pathak, S.	PGY 5	<p><b>Improving utilization of Intracoronary Imaging/hemodynamics</b></p> <p>PHASE 1</p> <p><u>Objective/Methodology:</u> improve utilization of intracoronary hemodynamic testing and/or intracoronary imaging within HonorHealth by 15% through in person meetings with interventionalists to discuss intracoronary imaging tools and rational for use. Telephonic follow-ups with providers as needed.</p> <p><u>Rationale:</u> Studies (FAME 2 trial, DEFINE FLAIR, iFR- SWEDEHEART) have shown favorable outcomes when percutaneous coronary intervention (PCI) are driven by intracoronary hemodynamic monitoring such as Fractional Flow Reserve (FFR), iFR (instantaneous wave free ratio). Recent trials like IVUX -XPL, Ultimate and ILUMIEN I and II have shown advantage of intracoronary imaging in PCI. Use of intracoronary imaging helps to better define lesion characteristics, assess angiographically indeterminate lesions, identify edge dissection, define mechanism of stent thrombosis, detect stent under expansion, properly size stent and optimize stent deployment.</p> <p><u>Phase 1 Results:</u> Prior to this intervention, the rate of utilization of these hemodynamic modalities were 47.57 %. Preliminary data from 08/2021 shows that the rate has now increased to 65.86%. This is an increase of 20.29% from last year.</p>	Bimal Padaliya, MD	<p>Phase one completed</p> <p>Data Collection from 4/1/2020-9/30/2021; Intervention began 1/1/21.</p>
Pathak, S	PGY5/6	<p><b>Improving utilization of Intracoronary Imaging/hemodynamics</b></p> <p>PHASE 2</p> <p><u>Proposal:</u> The second phase of this project aims to ensure that not only these tests are utilized but are done well. The ULTIMATE trial investigators did show advantage of optimal vs suboptimal IVUS directed PCI. A significant reduction in 3-year target vessel failure was observed for IVUS defined optimal vs suboptimal procedures. In order to ensure optimal imaging PCI, we are proposing starting real time intracoronary imaging consult.</p>	Bimal Padaliya, MD	1,2,3

Trivedi, R.	PGY5	<p><b>First Experience with the Lotus Edge fully repositionable and retrievable transcatheter aortic valve</b></p> <p><u>Objective:</u> Implement a retrospective review on Lotus (Boston Scientific) TAVR outcomes in the bicuspid valve population treated at HonorHealth and analysis of implications for this population beyond institution</p> <p><u>Methodology/Results:</u> Single center retrospective review. Results: At 6 months in both tri-leaflet as well as the bicuspid population in this TAVR platform, there was no mild or greater paravalvular leak (PVL). These results provide data re: ho to best treat this population within HonorHealth system and as a whole.</p> <p><b>Poster Presentation:</b> Academic Excellence Day, May 2021</p>	David Rizik, MD	1,2,3,4,5
Trivedi, R and Akella, K	PGY5/6 PGY4/5	<p><b>Comparative Safety and Effectiveness of Self-, Balloon- and Mechanically- Expanded Transcatheter Aortic Valves – Research study</b></p> <p><u>Project/Methodology:</u> Retrospective Review of all patients (290+ patients) over 2.5year period at HonorHealth systems undergoing TAVR interventions and evaluated and compared outcomes to determine safety and effectiveness of the various valve types in a single center practice.</p> <p><b>Presentation:</b> Preliminary data presented at ACC 2021 Scientific Sessions. Data analysis continues pending publication</p>	David Rizik, MD	1,2,3,4,5 although final data analysis continues pending submission for publication
Trivedi, R	PGY5/6	<p><b>Physiologic Pacing Post TAVR for new onset Left Bundle Block Branch ( LBBB)</b></p> <p><u>Proposal:</u> Single center prospective pilot study (50 patients) to assess the effectiveness of physiologic pacing in the post-TAVR population by comparing the outcomes of physiologic vs. standard right ventricular pacing.</p>	Rahul Doshi, MD	1,2 3 (IRB submission in process)
Trivedi, R	PGY5/6	<p><b>Heart Failure therapy optimization using Zoll LifeVest remote monitoring Heart rate and biometric data</b></p> <p><u>Objective/Methodology:</u> Single-center prospective trial (100 patients), comparing frequent heart failure GDMT optimization using Zoll LifeVest heart rate and biometric data versus standard outpatient heart failure management. Through data collected in this pilot study, the researchers hope to identify more efficient treatment and to optimize heart failure management in this high risk population. Secondly, the study results will facilitate early identification of the subset of patients who may most benefit from ICD implantation.</p> <p><u>Rationale:</u> Utilization of remote biometric data to monitor and treat cardiovascular diseases has become increasingly popular given the ease, availability, and chronicity of outpatient monitoring. Improvement in heart failure readmission and cardiac morbidity and mortality in patients with close outpatient follow-up have been well proven. This is none more important than in the acute cardiomyopathy population discharged with a wearable cardioverter defibrillator. Despite best efforts a large number of patients proceed to require ICD implantation beyond 90 days.</p>	Mayurkumar Bhakta, MD	1,2,3 (IRB submission completed and pending review and approval)

Akella, K.	PGY4/5	<p><b>Predictors of Increased Perioperative Cardiac Risk in Trauma Patients</b></p> <p><u>Objective/Methodology:</u> Prospective pilot study to confirm trauma cardiac outcome predictors described in literature and propose a predictive point-based scoring system discerning cardiac risk in trauma patients.</p> <p><u>Rationale:</u> Traumatic injury is a uniquely complex sub-group among surgical patients. The resulting physiologic stress commonly strains the cardiovascular system, predisposing patients towards cardiac arrest and higher mortality. Studies investigating this suggest that trauma patients have a higher incidence of intraoperative cardiac arrest and at least twice the mortality of elective surgical patients. Despite this population being higher risk, standard perioperative cardiac risk assessment is used.</p>	Mayurkumar Bhakta, MD	1,2,3 (IRB submission in process)
Akella, K	PGY4/5	<p><b>Convergent Procedure for Management of Persistent Atrial Fibrillation</b></p> <p><u>Objective:</u> Pilot study to determine if a convergent hybrid ablation procedure is associated with favorable outcomes in persistent atrial fibrillation management.</p> <p><u>Rationale:</u> Management of persistent atrial fibrillation is complex and generally fails to respond well to traditional ablation strategy using pulmonary vein isolation. The convergent procedure is a hybrid atrial fibrillation ablation strategy involving the epicardial and endocardial posterior wall and pulmonary vein isolation, sometimes performed with concurrent left atrial appendage exclusion.</p>	Rahul Doshi, MD	1,2,3 (IRB submission in process)
LaVigne, Parker	PGY4/5	<p><b>Heart failure care pathway development for Home Health</b></p> <p><u>Objective:</u> Reduce 30-day readmission rate through improved patient heart failure education</p> <p><u>Methodology:</u> Collaborative project with nursing staff to develop a 9 visit (virtual and physician) home health education program to educate patients on various dynamics of heart failure. Curricula includes education focused on medication management, volume status, nutrition/low salt diets, and heart failure emergencies.</p>	Craig Peters, MD Interdisciplinary QI project with Nursing Staff	1,2,3 Curricula development phase completed (3/21-8/21)
Taranto, L	PGY4 as of 7/2021	<p><b>Optimizing EKG uploads from the ED within the HonorHealth System</b></p> <p><u>Project description/Rationale:</u> Project scope includes a review of the system process of acquiring and uploading an EKG from start to finish, analysis and optimization of the process through quality improvement and systems engineering, with a goal of achieving a sustained state of ED EKG upload time of less than 20 min from time of acquisition to time in EMR, for 90%+ of all ED EKGs acquired. Teamed with Clinical Systems team for implementation. Data analysis continues to assess changes to system and impact of these changes on EKG upload times.</p>	Nikhil Iyengar, MD Previous mentor: Rustin Sharer, MD (IM)	1,2,3,4

1=Project Identified, 2=Literature review, 3=Proposal development, 4=Data collection and analysis, 5=Presentation/publication

**PRESENTATIONS/POSTERS/ABSTRACTS**

<b>Trainee Name</b>	<b>PGY</b>	<b>Scholarly Project Title</b>	<b>Completion Date</b>
LaVigne, P.	PGY4	Presentation: LaVigne, P. "Renal Artery Stenosis". HonorHealth, Scottsdale AZ. June 4, 2021.	06/04/21
Pathak, S.	PGY5	Presentation: Pathak, S. "Patient XXX". M&M, HonorHealth. Scottsdale, AZ. May 27, 2021.	05/27/21
Pathak, S.	PGY5	Presentation: Pathak, S. "Systemic Right Ventricle". Case Presentation. HonorHealth, Scottsdale AZ. May 27, 2021.	05/27/21
LaVigne, P.	PGY4	Presentation: LaVigne, P. "Cath Conference Anomalous Coronary". HonorHealth, Scottsdale AZ. May 20, 2021.	05/20/21
Trivedi, R.	PGY5	Presentation: Trivedi, R. "Challenging Cases in COVID". ACC Scientific Sessions, Atlanta, GA. May 17, 2021.	05/17/21
Trivedi, R.	PGY5	Presentation: Trivedi, R. "Thrombosis Challenges in COVID: Practical Considerations in Evaluation and Management". ACC Scientific Sessions, Atlanta, GA. May 17, 2021.	05/17/21
LaVigne, P.	PGY4	Presentation: LaVigne, P. "Hypertrophy Cardiomyopathy". HonorHealth, Scottsdale AZ May 6, 2021.	05/06/21
LaVigne, P.	PGY4	Presentation: LaVigne, P. "Heart Failure". HonorHealth, Scottsdale AZ May 4, 2021.	05/04/21
Pathak, S.	PGY5	Presentation: Pathak, S. "Patient XXX". M&M, HonorHealth. Scottsdale, AZ. April 22, 2021.	04/22/21
LaVigne, P.	PGY4	Presentation: LaVigne, P. "Infective Endocarditis". HonorHealth, Scottsdale AZ March 19, 2021.	03/19/21
Pathak, S.	PGY5	Presentation: Pathak, S. "Left Main Dissection". SIF Case Presentation. HonorHealth, Scottsdale AZ, March 12, 2021.	03/12/21
LaVigne, P.	PGY4	Presentation: LaVigne, P. "Patient XXX". M&M, HonorHealth. Scottsdale, AZ. February 25, 2021.	02/25/21
LaVigne, P.	PGY4	Presentation: LaVigne, P. "Impella Indications." HonorHealth, Scottsdale AZ, February 5, 2021.	02/05/21
Pathak, S.	PGY5	Presentation: Pathak, S. "Mitral Clip". Echo Conference. February 4, 2021.	02/04/21
LaVigne, P.	PGY4	Presentation: LaVigne, P. Cath Conference. HonorHealth. Scottsdale, AZ. January 21, 2021.	01/21/21
LaVigne, P.	PGY4	Presentation: LaVigne, P. Echo Conference. HonorHealth. Scottsdale, AZ. January 7, 2021.	01/07/21
Pathak, S.	PGY5	Presentation: Pathak, S. "Bifurcation lesions". Cath Conference. HonorHealth. Scottsdale, AZ. December 11, 2020.	12/11/20
LaVigne, P.	PGY4	Presentation: LaVigne, P. Left Main Interventions. HonorHealth. Scottsdale, AZ. December 4, 2020.	12/04/20
Pathak, S.	PGY5	Presentation: Pathak, S. "Strain Imaging". Echo Conference. HonorHealth. Scottsdale, AZ. November 5, 2021.	11/05/20
LaVigne, P.	PGY4	Presentation: LaVigne, P. "Heart Failure". HonorHealth. Scottsdale, AZ. November 2, 2020.	11/02/20
Pathak, S.	PGY5	Presentation: Pathak, S. "OCT/IVUS". Cath Conference. HonorHealth. Scottsdale, AZ. October 30, 2020.	10/30/20
LaVigne, P.	PGY4	Presentation: LaVigne, P. "Patient XXX". M&M, HonorHealth. Scottsdale, AZ. October 22, 2020.	10/22/20
LaVigne, P.	PGY4	Presentation: LaVigne, P. Interventional Tools. HonorHealth. Scottsdale, AZ. October 16, 2020.	10/16/20
LaVigne, P.	PGY4	Presentation: LaVigne, P. Cath Conference. HonorHealth. Scottsdale, AZ. September 17, 2020.	09/17/20
Pathak, S.	PGY5	Presentation: Pathak, S. "Hemodynamics". Cath Conference. HonorHealth. Scottsdale, AZ. September 4, 2020.	09/04/20
LaVigne, P.	PGY4	Presentation: LaVigne, P. "Angiographic Views". HonorHealth. Scottsdale, AZ. August 21, 2020.	08/21/20

Pathak, S.	PGY5	Presentation: Pathak, S. "Valve in Valve TAVR vs Redo AVR". Multidisciplinary Cath Conference. HonorHealth. Scottsdale, AZ. August 20, 2020.	08/20/20
LaVigne, P.	PGY4	Presentation: LaVigne, P. Echo Conference. August 6, 2020. HonorHealth. Scottsdale, AZ.	08/06/20
Trivedi, R.	PGY5	Presentation: Trivedi, R. "Heart Failure Diagnosis and Management". Cardiology Lecture. University of Arizona School of Medicine. (2020, June 30).	06/30/20
Trivedi, R.	PGY5	Presentation: Trivedi, R. "Pulmonary Embolism – Treatment and Cases". M&M. (2020, June 25).	06/25/20
Pathak, S.	PGY5	Presentation: Pathak, S. "Sub-massive PE". M&M Conference. (2020, June 25).	06/25/20
Pathak, S.	PGY4	Presentation: Pathak, S. "ASD". Echo Lecture Series. (2020, June 4).	06/04/20
Trivedi, R.	PGY5	Presentation: Trivedi, R. "Constrictive Pericarditis". CATH Conference. (2020, June 18).	08/18/20
Pathak, S. Trivedi, R.	PGY5 PGY5	Presentation: Pathak, S., Trivedi, R. "Out of the Hospital Cardiac Arrest". M&M, HonorHealth. Scottsdale, AZ. June 23, 2020.	07/23/20
Pathak, S.	PGY5	Presentation: Pathak, S. "SVG PCI, Aspiration thrombectomy". Cath Conference. HonorHealth. Scottsdale, AZ. July 16, 2020.	07/16/20
Trivedi, R.	PGY5	Presentation: Trivedi, R. "Dynamic LVOT Obstruction". Echo Conference. HonorHealth. Scottsdale, AZ. June 2, 2021.	07/02/20
Pathak, S.	PGY4	Abstract Presentation: Pathak, S., Trivedi, R., Lui, C., et al. "Heart Break From Headache: Triptan Induced Takotsubo Cardiomyopathy". (2020, May 6).	05/06/20
Trivedi, R.	PGY4	Presentation: Trivedi, R. "Cardiology: Heart Failure Lecture". University of Arizona School of Medicine. (2020, May 5).	05/05/20
Trivedi, R.	PGY4	Presentation: Trivedi, R. "Endocarditis". ECHO Conference. (2020, March 5).	03/05/20
Trivedi, R.	PGY4	Presentation: Trivedi, R. "Cardiovascular & ICU M&M – MINOCA". M&M. (2020, February 27).	02/27/20
Trivedi, R.	PGY4	Presentation: Trivedi, R. "Iliofemoral PCI Complications". Vascular M&M. (2020, February 17).	02/17/20
Pathak, S.	PGY5	Presentation: Pathak, S. "Intracardiac Mass". Echo Lecture Series. (2020, February 6).	02/06/20
Trivedi, R.	PGY5	Presentation: Trivedi, R. "Cardiovascular & ICU M&M – Late STEMI presentations". M&M. (2020, January 23).	01/23/20
Pathak, S.	PGY5	Presentation: Pathak, S., Iyengar, N., Reuss, C. "AD". Mortality and Morbidity Conference. (2020, January 23).	01/23/20
Pathak, S.	PGY5	Presentation: Pathak, S., Storch, D. "Heart Blocks". Noon Resident Teaching. (2020, January 23).	01/23/20
Pathak, S.	PGY5	Presentation: Pathak, S., Storch, D. "SVT". Noon Resident Teaching. (2020, January 20).	01/20/20
Trivedi, R. Pathak, S.	PGY5	Presentation: Trivedi, R., Pathak, S., Reuss, C. "PCI Mortality". Cardiovascular M&M. (2019, December 19).	12/19/19
Pathak, S.	PGY5	Presentation: Pathak, S. "Vascular Closure Device". M&M Conference. (2019, December 19).	12/19/19
Pathak, S.	PGY5	Abstract Presentation: Pathak, S. "Cardiac Risk Assessment in American South Asian". Online Journal of Cardiovascular Research. (2019, December 2).	12/02/19
Trivedi, R.	PGY5	Presentation: Trivedi, R. "ACS". IM Morning report – Cardiology – ACS. (2019, October 04).	10/04/19
Trivedi, R.	PGY5	Presentation: Trivedi, R. "CAD". IM Morning Report – Cardiology (2019, October 02).	10/02/19

## PUBLISHED JOURNAL ARTICLE/ABSTRACT

Trainee Name	PGY	Scholarly Project Title	Completion Date
Trivedi, R.	PGY5	Trivedi R, Akella K, Burke R, et al. "Comparative Safety and Effectiveness of Self-, Balloon- and Mechanically-Expanded Transcatheter Aortic Valves". Abstract submitted. May 25, 2021.	May 2021
Pathak, S.	PGY5	Umukoro PE, Yeung-Lai-Wah P, Pathak S, et al. "Three-Year Survival after Transcatheter Aortic Valve Replacement: Findings from the Marshfield Aortic Valve Experience (MAVE) Study". Clin Med Res. 2021 Mar;19(1):10-18.	Mar 2021
Trivedi, R.	PGY5	Trivedi R, Pathak S, Iyengar N, et al. "Cardiac Risk Assessment in American South Asian Population". Online Journal of Cardiovascular Research. Nov 2019; 3(2)	Nov 2019
Trivedi, R.	PGY5	Trivedi R, Doshi R. "New onset left bundle branch block in post-operative Transcatheter Aortic Valve Replacement: To pace, or not to pace?". EP Lab Digest 2020 Mar.	Mar 2020

## FELLOWSHIP BASIC SCIENCE CONFERENCE

Trainee Name	PGY	Scholarly Project Title	Completion Date
Trivedi, R.	PGY5	Rizik D, Trivedi R, Burke R, et al. First experience with the Lotus Edge fully repositionable and retrievable transcatheter aortic valve. HonorHealth Research Institute. (2020, March 4).	03/04/20
Trivedi, R.	PGY5	Trivedi, R. Doshi, R. Physiologic Pacing Post TAVR for new LBBB. (2020, April 8).	04/08/20
Trivedi, R.	PGY5	Trivedi R, Rizik D. TAVR Registry. HonorHealth Research Institute. (2020, April 1).	04/01/20

## PROFESSIONAL ACTIVITIES/COMMITTEES

Resident Name	PGY Year	Scholarly Project Title	Completion Date
Trivedi, R.	PGY5	PEC Committee	2020 – 2021
Pathak, S.	PGY5	Wellbeing Committee	2020 – 2021

## Faculty Activities

### PRESENTATIONS/POSTERS/ABSTRACTS

Faculty Name(s)	Scholarly Project Title	Completion Date
LeMond, L.	Presentation: LeMond, L. "Palliative care and End of Life in Heart Failure". Oregon ACC. April 2021.	Apr 2021
LeMond, L.	Presentation: LeMond, L. "Compassion in End-of-Life Care". Gold Humanism Honor Society Solidarity Week, University of Arizona College of Medicine, Phoenix, AZ. Feb 2021.	Feb 2021
Doshi, R.	Presentation: Doshi, R. "How Remote Monitoring Improves Outcomes". Annual Heart Rhythm Society 2021	2021
Doshi, R.	Presentation: Doshi, R. "Arrhythmic Risks Thyroid Medications". Annual Heart Rhythm Society 2021	2021
Doshi, R.	Presentation: Doshi, R. "Post PVI Flutters missing pieces - substrate or the epicardium?" Annual Heart Rhythm Society Meeting 2021 (Joint Session LAHRS)	2021
Doshi, R.	Presentation: Doshi, R. "Pacing in the Elderly: Unmet Needs". JIC 2021, Ahmedabad, India	2021
Doshi, R.	Presentation: Doshi, R. "Remedy implant". Scottsdale Interventional Forum, Scottsdale, AZ. 2021	2021
Doshi, R.	Presentation: Doshi, R. "LAA Occlusion". Scottsdale Interventional Forum, Scottsdale, AZ. 2021	2021
Doshi, R.	Presentation: Doshi, R. "LAA Occlusion: Do NOACS change the Equation?" Scottsdale Interventional Forum, Scottsdale, AZ. 2021.	2021
Doshi, R.	Presentation: Doshi, R. "Closing the Appendage for Persistent LAA Clot". WAF Meeting, Park City, UT. 2021.	2021
Doshi, R.	Presentation: Doshi, R. "Familial Sudden Cardiac Death Syndromes: Cardiology". Grand Rounds, HonorHealth, Scottsdale, AZ.	2021
Franklin, WJ.	Presentation: Franklin WJ. "Adult Congenital Heart Disease: The Basics". Cardiology Fellows' Noon Conference. Banner UMC. October 2020.	Oct 2020
Franklin, WJ.	Presentation: Franklin WJ. "Heart Disease for OB-GYNs: From Contraception to Pregnancy". Phoenix OB-GYN Society. Phoenix, AZ. September 2020.	Sep 2020
Franklin, WJ.	Presentation: Franklin WJ. "Syncope: A Review for Pediatricians". Phoenix West Valley – Pediatricians. August 2020.	Aug 2020
Franklin, WJ.	Presentation: Franklin WJ. "Heart Disease in Pregnancy, Part III: Mythbusters". Didactic Lecture to Fellows in Maternal-Fetal Medicine, Banner University Medical Center. Phoenix, AZ. June 2020.	Jun 2020
Franklin, WJ.	Presentation: Franklin WJ. "Pulmonary Hypertension in Adult Congenital Heart Disease". Visiting Professor and Grand Rounds. Massachusetts General Hospital, Division of Cardiology. Zoom Videoconference, 139 Participants. Boston, MA. May 2020.	May 2020
Franklin, WJ.	Presentation: Franklin WJ. "Heart Disease in Pregnancy, Part II". Didactic Lecture to Fellows in Maternal-Fetal Medicine, Banner University Medical Center. Phoenix, AZ. May 2020.	May 2020
Franklin, WJ.	Presentation: Franklin WJ. "Heart Disease in Pregnancy", The 40th Pregnancy Conference of the Society for Maternal-Fetal Medicine. Dallas, TX. February 2020.	Feb 2020
Doshi, R.	Presentation: Doshi, R. "Left Atrial Appendage Closure". Scottsdale Interventional Forum, Scottsdale, AZ. 2021.	2020
Doshi, R.	Presentation: Doshi, R. "Speed Talks/Device Therapy". Moderator 2020 Stanford Biodesign, Stanford, CA	2020
Doshi, R.	Presentation: Doshi, R. 13th Annual Western Atrial Fibrillation, Park City, UT. 2020.	2020
Franklin WJ	Presentation: Franklin WJ. "Stenotic and Regurgitant Lesions in Pregnancy". 10th Annual Fetal Cardiology Symposium at Phoenix Children's Hospital. Scottsdale, AZ. November 2019.	Nov 2019
Franklin WJ	Presentation: Franklin WJ. "Visiting Professor and Luis Cibils Guest Lecturer in Obstetrics and Gynecology". Congenital Heart Disease in Pregnancy. University of Chicago. Chicago, IL. Oct 2019.	Oct 2019



Franklin WJ	Presentation: Franklin WJ. "Heart Disease in Pregnancy". Department of Obstetrics and Gynecology, Noon Conference. Banner-University Medical Center. Phoenix, AZ. July 2019.	Jul 2019
Franklin, WJ.	Abstract Presentation: Maenchen M, Franklin WJ, Plasencia J, Pophal S. The Use of 3-D Modeling in Cardiac Tumor Surgical Approach. Western Society of Pediatric Cardiology. Las Vegas, NV. June 2019.	Jun 2019
Franklin WJ	Presentation: Franklin WJ. "Adult Congenital Heart Disease: What Every Clinician Needs to Know". Department of Medicine, Grand Rounds. University of Arizona-College of Medicine-Phoenix. Phoenix, AZ. May 2019.	May 2019
LeMond, L.	Presentation: LeMond, L. "Heart Failure in Women". Mayo Clinic Annual Women's Health Update. March 2019.	Mar 2019
	Presentation: Reuss, CS. "Updates in Cardiology 2019: The Game Changers". Thompson Peak Leadership Council, HonorHealth Foundation, Scottsdale, AZ. March 2019.	Mar 2019
Reuss, CS.	Presentation: Reuss, CS. "Heart Disease: A Woman's View". Mended Hearts, Women and Heart Disease Awareness Talk, Feb 26, 2019.	Feb 2019
Doshi, R.	Presentation: Doshi, R. Asia Pacific Heart Rhythm Society, Bangkok, Thailand. 2019.	2019
Doshi, R.	Presentation: Doshi, R. "Phrenic Nerve Stimulation for Treatment of Central Sleep Apnea" California Sleep Society Annual Meeting, San Francisco, CA. 2019.	2019
Doshi, R.	Presentation: Doshi, R. 24th Annual International Atrial Fibrillation Symposium, Boston, MA. 2019. Thailand	2019
Doshi, R.	Presentation: Doshi, R. 12th Annual Western Atrial Fibrillation Symposium, Park City, UT. 2019.	2019
Lui CG.	Presentation: Lui, CG. "CTO Intervention". Northwell Health Cardiovascular Fellows Course, Los Vegas, NV. 2019.	2019
Doshi, R.	Presentation: Allam S, Reddy R, Valladares E, et al. "Long Obstructive Sleep Apneas as a Biomarker of Atrial Fibrillation". European Society Congress, Paris, France 2019.	2019
Doshi, R.	Presentation: Defaye P, Neuzil P, Guerrero JG, et al. "Device Malfunctions of The Nanostim Leadless Pacemaker In The Worldwide Trial Experience". Heart Rhythm Society Annual Scientific Sessions, San Francisco, CA 2019.	2019
Doshi, R.	Presentation: Doshi R, Akash R. "Vacuum-Assisted Vegetation Removal Prior to Percutaneous Lead Extraction: A Meta-Analysis". ACC, New Orleans, LA 2019	2019
Doshi, R.	Presentation: Doshi R, Chin L, Akash R. "Ventricular Pacing Entirely Through the Coronary Sinus After Surgical Tricuspid Valve". ACC, New Orleans, LA 2019	2019
Doshi, R.	Presentation: Reddy P, Valladares EM, Patel K, et al. "Measuring Obstructive Sleep Apnea Impact on Cardiac Conduction: Creating the ECG Apnea Score". American Heart Association November 2018.	Nov 2018
Franklin WJ	Presentation: Franklin WJ. Visiting Professorship: Balance and Diversity in Academic Pediatric Cardiology. "How (and Why!) did I make a Mid-career Move?" UC San Francisco, CA. October 2018.	Oct 2018
Franklin WJ	Presentation: Franklin WJ. Visiting Professorship: Balance and Diversity in Academic Pediatric Cardiology. "Heart Failure in Adult Congenital Heart Disease" UC San Francisco, CA. October 2018.	Oct 2018
Franklin WJ	Presentation: Franklin WJ. Visiting Professorship: Balance and Diversity in Academic Pediatric Cardiology. "Work-Life Balance in Academics: Is it a Unicorn?" UC San Francisco, CA. October 2018.	Oct 2018
Franklin WJ	Presentation: Franklin WJ. "Heart Failure in Adult Congenital Heart Disease: Keynote Address". Stanford University Medical Center. 3rd Annual CME Conference on Adult Congenital Heart Disease. Palo Alto, CA. September 2018.	Sep 2018
LeMond, L.	Presentation: LeMond, L. "Contract Negotiations: Values, Priorities, Parity and Start-Ups". HFSA National Meeting. September 2018.	Sep 2018
LeMond, L.	Presentation: LeMond, L. "LVAD Complications". HFSA National Meeting. September 2018.	Sep 2018
LeMond, L.	Presentation: LeMond, L. "Remote monitoring" HFSA National Meeting. September 2018.	Sep 2018
LeMond, L.	Presentation: LeMond, L. "Troubleshooting the Durable LVAD" HFSA National Meeting. September 2018.	Sep 2018
Franklin WJ	Abstract Presentation: Salciccioli KB, Ermis PR, Franklin WJ, et al. "GPS Mapping of Adolescent Congenital Heart Disease Patients at a Pediatric Cardiology Clinic". Young Investigator Award at Pediatric Cardiology review Course by Children's Hospital of Philadelphia. Philadelphia, PA. April 2018.	April 2018

Padaliya, B.	Presentation: Padaliya, B. "Bifurcation PCI with IVUS". Society for Cardiovascular Angiography & Interventions 2018.	April 2018
Reuss, CS.	Presentation: Reuss, CS. "Health Care for Woman Over 40". Wigwam Resort, Litchfield Park, AZ. May 18, 2018	May 2018
Franklin WJ	Presentation: Franklin WJ. "Everyday Management in Adult Congenital Heart Disease". Section of Pediatric Cardiology/Adult Congenital. American College of cardiology, Scientific Sessions. Orlando, FL.	Mar 2018
LeMond, L.	Presentation: LeMond, L. "Inpatient Management of Heart Failure". 6 <sup>th</sup> Annual Acute Care of the Hospitalized Patients for NPPAs. February 2018	Feb 2018
LeMond, L.	Presentation: LeMond, L. "Heart Failure Update". Mayo Clinic Internal Medicine Update. 2018.	2018
Doshi, R.	Presentation: Doshi, R. Dept. of Medicine Resident Core Curriculum Lecture Series. 2018.	2018
Doshi, R.	Presentation: Doshi, R. "The Channelopathies", Dept. of Medicine Resident Core Curriculum Lecture Series. 2018.	2018
Doshi, R.	Presentation: Doshi, R. "Leadless Pacing", Heart Rhythm Society Annual Scientific Sessions. 2018.	2018
Doshi, R.	Presentation: Doshi, R. "Maximizing CRT", Heart Rhythm Society Annual Scientific Sessions. 2018	2018
Doshi, R.	Presentation: Doshi, R. "Epidemiology/Ablation of Atrial Fibrillation" 2018.	2018
Doshi, R.	Presentation: Kita K, Carlson SK, Huntsinger M, et al. "Pitfalls with Concomitant Left Atrial Appendage Occlusion and Ablation". Asia Pacific Heart Rhythm Society, 2018.	2018
Doshi, R.	Presentation: Patel S, Lee C, Kita K, et al. "Cardiac Resynchronization Therapy Entirely Through Coronary Sinus". Asia Pacific Heart Rhythm Society, 2018.	2018
Doshi, R.	Presentation: Sarcon A, Roy D, Ramos M, et al. "Leadless Pacemakers for Syncope Associated with Bradycardia: A Retrospective Analysis of 954 Patients". Asia Pacific Heart Rhythm Society, 2018.	2018
Doshi, R.	Presentation: Do K, Kiankhooy A, Lee C, et al. "Sub-Sternal ICD Lead Placement: A Case Report of Revision of a Subcutaneous ICD Lead to the Sub-Sternal Position." Asia Pacific Heart Rhythm Society, 2018.	2018
Doshi, R.	Presentation: Singh JP, Berger RD, Doshi RN, et al. "Targeted Left Ventricular Lead Implantation In Non-Left Bundle Branch Block Patients: Primary Results Of The ENHANCE CRT Study". Heart Rhythm 2018	2018
Doshi, R.	Presentation: Kim YM, Rusia A, Do K, et al. "Pulmonary Arterial Pressure Increases in Patients Undergoing Transvenous Laser Lead Extraction (TVLLE)". Heart Rhythm. 2018	2018
Doshi, R.	Presentation: Lee CC, Do K, Patel S, et al. "Coronary Sinus Pacing after Surgical Tricuspid Valve". Heart Rhythm. 2018	2018
Doshi, R.	Presentation: Reddy P, Do K, Shinbane JS, et al. "Pacemaker Mediated Syncope Caused by Automatic Capture Management in a CRT D Device". Heart Rhythm. 2018.	2018
Doshi, R.	Presentation: 52. Kita KY, Carlson SK, Sohn J, et al. "Combined Atrial Fibrillation Ablation and Left Atrial Appendage Occlusion: 1 Year Experience". Heart Rhythm. 2018	2018
Doshi, R.	Presentation: Rusia A, Kita K, Shah SD, et al. "Does Age Influence The Decision To Anticoagulate In Patients With Atrial Fibrillation Undergoing A Percutaneous Coronary Intervention?" Heart Rhythm. 2018	2018
LeMond, L.	Presentation: LeMond, L. "Heart Failure Update for the Hospitalist". May Clinic Hospital Medicine: Managing Complex Patients. Phoenix, AZ. November 2017.	Nov 2017
LeMond, L.	Presentation: LeMond, L. "Pregnancy and Peripartum Cardiomyopathy". Heart Failure Society of America; 2017 Comprehensive Heart Failure Review & Update; The Practical Management of Heart Failure. Scottsdale, AZ. October 2017.	Oct 2017
Reuss, CS.	Media Presentation: Reuss, CS. "Sex, Drugs, Alcohol and Heart Disease". Tegna/Channel 12 News. September 2017.	Sep 2017
LeMond, L.	Presentation: LeMond, L. "Troubleshooting the Durable LVAD" Heart Failure Society of American National Meeting. September 2017.	Sep 2017
Reuss, CS.	Presentation: Reuss, CS. "10 Food Habits Linked to Early Cardiovascular Deaths". The Gift of Good Health. Scottsdale, AZ. April 2017.	April 2017
Franklin WJ	Presentation: Franklin WJ. "Heterotaxy and the Systemic Right Ventricle: A Review". Houston Methodist Hospital – Adult Congenital heart Disease Annual Symposium. Houston, TX.	Oct 2017
Lui CG.	Presentation: Lui, CG. "Left Main Bifurcation". UMC 12th Annual Cardiovascular	2018

	Symposium 2018, Las Vegas, NV.	
Padaliya, B.	Presentation: Padaloya, B. "CT a Must in Modern PCI". Scottsdale Interventional Forum 2017.	Mar 2017
Franklin WJ	Presentation: Moderator: Franklin WJ. Section of Pediatric Cardiology/Adult Congenital Heart Disease. Special Section on Research in Pediatric cardiology. American College of cardiology, Scientific Sessions. Washington, DC. March 2017.	Mar 2017
Franklin WJ	Presentation: Franklin WJ. "Pediatric Cardiology: The Year in Review". American College of cardiology, Scientific Sessions. Section of Pediatric cardiology/Adult Congenital. Washington, DC. March 2017.	Mar 2017
LeMond, L.	Presentation: LeMond, L. "Hearts In Jeopardy". Arizona ACC Cardiovascular Team Conference, Phoenix, AZ. March 2017.	Mar 2017
Lui CG.	Presentation: Lui, CG. "TAVR in Aortic Regurgitation: Case and Review". UMC 11th Annual Cardiovascular Symposium 2017, Las Vegas, NV.	2017
Doshi, R.	Presentation: Doshi, R. Asia Pacific Heart Rhythm Society, Yokoyama, Japan. 2017.	2017
Doshi, R.	Presentation: Doshi, R. "Assessing Lesion Size/Biophysics of Ablation" 2017.	2017
Doshi, R.	Presentation: Doshi, R. "ADD therapy and Pharmacology". 2017.	2017
Doshi, R.	Presentation: Doshi, R. "Lead Extraction Adult Congenital" California Heart Rhythm Society. 2017	2017
Doshi, R.	Presentation: Doshi, R. "Leadless Pacing Implant Techniques", Heart Rhythm Society Annual Scientific Sessions. 2017.	2017
Doshi, R.	Presentation: Doshi, R. "LAA occlusion", 10th Annual Western Atrial Fibrillation (WAF) Symposium, Park City UT. 2017.	2017
Doshi, R.	Presentation: Doshi, R. "Hemodynamic monitoring", Heart Rhythm Society Annual Scientific Sessions. 2017	2017
Doshi, R.	Presentation: Singh N, Belohlavek J, Franek O, et al. "Correlation of Geomagnetic Activity with Life-Threatening Arrhythmias and Sudden Cardiac Death." Circulation. 2017	2017
Doshi, R.	Presentation: John A, Nattiv J, Bhatt J, et al. "Atrial Depolarization in Patients with COPD". CHEST 2017, Toronto, CAN 2017.	2017
LeMond, L.	Presentation: LeMond, L. "Troubleshooting the Durable LVAD" Heart Failure Society of American National Meeting. September 2016.	Sep 2016
LeMond, L.	Poster Presentation: LeMond, L. "Pharmacologic Cardioversion in Structural Heart Disease: Keep Ibutilide in your Back Pocket". Heart Failure Society of America. September 2016.	Sep 2016
LeMond, L.	Poster Presentation: LeMond, L. "Certain Uncertainties: Provider Decision-Making for Destination Therapy LVADS". Heart Failure Society of America. September 2016.	Sep 2016
Lui, CG	Presentation: Lui CG, Malik AO, Allenback G, et al. "Access to PPCI is a Determinant of Survival of Patients with ST Segment Elevated Myocardial Infarction in the State of Nevada". World Congress of Cardiology and Cardiovascular Health 2016; Mexico City, MEX.	June 2016
Franklin WJ	Presentation: Franklin WJ. "Adult Congenital Heart Disease: Pearls for the Clinician". Symposium on 'Essentials for Solid Organ and Blood/Marrow Transplant Management for the Health care Team". Optum Health and Texas Children's Hospital. New Orleans, LA. April 2016.	April 2016
Franklin WJ	Presentation: Franklin WJ. "Adult Congenital Heart Disease: Update for 2016". Medicine Noon Conference. Doctor's Hospital Renaissance. Edinburg, TX. April 2016.	April 2016
Franklin WJ	Presentation: Franklin WJ. Living with Pulmonary Hypertension: A TED Talk". Annual Scientific Sessions of the American College of Cardiology. Chicago, IL. April 2016.	April 2016
Padaliya, B.	Presentation: Padaliya, B. TAVI – "New Technologies" (Lotus) – Scottsdale Interventional Forum 2016.	2016
Franklin WJ	Presentation: Franklin WJ. "TED Talk: "Living with Pulmonary Hypertension". American College of Cardiology, Scientific Sessions. Section of Pediatric Cardiology/Adult Congenital. Chicago, IL. March 2016	Mar 2016
Franklin WJ	Presentation: Franklin WJ. "Adult Congenital Heart Disease: What Every Clinician Needs to Know". South Miami Baptist Hospital, 14th Annual Cardiac Prevention and Intervention Symposium. February 2016.	Feb 2016
Franklin WJ	Presentation: Franklin WJ. "Hypertrophic Cardiomyopathy: Where Do We Stand in 2016?" South Miami Baptist Hospital, 14th Annual Cardiac Prevention and Intervention Symposium. February 2016.	Feb 2016

Franklin WJ	Presentation: Franklin WJ. "Pregnancy and Heart Disease-Update for 2016". Baylor College of Medicine – Cardiology Fellow Noon Conference. Houston, TX. February 2016.	Feb 2016
Franklin WJ	Abstract Presentation: Opina AD, Frischhertz BP, Lam WL, et al. "Maternal Outcomes in Women with Congenital heart Disease: A Review of the Texas Inpatient Public Use Data File, 199-2012". Children's Hospital of Philadelphia Annual Pediatric cardiology Educational Summit. Orlando, FL. February 2016.	Feb 2016
Franklin WJ	Presentation: Franklin WJ. "Update on Adult Congenital Heart Disease-2016". Children's Hospital of New Orleans. Cardiology Grand Rounds. January 2016.	Jan 2016
Lui CG.	Presentation: Lui, CG. "SVG STEMI: Devices and Practice". UMC 10th Annual Cardiovascular Symposium 2016, Las Vegas, NV.	2016
Doshi, R.	Presentation: Doshi, R. "Leadless Pacing", 7th Annual California Heart Rhythm. 2016.	2016
Doshi, R.	Presentation: Doshi, R. The 21st Annual Atrial Fibrillation Symposium, Orlando, FL. 2016.	2016
Doshi, R.	Presentation: Doshi, R. Asia Pacific Heart Rhythm Society Seoul, CRT Cases. 2016.	2016
Doshi, R.	Presentation: Knops R, Reddy VY, Defaye P, et al. "Worldwide Clinical Experience of the Retrieval of Leadless Cardiac Pacemakers". Europace. 18(suppl_1):i24, 2016.	2016
Doshi, R.	Presentation: Wolfson AM, Yousefian O, Short L, et al. "Effects of Respiratory Variation on CardioMEMSTM HF Measured Pressure Values: Comparison of Device-Calculated and Visually Inspected Pressure Waveforms". J Card Fail. 22(8S):S80, 2016.	2016
Doshi, R.	Presentation: Chang PM, Doshi R, Minnor M. "Nanotism-The LEADLESSII Study. PACES Advancing the Field", Celebration, FL 2016.	2016
Doshi, R.	Presentation: Do K, Carlson SK, Konecny T, et al. "High Defibrillation threshold in Obese Patients Receiving S-ICD". Heart Rhythm. 13(5S):S525, 2016.	2016
Doshi, R.	Presentation: Do K, Carlson SK, Konecny T, et al. "Pacing through Coronary Sinus Leads after Tricuspid Valve Surgery". Heart Rhythm. 13(5):S343, 2016.	2016
Doshi, R.	Presentation: Reddy VY, Knops RE, Defaye P, et al. "Worldwide Clinical Experience of the Retrieval of Leadless Cardiac Pacemakers." Heart Rhythm. 13(5S):S60, 2016.	2016
Doshi, R.	Presentation: Reddy VY, Cantillon DJ, Ip J, et al. "A Comparative Study of Acute and Mid-Term Complications of Leadless vs Transvenous Pacemaker". Heart Rhythm. 13(6):1375, 2016.	2016
Doshi, R.	Presentation: Carlson S, Doshi R, Saxon L. "Smartphone Application for Surveillance and Asynchronous Communication Post Atrial Fibrillation Ablation". Atrial Fibrillation Symposium, Orlando FL., 2016.	2016
LeMond, L.	Presentation: LeMond, L. "CRT in Stage D Heart Failure, Is It Ever Too Late?". Colorado Heart Failure Summit, Colorado Springs, CO. December 2015.	Dec 2015
Franklin, WJ.	Presentation: Franklin WJ. "Adult Congenital Heart Disease: The Top 10 Things You Need To Know". Robert Wood Johnson University Hospital. New Brunswick, NJ. June 2015.	June 2015
Franklin, WJ.	Presentation: Franklin WJ. "Pulmonary Hypertension: What's New in 2015?" Winthrop University Hospital-First Annual Conference of Women's Health. Guest Lecturer. Mineola, NY. June 2015.	June 2015
Padaliya, B.	Presentation: Padaliya, B. "LVOT Obstruction After TAVI" - Society for Cardiovascular Angiography & Interventions. March 2015.	Mar 2015
Franklin WJ	Presentation: Franklin WJ. "Fainting at the Finish Line". American College of Cardiology, Scientific Sessions. Section of Sports Cardiology. San Diego, CA. March 2015.	Mar 2015
Franklin WJ	Presentation: Franklin WJ. "Heart Disease in Pregnancy". Alta Bates medical Center, Maternal-Fetal Noon Conference. Berkeley, CA. January 2015.	Jan 2015
Franklin WJ	Presentation: Franklin WJ. "Adult Congenital Heart Disease: The Top 10 Things You Need to Know". UCSF-Benioff/Children's Hospital Oakland, Pediatrics Ground Rounds. Oakland, CA. January 2015.	Jan 2015
Doshi, R.	Presentation: Doshi, R. "Implant techniques". Heart Rhythm Society Annual Scientific Sessions. 2015.	2015
Doshi, R.	Presentation: Saxon LA, Berkley J, Porterfield J, et al. "Public Access to Smart Phone Enabled ECG Acquisition". Heart Rhythm. 12(5):S336, 2015.	2015
Doshi, R.	Presentation: Lin R, Abouzeid C, Porterfield J, et al. "Leadless Multi-Senor Wireless Monitoring for all Hospitalized Patients". Heart Rhythm. 12(5):S250, 2015.	2015
Doshi, R.	Presentation: Luke D, Huntsinger M, Tun H, et al. "Incidence and Predictors of Pacemaker Implantation Post Commercial Approval of the CoreValve System for TAVR". Heart Rhythm. 12(5):S504, 2015.	2015
Doshi, R.	Presentation: Carlson SK, Doshi RN, Chang PM. "Prolapse of Pacemaker Leads Resulting in	2015

	Complete IVC Obstruction in an Adult Congenital Patient”, Heart Rhythm. 12(5):S227, 2015.	
Bhakta, M.D.	Presentation: Bhakta, MD “MedGuide Technology for Interventional Cardiology” Medguide Technology Onboarding Meeting. December 2014	Dec 2014
Padaliya, B.	Presentation: Padaliya, B. “Transcatheter Mitral Valve in Ring, 1st in USA” - Society for Cardiovascular Angiography & Interventions Fellows. October 2014.	Oct 2014
Bhat, PK	Presentation: Moza A, Ali A, Moukarbel D, et al. “Endothelin levels in Patients with heart failure with normal ejection Fraction and pulmonary venous hypertension”. International Society of Heart and Lung Transplantation 34th Annual Scientific Session. April 10-13 2014, San Diego, CA	April 2014
Franklin WJ	Abstract Presentation: Franklin WJ, Klouda L, Parekh D, et al. “Neurocognitive Evaluation the Adults with Congenital Heart Disease: The NICHE Study”. American College of Cardiology Scientific Sessions. Washington, DC. March 2014	Mar 2014
Franklin WJ	Presentation: Franklin WJ. “Adult Congenital Heart Disease: 2014 Update for Clinicians”. Inova Hospital Heart Center. Cardiology Grand Rounds. Fairfax, VA. January 2014	Jan 2014
Reuss, CS.	Presentation: Reuss, CS. “Mitral Stenosis Management in Pregnancy”. Scottsdale Healthcare Perinatal Symposium. Scottsdale, AZ. Feb 2014	Feb 2014
Reuss, CS.	Presentation: Reuss, CS. “Coffee, Chocolate, Wine and Your Heart”. The Heart of a Woman. Scottsdale, AZ. February 2014.	Feb 2014
Bhakta, MD.	Presentation: Bhakta MD. “Antiplatelet therapy in Interventional Cardiology”. Cardiovascular Consultants Clinical Update Forum Feb 2014.	Feb 2014
Doshi, R.	Presentation: Doshi, R. “Maximizing CRT”. Heart Rhythm Society Annual Scientific Sessions. 2014.	2014
Doshi, R.	Presentation: Lin R, Bose R, Chang P, et al. “Wearable Biometric Sensors and Cardiac Rhythm Management (CRM) Devices”. J Card Fail. 20(8):S88, 2014.	2014
Doshi, R.	Presentation: Carlson S, Saxon L, Doshi R, et al. “Clinical Characteristics of Patients with Atrial Fibrillation on Long-term Ambulatory Monitoring”. J Card Fail. 20(8):S92, 2014.	2014
Doshi, R.	Presentation: Chang PM, Doshi R, Saxon LA. “Subcutaneous Implantable Cardioverter-Defibrillator”. Circulation. 10;129(23):e644-6, 2014.	2014
LeMond, L.	Presentation: LeMond, L. “Syncope in Geriatric Patients”. American College of Cardiology Oregon Chapter Annual Meeting. 2014.	2014

## PROFESSIONAL ACTIVITIES/COMMITTEES

Faculty Name(s)	Scholarly Project Title	Completion Date
Goldberg, NJ.	American College of Chest Physicians	Present
Goldberg, NJ.	American College of Osteopathic Internists	Present
Riley, RD.	American Medical Association	Present
Kang, CU.	American Osteopathic Association	Present
Goldberg, NJ.	American Society of Nuclear Cardiology	Present
Kang, CU.	American Society of Nuclear Cardiology	Present
Goldberg, NJ.	Fellow of the American College of Cardiology (FACC)	Present
Bhakta, MD.	Fellow of the American College of Cardiology (FACC)	Present
Kang, CU.	Fellow of the American College of Cardiology (FACC)	Present
Klassen, KJ.	Fellow of the American College of Cardiology (FACC)	Present
Peters, CM	Fellow of the American College of Cardiology (FACC)	Present
Shah, MG.	Fellow of the American College of Cardiology (FACC)	Present
Padaliya, B.	Fellow of the American College of Cardiology (FACC)	Present
Shah, MG.	Fellow of the Society for Cardiovascular Angiography and Interventions (SCAI)	Present
Riley, RD.	North Carolina Medical Association	Present
Riley, RD.	Society of Thoracic Surgeons	Present
Burke, RF.	Society for Coronary Angiography and Intervention	2016 – Present
Franklin, WJ.	Member, Cardiovascular Management Council of the ACC	2015 – 2018
Doshi, R.	Remote Healthcare Society Board of Trustees	2014 – 2016
Hackman, B.	American College of Cardiology	2013 – Present
Bhat, PK.	Fellow of the American College of Cardiology (FACC)	2013 – Present

Sabbath, AM.	American Society of Nuclear Cardiology	2012 – Present
LeMond, L.	American College of Cardiology	2012 – 2016
Seifert, MJ.	Heart Rhythm Society, Heart Rhythm Advisory Panel	2011 – Present
Sabbath, AM.	American Society of Echocardiography	2009 – Present
Sabbath, AM.	Fellow of the American College of Cardiology (FACC)	2009 - Present
Franklin, WJ.	Member, Alliance for Adult Research in Congenital Cardiology (AARCC)	2008 – Present
Reuss, CS.	American Society of Echocardiography	2007 – Present
Burke, RF.	American Society of Nuclear Cardiology	2007 – 2016
Burke, RF.	American Society of Echocardiography	2006 – Present
Kang, CU.	American Society of Echocardiography	2006 – Present
Franklin, WJ.	Texas Heart Institute Cardiac Society	2006 - Present
Franklin, WJ.	International Society for Adult Congenital Heart Disease	2005 – Present
Doshi, R.	Heart Rhythm Society Foundation	2004 – Present
Bhakta, MD.	ACP Associate Member	2004 – Present
Reuss, CS.	American Heart Association	2004 – Present
Seifert, MJ.	Arizona Medical Society	2004 – Present
Burke, RF.	Fellow of the American College of Cardiology (FACC)	2004 – Present
Reuss, CS.	Fellow of the American College of Cardiology (FACC)	2004 - Present
Franklin, WJ.	Fellow of the American College of Cardiology (FACC)	2001 – Present
Franklin, WJ.	Houston Medical Forum	2001 – Present
Bhakta, MD.	American Medical Association	2000 – Present
Doshi, R.	American Medical Association	2000 – Present
Rizik, D.	Fellow of the American College of Cardiology (FACC)	2000 – Present
Seifert, MJ.	Heart Rhythm Society	1999 – Present
Khaled, I.	Fellow of the American College of Cardiology (FACC)	1999 - Present
Doshi, R.	American College of Cardiology	1998 – Present
Franklin, WJ.	Association of Black Cardiologists	1998 – Present
Seifert, MJ.	Fellow of the American College of Cardiology (FACC)	1998 – Present
Franklin, WJ.	American Academy of Pediatrics	1997 – Present
Khaled, I.	American Heart Association	1995 – Present
Franklin, WJ.	American Medical Association	1994 – Present
Khaled, I.	American Medical Association	1994 – Present
Franklin, WJ.	National Medical Association	1994 – Present
Goldberg, NJ.	Fellow of the American College of Cardiology (FACC)	1993 – Present
Khaled, I.	American College of Physicians	1992 – Present
Seifert, MJ.	American College of Physicians	1992 – Present
Padaliya, B.	American College of Physicians	1992 – Present
Seifert, MJ.	American Heart Association	1992 – Present
LeMond, L.	American Medical Women's Association	2005 – Present
LeMond, L.	Heart Failure Society of America	2015 – Present
LeMond, L.	International Society of Heart and Lung Transplantation	2015 – Present
Reuss, C.	Arizona Society of Echocardiography	2006 – Present

## PUBLISHED CHAPTER OR TEXTBOOK

Faculty Name(s)	Scholarly Project Title	Completion Date
Doshi, R.	Shinbane JS, Saxon LA, Doshi RN, et al. "CCTA Cardiac Electrophysiology Applications: Substrate Identification, Virtual Procedural Facilitation". In: Cardiac CT Imaging: Diagnosis of Cardiovascular Disease (Third Edition):455-86, 2016.	2016
Franklin, WJ.	Ermis PR, Franklin WJ. "Transition to Adult Care". In: Moss and Adam's Heart Disease in Infants, Children, and Adolescents. Chapter 68. 2015	2015

**PUBLISHED JOURNAL ARTICLE/ABSTRACT/MANUSCRIPT**

<b>Faculty Name(s)</b>	<b>Scholarly Project Title</b>	<b>Completion Date</b>
Doshi, RN.	Doshi RN. Demonstration of left bundle capture: Timing is everything. Heart Rhythm. 2021 Jun;18(6):944-945.	Jun 2021
LeMond, L.	Barry T, Gallen R, Freeman C, et al. "Successful Treatment of Steroid-Refractory Checkpoint Inhibitor Myocarditis with Globulin Derived-Therapy: A Case Report and Literature Review". Am J Med Sci. 2021 May 8	May 2021
Rizik, D.	Sawant AC, Rizik DG, Rao SV, Pershad A. "Algorithms for challenging scenarios encountered in transradial intervention". Indian Heart J. 2021 Mar-Apr;73(2):149-155.	Mar 2021
LeMond, L.	Jaroszewski D, Eldeib A, Gotimukul A, et al. "Cardiac Transplantation and Consecutive Minimally Invasive Pectus Excavatum Repair". Ann Thorac Surg. 2021 Jan; 111 (1):e11-e14	Jan 2021
Doshi, RN.	Doshi RN. The State of Atrial Fibrillation in 2020. J Innov Card Rhythm Manag. 2021 Jan 15;12(1):4350-4353.	Jan 2021
Doshi, RN.	Doshi RN. "Selective Left Bundle Pacing: Timing is Everything". Heart Rhythm, 2021 in press	2021
Doshi, RN.	Doshi RN. "The State of Atrial Fibrillation in 2020". J Innov Cardiac Rhythm Manage. 2021;12(1):1-4.	2021
Doshi, RN.	Valderrabano M, Peterson LE, Swarup V, Schurman PA, Makkar A, Doshi RN, et al. "Effect of Catheter Ablation With Vein of Marshall Ethanol Infusion vs Catheter Ablation Alone on Persistent Atrial Fibrillation: The VENUS Randomized Clinical Trial". JAMA 2020 Oct 27;324(16):1620-1628.	Oct 2020
Doshi, RN.	Trivedi R, Doshi R. "New-Onset Left Bundle Branch Block in Post-Operative Transcatheter Aortic Valve Replacement: To Pace, or Not to Pace?" EP Lab Digest, May 2020.	May 2020
Doshi, RN.	Doshi RN. "Morphology Discrimination and ICD Programming: Can we do better?". J Cardiovasc Electrophysiol. 2020 Apr 26.	Apr 2020
Rizik, D.	Yamamoto MH, Maehara A, Stone GW, et al. "2-Year Outcomes After Stenting of Lipid-Rich and Nonrich Coronary Plaques". J Am Coll Cardiol. 2020 Mar 31;75(12):1371-1382.	Mar 2020
Doshi, R.	Kita KY, Carlson SK, Huntsinger M, et al. "Safety and Feasibility of Combined Atrial Fibrillation Ablation and Left Atrial Appendage Occlusion after Left Atrial Appendage Electrical Isolation". J Interv Card Electrophysiol. 2020 Jan;57(1):43-55.	Jan 2020
Doshi, R.	Bhutto J and Doshi RN. "Advancements in Radiofrequency Ablation of Cardiac Arrhythmias Open New Possibilities for Procedural Safety". J Innov Cardiac Rhythm Manage. 2020;11(10):1-3.	2020
Doshi, R.	Singh JP, Berger RD, Doshi RN, et al. "Targeted Left Ventricular Lead Implantation Strategy for Non-Left Bundle Branch Block Patients: The ENHANCE CRT Study". J Am Coll Cardiol EP 2020;6:1171-81.	2020
Doshi, R.	Kita KY, Doshi RN. "Implantation of a Leadless Pacemaker Via Left Subclavian Vein Following Transvenous Pacemaker Extraction". Heart Rhythm Case Reports 2020.	2020
Rizik, D.	Kereiakes DJ, Ellis SG, Rizik DG. "Clinical Outcomes Prior to and Following Complete Everolimus-Eluting Bioresorbable Scaffold Resorption: 5-year Follow-up of the ABSORB III Trial". Circulation 2019 Dec 3;140(23):1895-1903.	Dec 2019
Rizik, D.	Stone GW, Kappetein AP, Sabik JF, et al. "Five-Year Outcomes after PCI or CABG for Left Main Coronary Disease". N Engl J Med. 2019 Nov 7;381(19):1820-1830	Nov 2019
Rizik, D.	Rizik DG, Burke RF, Goldstein JA. "Urgent Mechanical Circulatory Support and Transcatheter Mitral Valve Repair for Refractory Hemodynamic Compromise". Catheterization and Cardiovascular Intervention. 2019 Nov 15;94(6):886-892	Nov 2019
Rizik, D.	Meduri CU, Kereiakes DJ, Rizik DG et al "Pacemaker Implantation and Dependency After Transcatheter Aortic Valve Replacement in the REPRIS III Trial". J Am Heart Assoc. 2019 Nov 5;8(21):e01259	Nov 2019
Doshi, R.	Lee CC, Do K, Patel S, Doshi, R, et al. "Single- and Dual-site Ventricular Pacing Entirely Through the Coronary Sinus for Patients with Prior Tricuspid Valve Disease". J Interv Card Electrophysiol. 2019 Oct;56(1):79-89	Oct 2019

Rizik, D.	Goel K, O'Leary JM, Barker CM, et al. "Clinical Implications of Physical Function and Resilience in Patients Undergoing Transcatheter Aortic Valve Replacement". J Am Heart Assoc. 2020 Sep;9(17):e017075.	Sep 2019
Rizik, D.	Burke RF, Rizik DG; Imaging for Left Atrial Appendage Closure Procedures Cath Lab Digest. Volume 27, Issue 9 September 2019.	Sep 2019
Rizik, D.	Sorajja P, Gössl M, Babaliaros V, et al. "Novel Transcatheter Mitral Valve Prosthesis for Patients With Severe Mitral Annular Calcification". J Am Coll Cardiol. 2019 Sep 17;74(11):1431-1440.	Sep 2019
Doshi, R.	Reddy P, Do K, Doshi RN, et al. "Ventricular Asystole in a CRT-D Device: What is the mechanism?" Pacing Clin Electrophysiol. 2019 Sep;42(9):1243-1245.	Sep 2019
LeMond, L.	Asbury K, Blair JE, August J, Beatty NL, Mi L, Carey EJ, Huskey JL, LeMond LM, Zangeneh TT. De novo coccidioidomycosis among solid organ transplant recipients 1 or more years after transplant. Am J Transplant. 2019 Sep;19 (9):2517-2524	Sep 2019
Doshi, R.	Do K, Doshi R. "Reply to the Editor- Strategy for revision of subcutaneous implantable cardioverter-defibrillator following inappropriate shock". HeartRhythm Case Rep. 2019 Aug 16;5(11):559.	Aug 2019
LeMond, L.	Bui QM, Allen LA, LeMond L, Brambatti M, Adler E. Psychosocial Evaluation of Candidates for Heart Transplant and Ventricular Assist Devices: Beyond the Current Consensus. Circ Heart Fail. 2019 Jul; 12 (7):e006058	Jul 2019
LeMond, L.	Lemond LM, Fender EA, Kalra A. "Finding Your First Job After Fellowship". Eur Heart J. 2019 May 21; 40 (20):1581-1583	May 2019
Doshi, R.	Do K, Lee CC, Kiankhooy A, et al. "Substernal Subcutaneous Implantable Cardioverter Defibrillators Lead Placement for The Management of Inappropriate Shocks". HeartRhythm Case Rep. 2019 May 8;5(8):407-410.	May 2019
Doshi, R.	Rusia A, Shi AD, Doshi RN. "Vacuum-Assisted Vegetation Removal with Percutaneous Lead Extraction: A Systematic Review of the Literature". Journal of Interventional Cardiac Electrophysiology J Interv Card Electrophysiol. 2019 Apr 25	Apr 2019
LeMond, L.	LeMond L, Al-Saffar F. "An Unusual Case of Syncope after Heart Transplant". ISHLT 39th Annual Meeting and Scientific Sessions. Orlando, FL. 2019 Apr; Abstract no. 4217.	Apr 2019
LeMond, L.	Steidley D, McCullough A, Pajaro O, et al. "Giant Cell Myocarditis as a Late Complication of DRESS Syndrome". ISHLT 39th Annual Meeting and Scientific Sessions. Orlando, FL. 2019 Apr; Abstract no. 2884.	Apr 2019
Rizik, D.	Sorajja P, Moat N, Badhwar V, et al. "Initial Feasibility Study of a New Transcatheter Mitral Prosthesis: The First 100 Patients". J Am Coll Cardiol. 2019 Mar 26;73(11):1250-1260	Mar 2019
Lui, C.	Venkata VS, Atti V, Pandya B, et al. "Safety and Efficacy of MitraClip in Functional vs. Degenerative Mitral Regurgitation: A Meta-Analysis of observational studies". J Am Coll Cardiol. 2019 Mar, 73 (9 Supplement 1) 1233.	Mar 2019
Rizik, D.	Reardon MJ, Feldman TE, Meduri CU, et al. "Two-Year Outcomes After Transcatheter Aortic Valve Replacement With Mechanical vs Self-expanding Valves: The REPRISE III Randomized Clinical Trial". JAMA Cardiol. 2019 Feb 27.	Feb 2019
Franklin, WJ.	Franklin WJ. "Transition to Adult Congenital Heart Care Must Be Managed Carefully". Cardiology Today. January 13, 2019	Jan 2019
Franklin, WJ.	Opina AD and Franklin WJ. "D-Transposition of the Great Arteries: A New Era in Cardiology". Cardiovascular Innovations and Applications. 2019; 3(1): 85-92	2019
Franklin, WJ.	Gatzoulis MA, Landzberg M, Beghetti M, et al for the MAESTRO Study Investigators. "Evaluation of Macitentan in Patients with Eisenmenger Syndrome. Results from the Randomized, Controlled MAESTRO Study". Circulation. 2019. 139(1):51-63.	2019
Doshi, R.	Doshi RN, Carlson SA, Bharmi R, et al. "Association between Arrhythmia and Pulmonary Artery Pressures in Heart Failure Patients Implanted with a Cardiac Defibrillator and Ambulatory Pulmonary Artery Pressure Sensor". The Journal of Innovations in Cardiac Rhythm Management.	2019
Doshi, R.	Rusia A, Kita K, Shah SD, et al. "Anticoagulation Patterns in Patients with Atrial Fibrillation after Percutaneous Coronary Intervention in an Academic Center". Journal of Innovations in Cardiac Rhythm Management.	2019
Doshi, R.	Doshi RN. "Highlights from Heart Rhythm 2019: Atrial Fibrillation". The Journal of Innovations in Cardiac Rhythm Management. 2019.	2019
Doshi, R.	Huntsinger MH and Doshi RN. "Nurse-directed Preventative Management of Atrial Fibrillation: Is it Feasible?" The Journal of Innovations in Cardiac Rhythm Management,	Dec 2018



	December 2018.	
Doshi, R.	Rusia A and Doshi RN. "Arrhythmias and Cognitive Function: What is the Best Practice? The Journal of Innovations in Cardiac Rhythm Management", December 2018.	Dec 2018
Doshi, R.	Singh JS, Berger R, Doshi R, et al. "Rationale and design for ENHANCE CRT: QLV Implant Strategy for non-left bundle branch block patients". ESC Heart Fail. 2018 Dec;5(6):1184-1190	Dec 2018
Rizik, D.	Stone GW, Lindenfeld J, Abraham WT, et al. "Transcatheter Mitral-Valve Repair in Patients with Heart Failure". N Engl J Med. 2018 Dec 13;379(24):2307-2318	Dec 2018
Doshi, R.	Doshi RN. "Atrial Fibrillation Ablation without Fluoroscopy: Because We Can". The Journal of Innovations in Cardiac Rhythm Management, November 2018.	Nov 2018
Doshi, R.	Doshi RN. "Interpreting the VEST Trial: Are We Missing the Point?" Cath Lab Digest, November 2018.	Nov 2018
Franklin, WJ.	Young B, Franklin WJ, Lam WW, Ermis PR. "Single-center experience of hemodialysis in patients after Fontan palliation". Int J Cardiol Heart Vasc. Nov 2018. 21:94-95.	Nov 2018
Franklin, WJ.	Ting W, Mulukutla C, Franklin WJ, et al. "Anomalous Left Coronary Artery from the Right Sinus of Valsalva in a Patient Presenting with ST-Segment Elevation in Lead aVR: A Case Report". Journal of Emergency Medicine. October 2018	Oct 2018
Franklin, WJ.	Opina AD and Franklin WJ. "Management of Heart Failure in Adult Congenital Heart Disease". Progress in Cardiovascular Disease. August 2018	Aug 2018
Doshi, R.	Kang D, Do K, Nattiv J, et al. "Malignant transformation of a chronically infected implantable cardioverter defibrillator pocket". HeartRhythm Case Rep. 2018 Apr 9;4(7):307-309.	Apr 2018
LeMond, L.	Stephen J, Al-Saleh S, LeMond L, Rosenthal J, Steidley D. Keeping tacrolimus levels therapeutic: step-wise protocol for itraconazole discontinuation Journal Of Heart And Lung Transplantation. 2018 Apr; 37(4 Suppl):S307	Apr 2018
Doshi, R.	Kim YM, Do K, Awar L, et al. "Cardiac Resynchronization Therapy for Left Ventricular Dysfunction Via a Remnant Persistent Left SVC After Accessory Pathway Ablation". EP Lab Digest March 2018; 18(3): 26-28.	Mar 2018
Franklin, WJ.	Georgekutty J, Kazerounina A, Wang Y, et al. "Novel oral anticoagulant use in Fontan patients; A single center experience". Congenital Heart Disease. March 2018.	Mar 2018
Rizik, D.	Feldman TE, Reardon MJ, Rajagopal V, et al. "Effect of Mechanically Expanded vs Self-Expanding Transcatheter Aortic Valve Replacement on Mortality and Major Adverse Clinical Events in High-Risk Patients With Aortic Stenosis: The REPRISE III Randomized Clinical Trial". JAMA 2018 Jan 2;319(1):27-37.	Jan 2018
Doshi, R.	Doshi RN. "Highlights from Heart Rhythm 2018: Atrial Fibrillation." The Journal of Innovations in Cardiac Rhythm Management. 9 (2018)	2018
Doshi, R.	Yarlagadda B, Turagam MK, Dar T, et al. "Safety and feasibility of leadless pacemaker in patients undergoing atrioventricular node ablation for atrial fibrillation". Heart Rhythm 2018;15:994-1000.	2018
Doshi, R.	Doshi R. "Microelectrodes for Atrial Flutter: Bringing a Scalpel to a Gun Fight". The Journal of Innovations in Cardiac Rhythm Management, 9(2018), 3204-3205.	2018
Doshi, R.	Doshi R. "Posterior Wall for Atrial Fibrillation: Excessive or Necessary?" The Journal of Innovations in Cardiac Rhythm Management, 9 (2018), 3195-3196.	2018
Doshi, R.	Doshi R. "Three-Dimensional Mapping: More than "Burn as You Learn"." The Journal of Innovations in Cardiac Rhythm Management. 2018 In press.	2018
Doshi, R.	Doshi R. "Cardiac Sarcoidosis: What's Bad for the Ventricle is Bad for the Atria. The Journal of Innovations in Cardiac Rhythm Management". 9 (2018): 3022-3024, 2018.	2018
Doshi, R.	Wu S, Sarcon A, Do K, et al. "A Case of Myocarditis and Near-Lethal Arrhythmia Associated With Interleukin-2 Therapy". J Investig Med High Impact Case Rep 6: 1-4, 2018.	2018
Rizik, D.	Kereiakes Dj, Ellis SG, Metzger C, et al. "3-Year Clinical Outcomes With Everolimus-Eluting Bioresorbable Coronary Scaffolds: The ABSORB III Trial". J Am Coll Cardiol. 2017 Dec 12;70(23):2852-2862.	Dec 2017
Rizik, D.	Bangalore S, Bezerra HG, Rizik DG, et al. "The State of the Absorb Bioresorbable Scaffold: Consensus From an Expert Panel". JACC Cardiovasc Interv. 2017 Dec 11;10(23):2349-2359.	Dec 2017
Doshi, R.	Cantillon DJ, Exner DV, Badie N, et al. "Complications and Health Care Costs Associated With Transvenous Cardiac Pacemakers in a Nationwide Assessment". JACC Clin Electrophysiol. 2017 Nov;3(11):1296-1305.	Nov 2017

Doshi, R.	Konecny T, Somers KR, Park JY, et al. "Chronic obstructive pulmonary disease as a risk factor for ventricular arrhythmias independent of left ventricular function". Heart Rhythm. 2017 Oct 3. pii: S1547-5271(17)31190-6.	Oct 2017
Franklin, WJ.	Li AH, Hanchard NA, Furthner D, et al. "Whole exome sequencing in 342 congenital cardiac left sided lesion case reveals extensive heterogeneity and complex inheritance patterns". Genome Medicine. October 2017	Oct 2017
Rizik, D.	Rizik DG, Hermiller JB, Simonton CA, et al. "First US Experience Following FDA Approval of the ABBOTT Vascular Bioresorbable Vascular Scaffolds for the treatment of Coronary Artery Disease: What Have We Learned from Randomized Controlled Clinical Trials?". Coron Artery Dis. 2017 Jan; 28(1):77-89.	Jan 2017
Franklin, WJ.	Kloud L, Franklin WJ, Saraf A, et al. "Neurocognitive and executive functioning in adult survivors of congenital heart disease". Congenital Heart Disease. January 2017.	Jan 2017
Rizik, D.	Vaduganathan M, Harrington RA, Stone GW, et al. "CHAMPION Investigators, Cangrelor With and Without Glycoprotein IIb/IIIa Inhibitors in Patients Undergoing Percutaneous Coronary Intervention". J Am Coll Cardiol. 2017 Jan 17;69(2):176-185.	Jan 2017
Lui, C.	Malik, AO, Abela O, Allenback G, et al. "ST-segment elevation myocardial infarction, systems of care. An urgent need for policies to coordinate care in order to decrease in-hospital mortality". Int J Cardiol. 2017;240:82-86.	2017
Doshi, R.	Wolfson AM, Yousefian O, Short L, et al. "Effects of pressure variation and atrial fibrillation on CardioMEMS™ HF measured pulmonary artery diastolic pressure: comparison of device-averaged and visually inspected waveforms". Physiol Meas. 38(6):1094-1103, 2017.	2017
Doshi, R.	Do K, Chang P, Konecny T, et al. "Predictors of Elevated Defibrillation Threshold with the Subcutaneous Implantable Cardioverter-defibrillator". The Journal of Innovations in Cardiac Rhythm Management. 8(2017): 2920-2929, 2017.	2017
Doshi, R.	Lakkireddy D, Knops R, Atwater B, et al. "A worldwide Experience of the Management of Battery Failures and Chronic Device Retrieval of the Nanostim Leadless Pacemaker". Heart Rhythm. 14(12):1756-1763, 2017.	2017
Doshi, R.	Wolfson AM, Yousefian O, Short L, et al. "Effects of pressure variation and atrial fibrillation on CardioMEMS HF measured pulmonary artery diastolic pressure: comparison of device-averaged and visually inspected waveforms". Physiol Meas. 38(6):1094-1103, 2017.	2017
Doshi, R.	Strickberger AS, Canby R, Cooper J, et al. "Association of Antitachycardia Pacing or Shocks with Survival in 69,000 Patients with an Implantable Defibrillator". J Cardiovasc Electrophysiol. 28(4):416-22.	2017
Doshi, R.	Doshi RN. "Review on Atrial Fibrillation". The Journal of Innovations in Cardiac Rhythm Management. 8(2017): 2958-62, 2017.	2017
Doshi, R.	Harris J, Carlson SK, Wolfson AM, et al. "Pulmonary arterial pressure sensing in a patient with Left Ventricular Assist Device During Ventricular Arrhythmia". Heart Rhythm Case Rep. 3(7):348-351, 2017.	2017
Doshi, R.	Carlson SK, Doshi R. "Termination of anticoagulation therapy at 45 days after concomitant atrial fibrillation catheter ablation and left atrial appendage occlusion resulting in device related thrombosis and stroke. Heart Rhythm Case Rep". 3(1):18-21, 2017.	2017
Rizik, D.	Rizik DG, Hermiller JB, Kereiakes DJ. "Bioresorbable Vascular Scaffolds for the treatment of Coronary Artery Disease: Clinical Outcomes from Randomized Controlled Trials". Catheter Cardiovasc Interv. 2016 Nov;88(s1):21-30	Nov 2016
Rizik, D. Burke RF.	Rizik DG, Shah MD, Burke RF. "First US Experience Following FDA Approval of the ABBOTT Vascular Bioresorbable Vascular Scaffold for the Treatment of Coronary Artery Disease". Catheter Cardiovascular Interventions. 2016 Nov 15;88(6):899-901.	Nov 2016
Padaliya, B.	Rizik DG, Padaliya BB. "Early US Experience Following FDA Approval of the ABBOTT Vascular BVS: Optimal Deployment Technique Using High Resolution Coronary Artery Images". J Interv Cardiol 2016 Oct;29(5):546-548	Oct 2016
Rizik, D.	Stone GW, Sabik JF, Serruys PW, et al. "Everolimus-Eluting Stents or Bypass Surgery for Left Main Coronary Artery Disease". N Engl J Med. 2016 Dec 8;375(23):2223-2235. Epub 2016 Oct 31.	Oct 2016
Rizik, D.	Rizik DG, Padaliya BB. "Early U.S. Experience Following FDA Approval of the ABBOTT Vascular Bioresorbable Vascular Scaffold: Optimal Development Technique Using High Resolution Coronary Artery Imaging". J Interv Cardiol. 2016 Oct;29(5):546-548	Oct 2016

Franklin, WJ.	Hanchard NA, Swaminathan S, Bucayas K, et al. "A genome-wide association study of congenital cardiovascular left-sided lesions show association with a locus on chromosome 20". Human Molecular Genetics. June 2016	June 2016
Doshi, R.	Vivek RY, Miller MA, Knops RE, et al. "Retrieval of the Leadless Cardiac Pacemaker A Multicenter Experience". Circ Arrhythm Electrophysiol. 9(12):4626, 2016.	2016
Doshi, R.	Luke D, Huntsinger M, Carlson SK, et al. "Incidence and Predictors of Pacemaker Implant Post Commercial Approval of the CoreValve System for TAVR". The Journal of Innovations in Cardiac Rhythm Management. 7:2452-60, 2016.	2016
Doshi, R.	Chang PM, Saxon LA, Doshi RN. "The Subcutaneous Implantable Cardioverter-Defibrillator as Part of Dual Device Therapy in Complex Congenital Heart Disease". The Journal of Innovations in Cardiac Rhythm Management. 7:2395-9, 2016.	2016
Doshi, R.	Chang P, Doshi RN. "Implantation of a Leadless Cardiac Pacemaker for Recurrent Pocket Infection". Heart Rhythm Case Rep. 2(4):339-41, 2016.	2016
Padaliya, B.	Attizzani GF, Alkhalil A, Padaliya BB, et al. "Comparison of Outcomes of Transfemoral Transcatheter Aortic Valve Implementation Using a Minimally Invasive Versus Conventional Strategy". Am J Cardiol 2015 Dec; 116(11):1731-6.	Dec 2015
Rizik, D.	Rizik DG, Cannon L, Stone GW, et al. "Systemic Pharmacokinetics of Everolimus Eluted From the Absorb Bioresorbable Vascular Scaffold: An J AM Coll Cardiol. 2015 Dec 1;66(21):2467-9.	Dec 2015
LeMond, L.	LeMond L, Mai T, Broberg CS, Muralidaran A, Burchill LJ. Heart Failure in Adult Congenital Heart Disease: Nonpharmacologic Treatment Strategies. Cardiol Clin. 2015 Nov; 33: (4)589-98, viii-ix.	Nov 2015
Rizik, D.	Ellis SG, Kereiakes DJ, Metzger DC, et al. "ABSORB III Investigators. Everolimus-Eluting Bioresorbable Scaffolds for Coronary Artery Disease". New England Journal of Medicine. 2015 Oct 12.	Oct 2015
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Doshi, R.	Mooney DM, Fung E, Dosh R, et al. "Evolution from Electrophysiologic to Hemodynamic Monitoring: the Story of Left Atrial and Pulmonary Artery Pressure Monitors". Front Physiol. 6:271, 2015.	2015
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Doshi, R.	Reddy VY, Exner DV, Cantillon DJ, et al. "Percutaneous Implantation of an Entirely Intracardiac Leadless Pacemaker". N Engl J Med. 373(12):1125-35, 2015.	2015
Doshi, R.	Doshi RN. "Clinical Scenarios: My Best Case, My Worst Case", The Journal of Innovations in Cardiac Rhythm Management. 6:2019-23, 2015.	2015
Doshi, R.	Haberman Z, Jahn R, Bose R, et al. "Wireless Smartphone ECG Enables Large Scale Screening in Diverse Populations". J Cardiovasc Electrophysiol. 26(5):520-6, 2015.	2015
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LeMond, L.	LeMond LM, Goodlin SJ. "Management of heart failure in patients nearing the end of life - there is so much more to do". Cardiac Failure Review. 2015; 1(1):31-4.	2015
Rizik, D. Burke, RF.	Rizik, DG, Burke RF, Riley RD, et al. "Recognition and management of an embolized balloon expandable bovine transcatheter heart valve: treatment of an inverted valve in the aorta". Journal of Interventional Cardiology. 2014 Dec;27(6):600-3.	Dec 2014
Rizik, D.	Mauri L, Kereiakes DJ, Yeh RW, et al. "Twelve or 30 months of dual antiplatelet therapy after drug-eluting stents". DAPT Study Investigators. N Engl J Med. 2014 Dec 4;371(23):2155-66.	Dec 2014
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Franklin, WJ.	Ermis PR, Dietzman T, Franklin WJ, et al. "Cardiac Resource Utilization in Adults at a Freestanding Children's Hospital". Congenital Heart Disease. April 2014.	April 2014
Franklin, WJ.	Ermis PR, Lam WW, Franklin WJ. "Pulmonary valvular stenosis with L-transportation of the great arteries with ventricular septal defect". Texas Heart Institute Journal. April 2014	April 2014
Franklin, WJ.	Cotts T, Khairv P, Opotowsky AR. "Alliance for Adult research in Congenital cardiology (AARCC). Clinical research priorities in adult congenital heart disease". International Journal of cardiology. February 2014	Feb 2014
Franklin, WJ.	Lam WW, Patel MB, Rodrigues FH, et al. "Atriopulmonary Fontan spontaneous echo contrast improved after cardioversion". Texas Heart Institute Journal. February 2014	Feb 2014
Franklin, WJ.	Mulukutla V, Franklin WJ, Morales DLS. "Surgical Device Therapy for Heart failure in the Adult with Congenital heart Disease". In: Heart Failure Clinics. January 2014	Jan 2014
Bhat, PK.	Bhat PK, Khan I, Finkelhor RS, et al. "Right ventricular myocardial performance index derived from tissue Doppler echocardiography is useful in differentiating apical	2014

	ballooning syndrome from cardiomyopathy due to left anterior descending coronary artery disease. Journal of American Society of Echocardiography 2014;27(1):101-6.	
Bhat, PK.	Bhat PK, Pantham G, Laskey S, et al. "Recognizing cardiac syncope in patients presenting to the emergency department with trauma". Journal of Emergency Medicine 2014;46(1):1-8	2014
Doshi, R.	Eisenberg E, Carlson S, Doshi R, et al. "Chronic Ambulatory Monitoring: Results of a Large Single Center Experience". The Journal of Innovations in Cardiac Rhythm Management. 5:1818-23, 2014.	2014

## RESEARCH PROJECTS

Faculty Name(s)	Scholarly Project Title	Completion Date
Padaliya, B.	First large scale randomized global study to evaluate long-term outcomes in patients who undergo stent implantation with OCT vs. angiography alone. HonorHealth, Department of Cardiology. Local Primary-Investigator: Illumien IV.	2018-present
Padaliya, B.	Evaluating safety of short dual antiplatelet therapy regimen for high bleeding risk patients after PCI. HonorHealth, Department of Cardiology. Local Primary-Investigator: Xience 90.	2018-present
Reuss, CS.	"A Phase 3 Randomized, Placebo-Controlled, Double-Blind Study to Evaluate Upadacitinib in Combination with Topical Corticosteroids in Adolescent and Adult Subjects with Moderate to Severe Atopic Dermatitis". Brenda LaTowsky, MD Principal Investigator. 2018.	2018
Padaliya, B.	Repositionable percutaneous replacement of stenotic aortic valve through implantation of Lotus Valve. Local Sub-Investigator-REPRISE III. HonorHealth, Department of Cardiology.	2018-present
Padaliya, B.	Prospective randomized, single-blind, multi-center trial (pivotal trial to support the US pre-market approval of Absorb BVS). Local Sub-Investigator-ABSORB III.	2015-present
Padaliya, B.	Optimize PCI OCT compared to IVUS and angiography to guide coronary stent implantation. Local Primary Investigator-Illumien III Trial. HonorHealth, Department of Cardiology	2015-2016
Hackman, B.	"Quantification of Myocardial Fibrosis in Cardiac Amyloidosis". University of Pittsburgh Medical Center, Pittsburgh PA. Mentored by Erik Schelbert and Timothy Wong.	2014-2016
Padaliya, B.	Building, organizing and publishing on a large database of transcatheter aortic valve replacement patients treated using a "minimalist" approach. Case Western Reserve University, Department of Cardiovascular Medicine.	2014-2015
Padaliya, B.	Worked under the mentorship of Dr. Jonathan Stamler to initiate the first in human trials involving the use of nitric oxide and nitrosylation of blood products in optimizing delivery of oxygen to peripheral tissues. Case Western Reserve University, Department of Cardiovascular Medicine.	2010-2015
Padaliya, B.	Working under the mentorship of Dr. Parikh and performing a retrospective analysis looking at factors affecting the success of complete surgical coronary revascularization in consecutive patients referred for coronary artery bypass surgery from the cath lab. Case Western Reserve University, Department of Cardiovascular Medicine.	2011-2015

## APPENDIX A – Didactic Lectures Schedule

2021 – 2022 Didactic Lectures Schedule			
7/8/2021	CHF/Acute vs Chronic	12/17/2021	<b>Vein graft intervention</b>
7/9/2021	<b>Cath Basics</b>	12/24/2021	Christmas
7/15/2021	CAD Acute-Chronic/Slow-Fast Rhythms	12/31/2021	NYE
7/16/2021	<b>Vascular access</b>	1/7/2021	Pericardial disease/HD
7/22/2021	Echo Physics 1	1/14/2021	<b>IABP principle and usage</b>
7/23/2021	Echo Physics 2	1/21/2021	<b>Impella</b>
7/29/2021	Syncope/Preop Clearance	1/28/2021	LVAD and Transplant
7/30/2021	<b>Angiographic views 1 (CAD)</b>	2/4/2021	<b>TAVR#1 indications</b>
8/5/2021	Valvular disease basics	2/11/2021	Preventative Cardiology
8/6/2021	<b>Angiographic views 2 (grafts/PVD)</b>	2/18/2021	<b>TAVR#2 technique</b>
8/13/2021	<b>Hemodynamics</b>	2/25/2021	Anticoagulation
8/20/2021	<b>ACS Pharmacology</b>	3/4/2021	<b>Mitral therapy</b>
8/27/2021	Epidemiology	3/11/2021	Pulmonary Hypertension
9/3/2021	<b>Interventional tools/PCI Basics</b>	3/18/2021	SIF
9/10/2021	Stress testing 1 (UC)	3/25/2021	<b>Watchman</b>
9/17/2021	<b>IVUS/OCT</b>	4/1/2021	Congenital 1 (UC)
9/24/2021	Stress testing 2 (UC)	4/8/2021	<b>ASD/PFO closure</b>
10/1/2021	<b>FFR/iFR</b>	4/15/2021	<i>Congenital 2 (UC)</i>
10/8/2021	<i>Cardiomyopathies</i>	4/22/2021	<b>Pericardiocentesis</b>
10/15/2021	<i>CV metabolism</i>	4/29/2021	<i>Heart disease in Pregnancy (UC)</i>
10/22/2021	<i>Stroke</i>	5/6/2021	<b>Vascular Intervention Aortic</b>
10/29/2021	<b>Bifurcation intervention</b>	5/13/2021	<i>Women's heart disease (UC)</i>
11/5/2021	<i>Anticoagulation</i>	5/20/2021	<b>Vascular Intervention Non-aortic</b>
11/12/2021	<b>LM intervention</b>	5/27/2021	<i>Inflammatory Arterial conditions</i>
11/19/2021	<i>Pharmacology in CV disease</i>	6/3/2021	<b>Renal artery stenosis</b>
11/26/2021	Thanksgiving	6/10/2021	<i>Biostatistics (UC)</i>
12/3/2021	<b>CTO</b>	6/17/2021	<b>Venous disease</b>
12/10/2021	<i>Cardiac Oncology</i>	6/24/2021	<i>Aortic disease</i>

## APPENDIX B – Conference Schedule

2021 – 2022 Conference Schedule			
7/1/21	Echo Conference	1/6/22	ECHO conference
7/8/21	Invasive Lectures	1/13/22	Grand Rounds
7/15/21	<b>Grand Rounds</b>	1/20/22	Invasive Lecture Series
7/22/21	M&M	1/27/22	M&M
7/29/21	Vascular Lecture Series	2/3/22	ECHO Conference
8/5/21	Echo Conference	2/10/22	Grand Rounds
8/12/21	Invasive Lectures	2/17/22	Invasive Lecture Series
8/19/21	<b>Grand Rounds</b>	2/24/22	M&M
8/26/21	M&M	3/3/22	ECHO Conference
9/2/21	Echo Conference	3/10/22	Grand Rounds
9/9/21	Vascular Lectures	3/17/22	Invasive Lecture Series
9/16/21	Invasive Lecture Series	3/24/22	M&M
9/23/21	M&M	3/31/22	Vascular Grand Rounds
9/30/21	Echo Conference	4/7/22	ECHO Conference
10/7/21	Grand Rounds	4/14/22	Grand Rounds
10/14/21	Invasive Lectures	4/21/22	Invasive Lectures
10/21/21	M&M	4/28/22	M&M
10/28/21	Vascular Lecture Series	5/5/22	ECHO Conference
11/4/21	Conference	5/12/22	Grand Rounds
11/11/21	Grand Rounds	5/19/22	Invasive Lecture Series
11/18/21	Invasive Lecture	5/26/22	M&M
11/25/21	M&M	6/2/22	ECHO conference
12/2/21	Conference	6/9/22	Grand Rounds
12/9/21	Grand Rounds	6/16/22	Invasive Lecture Series
12/16/21	Invasive Lecture Series	6/23/22	M&M
12/23/21	M&M	6/30/22	Vascular Gran Rounds
12/30/21	HOLIDAY		

## APPENDIX C – Cath Conference Schedule

2021 – 2022 CATH Conference Schedule	
07/09/2021	Vascular Access (Femoral/Radial)
07/23/21	Angiographic Views
08/06/21	Hemodynamics
08/20/21	Shunt Evaluations
09/03/21	ACS Pharmacology
09/17/21	Interventional Tools
10/01/21	IVUS/OCT
10/15/21	FFR
10/29/21	Simple Revascularization
11/12/21	LM Intervention
11/19/21	Bifurcation Lesions
12/10/21	CTO Intervention
01/07/22	Vein Graft Intervention
01/21/22	IABP Physiology and Indication/Trouble Shooting
02/04/22	Impella Indications
02/18/22	Aortic Valve Disease Balloon Expandable and Valvuloplasty
03/04/22	TAVR Self Expanding
03/18/22	Mitral Clip
04/01/22	Watchman
04/15/21	ASD/PFO Closure
04/29/21	Pericardiocentesis
05/13/21	Vascular Disease: Aortic Disease
05/27/21	Vascular Disease: Nonaortic Disease
06/10/21	Renal Artery Stenosis
06/24/21	Venous Disease



## APPENDIX D – Description of HonorHealth Library Services Resources

### A. Evidence-based medicine

- The Cochrane Library is a collection of databases that contain high-quality, independent evidence to inform healthcare decision-making. It includes Cochrane Database of Systematic Reviews (CDSR) Cochrane Central Register of Controlled Trials (CENTRAL) and Cochrane Clinical Answers (CCA).
- MedCalc 3000 is a collection of over 520 calculators, clinical criteria sets and decision trees that are indispensable to anyone practicing, teaching or studying evidence-based medicine. With every search you perform, TDS (formerly STAT!Ref) automatically presents links to relevant tools within MedCalc 3000. The complete contents of MedCalc 3000 include: Clinical Criteria Set, Decision Trees, Medical Equations, Unit and Dose Converters, Calculations and Equations by Specialty.
- UpToDate is an ACCME-accredited evidence-based clinical decision support resource provided for healthcare practitioners to help them make the right decisions at the point of care.
- FirstConsult (via ClinicalKey) is an authoritative, evidence-based and continuously updated clinical information resource for healthcare professionals. Designed for use at the point-of-care, it provides instant, user-friendly access to the latest information on evaluation, diagnosis, clinical management, prognosis, and prevention.
- Two-Minute Medicine (via Access Medicine) – concise and curated reviews and summaries of new medical studies. Studies are rated for the appraisal of evidence-based medicine.

### B. Journal literature databases:

- The MEDLINE database is the premier biomedical database in the United States. It contains over 23 million references to more than 5,600 journals in life sciences with a concentration on biomedicine generally dating back to about 1949, with some older material. The subject scope of MEDLINE is biomedicine and health, broadly defined to encompass those areas of the life sciences, behavioral sciences, chemical sciences, and bioengineering needed by health professionals and others engaged in basic research and clinical care, public health, health policy development, or related educational activities. Access is provided via 3 different search platforms: Ovid, EBSCO, and National Library of Medicine (PubMed). All HonorHealth journal content is accessible through link resolvers in all 3 search platforms, making it easy for researchers to access full-text articles in real-time.

- CINAHL (Cumulative Index to Nursing and Allied Health Literature) provides indexing for more than 3,000 journals from the fields of nursing and allied health. The database contains more than 2.6 million records dating back to 1981. Offering complete coverage of English-language nursing journals & publications from the National League for Nursing and the American Nurses' Association, CINAHL covers nursing, biomedicine, health sciences librarianship, alternative medicine, consumer health and 17 allied health disciplines.
- Health Business Elite database covers the journal literature concerning the business of health care. It provides full-text coverage of more than 130 well-known administrative journals such as H&HN: Hospitals & Health Networks, Health Management Technology, Modern Healthcare, and many others, Critical for hospital administrators and managers, this subset of Health Business™ Elite includes publications covering topics such as staffing, health care regulation, health care facilities management, marketing, finance and more.

#### C. Research/Scholarly Activity and Faculty resources

- Research instruments (scientific scales, tests & measurements) from a variety of indexes and sources, such as the American Psychological Association, the National Library of Medicine and ETS.
- Theses & dissertations published by colleges and universities throughout the world (via interlibrary- loan), found in indexes such as ERIC, Networked Digital Library of Theses & Dissertations, OpenTheses.org, Registry of Open Access Repositories (ROAR), and OCLC WorldCat.
- Arizona Department of Health Services (state and local public health data)
- Guidelines Trust (ERCI) and National Quality Measures (from the U.S. Agency for Healthcare Research and Quality)
- TOXNET, a National Library of Medicine database on toxicology, hazardous chemicals, environmental health and toxic releases
- GreenFILE database of published literature concerning environmental issues

#### D. Faculty Resources

- ProceduresConsult (via ClinicalKey) provides over 300 educational videos on procedures in Emergency, Internal Medicine, Anesthesiology, General Surgery, Cardiology and other specialties.
- Teacher Reference Center, an index of 280 peer-reviewed journals for teachers, covering topics like assessment, best practices, continuing education, and curriculum development
- 

#### E. Textbooks (electronic & print)

- ClinicalKey contains over 1100 medical and nursing e-textbooks and manuals.
- TDS ( formerly STATRef) includes over 140 medical and nursing e-textbooks.

- Ovid Books provides a small collection of LWW medical & nursing reference e-books
- HonorHealth Library Services provides immediate, direct access to over 1,900 clinical texts, 240 leadership & management books, and over 1,800 consumer health & wellness books. These collections cover a wide range of specialty and subject areas (see below). Library Services also provides rapid interlibrary loan (ILL) services for any texts we do not own in our collection. Typical response time on ILL requests is 2 business days. Categories include:
  - a) Primary care/Family Medicine/Internal Medicine
  - b) Obstetrics & Gynecology
  - c) Surgery & Perioperative Care
  - d) Oncology
  - e) Subspecialties including Gastroenterology, Neurology, Orthopedics, Heart & Vascular, Dermatology, Psychiatry, Pediatrics, and Geriatrics
  - f) Business leadership & management
  - g) Health business, management and leadership
  - h) Professional development & certification (“test prep”) materials
  - i) Various consumer health & wellness and chronic disease management topics, in alignment with HonorHealth priorities

#### F. eJournals, Full-text

- JAMA and JAMA Archives, Lancet, NEJM available electronically
- Thousands of journal titles available through Medline with Full Text, CINAHL Complete, ClinicalKey and other database collections (title lists available upon request).

#### G. Drug information

- Micromedex provides information and complete monographs on thousands of drugs. It includes toxicity information, therapeutic doses, pill identification, and dosing calculators. The complete drug monographs in this resource are often considered to be the “gold standard”.
- Lexi-Comp, available through UpToDate, is another drug information product, with features including aural pronunciation of the drugs’ names and chemotherapy regimens.
- FDA Electronic Orange Book (consumer information on generic drugs)

#### H. Herbals & Supplements

- National Center for Complementary & Integrative Health (NCCIH) resources (including clinical practice guidelines and literature reviews for health care professionals)

I. Patient Education/Consumer Health/Literacy resources

- MEDLINEplus (Consumer health info from the National Library of Medicine)
- CareNotes patient education resources (via Micromedex suite)
- Basics & Beyond the Basics series (via UptoDate)
- ExitCare (via ClinicalKey)
- Healthwise patient education resources
- A wide variety of health literacy toolkits and resources, including resources for Ask Me 3 and TeachBack