

Ankur Kalra, MD, MSc, FACP, FACC, FSCAI
Curriculum Vitae



PREAMBLE: I am the Division Chief of Cardiology, interventional cardiologist, and associate professor of medicine at State University of New York, Upstate Medical University and Norton College of Medicine in Syracuse, NY. I am a practicing interventional cardiologist with a focus on coronary and transcatheter heart valve interventions, primarily transcatheter aortic valve implantation/replacement. In addition, I am the founder of the non-profit startup, makeadent.org, and director of Barry J. Maron Hypertrophic Cardiomyopathy Center in New Delhi, India. I host the award-winning, top-ranked cardiology podcast show, *Parallax by Ankur Kalra*, have presented late-breaking science at national and international scientific cardiovascular meetings, and published over 325 scientific manuscripts in various peer-reviewed journals. My past appointments include interventional cardiologist, associate professor, and medical director of clinical research for regional cardiovascular medicine at the Cleveland Clinic, and primary investigator at Krannert Cardiovascular Research Center, Indiana University School of Medicine.

Educated at Indira Gandhi Medical College (Shimla, India), I completed medical and cardiology training at the All India Institute of Medical Sciences (New Delhi, India), Cooper University Hospital (Camden, NJ), and Hennepin County Medical Center and Minneapolis Heart Institute (Minneapolis, MN). I served as a clinical and research fellow in interventional cardiology at Beth Israel Deaconess Medical Center, and a clinical fellow in medicine at Harvard Medical School (Boston, MA). I then completed a year of advanced interventional and structural cardiology fellowship at Houston Methodist DeBakey Heart and Vascular Center, Houston Methodist Hospital (Houston, TX).

I am board-certified (and currently maintain certifications) in Internal Medicine, Cardiovascular Disease and Interventional Cardiology from the American Board of Internal Medicine, and a Diplomate in Adult Comprehensive Echocardiography from the National Board of Echocardiography. I have a Master of Science degree in Health Economics, Outcomes and Management in Cardiovascular Sciences from the London School of Economics & Political Science in London, United Kingdom. I am also certified in patient safety, healthcare quality, health informatics and leadership from Harvard Medical School's 1-year Safety, Quality, Informatics and Leadership certification program.

I am also an author and a published poet, and have written extensively about clinician/physician well-being, exploring the intersection of spirituality and medicine. My poetry book, "*Ibadah*," was released on Amazon and Barnes & Noble, and launched in collaboration with Cleveland Clinic Arts and Medicine Institute on Valentine's Day, 2020.

Ankur Kalra, MD, MSc
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EDUCATION:**POSTDOCTORAL**

Jaipur Golden Hospital, New Delhi, India	Internship	09/2005 – 09/2006
Kalra Hospitals, New Delhi, India	House Officer	09/2006 – 09/2007
National Board of Examinations (NBE), New Delhi, India	Residency, Family Medicine	08/2007 – 12/2007
All India Institute of Medical Sciences (AIIMS), New Delhi, India	Residency, Internal Medicine	01/2008 – 04/2009
Cooper University Hospital, UMDNJ- Robert Wood Johnson Medical School, Camden, NJ	Residency, Internal Medicine	06/2009 – 06/2012
Safety, Quality, Informatics and Leadership (SQIL) Program, Harvard Medical School, Boston, MA	Certification	04/2016 – 04/2017
Health Economics, Outcomes and Management in Cardiovascular Sciences, London School of Economics and Political Science, London, UK	Executive Master of Science (M.Sc.)	12/2018 – 06/2024

GRADUATE

Indira Gandhi Medical College, Himachal Pradesh University, Shimla, India	Degree: M.B.; B.S.	2005
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UNDERGRADUATE

Delhi Public School, R.K. Puram, New Delhi, India	Degree: — Major: Biology	2000
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FURTHER EDUCATION: (Advanced and Specialty Training, Fellowships, Institutes)

Minneapolis Heart Institute at Abbott Northwestern Hospital, Hennepin County Medical Center, Minneapolis, MN	Fellowship, Cardiovascular Disease	07/2012 – 06/2015
Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA	Fellowship, Interventional Cardiology	07/2015 – 06/2016

Houston Methodist DeBakey Heart and Vascular Center, Houston Methodist Hospital, Houston, TX Weill Cornell Medical College of Cornell University, New York, NY	Fellowship, Advanced Interventional and Structural Cardiology	07/2016 – 06/2017
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WORK EXPERIENCE:

University Hospitals, Cleveland, OH	Interventional Cardiologist	07/2017 – 01/2019
Cleveland Clinic, Cleveland, OH	Interventional Cardiologist	01/2019 – 12/2021
Franciscan Health, Lafayette, IN	Interventional Cardiologist	01/2023 – 06/2025
State University of New York, Upstate Medical Center, Syracuse, NY	Interventional Cardiologist	07/2025 – Present

APPOINTMENTS:

ACADEMIC (i.e. academic appointments, including academic administrative roles)

Cardiovascular Disease Fellowship Minneapolis Heart Institute at Abbott Northwestern Hospital, Hennepin County Medical Center, Minneapolis, MN	Chief Fellow	07/2014 – 06/2015
Department of Medicine Case Western Reserve University School of Medicine, Cleveland, OH	Assistant Professor	07/2017 – 12/2018
Department of Medicine Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland, OH	Assistant Professor	01/2019 – 06/2020
Department of Internal Medicine Northeast Ohio Medical University Rootstown, OH	Adjunct Associate Professor	09/2019 – Present
Department of Medicine Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland, OH	Associate Professor	07/2020 – 12/2021
Department of Medicine Indiana University School of Medicine Indianapolis, IN	Associate Professor	02/2022 – 06/2022

Indiana University School of Medicine West Lafayette, IN	Adjunct Associate Professor	06/2023 – Present
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Upstate Medical University, Norton College of Medicine Syracuse, NY	Associate Professor	07/2025 – Present
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NON-ACADEMIC (i.e. administrative, hospital or corporate appointments, consultantships)

Delhi Public School, R.K. Puram, New Delhi, India	Deputy Head Boy	04/1999 – 03/2000
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Indira Gandhi Medical College, Shimla, Himachal Pradesh, India	Medical Students' President	08/2004 – 09/2005
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Cleveland Clinic Akron General, Akron, OH	Section Head, Cardiovascular Research	02/2020 – 12/2021
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Cleveland Clinic, Cleveland, OH	Medical Director of Clinical Research, Regional Cardiovascular Medicine	11/2020 – 12/2021
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IU Health, Indianapolis, IN	Cardiovascular Institute Director for Interventional Cardiology Quality & Innovation	02/2022 – 06/2022
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Kalra Hospitals New Delhi, India	Co-Chief Executive Officer	07/2022 – Present
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Care Access, Boston, MA	Cardiovascular Research Investigator & Educator; Advisory Board Member	08/2022 – Present
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Krannert Cardiovascular Research Center, Indiana University School of Medicine Indianapolis, IN	Primary Investigator	09/2023 – Present
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Franciscan Health, Crawfordsville, IN	Member at Large Medical Executive Committee	12/2023 – 06/2025
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Franciscan Health, Indianapolis, IN	Member, Physician Advisory Committee, Value Analysis Management	05/2024 – 06/2025
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State University of New York, Upstate Medical Center, Syracuse, NY	Division Chief of Cardiology	07/2025 – Present
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LICENSURE, CERTIFICATION, SPECIALTY BOARD STATUS (as applicable for discipline):

Credential	Number	Inclusive Dates
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National Medical Commission, Delhi Medical Council, New Delhi, India	DMC/R/04002	03/2007 – Lifetime
American Board of Internal Medicine	331291	10/2012 – LKA*
Minnesota Medical Board, Minnesota	55091	05/2012 – 10/2019
National Board of Echocardiography	00026039	12/2014 – MOCE**
Commonwealth of Massachusetts, Board of Registration in Medicine, Massachusetts	261672	02/2015 – 10/2023
American Board of Internal Medicine, Cardiovascular Disease	331291	10/2015 – LKA*
Texas Medical Board, Texas	Q8918	07/2016 – 08/2026
American Board of Internal Medicine, Interventional Cardiology	331291	10/2016 – CMP***
Ohio Medical Board, Ohio	35.130806	03/2017 – 10/2026
Medical Licensing Board, Indiana Professional Licensing Agency, Indiana	01087045A	01/2022 – 10/2025
West Virginia Board of Medicine, West Virginia	32350	03/2023 – 06/2026
New York State Education Department Office of the Professions	331359-01	03/2025 – 02/2027

*LKA: Longitudinal Knowledge Assessment

**MOCE: Maintenance of Certification in Echocardiography

***CMP: Collaborative Maintenance Pathway

PROFESSIONAL ORGANIZATION MEMBERSHIPS:

Organization	Inclusive Dates
Indian Medical Association, Member	--
Critical Care Working Group, Founding Member	2011 – Lifetime
American College of Chest Physicians (ACCP), Affiliate	2012 – 2017
American Association of Cardiologists of Indian Origin, Member	2013 – Present
American College of Physician (FACP), Fellow	2014 – Present
Alpha Omega Alpha (AOA) Honor Medical Society, Member	2015 – Lifetime
Massachusetts Medical Society, Member	2015 – Present
American College of Cardiology (FACC), Fellow	2016 – Present

The Society of Cardiovascular Angiography and Interventions (FSCAI), Fellow	2017 – Present
American Heart Association (AHA)	– Present
American Medical Association (AMA)	2016 – Present
Harvard Alumni Association, Member	2018 – Lifetime
Harvard Alumni Entrepreneurs, Member	2022 – Present
Association of American Physicians and Surgeons (AAPS)	2022 – Present
Indiana State Medical Association (ISMA)	2023 – Present

PROFESSIONAL HONORS AND AWARDS:

TEACHING

Scholarship in Teaching Award For <i>Parallax</i> , a medicine (cardiology) podcast show	Case Western Reserve University School of Medicine	2020
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RESEARCH

First Prize, For " <i>Acute Hypotensive Transfusion Reaction With Concomitant Use of ACE Inhibitors.</i> "	Case Study Research Cooper Research Week	2010
First Prize, Oral Presentation, For " <i>Acute Hypotensive Transfusion Reaction With Concomitant Use of ACE Inhibitors.</i> "	American College of Chest Physicians (ACCP) Annual Meeting 2010	2010
Scholar, (200th Anniversary Essay Contest) For " <i>Technology Transcends Locoregional Barriers to Patient Care.</i> "	The New England Journal of Medicine (NEJM)	2012
Winner, IABP Scholarship Program For " <i>Peripartum Acute ST Elevation Myocardial Infarction from Spontaneous Coronary Artery Dissection.</i> "	Transcatheter Cardiovascular Therapeutics (TCT) 2012	2012
Finalist, Young Investigator Award Competition For " <i>Post-Myocardial Infarction Risk Stratification of Patients at Risk for Sudden Cardiac Arrest by Contrast-Enhanced Magnetic Resonance Imaging Scar Quantification.</i> "	American College of Cardiology (ACC)	2014
Finalist For " <i>Doppler Tissue Imaging Predicts Progressive Heart Failure Prognosis in Hypertrophic Cardiomyopathy.</i> "	Tenth Annual Northwestern Cardiovascular Young Investigators' Forum	2014

Winner Young Investigator Award For “ <i>Cardiovascular Disease Performance Measures in the Outpatient Setting in India: Insights from the American College of Cardiology’s PINNACLE India Quality Improvement Program (PIQIP).</i> ”	American Association of Cardiologists of Indian Origin (AACIO)	2015
Best Cardiovascular Team Poster For “ <i>Doppler Tissue Imaging Predicts Progressive Heart Failure Prognosis in Hypertrophic Cardiomyopathy.</i> ”	American College of Cardiology (ACC) 2015 Annual Scientific Sessions	2015
NCDR/ACC Travel Award For “ <i>Cardiovascular Disease Performance Measures in the Outpatient Setting in India: Insights from the American College of Cardiology’s PINNACLE India Quality Improvement Program (PIQIP).</i> ”	National Cardiovascular Data Registry (NCDR)/American College of Cardiology (ACC)	2016
NCDR/ACC Travel Award For “ <i>Gender disparities in cardiovascular care access and delivery in India: Insights from the American College of Cardiology’s PINNACLE India Quality Improvement Program (PIQIP).</i> ”	National Cardiovascular Data Registry (NCDR)/American College of Cardiology (ACC)	2017
Award for Clinical Research Excellence <i>In recognition of clinical research excellence by a Fellow whose efforts were judged to be of the highest clinical standard in terms of originality and impact</i>	Houston Methodist DeBakey Heart and Vascular Center, Houston Methodist Hospital	2017
Late-Breaking Science Presenter Late-breaking registry results: <i>Leaflet thrombosis following transcatheter aortic valve replacement: insights from the MAUDE database.</i>	European Society of Cardiology (ESC) Congress	2017
NCDR/ACC Travel Award For “ <i>Electronic health records and outpatient cardiovascular care delivery: insights from the American College of Cardiology’s PINNACLE India Quality Improvement Program (PIQIP).</i> ”	National Cardiovascular Data Registry (NCDR)/American College of Cardiology (ACC)	2018
Richard E. Clark Memorial Paper For “ <i>Reoperative surgical aortic valve replacement for bioprosthetic failure: insights from the Society of Thoracic Surgeons National Database.</i> ”	Society of Thoracic Surgeons (STS) Annual Meeting	2019

High-Impact Clinical Research Presenter High-impact clinical research: <i>Trends in the use of mechanical circulatory support in the United States: the 2012-2015 National Inpatient Sample.</i>	Transcatheter Cardiovascular Therapeutics (TCT)	2019
Sones-Favaloro Excellence in Research Award	Cleveland Clinic	2020
JACC Journals Best of 2020 Voices in Cardiology: <i>The Kardashian Index of Cardiologists: Celebrities or Experts?</i>	JACC: Case Reports	2020
Top Five Papers Published since January 1, 2018 (Rank #1) <i>COVID-19 and the Healthcare Workers</i>	European Heart Journal	2020
Top Altmetric-scoring CardioPulse Papers of All Time (Rank #1) <i>COVID-19 and the Healthcare Workers</i>	European Heart Journal	2020
Landmark Session: Late-Breaking Trials Presenter Landmark session: Late-breaking Trials - Structural: <i>Off-label use of direct oral anticoagulants in patients receiving mechanical and bioprosthetic heart valves: insights from The Society Of Thoracic Surgeons National Database.</i>	Cardiovascular Research Technologies (CRT Virtual)	2021
Featured Clinical Research Transcatheter Aortic Valve Replacement: <i>Valve-in-valve vs reoperative surgical aortic valve replacement in patients with failed aortic bioprosthesis: insight from Nationwide Readmission Database.</i>	Transcatheter Valve Therapeutics (TVT)	2021
Key Coronary Intervention Abstracts <i>Invasive versus medical management in patients with chronic kidney disease and non-ST-elevation myocardial infarction.</i>	Transcatheter Cardiovascular Therapeutics (TCT)	2021
Best of European Heart Journal Digital Health – Editors' choice <i>Mapping and quantification of the Twitter footprint of cardiologists.</i>	European Society of Cardiology (ESC) Digital Summit	2021
Top 10% Most Cited Clinician 2021 – 2022	Doximity	2021 – 2022

Hot Topics in Cardio-Obstetrics <i>Prevalence, trends, and outcomes of cardiovascular diseases in pregnant patients in the United States: 2010 to 2019</i>	American Heart Association (AHA)	2022
Most Cited Clinical Research Article Transcatheter Aortic Valve Implantation: <i>Valve-in-valve vs reoperative surgical aortic valve replacement in patients with failed aortic bioprosthesis: insight from Nationwide Readmission Database.</i>	EuroIntervention	2022
Finalist, Best Clinical Research <i>Valve-in-valve vs reoperative surgical aortic valve replacement in patients with failed aortic bioprosthesis: insight from Nationwide Readmission Database.</i>	EuroIntervention/EuroPCR	2023
Late-Breaking Clinical Science Presenter Late-breaking Clinical Science - Hot Topics: <i>A blood biomarker-based diagnosis of reperfused hemorrhagic ST-elevation myocardial infarction predicts acute outcomes.</i>	Cardiovascular Research Technologies (CRT)	2024
Top 10% Most Published Clinician 2021 – 2025	Doximity	2021 – 2025
Top 10% Most Cited Clinician 2025	Doximity	2025
Healthcare Research All-Stars 2025 Cardiology	Avant-Garde Health	2025
2025 Top Ten Research Impact Articles <i>Association between social vulnerability index and cardiovascular disease: a behavioral risk factor surveillance system study.</i>	Journal of the American Heart Association	2026
SERVICE		
Intern of the Year	Division of Internal Medicine Department of Medicine, Cooper University Hospital	2010
Chief Fellow Award <i>In recognition of outstanding contribution to the development of the Cardiovascular Disease Fellowship Program</i>	Hennepin County Medical Center/ Abbott Northwestern Hospital Fellowship Training Program in Cardiovascular Disease	2015

Franciscan Values in Practice High Five Award <i>The High Five Award is given to a coworker in recognition of exemplary work, demonstrations of excellence, team work, and values in action. Values demonstrated: Christian Stewardship, Compassionate Concern, Fidelity to Mission, Joyful Service, and Respect for Life</i>	Franciscan Health	2024
Hospital & Health Care Week Award <i>For compassionate, safe and quality care</i>	Franciscan Health	2024
Champions in Care	Bristol Myers Squibb	2025
OVERALL/OTHER		
Award Name	Granted By	Date Awarded
Best Rebuttal	Inter-College State Debate Competition	2002
Second Prize	World AIDS Day Discourse on 'Live and Let Live'	2003
First Prize	World AIDS Day Poster Competition	2003
Rank 8 (All India)	The AIIMS Postgraduate Entrance Examination	2007
First Round Winner (Cooper University Hospital)	New Jersey American College of Physicians (ACP) Challenge Bowl	2012
State Winner (Cooper University Hospital)	New Jersey American College of Physicians (ACP) Challenge Bowl	2012
Winner, Bristol-Myers Squibb Travel Award	American College of Cardiology Foundation (ACCF)	2013
Fellowship	American College of Physicians	2014
Fellowship Grant	Cardiovascular Research Technologies (CRT) 2015	2014
Recipient Fellows' Presentation Skills Course	Duke Heart Center/Duke Clinical Research Institute (DCRI)	2015
Winner Fellows-in-Training (FIT) Travel Award	American College of Cardiology (ACC) 2015	2015
Alpha Omega Alpha (AOA)	University of Minnesota Medical School	2015

Cardiovascular Board Review Scholarship	American College of Cardiology (ACC)	2015
Young Leadership Recognition Program	Cardiovascular Research Technologies (CRT) 2017	2016
Fellow of the American College of Cardiology (FACC)	American College of Cardiology (ACC)	2016
Fellow of The Society of Cardiovascular Angiography and Interventions (FSCAI)	Society of Cardiovascular Angiography and Interventions (SCAI)	2017
Featured Fellow	TCTMD	2017
Marquis Who's Who		2019
Top 10% Most Mentioned Clinician in Press	Doximity	2021
Ohio Magazine Top Cardiologist	Ohio Magazine	2021
The Top 100 Twitter Influencers in Cardiology (Rank #42)	AIMS Public Health	2021
TEDx Speaker <i>The Science and the Art of a Broken Heart.</i>	TEDxNEOMED	2021
Expertscape World Expert in Professional Education <i>Top 0.1% of scholars writing about Professional Education over the past 10 years.</i>	Expertscape	2022
Ohio Top Doctors Excellence in Medicine	findatopdoc.com	2022
Castle Connolly Top Doctors	Castle Connolly	2025
Keynote Speaker <i>Inspired Love in Action: makeadent.org and Breaking Barriers in Healthcare.</i>	LifeSciencesNY, Syracuse, NY	2025

PROFESSIONAL DEVELOPMENT: List courses, workshops or training programs attended to enhance your performance in any area of academic work.

Course/Workshop Title	Provider	Date
Safety, Quality, Informatics and Leadership (SQIL) Program	Harvard Medical School, Boston, MA	04/2016 – 04/2017

Health Economics, Outcomes and Management in Cardiovascular Sciences (Master of Science)	London School of Economics and Political Science, London, UK	12/2018 – 06/2024
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TEACHING:

TEACHING ASSIGNMENTS: List the course number, brief title, format (i.e. lecture, lab, clinic, online); your role (course director, lecturer), year and term, enrollment and other information that specifically pertains to your discipline (i.e. contact hours, hours of lab instruction, time instructing students on wards or clinics, course-related advising). Mean teaching evaluation scores may be included.

UNDERGRADUATE

First Aid for the USMLE Step 2 Clinical Knowledge (Tenth Edition)	Faculty Reviewer	2019
Valvular Presentations & Echo Lab IU School of Medicine West Lafayette, IN	Lecturer	2023
ACS Presentations & Management IU School of Medicine West Lafayette, IN	Lecturer	2023
Valvular Presentations & Echo Lab IU School of Medicine West Lafayette, IN	Lecturer	2024
ACS Presentations & Management IU School of Medicine West Lafayette, IN	Lecturer	2024
Cardiovascular System Course Norton College of Medicine Syracuse, NY	Clinical Co-Director	2025 – 2026

POSTGRADUATE

Cardiology: A Practical Handbook (David Laflamme) (First Edition)	Scientific Revision (Chapter 5: Diseases of the pericardium and myocardium)	2016
Medical Knowledge Self-Assessment Program (MKSAP) 18 Pulmonary and Critical Care Medicine Peer-Review Evaluation	Peer-Reviewer, Sections on chronic obstructive pulmonary disease/bronchiectasis and lung tumors	2017

CONTINUING EDUCATION

American College of Cardiology
Annual Scientific Sessions
Session: Right Heart Catheterization
Simulation Station Curriculum. 2018

Parallax Podcast content development
for Radcliffe Cardiology 2019

MENTORING: List mentoring activities that pertain to your discipline such as thesis or advisory committees, students on research rotations, postdoctoral fellows and visiting scholars, advisor to graduating students, mentor for peer and self-assessment review, faculty mentoring committees. Name the individual, and identify their origin and destination.

Individual	Origin	Destination
Sadeer G. Al-Kindi, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	Cardiologist, University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine, Cleveland, Ohio; Cardiologist, Houston Methodist Hospital, Houston, Texas
Vivek Bhat, MD	Internal Medicine Resident, SUNY Upstate Medical University	To be determined
Muhammad Shahzeb Khan, MD	Internal Medicine Resident, John H. Stroger Jr. Cook County Hospital	Cardiovascular Disease Fellow, Duke University Medical Center, Durham, North Carolina

Safi U. Khan, MD	Assistant Clinical Professor of Medicine, West Virginia University	Cardiovascular Disease Fellow, Houston Methodist Hospital, Houston, Texas
Ashish Kumar, MD	Internal Medicine Resident, Cleveland Clinic Akron General	Internal Medicine Resident, Cleveland Clinic Akron General (2021-2024); Cardiovascular Disease Fellow, Mayo Clinic, Rochester, Minnesota (2024-2027)
Monil Majmudar, MD	Cardiovascular Disease Research Fellow, Cleveland Clinic Akron General	Cardiovascular Disease Fellow, University of Kansas Medical Center, Kansas City, Kansas
Anthony Mufarreh, MD	Internal Medicine Resident, SUNY Upstate Medical University	To be determined
Thuy Nguyen, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	Multimodality Cardiovascular Imaging Fellow (2019-2021), University of California San Francisco, San Francisco, California

Muhammad Siyah Panhwar, MD	Internal Medicine Resident, University Hospitals Cleveland Medical Center	Cardiovascular Disease Fellow (2019-2022), Tulane University School of Medicine, New Orleans, Louisiana; Interventional Cardiology Fellow, New York University Langone, New York, New York (2022-2023)
Hasan Rehman, MD	Internal Medicine Resident, Houston Methodist Hospital	Cardiovascular Disease Fellow (2018-2021), Houston Methodist Hospital, Houston, Texas

TEACHING ADMINISTRATION AND CURRICULUM DEVELOPMENT: List activities focused on enhancing the teaching and learning environment.

Fellow training	Active bedside teaching of cardiovascular disease and interventional cardiology fellows on (a) inpatient cardiology (cardiac intensive care unit and consultative cardiology services) (8-12 weeks of inpatient rounding every year); (b) outpatient cardiology (half day [5 hours] per week cardiology clinic); and (c) cardiac catheterization laboratory at University Hospitals Cleveland Medical Center.	7/2017 – 12/2018
Resident training	Active bedside teaching of University Hospitals Cleveland Medical Center internal medicine residents on inpatient cardiology services (cardiac intensive care and telemetry units) (8-12 weeks of inpatient rounding every year).	7/2017 – 12/2018
Resident training	Active bedside teaching of Cleveland Clinic Akron General internal medicine residents on inpatient cardiology services (cardiac intensive care unit) (8-12 weeks of inpatient rounding every year).	1/2019 – 12/2021

INVITED PRESENTATIONS – TEACHING

LOCAL

Title	Organization	Date
Leaflet thrombosis following transcatheter aortic valve replacement	University Hospitals Harrington Heart & Vascular Institute Grand Rounds, Cleveland, OH	12/07/2017
Stent technology: past, present and future	Cleveland Clinic Akron General Heart, Vascular and Thoracic Department Grand Rounds, Akron, OH	2019

Patent foramen ovale closure in adults: clinical trial update, indications and emerging devices	Cleveland Clinic Akron General Heart, Vascular and Thoracic Department Grand Rounds, Akron, OH	01/31/2020
Dual antiplatelet therapy after percutaneous coronary intervention and drug-eluting stents	Cleveland Clinic Akron General Heart, Vascular and Thoracic Department Grand Rounds, Akron, OH	12/11/2020
2020 ACC/AHA guideline for the management of patients with valvular heart disease: mitral regurgitation	Cleveland Clinic Akron General Heart, Vascular and Thoracic Department Grand Rounds, Akron, OH	08/27/2021
<i>Bhagavad Gita</i> and heart health	<i>Geeta Mandal</i> Session, Hindu Temple of Central Indiana, Indianapolis, IN	07/09/2023
How culture impacts your risk of heart disease	Franciscan Health Heart Centers: <i>Matters from the Heart</i> Webinar Series	08/13/2024
Evolution of DAPT in PCI	Lunch and Learn: Franciscan Health Hospitalists	09/05/2024
Evolution of DAPT in PCI	Lunch and Learn: Franciscan Health Hospitalists	09/26/2024
Patent foramen ovale, atrial septal defect, & coronary anomalies	Lunch and Learn: Franciscan Health Advanced Practice Providers	06/04/2025
Hemorrhagic myocardial infarction	Cardiology Grand Rounds: Department of Medicine, SUNY Upstate Medical University	09/12/2025
The role of big data in clinical research	Department of Medicine Fall Clinical Research Methods Lecture Series SUNY Upstate Medical University	11/12/2025

REGIONAL

Title	Organization	Date
Cell therapy for heart failure case study: large anterior myocardial infarction with decreased ejection fraction two weeks later on medications	Heart Failure 2012: The Update, Minneapolis, MN	12/01/2012
Recent advances in percutaneous mitral valve intervention	11th Annual Cardiovascular Disease Update, Cleveland, OH	10/04/2017
Emerging transcatheter options for tricuspid regurgitation	Ohio-American College of Cardiology (ACC) 27th Annual Meeting, Columbus, OH	10/14/2017

Joint Initiative for Genomic Risk Stratification by Yern Asians to fight heart disease in South Asians (JIGYASA)	Association of Indian Physicians of Northern Ohio (AIPNO) Symposium, Warrensville Heights, OH	11/09/2019
Cath lab pharmacology	Iowa Chapter of the ACC Interventional Cardiology Board Review	08/15/2020
TAVR in patients not randomized in RCTs: bicuspid valve disease and failed aortic bioprosthesis: what is the evidence?	Advocate Aurora Health: 3rd Annual Structural Heart Disease Conference	06/01/2022
Moderator: Structural intervention: present and future	Indiana-American College of Cardiology (ACC) 2022 Annual Meeting, Indianapolis, IN	09/10/2022
Moderator: GLP1 agonists: new drug cardio-metabolic therapies' impact on the CV patient	Indiana-American College of Cardiology (ACC) 2023 Annual Meeting Indianapolis, IN	09/09/2023
Moderate aortic stenosis: to intervene or not?	Indiana-American College of Cardiology (ACC) 2024 Annual Meeting French Lick, IN	08/03/2024
Cardiac catheterization and interventions	Indiana Society of Cardiovascular and Pulmonary Rehabilitation	04/24/2025
Panel Discussant: Heart health — a guided perspective	Global Health Forum, New York, NY	11/02/2025
Panel Discussant: Safety net hospitals and their future in supporting health equity	Global Health Forum, New York, NY	11/02/2025
Panel Discussant: Innovations in cardiological care from our the globe	Global Health Forum, New York, NY	11/02/2025

NATIONAL

Title	Organization	Date
Catheterization laboratory Activation during mechanical cardiopulmonary resuscitation – when should we say “No?”	MedStar Washington Hospital Center, Washington, DC	08/27/2014
Transcatheter aortic valve replacement: case presentation	Cardiovascular Innovations Annual Scientific Sessions 2018, Denver, CO	07/26/2018

Hemodynamics: mitral stenosis, mitral regurgitation, aortic stenosis and aortic regurgitation	Hackensack University Medical Center — Heart and Vascular Hospital, Mountainside Medical Center and the Hackensack Meridian School of Medicine at Seton Hall University, NJ	09/09/2020
Finding destination in journey: perseverance vs pedigree. Beth Israel Lahey Health Cardiology Grand Rounds	Lahey Hospital & Medical Center, Burlington, MA	03/04/2021
Advancing high-quality interventional cardiology by aligning patient care, education, and research	Division of Cardiology, Department of Medicine Grand Rounds, Indiana University School of Medicine, Indianapolis, IN	10/29/2021
Art with heart: tales of creativity in cardiology—the parallax effect in cardiology	American College of Cardiology Annual Scientific Sessions 2022 Washington, DC	04/02/2022
The spiritual art of healing: how faith has impacted me as a cardiovascular professional	American College of Cardiology Annual Scientific Sessions 2022, Washington, DC	04/03/2022
Live Case Discussant: TAVR - Second Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China	Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions 2022 Boston, MA	08/19/2022
Moderator: STEMI strategies and outcomes III	Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions 2022 Boston, MA	09/17/2022
Moderator: TAVR and comorbidities I	Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions 2022 Boston, MA	09/18/2022
Cooper Critical Care Medicine Grand Rounds	Cooper University Hospital Camden, NJ	10/06/2022
Panel Discussant: How to close the gap of disparity in clinical trials and beyond	Cardiovascular Research Technologies Washington, DC	02/26/2023
Religiosity/spirituality in Medicine. Department of Anesthesia Grand Rounds	Indiana University School of Medicine Indianapolis, IN	05/10/2023
Hemorrhagic myocardial infarction: new paradigm for management. Session: ACS and AMI Management	Cardiovascular Research Technologies Washington, DC	03/09/2024

IVUS vs iFR/FFR discordance in left main interventions. Session: Coronary Imaging Case Studies	Cardiovascular Research Technologies Washington, DC	03/10/2024
Panel Discussant: Optimization of therapy for CAD (coronary artery Disease) patients with pharmacotherapy	Cardiovascular Research Technologies Washington, DC	03/10/2024
Hemorrhagic myocardial infarction: new paradigm for management	Cardiology Luncheon with Faculty & Fellows, University of Louisville, Louisville, KY	06/18/2024
Moderator: Access and closure for TAVR Hemodynamics, moderate AS, and more Session: TAVR Hot Topics	Cardiovascular Research Technologies Washington, DC	03/08/2025
Moderator: Intravascular imaging solved my case: most challenging cases by experts Part I Session: Coronary Imaging Case Studies	Cardiovascular Research Technologies Washington, DC	03/09/2025
Speaker: Disparities in outcomes in hemorrhagic myocardial infarction Session: Disparities in Interventional Cardiology	Cardiovascular Research Technologies Washington, DC	03/09/2025
Moderator: ACS and AMI 2025 contemporary topics Session: ACS and AMI Management	Cardiovascular Research Technologies Washington, DC	03/09/2025
Panel Discussant: Optimization of therapy for ACS patients with pharmacotherapy	Cardiovascular Research Technologies Washington, DC	03/09/2025
Speaker: Outcomes in South Asians following hemorrhagic myocardial infarction Session: Disparities in Interventional Cardiology	Cardiovascular Research Technologies Washington, DC	03/07/2026
Panel Discussant: Disparities in interventional cardiology - gender, age, Hispanics, veterans and around the world	Cardiovascular Research Technologies Washington, DC	03/07/2026
Moderator: TAVR failure prevention and management Session: TAVR Hot Topics	Cardiovascular Research Technologies Washington, DC	03/07/2026

Moderator: How important are TAVR hemodynamics, and what to do about it? Session: TAVR Hot Topics	Cardiovascular Research Technologies Washington, DC	03/07/2026
Panel Discussant: Intravascular imaging - challenging cases	Cardiovascular Research Technologies Washington, DC	03/08/2026
Speaker: Risk stratification for early TAVR in moderate aortic stenosis Session: TAVR Hot Topics	Cardiovascular Research Technologies Washington, DC	03/08/2026
Panel Discussant: Considerations for TAV-in-TAV versus explant	Cardiovascular Research Technologies Washington, DC	03/08/2026
Moderator: ACS and AMI 2026 contemporary topics Session: ACS and AMI Management	Cardiovascular Research Technologies Washington, DC	03/08/2026
Speaker: Hemorrhagic myocardial infarction Session: ACS and AMI Management	Cardiovascular Research Technologies Washington, DC	03/08/2026

INTERNATIONAL

Title	Organization	Date
Genomic risk stratification to prevent heart disease in South Asians	Global Cardiometabolic Conclave, India	07/12/2020
Structural Heart (Aortic)—importance and impact of cuspal overlap view	Innovations in Cardiology Summit, New Delhi, India	09/26/2021
State of the art Transcatheter Aortic Valve Implantation and aortic valve intervention	Cardiology—state of the art and international perspective: The Royal Society of Medicine, United Kingdom	09/27/2022
Heart Health & Disease in South Asians: What Every South Asian Family Needs to Know Before It's Too Late	Care Access	10/03/2025

RESEARCH/CREATIVE ACTIVITY:**COMPLETED RESEARCH GRANTS/FELLOWSHIPS**

Title	Granting Agency	Amount	Role
"Implantable cardioverter-defibrillator therapy following acute myocardial infarction: risk stratification with tissue heterogeneity characterization utilizing contrast-enhanced magnetic resonance imaging." 0% salary support.	St. Jude Medical, Inc	\$10,000	
"Off-label use of direct oral anticoagulants in patients with prosthetic heart valves: insights from the Society of Thoracic Surgeons National Database."	Cleveland Clinic Foundation	\$10,000	
Developing a cardiac MRI-guided therapy for hemorrhagic myocardial infarction (12/2024 – 12/2028)	National Institutes of Health (NIH R01-HL133407)	\$3.2 million	Co-Investigator/ Clinical Lead
Randomized controlled pilot study to determine cardioprotective efficacy of dexrazoxane in hemorrhagic myocardial infarction (12/2024 – 11/2027)	National Institutes of Health (Appl. ID #11069959)	\$1.9 million	Co-Investigator
Imaging-guided development of blood marker diagnostics for point-of-care therapy monitoring in hemorrhagic myocardial infarction (12/2024 – 08/2028)	National Institutes of Health (NIH R01- GRANT14169785)	\$3.2 million	Co-Investigator/ Clinical Lead
Hypertension-induced impaired hypoxic cerebral vasodilation: mechanisms and implications for human brain metabolism (07/2025 – 06/2030)	National Institute of Health (NIH R01-)	\$3.9 million	Co-Principal Investigator

INVITED PRESENTATIONS – RESEARCH**LOCAL**

Title	Organization	Date
Atrial fibrillation (AF) after transcatheter aortic valve replacement (TAVR): optimizing management of peri-TAVR AF.	Southwest Valve Summit Meeting, San Antonio, TX	05/06/2017
Transcatheter aortic valve replacement for sutureless aortic valve failure.	Southwest Valve Summit Meeting, San Antonio, TX	05/06/2017

REGIONAL

Title	Organization	Date
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NATIONAL

Title	Organization	Date
Contemporary trends of clinical outcomes in primary left ventricular assist device implantation and postprocedure high-risk categories.	Advanced Heart Failure Group, Yale Section of Cardiovascular Medicine	01/19/2022
Gender/Racial Disparities in Editorial and RCT Authorships	Cardiovascular Research Technologies Washington, DC	02/26/2023

INTERNATIONAL

Title	Organization	Date
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SERVICE:

Distinguish between service to the University and service to your professional discipline. If a service activity spans academic levels (i.e. Department, School, Campus, University) list it once. Identify your role in leadership (i.e. member, co-chair, chair).

UNIVERSITY SERVICE:

DEPARTMENT		
Activity	Role	Inclusive Dates
SCHOOL		
Activity	Role	Inclusive Dates

CAMPUS Activity	Role	Inclusive Dates
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UNIVERSITY Activity	Role	Inclusive Dates
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PROFESSIONAL SERVICE:

LOCAL

Organization	Activity	Inclusive Dates
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REGIONAL

Organization	Activity	Inclusive Dates
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NATIONAL/ INTERNATIONAL

Organization	Activity	Inclusive Dates
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Editorial Boards

Journal: <i>Cardiology and Therapy</i>	Editorial Board	11/2013 – Present
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Journal: <i>Indian Heart Journal: Official Publication of the Cardiological Society of India</i>	Editorial Board	12/2014 – Present
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Journal: <i>Cardiovascular Revascularization Medicine</i>	Editorial Board	– Present
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Journal: <i>Global Heart: The Official Journal of the World Heart Federation</i>	Associate Editor	02/2018 –
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Journal: <i>Journal of the American College of Cardiology (JACC): Case Reports</i>	Senior Editorial Advisor/Consultant	07/2019 – 08/2024
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Journal: <i>Journal of the American College of Cardiology (JACC): Advances</i>	Editorial Consultant	07/2024 – 06/2026
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Journal: <i>US Cardiology Review</i>	Editorial Board	11/2020 – Present
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Journal: <i>US Cardiology Review</i>	Editor-in-Chief	09/2018 – 11/2020
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Ad Hoc Reviewer

Journal: *Catheterization and Cardiovascular Interventions*
Dates of Service: 2013 – Present

Journal: *Global Heart: The Official Journal of the World Heart Federation*
Dates of Service: 2016 – Present

Journal: *Circulation: Cardiovascular Quality & Outcomes*
Dates of Service: 2017 – Present

Journal: *Journal of the American Heart Association*
Dates of Service: 2017 – Present

Journal: *Journal of Invasive Cardiology*
Dates of Service: 2017 – Present

Journal: *Structural Heart: The Journal of the Heart Team*
Dates of Service: 2017 – Present

Journal: *The American Journal of Cardiology*
Dates of Service: 2017 – Present

Journal: *EuroIntervention*
Dates of Service: 2018 – Present

Journal: *Journal of the American College of Cardiology (JACC)* (Guest Editor)
Dates of Service: 2018

Journal: *Journal of the American College of Cardiology (JACC): Cardiovascular Interventions*
Dates of Service: 2018 – Present

Journal: *Mayo Clinic Proceedings*
Dates of Service: 2019 – Present

Journal: *American Heart Journal*
Dates of Service: 2020 – Present

Journal: *Chest*
Dates of Service: 2020 – Present

Journal: *Circulation*
Dates of Service: 2020 – Present

Journal: *European Heart Journal*
Dates of Service: 2020 – Present

Journal: *Heart*
Dates of Service: 2020 – Present

Journal: *International Journal of Cardiology*
Dates of Service: 2020 – Present

Journal: *The Lancet Respiratory Medicine*
Dates of Service: 2020 – Present

Journal: *Journal of the Society for Cardiovascular Angiography and Interventions (JSCAI)*
 Dates of Service: 2022 – Present

Journal: *The Lancet*
 Dates of Service: 2023 – Present

Journal: *BMJ Open*
 Dates of Service: 2025 – Present

Advisory Groups

Title: Director, Hypertrophic Cardiomyopathy Center, Kalra Hospitals, New Delhi, India
 Dates of Service: 09/2014 – Present

Title: Chief Executive Officer & Creative Director, makeadent.org, a non-profit startup that innovates applications and programs in healthcare worldwide.
 Dates of Service: 09/2018 – Present

Title: Health Disparities and Health Equity Advisory Board, Bristol Myers Squibb
 Dates of Service: 02/2023

Committee Service

Organization	Activity	Inclusive Dates
<u>Local</u>		
Cleveland Clinic Lerner College of Medicine (CCLCM)	CCLCM Medicine representative to the Case Western Reserve University (CWRU) Faculty Council	/2019 – 12/2021
<u>Regional</u>		
American College of Cardiology Council	Early Career Committee, Massachusetts Chapter	02/2016 – 06/2016
Ohio Chapter of the American College of Cardiology (ACC)	Member, Ohio-ACC 29th Annual Meeting 2019, Abstracts Reviewing Committee; Fellow-in-Training Poster Judge	07/2019 – 07/2019
Indiana Chapter of the American College of Cardiology (ACC)	Indiana ACC Annual Meeting Planning Committee	01/2023 –
Indiana Chapter of the American College of Cardiology (ACC)	Council Member	08/2023 – 08/2025

Indiana Chapter of the American College of Cardiology (ACC)	Chair, Community Outreach & Population Health Task Force	09/2023 –
Indiana State Medical Association (ISMA)	Member, Social Determinants of Health (SDOH) Task Force	08/2023 –
<u>National</u>		
American College of Cardiology	Chair, Fellows-in-Training (FIT) Newsletter Working Group	09/2013 – 03/2015
American College of Cardiology	Fellows-in-Training (FIT) Representative, Communications Work Group, Geriatric Cardiology Section	08/2013 – 04/2017
ACC.org	Associate Editorial Team Lead, Geriatric Cardiology Section, ACC.org Editorial Board	05/2014 – 04/2017
American College of Cardiology	PINNACLE (Practice Innovation and Clinical Excellence) India Writing Group Committee	06/2014 –
Cardiovascular Research Foundation	TCTMD Fellow Talk Blogger	07/2016 – 06/2017
American Heart Association/ American Stroke Association	Early Career Blogging Program	08/2016 – 01/2017
American College of Cardiology	Member, Simulation Working Group	03/2017 – 08/2018
American College of Cardiology	Member, ACC.org Interventional Writing Group	12/2017 –
Society for Cardiovascular Angiography and Interventions	Member, Publications Committee; Member, Structural Heart Disease Council	01/2018 –
Transcatheter Cardiovascular Therapeutics (TCT)	Member, International Complex Cases Reviewing Committee, TCT 2019	07/2019 – 07/2019
American College of Cardiology (ACC)/World Congress of Cardiology (WCC)	Member, ACC.20/WCC Annual Scientific Session 2020 Interventional Challenging Cases Reviewing Committee (Reviewer Team 2)	07/2019 – 11/2019
Society for Cardiovascular Angiography & Interventions	Member, Abstracts Reviewing Committee	01/2020 – 04/2020
American Board of Internal Medicine	Member, Interventional Cardiology Item-Writing Task Force	11/2020 – 12/2021

American College of Cardiology (ACC)	ACC.22 Annual Scientific Session 2022 Abstract Reviewer, Valvular Heart Disease: Special Populations	09/2021 – 11/2021
American Board of Internal Medicine	Member, Cardiovascular Disease Item-Writing Task Force	01/2022 – 03/2022
Society for Cardiovascular Angiography & Interventions	Member, Abstracts Reviewing Committee	01/2022 – 02/2022
American College of Cardiology (ACC)	ACC.23/WCC Annual Scientific Session Abstract Reviewer	10/2022 – 10/2022
Cardiovascular Research Technologies	Member, Abstracts Reviewing Committee	12/2022 – 12/2022
Society for Cardiovascular Angiography & Interventions	Member, Abstracts Reviewing Committee	01/2023 – 02/2023
American College of Cardiology (ACC)	ACC.24 Annual Scientific Session Abstract Reviewer, Abstracts, Complex Clinical Cases or Interventional Challenging Cases	10/2023 – 11/2023
American College of Cardiology (ACC)	ACC.25 Annual Scientific Session Abstract Reviewer, Abstracts, Complex Clinical Cases or Interventional Challenging Cases	10/2024 – 10/2024
American College of Cardiology (ACC)	ACC.25 Annual Scientific Session Abstract Reviewer, Abstracts, Complex Clinical Cases or Interventional Challenging Cases	10/2025 – 10/2025
Society for Cardiovascular Angiography & Interventions	Member, Abstracts Reviewing Committee	01/2024 – 01/2024
Society for Cardiovascular Angiography & Interventions	Member, Abstracts Reviewing Committee	01/2025 – 01/2025
<u>International</u>		
European Society of Cardiology	Member, Clinical Case Reviewing Committee	03/2018 – 03/2018
European Society of Cardiology	Member, Abstracts Reviewing Committee	02/2019 – 02/2019
European Society of Cardiology	Member, Abstracts Reviewing Committee	02/2020 – 02/2020
European Society of Cardiology	Member, Abstracts Reviewing Committee	03/2022 – 04/2022

PATIENT CARE/CLINICAL SERVICE: List activities in service to patients, indicating position, clinical venue and inclusive dates. Include role in administrative, organizational and team activities that improve the environment for clinical care. If the activities extend beyond the local level, indicate the sphere or extent of impact (i.e. regional, national, international).

University Hospitals, Cleveland, OH	Interventional Cardiologist	07/2017 – 01/2019
Cleveland Clinic, Cleveland, OH	Interventional Cardiologist	01/2019 – 12/2021
IU Health, Indianapolis, IN	Cardiovascular Institute Director for Interventional Cardiology Quality and Innovation	02/2022 – 06/2022
Franciscan Health, Lafayette, IN	Interventional Cardiologist	01/2023 – 06/2025
State University of New York, Upstate Medical Center, Syracuse, NY	Interventional Cardiologist	07/2025 – Present

GRANTS/FELLOWSHIPS IN SERVICE: Organize grants to differentiate active from pending/under review. Include your history of past grant support. If a record of effort to obtain funding is expected in your discipline and/or rank, include proposal submitted but not funded.

ACTIVE SERVICE GRANTS/FELLOWSHIPS

Title	Granting Agency	Role	% Effort	Amount	Dates
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COMPLETED SERVICE GRANTS/FELLOWSHIPS

Title	Granting Agency	Role	% Effort	Amount	Dates
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PENDING SERVICE GRANTS AND FELLOWSHIPS

Title	Granting Agency	Role	% Effort	Amount	Dates
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SUBMITTED BUT NOT FUNDED SERVICE GRANTS/FELLOWSHIPS

Title	Granting Agency	Role	% Effort	Amount	Dates
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INVITED PRESENTATIONS – SERVICE

LOCAL

Title	Organization	Date
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REGIONAL

Title	Organization	Date
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NATIONAL

Title	Organization	Date
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INTERNATIONAL

Title	Organization	Date
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PUBLICATIONS: List all publications in a format consistent with your disciplinary style standards (e.g. APA), listing all authors in the order in which they appear in the publication. **Bold your name in citations where multiple authors are listed.** All works must be retrievable. Sort publications by the following categories: Teaching, Research/Creative Activity, Service and also by refereed and non-refereed. Separate articles, proceedings papers, books, book chapters, invited reviews, letters to the editor, editorials, book reviews, invited commentaries and abstracts (including professional standards, protocols, software, multimedia presentations, films or videos and other scholarly/creative works designed for electronic technologies). **Mark in-rank publications with an asterisk * and those as a mentor with a dagger †.** The nature and extent of the your contribution should be presented in the candidate's statement or in the documentation of teaching, research/creative activity or service and not in the CV. List only works that are published, accepted or "in-press." Work submitted, under editorial review or in preparation should not be listed but rather may be reported in the candidate's statement. Candidates for the Three-Year Review and for promotion to Associate Professor should briefly annotate entries to explain the nature and extent of their contribution. If additional explanatory information is needed, include this in an appendix to the dossier.

TEACHING

Refereed

Peer-reviewed Online Educational Content

1. Tsigrelis C, **Kalra A**. Lung abscess. In: **First Consult**, eds. 2012. Available at: http://www.mdconsult.com/das/pdxmd/body/394417939-1131/0?type=med&eid=9-u1.0-_1_mt_5111610.
2. **Kalra A**, Lipman HI. Decision making for older adults. In: **The Essentials of Cardiovascular Care in Older Adults (ECCOA)**. Alexander KP, Bernacki G, Dodson J, Maurer MS, Rich MW, Zieman SJ, eds. 2014. Available at: <http://www.cardiosource.org/Lifelong-Learning-and-MOC/Certified-Learning/SAPs/2014/ECCOA.aspx>.
3. **Kalra A**, Maron BJ. Clinical outcome of hypertrophic cardiomyopathy patients first evaluated at ≥60 years of age. August 18, 2015. Accessed September 15, 2015. <http://www.acc.org/latest-in-cardiology/articles/2015/08/17/13/12/hypertrophic-cardiomyopathy-in-patients-of-advanced-age>.
4. Rehman H, Kleiman NS, **Kalra A**. TAVR: general anesthesia or moderate conscious sedation? In: **Cardiac Interventions Today**, eds. March/April 2019. Accessed July 16, 2019. <https://citoday.com/2019/04/tavr-general-anesthesia-or-moderate-conscious-sedation/>.
5. Dhamija Y, Hafiz AM, **Kalra A**, Kanaan A. Massive thromboembolism, PFO, and acute limb ischemia. In: **Cardiac Interventions Today**, eds. September/October 2019. Accessed November 3, 2019. <https://citoday.com/2019/10/massive-thromboembolism-pfo-and-acute-limb-ischemia/>.

RESEARCH/CREATIVE ACTIVITY

Refereed

Original Research

1. Rajaram SS, Desai NK, **Kalra A**, Gajera M, Cavanaugh SK, Brampton W, Young D, Harvey S, Rowan K. Pulmonary artery catheters for adult patients in intensive care. *Cochrane Database Syst Rev*. 2013;2013:CD003408.
2. **Kalra A**, Maharaj V, Johannsen RA, Hollenberg SM. Catheterization laboratory activation during mechanical cardiopulmonary resuscitation - when should we say "No?" *Catheter Cardiovasc Interv*. 2014;83:58-64.
3. **Kalra A**, Shroff GR, Erlien D, Gilbertson DT, Herzog CA. Perflutren-based echocardiographic contrast in patients with right-to-left intracardiac shunts. *JACC Cardiovasc Imaging*. 2014;7:206-207.
4. **Kalra A**, Pokharel Y, Hira RS, Risch S, Vicera V, Li Q, Kalra RN, Kerkar PG, Kumar G, Maddox TM, Oetgen WJ, Glusenka N, Turakhia MP, Virani SS. Cardiovascular disease performance measures in the outpatient setting in India: insights from the American College of Cardiology's PINNACLE India Quality Improvement Program (PIQIP). *J Am Heart Assoc*. 2015;4:e001910.
5. Johnson BK, Garberich RF, Henry TD, Katsiyannis WT, Sengupta J, **Kalra A**, Hauser RG, Lardy ME, Newell MC. Eligibility and utilization of implantable cardioverter-defibrillators (ICD) in appropriate patients in a regional STEMI system. *Heart Rhythm*. 2016;13:538-546.
6. Pokharel Y, Wei J, Hira RS, **Kalra A**, Shore S, Kerkar PG, Kumar G, Risch S, Vicera V, Oetgen WJ, Deswal A, Turakhia MP, Glusenka N, Virani SS. Guideline directed medication use in patients with heart failure with reduced ejection fraction in India: American College of Cardiology's PINNACLE India Quality Improvement Program. *Clin Cardiol*. 2016;39:145-149.
7. **Kalra A**, Harris KM, Maron BA, Maron MS, Garberich RF, Haas TS, Lesser JR, Maron BJ. Relation of Doppler tissue imaging parameters with heart failure progression in hypertrophic cardiomyopathy. *Am J Cardiol*. 2016;117:1808-1814.
8. **Kalra A**, Pokharel Y, Glusenka N, Wei J, Kerkar PG, Oetgen WG, Virani SS. Gender disparities in cardiovascular care access and delivery in India: insights from the American College of Cardiology's PINNACLE India Quality Improvement Program (PIQIP). *Int J Cardiol*. 2016;215:248-251.
9. Virani SS, Pokharel Y, Steinberg L, Chan W, Akeroyd JM, Gowani SA, **Kalra A**, Polsani V, Miedema MD, Jones PH, Nambi V, Petersen LA, Ballantyne CM. Provider understanding of the 2013 ACC/AHA cholesterol guideline. *J Clin Lipidol*. 2016;10:497-504.
10. Khera S, Kolte D, Gupta T, Goldsweig A, Velagapudi P, **Kalra A**, Tang GH, Aronow WS, Fonarow GC, Bhatt DL, Aronow HD, Kleiman NS, Reardon MJ, Gordon PC, Sharaf BL, Abbott JD. Association between hospital volume and 30-Day readmissions following transcatheter aortic valve replacement. *JAMA Cardiol*. 2017;2:732-741.
11. **Kalra A**,** Rehman H,** Ramchandani M, Barker CM, Lawrie GM, Reul RM, Reardon MJ, Kleiman NS. Early Trifecta valve failure: report of a cluster of cases from a tertiary care referral center. *J Thorac Cardiovasc Surg*. 2017;154:1235-1240. †

12. **Kalra A**,** Gupta T,** Kolte D, Khera S, Villablanca PA, Goel K, Bortnick AE, Aronow WS, Panza JA, Kleiman NS, Abbott JD, Slovut DP, Taub CC, Fonarow GC, Reardon MJ, Rihal CS, Garcia MJ, Bhatt DL. Regional variation in utilization, in-hospital mortality, and health-care resource use of transcatheter aortic valve implantation in the United States. *Am J Cardiol*. 2017;120:1869-1876.
13. Hafiz AM, **Kalra A**, Ramadan R, Poulin M-F, Andalib A, Phillips CT, Bhatt DL, Reardon MJ, Kleiman NS, Popma JJ. Clinical or symptomatic leaflet thrombosis following transcatheter aortic valve replacement: insights from the U.S. FDA MAUDE Database. *Struct Heart*. 2017;1:5-6, 256-264.
14. Bleiziffer S, Erlebach M, Simonato M, Pibarot P, Webb J, Capek L, Windecker S, George I, Sinning JM, Horlick E, Napodano M, Holzhey DM, Petursson P, Cerillo A, Bonaros N, Ferrari E, Cohen MG, Baquero G, Jones TL, **Kalra A**, Reardon MJ, Chhatrwalla A, Gama Ribeiro V, Alnasser S, Van Mieghem NM, Rustenbach CJ, Schofer J, Garcia S, Zeus T, Champagnac D, Bekerredjian R, Kornowski R, Lange R, Dvir D. Incidence, predictors and clinical outcomes of residual stenosis after aortic valve-in-valve procedures. *Heart*. 2018;104:828-834.
15. **Kalra A**, Raza S, Puri R, Deo SV, Auffret V, Khera S, Attizzani GF, Zia A, Khan MS, Reardon. Subclinical leaflet thrombosis and clinical outcomes after TAVR: a systematic review and meta-analysis. *Struct Heart*. 2018;2:223-228.
16. Deo SV, Raza S, **Kalra A**, Deo VS, Altarabsheh SE, Markowitz AH, Sabik JF, Park SJ. Admissions for infective endocarditis in intravenous drug users. *J Am Coll Cardiol*. 2018;71:1596-1597.
17. Gupta T, Khera S, Kolte D, Goel K, **Kalra A**, Villablanca PA, Aronow HD, Abbott JD, Fonarow GC, Taub CC, Kleiman NS, Wiesz G, Inglessis I, Elmariah S, Rihal CS, Garcia MJ, Bhatt DL. Transcatheter versus surgical aortic valve replacement in patients with prior coronary artery bypass grafting: trends in utilization and propensity-matched analysis of in-hospital outcomes. *Circ Cardiovasc Interv*. 2018;11:e006179.
18. Villablanca P, Olmedo W, Weinreich M, Gupta T, Mohananey D, Albuquerque F, Kassas I, Briceño D, Sanina C, Brevik T, Ramakrishna H, Attubato M, Menegus M, Wiley J, Ong E, **Kalra A**. Staged percutaneous intervention for concurrent chronic total occlusions in patients with ST-elevation myocardial infarction: a systematic review and meta-analysis. *J Am Heart Assoc*. 2018;7:e008415.
19. Khera S, Villablanca PA, Kolte D, Gupta T, Khan MH, Velagapudi P, **Kalra A**, Kleiman N, Aronow HD, Abbott JD, Rosenfield K, Drachman DE, Bangalore S, Bhatt DL, Naidu SS. Long-term outcomes of drug-eluting stents versus bare-metal stents in end-stage renal disease patients on dialysis: a systematic review and meta-analysis. *Cardiol Rev*. 2018;26:277-286.
20. Siddiqi TJ, Usman MS, Khan MS, Sreenivasan J, Kassas I, Riaz H, Raza S, Deo SV, Sharif H, **Kalra A**, Yadav N. Meta-analysis comparing primary percutaneous coronary intervention versus pharmacoinvasive therapy in transfer patients with ST-elevation myocardial infarction. *Am J Cardiol*. 2018;122:542-547.
21. Megaly M, Abraham B, Saad M, Omer M, Elbadawi A, Tawadros M, Khalil C, Nairoz R, Almomani A, Sengupta J, **Kalra A**, Brilakis E, Gafoor S. Impact of atrial fibrillation on the outcomes after MitraClip®: a meta-analysis. *Struct Heart*. 2018;2:531-537.

22. Megaly M, Khalil C, Abraham B, Saad M, Tawadros M, Stanberry L, **Kalra A**, Goldsmith SR, Bart B, Bae R, Brilakis ES, Gössl M, Sorajja P. Impact of transcatheter mitral valve repair on left ventricular remodeling in secondary mitral regurgitation: a meta-analysis. *Struct Heart*. 2018;2:541-547.
23. Nadeem F, Tsushima T, Ladas TP, Thomas RB, Patel SM, Saric P, Patel T, Lipinski J, Li J, Costa MA, Simon DI, **Kalra A**, Attizzani GF, Arruda MS, Mackall J, Thal SG. Impact of right ventricular pacing in patients who underwent implantation of permanent pacemaker after transcatheter aortic valve implantation. *Am J Cardiol*. 2018;122:1712-1717.
24. Khan MS, Usman MS, Akhtar T, Raza S, Deo S, **Kalra A**, Nasim MH, Yadav N, Bhatt DL. Meta-analysis evaluating the effect of left coronary dominance on outcomes after percutaneous coronary intervention. *Am J Cardiol*. 2018;122:2026-2034.
25. **Kalra A**, Bhatt DL, Wei J, Anderson KL, Rykowski S, Kerkar PG, Kumar G, Maddox TM, Oetgen WJ, Virani SS. Electronic health records and outpatient cardiovascular disease care delivery: insights from the American College of Cardiology's PINNACLE India Quality Improvement Program (PIQIP). *Ind Heart J*. 2018;70:750-752.
26. Younes A, Hoff JS, Bojansky AM, **Kalra A**. Appropriate use criteria adoption for PCI at an academic medical center. *Eur Heart J*. 2018;39:4136-4138. †
27. Rawasia WF, Khan MS, Usman MS, Siddiqi TJ, Mujeeb FA, Chundrigar M, **Kalra A**, Alkhouli M, Kavinsky CJ, Bhatt DL. Safety and efficacy of transcatheter aortic valve replacement for native aortic valve regurgitation: a systematic review and meta-analysis. *Catheter Cardiovasc Interv*. 2019;93:345-353.
28. Li J, Patel SM, Nadeem F, Thakker P, Al-Kindi S, Thomas R, Makani A, Hornick JM, Patel T, Lipinski J, Ichibori Y, Davis A, Markowitz AH, Bezerra HG, Simon DI, Costa MA, **Kalra A**, Attizzani GF. Impact of residual coronary atherosclerosis on transfemoral transcatheter aortic valve replacement. *Catheter Cardiovasc Interv*. 2019;93:545-552.
29. Khan MS, Siddiqi TJ, Usman MS, Riaz H, Khan AR, Murad MH, **Kalra A**, Figueredo VM, Bhatt DL. Meta-analysis comparing culprit vessel only versus multivessel percutaneous coronary intervention in patients with acute myocardial infarction patients and cardiogenic shock. *Am J Cardiol*. 2019;123:218-226.
30. Megaly M, Rofael M, Saad M, Rezaq A, Kohl LP, **Kalra A**, Shishehbor M, Soukas P, Abbott JD, Brilakis ES. Outcomes with drug-coated balloons in small-vessel coronary artery disease. *Catheter Cardiovasc Interv*. 2019;93:E277-E286.
31. Panhwar MS, Li J, Zidar DA, Clevenger J, Lipinski J, Patel TR, Karim A, Saric P, Patel SM, **Kalra A**, Attizzani G. Outcomes among patients with heart failure with reduced ejection fraction undergoing transcatheter aortic valve replacement: minimally invasive strategy versus conventional strategy. *J Invasive Cardiol*. 2019;31:15-20. †
32. **Kalra A**,** Rehman H,** Cochran JM, Peterson L, Khera S, Puri R, Kolte D, Gupta T, Attizzani GF, Bhatt DL, Barker CM, Reardon MJ, Kleiman NS. Balloon predilation in transcatheter aortic valve replacement with self-expanding valves. *Struct Heart*. 2019;3:65-71. †
33. Panhwar MS, **Kalra A**, Gupta T, Kolte D, Khera S, Bhatt DL, Ginwalla M. Effect of influenza on outcomes in patients with heart failure. *JACC Heart Fail*. 2019;7:112-117. †
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Abstracts (oral presentations only)

National/International Meetings

1. **Kalra A.** Cardiac tamponade as manifestation of Rickettsial infection. Chest. 2010;138(4_MeetingAbstracts):37A. Oral Presentation, **Chest 2010 Sessions**, Vancouver, BC, Canada, November 1, **2010**.
2. **Kalra A.** Acute hypotensive transfusion reaction with concomitant use of ACE inhibitors. Chest. 2010;138(4_MeetingAbstracts):69A. Oral Presentation, **Chest 2010 Sessions**, Vancouver, BC, Canada, November 2, **2010**.
3. **Kalra A.** Triad of interstitial pneumonia, eosinophilia, and eosinophilic pleural effusion: a rare paraneoplastic manifestation of lung adenocarcinoma. Chest. 2010;138(4_MeetingAbstracts):101A. Oral Presentation, **Chest 2010 Sessions**, Vancouver, BC, Canada, November 3, **2010**.
4. **Kalra A.** Iatrogenic pulmonary artery rupture during Swan-Ganz placement: novel therapeutic approach. Oral Presentation, **European Society of Cardiology Congress**, Paris, France, August **2011**.
5. **Kalra A.** Iatrogenic pulmonary artery rupture: a novel therapeutic approach. Oral Presentation, **American College of Cardiology Annual Scientific Sessions**, Chicago, IL, March 26, **2012**.
6. **Kalra A.** Peripartum acute ST elevation myocardial infarction from spontaneous coronary artery dissection. Challenging Cases Presentation, **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, Miami, FL, October 23, **2012**.
7. **Kalra A.** Endovascular repair of descending thoracic aortic pseudoaneurysm in a patient with Loeys-Dietz II syndrome. Challenging Cases Presentation, **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, Miami, FL, October 23, **2012**.
8. **Kalra A.** Peripartum acute ST elevation myocardial infarction from spontaneous coronary artery dissection. Winner, Oral Presentation, **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, Miami, FL, October 26, **2012**.
9. **Kalra A.** Successful resuscitation utilizing LUCAS chest compression system with sequential circulatory support (IABP & VA-ECMO) during PCI for STEMI. Oral Presentation, Meet the Experts, **American College of Cardiology Annual Scientific Sessions**, San Francisco, CA, March 11, **2013**.
10. **Kalra A.** Post-myocardial infarction risk stratification of patients at risk for sudden cardiac arrest by contrast-enhanced magnetic resonance imaging scar quantification. J Am Coll Cardiol. 2014;63(12_S):A2155-A2155. Young Investigator Award Finalist, Oral Presentation, **American College of Cardiology Annual Scientific Sessions**, Washington, DC, March 31, **2014**.
11. **Kalra A.** Doppler tissue imaging predicts progressive heart failure prognosis in hypertrophic cardiomyopathy. Finalist, Oral Presentation, **Tenth Annual Northwestern Cardiovascular Young Investigators' Forum 2014**, Chicago, IL, November 7, **2014**.
12. **Kalra A.** "Silent" atrial fibrillation burden in patients with hypertrophic cardiomyopathy. J Am Coll Cardiol. 2015;65(10_S): A269-A269. Moderated Poster Presentation, **American College of Cardiology Annual Scientific Sessions**, San Diego, CA, March 14, **2015**.

13. **Kalra A.** Cardiovascular disease performance measures in the outpatient setting in India: insights from the American College of Cardiology's PINNACLE India Quality Improvement Program (PIQIP). Oral Presentation. **American Association of Cardiologists of Indian Origin Meeting**, San Diego, CA, March 15, **2015**.
14. **Kalra A.** Gender disparities in cardiovascular care access and delivery in India: insights from the American College of Cardiology's PINNACLE India Quality Improvement Program (PIQIP). J Am Coll Cardiol. 2016;67(13_S):1849-1849. Moderated Poster Presentation, **American College of Cardiology Annual Scientific Sessions**, Chicago, IL, April 3, **2016**.
15. **Kalra A.** Leaflet thrombosis following transcatheter aortic valve replacement: insights from the MAUDE database. Late-Breaking Science Presentation, **European Society of Cardiology Congress**, Barcelona, Spain, August 29, **2017**.
16. **Kalra A.** Aortic valve replacement in bioprosthetic failure: insights from the Society of Thoracic Surgeons National Database. Richard E. Clark Memorial Paper, **Society of Thoracic Surgeons Annual Meeting**, San Diego, CA, January 29, **2019**.
17. **Kalra A.** Meta-analysis comparing outcomes in patients undergoing transcatheter aortic valve implantation with versus without percutaneous coronary intervention. **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, San Francisco, CA, September 26, **2019**.
18. **Kalra A.** Trends in the use of short-term mechanical circulatory support in the United States – an analysis of the 2012 – 2015 National Inpatient Sample. **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, San Francisco, CA, September 28, **2019**.
19. **Kalra A.** Off-label use of direct oral anticoagulants in patients receiving mechanical and bioprosthetic heart valves: insights from The Society Of Thoracic Surgeons National Database. **Landmark session: Late-breaking Trials - Structural, Cardiovascular Research Technologies Virtual**, March 6, **2021**.
20. **Kalra A.** Valve-in-valve vs reoperative surgical aortic valve replacement in patients with failed aortic bioprosthesis: insight from Nationwide Readmission Database. **Featured Clinical Research: Transcatheter Aortic Valve Replacement, Transcatheter Valve Therapeutics Annual Scientific Sessions**, July 22, **2021**.
21. **Kalra A.** Invasive versus medical management in patients with chronic kidney disease and non-ST-elevation myocardial infarction. **Key Coronary Intervention Abstracts, Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, October 20, **2021**.
22. **Kalra A.** Mapping and quantification of the Twitter footprint of cardiologists. **Best of European Heart Journal Digital Health - Editors' choice. ESC Digital Summit 2021**, October 22, **2021**.
23. **Kalra A.** A blood biomarker-based diagnosis of reperfused hemorrhagic myocardial ST-elevation myocardial infarction predicts acute outcomes. **Late-breaking Clinical Science - Hot Topics, Cardiovascular Research Technologies**, March 12, **2024**.

Press Mentions

For select press mentions and author interviews, visit my [portfolio](#).

January 5, 2026
(Date)

A handwritten signature in green ink that reads "Ankur Kalra". The signature is fluid and cursive, with a long horizontal stroke extending from the end of the name.

(Signature of Candidate)