

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
akalra@alumni.harvard.edu

EDUCATION:**POSTDOCTORAL**

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| 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

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

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| 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)

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| 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 |

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| 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:

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| 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)

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|---|-----------------------------|-------------------|
| 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 |

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| 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)

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| 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):

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| 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 |

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| 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

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| 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

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| 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 |

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| 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 DeBaakey 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 |

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| 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 |

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| 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: Valve-in-valve vs reoperative surgical aortic valve replacement in patients with failed aortic bioprosthesis: insight from Nationwide Readmission Database. | EuroIntervention | 2022 |
| Finalist, Best Clinical Research Valve-in-valve vs reoperative surgical aortic valve replacement in patients with failed aortic bioprosthesis: insight from Nationwide Readmission Database. | EuroIntervention/EuroPCR | 2023 |
| Late-Breaking Clinical Science Presenter Late-breaking Clinical Science - Hot Topics: A blood biomarker-based diagnosis of reperfused hemorrhagic ST-elevation myocardial infarction predicts acute outcomes. | Cardiovascular Research Technologies (CRT) | 2024 |
| Top 10% Most Published Clinician 2021 – 2024 | Doximity | 2021 – 2024 |
| Top 5% Most Cited Clinician 2025 | Doximity | 2025 |
| Healthcare Research All-Stars 2025 Cardiology | Avant-Garde Health | 2025 |
| 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 |

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| 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 |

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| 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 |
| 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 |
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| 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 |

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

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| 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

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| 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

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| 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

| Individual | Origin | Destination |
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| 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) |

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| 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.

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| Fellow training | Active beside 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 |

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| 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 |
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| 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 |

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| 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 |
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| 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 |

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| 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 |

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| 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 |

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| 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 | |

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| “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 |
| UNIVERSITY Activity | Role | Inclusive Dates |

PROFESSIONAL SERVICE:

LOCAL

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| Organization | Activity | Inclusive Dates |
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REGIONAL

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| Organization | Activity | Inclusive Dates |
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NATIONAL/ INTERNATIONAL

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

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 |

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|---|--|-------------------|
| 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 |

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| 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 |

International

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|--------------------------------|---|-------------------|
| 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).

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|-------------------------------------|--|-------------------|
| 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 |
|-------|-----------------|------|----------|--------|-------|
|-------|-----------------|------|----------|--------|-------|

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.
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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**.
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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**.
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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**.
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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**.
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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**.
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Press Mentions

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

January 5, 2026
(Date)

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

(Signature of Candidate)