

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



PREAMBLE: I am Chief, Division of Cardiology, Department of Medicine, structural heart interventional cardiologist, director of the cardiac catheterization laboratories, and associate professor of medicine at State University of New York, Upstate Medical University and Norton College of Medicine in Syracuse, New York. 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 an 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 350 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 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 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**

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

Director,
Cardiac Catheterization
Laboratories

06/2026 – Present

LICENSURE, CERTIFICATION, SPECIALTY BOARD STATUS (as applicable for discipline):

Credential	Number	Inclusive Dates
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
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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

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
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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
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Scholar, (200th Anniversary Essay Contest) For " <i>Technology Transcends Locoregional Barriers to Patient Care.</i> "	The New England Journal of Medicine (NEJM)	2012
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Winner, IABP Scholarship Program For " <i>Peripartum Acute ST Elevation Myocardial Infarction from Spontaneous Coronary Artery Dissection.</i> "	Transcatheter Cardiovascular Therapeutics (TCT) 2012	2012
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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
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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 DeBakey Heart and Vascular Center, Houston Methodist Hospital	2017
Late-Breaking Science Presenter <i>Late-breaking registry results: 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
Early Career Research Grant <i>Loss of life expectancy after transcatheter aortic valve replacement: analysis of the STS/ACC TVT registry.</i>	Society for Cardiovascular Angiography and Interventions	2026
First Place, Abstract Poster Session <i>Firearm use and cardiovascular risk factors in the United States.</i>	5th Annual SUNY Upstate Medical University, Department of Medicine Research Retreat	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
Castle Connolly Top Doctors	Castle Connolly	2026
Castle Connolly Top AAPI Doctor	Castle Connolly	2026

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

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 Hanif, MD	Internal Medicine Resident, SUNY Upstate Medical University	To be determined

Nawshin Kabir, DO	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 Majmundar, 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
Kriti Soni, MD	Internal Medicine Resident, SUNY Upstate Medical University	To be determined
Tanvir (NLN), MD	Internal Medicine Resident, SUNY Upstate Medical University	To be determined

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

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
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
Expanding rubric of structural heart interventions at Upstate	Grand Rounds, Department of Anesthesia SUNY Upstate Medical University	09/16/2026

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
Panel Discussant: Live case presentations: Calcified bifurcation lesions	Complex Coronary Cases 2026 The Mount Sinai Hospital New York, NY	06/18/2026
Panel Discussant: Live case presentations: Calcified undilatable lesions	Complex Coronary Cases 2026 The Mount Sinai Hospital New York, NY	06/18/2026
Speaker: Bifurcation/Left Main: Getting out of trouble — dedicated stents Session: Complex Cases with the Masters: Tips & Tricks	Complex Coronary Cases 2026 The Mount Sinai Hospital New York, NY	06/18/2026

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
Hemorrhagic myocardial infarction: new paradigm for management	Cardiology Fellows & Faculty Conference, Hennepin Healthcare, Minneapolis, MN	02/03/2026
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
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
Moderator: Late-breaking clinical science: Structural	Cardiovascular Research Technologies Washington, DC	03/09/2026
Cases with the Masters: BATMAN-assisted valve-in-MAC TMVR: Successful LVOT protection and the importance of iatrogenic ASD surveillance	Transcatheter Cardiovascular Therapeutics San Diego, CA	10/31/2026 – 11/03/2026

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
Speaker: Hemorrhagic myocardial infarction: the hidden complication of reperfusion Session: ACS in 2026	India Live Fellows Course New Delhi, India	03/19/2026
Chairperson Session: Learn from Masters	India Live New Delhi, India	03/20/2026
Chairperson Session: Peripheral and Aortic Interventions	India Live New Delhi, India	03/20/2026
Hemorrhagic vs Non-Hemorrhagic Myocardial Infarction: My Perspective	Department of Cardiology Grand Rounds, Sri Ramachandra Institute of Higher Education and Research Chennai, India	03/27/2026

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
Life expectancy after transcatheter aortic valve replacement: analysis of the STS/ACC TVT registry	Society for Cardiovascular Angiography & Interventions Early Career Research Grant	\$70,000	Principal Investigator
Life expectancy after transcatheter aortic valve replacement: analysis of the STS/ACC TVT registry	Department of Medicine, State University of New York, Upstate Medical University	\$20,000	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
At the forefront of novel breakthroughs in heart attack care: hemorrhagic MI, xAI, and dexrazoxane.	Central New York Biotech Accelerator 10th Anniversary Celebration	10/08/2026

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
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SCHOOL Activity	Role	Inclusive Dates
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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 – Present
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Journal: *US Cardiology Review* Editorial Board 11/2020 – Present

Journal: *US Cardiology Review* 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

Journal: *Circulation: Cardiovascular Interventions*
Dates of Service: – 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
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Local

Cleveland Clinic Lerner College of Medicine (CCLCM)	CCLCM Medicine representative to the Case Western Reserve University (CWRU) Faculty Council	/2019 – 12/2021
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Regional

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 <i>or</i> Interventional Challenging Cases	10/2023 – 11/2023
American College of Cardiology (ACC)	ACC.25 Annual Scientific Session Abstract Reviewer, Abstracts, Complex Clinical Cases <i>or</i> Interventional Challenging Cases	10/2024 – 10/2024
American College of Cardiology (ACC)	ACC.26 Annual Scientific Session Abstract Reviewer, Abstracts, Complex Clinical Cases <i>or</i> 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
Society for Cardiovascular Angiography & Interventions	Member, Abstracts Reviewing Committee	01/2026 – 01/2026

American Heart Association (AHA)	American Heart Association Annual Scientific Session 2026 Abstract Reviewer	06/2026 – 07/2026
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International

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	Structural Heart Interventional Cardiologist	07/2017 – 01/2019
Cleveland Clinic, Cleveland, OH	Structural Heart 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	Structural Heart Interventional Cardiologist	01/2023 – 06/2025
State University of New York, Upstate Medical Center, Syracuse, NY	Structural Heart 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. †
34. Ichibori Y, Li J, Davis A, Patel T, Lipinski J, Panhwar MS, Saric P, Qureshi G, Patel S, Sareyyupoglu B, Markowitz AH, Bezerra HG, Costa MA, Zidar DA, **Kalra A**, Attizzani GF. Short-term and long-term outcomes of patients undergoing urgent transcatheter aortic valve replacement under a minimalist strategy. *J Invasive Cardiol*. 2019;31:E30-E36.

35. Bevan GH, **Kalra A**, Josephson RA, Al-Kindi SG. Level of scientific evidence underlying the current American College of Cardiology/American Heart Association clinical practice guidelines. *Circ Cardiovasc Qual Outcomes*. 2019;12:e005293.
36. Khera S, Kolte D, Deo SV, **Kalra A**, Gupta T, Bansal EJ, Clevenger JR, Abbott JD, Kleiman NS, Bhatt DL, Fonarow GC, Khalique O, Kodali SK, Palacios IF, Inglessis I, Mack MJ, Thourani VH, Attizzani GF, Reardon MJ, Leon MB, Drachman DE, Elmariah S. Derivation and external validation of a simple risk tool to predict 30-day hospital readmissions after transcatheter aortic valve replacement. *EuroIntervention*. 2019;15:155-163.
37. Panhwar MS, **Kalra A**, Gupta T, Kolte D, Khera S, Bhatt DL, Ginwalla M. Relation of concomitant heart failure with outcomes in patients hospitalized with influenza. *Am J Cardiol*. 2019;123:1478-1480. †
38. Ichibori Y, Li J, Davis A, Patel T, Lipinski J, Panhwar MS, Saric P, Qureshi G, Patel S, Markowitz AH, Bezerra HG, Costa MA, Zidar DA, **Kalra A**, Attizzani GF. Feasibility and safety of adopting next day discharge as first-line option after transcatheter aortic valve replacement. *J Invasive Cardiol*. 2019;31:64-72. †
39. Saric P, Lipinski J, Al-Kindi SG, Patel SM, Kobe D, Peters M, Panhwar MS, Patel T, Clevenger J, Li J, **Kalra A**, Attizzani GF. The prognostic impact of the geriatric nutritional risk index in patients with severe aortic stenosis who undergo transcatheter aortic valve replacement. *Struct Heart*. 2019;3:250-251. †
40. Mohananey D, Villablanca P, Gupta T, Ranka S, Bhatia N, Adegala O, Ando T, Wang DD, Wiley JM, Eng M, **Kalra A**, Ramakrishna H, Shah B, O'Neill W, Saucedo J, Bhatt DL. Association of peripheral artery disease with in-hospital outcomes after endovascular transcatheter aortic valve replacement. *Catheter Cardiovasc Interv*. 2019;94:249-255.
41. Raza S, Deo SV, **Kalra A**, Zia A, Altarabsheh SE, Deo VS, Mustafa RR, Younes A, Rao SV, Markowitz AH, Park SJ, Costa MA, Simon DI, Bhatt DL, Sabik JF 3rd. Stability after initial decline in coronary revascularization procedures in the United States from 2005 to 2014. *Ann Thorac Surg*. 2019;108:1404-1408.
42. Gupta T, Kolte D, Khera S, Goel K, Villablanca PA, **Kalra A**, Abbott JD, Elmariah S, Fonarow GC, Rihal CS, Garcia MJ, Weisz G, Bhatt DL. The changing landscape of aortic valve replacement in the United States. *EuroIntervention*. 2019;15:e968-e974.
43. Deo SV, Raza S, Altarabsheh SE, Deo VS, Elgudin YE, Marsia S, Mitchell S, Chang C, **Kalra A**, Khera S, Kolte D, Costa M, Simon D, Markowitz AH, Park SJ, Sabik JF 3rd. Risk calculator to predict 30-day readmission after coronary artery bypass: a strategic decision support tool. *Heart Lung Circ*. 2019;28:1896-1903.
44. Harris KM, Witt D, **Kalra A**, Bae R, Jay D, Newell M, Stanberry L, Tung M, Knickelbine T. A treadmill workstation for reading echocardiograms. *Eur Heart J*. 2019;40:2756-2758.
45. Panhwar MS, Ginwalla M, **Kalra A**, Gupta T, Kolte D, Khera S, Bhatt DL, Sabik JF 3rd. Association of acute venous thromboembolism with in-hospital outcomes of coronary artery bypass graft surgery. *J Am Heart Assoc*. 2019;8:e013246. †

46. Lateef N, Khan MS, Deo SV, Yamani N, Riaz H, Virk HUH, Khan SU, Hedrick DP, Kanaan A, Reed GW, Krishnaswamy A, Puri R, Kapadia SR, **Kalra A**. Meta-analysis comparing outcomes in patients undergoing transcatheter aortic valve implantation with versus without percutaneous coronary intervention. *Am J Cardiol*. 2019;124:1757-1764. †
47. Panhwar MS,** Gupta T,** Karim A, Khera S, Puri R, Nallamothu BK, Menon V, Khot UN, Bhatt DL, Kapadia SR, Naidu SS, **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. *Struct Heart*. 2019;3:499-506. †
48. **Kalra A**,** Raza S,** Hussain M, Shorbaji K, Delozier S, Deo SV, Khera S, Kleiman NS, Reardon MJ, Kolte D, Gupta T, Mustafa R, Bhatt DL, Sabik JF 3rd. Aortic valve replacement in bioprosthetic failure: insights from The Society of Thoracic Surgeons national database. *Ann Thorac Surg*. 2020;110:1637-1642.
49. Sharkey SW, **Kalra A**, Henry TD, Smith TD, Pink VR, Lesser JR, Garberich RF, Maron MS, Maron BJ. Coexistence of acute takotsubo syndrome and acute coronary syndrome. *Catheter Cardiovasc Interv*. 2020;96:825-829.
50. Panhwar MS, Deo SV, Gupta T, Khera S, Kanaa'N A, Svensson LG, Kapadia SR, Puri R, Hedrick DP, Lahorra JA, Bakaeen F, **Kalra A**. Weekend operation and outcomes of patients admitted for nonelective coronary artery bypass surgery. *Ann Thorac Surg*. 2020;110:152-157. †
51. Alkhouli M, Alqahtani F, **Kalra A**, Gafoor S, Alhajji M, Alreshidan M, Holmes DR, Lerman A. Trends in characteristics and outcomes of patients undergoing coronary revascularization in the United States, 2003-2016. *JAMA Netw Open*. 2020;3:e1921326.
52. Bandyopadhyay D, Chakraborty S, Amgai B, Kapadia SR, Braunwald E, Naidu SS, **Kalra A**. Association of hypertrophic obstructive cardiomyopathy with outcomes following transcatheter aortic valve replacement. *JAMA Netw Open*. 2020;3:e1921669.
53. Tsushima T, Nadeem F, Al-Kindi S, Clevenger JR, Bansal EJ, Wheat HL, **Kalra A**, Attizzani GF, Elgudin Y, Markowitz A, Costa MA, Simon DI, Arruda MS, Mackall JA, Thal SG. Risk prediction model for cardiac implantable electronic device implantation after transcatheter aortic valve replacement. *JACC Clin Electrophysiol*. 2020;6:295-303.
54. Mejía-Rentería H, Nombela-Franco L, Paradis JM, Lunardi M, Lee JM, Amat-Santos IJ, Veiga Fernandez G, **Kalra A**, Bansal EJ, de la Torre Hernandez JM, Rodés-Cabau J, Ribichini FL, Escaned J; Collaborators. Angiography-based quantitative flow ratio versus fractional flow reserve in patients with coronary artery disease and severe aortic stenosis. *EuroIntervention*. 2020;16:e285-e292.
55. Khan MS, Khan AR, Khan AI, Seo M, Yasmin F, Usman MS, Moustafa A, Schmid CH, **Kalra A**, Ikram S. Comparison of revascularization strategies in patients with acute coronary syndrome and multivessel coronary disease: A systematic review and network meta-analysis. *Catheter Cardiovasc Interv*. 2020;96:E447-E454. †
56. Khan MS, Khan MS, Ansari ZN, Siddiqi TJ, Khan SU, Riaz IB, Asad Z, Mandrolia J, Wason J, Warraich H, Stone GW, Bhatt DL, Kapadia SR, **Kalra A**. Prevalence of multiplicity and appropriate adjustments among cardiovascular randomized clinical trials published in major medical journals. *JAMA Netw Open*. 2020;3:e203082. †

57. Kwok CS, **Kalra A**, Velagapudi P, Park K, Mohamed M, Alraies MC, Cheng RK, Bagur R, Mamas MA. Comparison of 30-day unplanned readmissions to the index versus nonindex hospital after percutaneous coronary intervention. *Am J Cardiol*. 2020;125:1287-1294.
58. Lipinski J, Patel SM, Patel TR, Kobe D, Saric P, Panhwar M, Nadeem F, Li J, Clevenger JR, Ichibori Y, Fares A, Lang K, Bezerra HG, Sareyyupoglu B, Medalion B, Park S, Deo S, Elgudin Y, Markowitz A, Simon DI, Costa MA, **Kalra A**, Attizzani GF. Transcatheter valve implantation for failed surgical aortic and mitral bioprostheses: a single-center experience. *J Invasive Cardiol*. 2020;32:186-193.
59. Alqahtani F, Welle GA, Elsisy MF, **Kalra A**, Alhajji M, Boubas W, Berzingi C, Alkhouli M. Incidence, characteristics, and outcomes of acute myocardial infarction among patients admitted with acute exacerbation of chronic obstructive lung disease. *COPD*. 2020;17:261-268.
60. Mehta N, **Kalra A**, Nowacki AS, Anjewierden S, Han Z, Bhat P, Carmona-Rubio AE, Jacob M, Procop GW, Harrington S, Milinovich A, Svensson LG, Jehi L, Young JB, Chung MK. Association of use of angiotensin-converting enzyme inhibitors and angiotensin II receptor blockers with testing positive for coronavirus disease 2019 (COVID-19). *JAMA Cardiol*. 2020;5:1020-1026.
61. Bandyopadhyay D, Amgai B, Jain V, Chakraborty S, Patel N, Hajra A, Ghosh RK, **Kalra A**, Naidu SS. Transcatheter aortic valve replacement in patients with bicuspid versus trileaflet aortic valve: a propensity-matched analysis. *Struct Heart*. 2020;4:5, 435-437. †
62. Tripathi B, Kumar V, **Kalra A**, Gupta T, Sawant AC, Sharma P, Arora S, Panhwar MS, Gopalan R, Deshmukh A, Pershad A, Gulati M, Bhatt DL. Influence of influenza infection on in-hospital acute myocardial infarction outcomes. *Am J Cardiol*. 2020;130:7-14.
63. Khan MZ, Khan MU, **Kalra A**, Krupica T, Kaluski E, Khan SU. Transcatheter versus surgical aortic valve replacement in patients with end stage renal disease. *Catheter Cardiovasc Interv*. 2020;96:1102-1109.
64. Jabri A, **Kalra A**, Kumar A, Alameh A, Adroja S, Bashir H, Nowacki AS, Shah R, Khubber S, Kanaa'N A, Hedrick DP, Sleik KM, Mehta N, Chung MK, Khot UN, Kapadia SR, Puri R, Reed GW. Incidence of stress cardiomyopathy during the coronavirus disease 2019 pandemic. *JAMA Netw Open*. 2020;3:e2014780. †
65. Kumar A, Khan SU, **Kalra A**. COVID-19 pandemic: a sentiment analysis. *Eur Heart J*. 2020;41:3782-3783. †
66. Khan SU, Singh M, Valavoor S, Khan MU, Lone AN, Khan MZ, Khan MS, Mani P, Kapadia SR, Michos ED, Stone GW, **Kalra A**,** Bhatt DL.** Dual antiplatelet therapy after percutaneous coronary intervention and drug-eluting stents: a systematic review and network meta-analysis. *Circulation*. 2020;142:1425-1436. †
67. Borovac JA, Kwok CS, Mohamed MO, Fischman DL, Savage M, Alraies C, **Kalra A**, Nolan J, Zaman A, Ahmed J, Bagur R, Mamas MA. The predictive value of CHA₂DS₂-VASc score on in-hospital death and adverse periprocedural events among patients with the acute coronary syndrome and atrial fibrillation who undergo percutaneous coronary intervention: a 10-year National Inpatient Sample (NIS) analysis. *Cardiovasc Revasc Med*. 2020;29:61-68.

68. **Kalra A**, Hawkins ES, Nowacki AS, Jain V, Milinovich A, Saef J, Thomas G, Gebreselassie SK, Karnik SS, Jehi L, Young JB, Svensson LG, Chung MK, Mehta N. Angiotensin-converting enzyme inhibitors vs angiotensin II receptor blockers: a comparison of outcomes in patients with coronavirus disease 2019 (COVID-19). *Circ Cardiovasc Qual Outcomes*. 2020;13:e007115.
69. Jain V, Rifai M Al, Sayani S, **Kalra A**, Bittner V, Petersen LA, Virani SS. Association of internet use with the use of addictive substances in the United States. *Am J Cardiol*. 2020;135:182-183.
70. Guha A, Dey AK, **Kalra A**, Gumina R, Lustberg M, Laie CJ, Sabik JF 3rd, Addison D. Coronary artery bypass grafting in cancer patients: prevalence and outcomes in the United States. *Mayo Clin Proc*. 2020;95:1865-1876.
71. Chakraborty S, Faisaluddin M, Ashish K, Amgai B, Bandyopadhyay D, Patel N, Hajra A, Aggarwal G, Ghosh RK, **Kalra A**. In-hospital clinical outcomes of transcatheter aortic valve replacement in patients with concomitant carotid artery stenosis: insights from the national inpatient sample. *Int J Cardiol Heart Vasc*. 2020;31:100621.
72. Shaikh A, Ochani RK, Khan MS, Riaz H, Khan SU, Sreenivasan J, Mookadam F, Doukky R, Butler J, Michos ED, **Kalra A**, Krasuski RA. Contribution of individual components to composite endpoints in contemporary cardiovascular randomized controlled trials. *Am Heart J*. 2020;230:71-81. †
73. Khan SU, **Kalra A**, Kapadia SR, Khan MU, Zia Khan M, Khan MS, Mamas MA, Warraich HJ, Nasir K, Michos ED, Alkhouli M. Demographic, regional, and state-level trends of mortality in patients with aortic stenosis in United States, 2008 to 2018. *J Am Heart Assoc*. 2020;9:e017433. †
74. Lee MMY, Docherty KF, Sattar N, Mehta N, **Kalra A**, Nowacki AS, Solomon SD, Vaduganathan M, Petrie MC, Jhund PS, McMurray JJV. Renin-angiotensin system blockers, risk of SARS-CoV-2 infection and outcomes from CoViD-19: systematic review and meta-analysis. *Eur Heart J Cardiovasc Pharmacother*. 2020;pvaa138.
75. Siddiqi TJ, Usman MS, Khan MS, Khan MAA, Riaz H, Khan SU, Murad MH, Kavinsky CJ, Doukky R, **Kalra A**, Desai MY, Bhatt DL. Systematic review and meta-analysis of current risk models in predicting short-term mortality after transcatheter aortic valve replacement. *EuroIntervention*. 2020;15:1497-1505. †
76. Gupta MD, Miglani M, Bansal A, Jain V, Arora S, Kumar S, Virani SS, **Kalra A**, Yadav R, Pasha Q, Yusuf J, Mukhopadhyay S, Tyagi S, Girish MP. Telomere length in young patients with acute myocardial infarction without conventional risk factors: a pilot study from a South Asian population. *Indian Heart J*. 2020;72:619-622. †
77. Khan SU, Khan MU, Virani SS, Khan MS, Khan MZ, Rashid M, **Kalra A**, Alkhouli M, Blaha MJ, Blumenthal RS, Michos ED. Efficacy and safety for the achievement of guideline-recommended lower low-density lipoprotein cholesterol levels: a systematic review and meta-analysis. *Eur J Prev Cardiol*. 2020;zwaa093.
78. Khan SU, Khan MZ, Khan MS, Mahmood A, **Kalra A**, Kaluski E, Michos ED, Alkhouli M. De-escalation of antiplatelets after percutaneous coronary intervention: a Bayesian network meta-analysis of various de-escalation strategies. *Eur Heart J Cardiovasc Pharmacother*. 2021;7:209-215. †
79. Bansal A, Jain V, Kumar A, Shekhar S, Reed GW, Krishnaswamy A, Harb SC, **Kalra A**, Puri R, Kapadia SR. Impact of hospital procedural volume on outcomes following balloon aortic valvuloplasty. *Am J Cardiol*. 2021;138:120-122. †

80. Jain V, Al Rifai M, Lee MT, **Kalra A**, Petersen LA, Vaughan EM, Wong ND, Ballantyne CM, Virani SS. Racial and geographic disparities in internet use in the U.S. among patients with hypertension or diabetes: implications for telehealth in the era of COVID-19. *Diabetes Care*. 2021;44:e15-e17.
81. Bansal A, Kumar A, Patel D, Puri R, **Kalra A**, Kapadia SR, Reed GW. Meta-analysis comparing outcomes in patients with and without cardiac injury and coronavirus disease 2019 (COVID 19). *Am J Cardiol*. 2021;141:140-146.
82. Bansal A, Kumar A, Jain V, Reed GW, Krishnaswamy A, **Kalra A**, Puri R, Kapadia SR. Benefit of single antiplatelet therapy over dual antiplatelet therapy after transcatheter aortic valve implantation. *Am J Cardiol*. 2021;141:163-164.
83. Rashid M, Nagaraja V, Shoaib A, Curzen N, Ludman PF, Kapadia SR, Palmer N, Elgendy I, **Kalra A**, Vachharajani TJ, Anderson HV, Kwok CS, Mohamed M, Banning AP, Mamas MA. Outcomes following percutaneous coronary intervention in renal transplant recipients: a binational collaborative analysis. *Mayo Clin Proc*. 2021;96:363-376.
84. Jain V, Karim A, Bansal A, Bhatia K, Gage A, Panhwar MS, Tang WHW, **Kalra A**. Relation of malnutrition to outcome following orthotopic heart transplantation. *Am J Cardiol*. 2021;142:156-157. †
85. Bansal A, Gupta S, Jain V, Tsutsui R, Reed GW, Puri R, Hedrick DP, Kanaa'N A, Khatri JJ, Kapadia SR, **Kalra A**. Adverse events related to excimer laser coronary atherectomy: Analysis of the FDA MAUDE database. *Cardiovasc Revasc Med*. 2021;27:88-89. †
86. Majmundar M, Kumar A, Doshi R, Shah P, Arora S, Shariff M, Adalja D, Visco F, Amin H, Vallabhajosyula S, Gullapalli N, Kapadia S, **Kalra A**, Panaich S. Meta-Analysis of transcatheter aortic valve implantation in patients with stenotic bicuspid versus tricuspid aortic valve. *Am J Cardiol*. 2021;145:102-110. †
87. Sheikh MA, Ngendahimana D, Deo S V, Raza S, Altarabsheh SE, Reed GW, **Kalra A**, Cmolik B, Kapadia S, Eagle KA. Home health care after discharge is associated with lower readmission rates for patients with acute myocardial infarction. *Coron Artery Dis*. 2021;32:481-488.
88. Khubber S, Chana R, Meenakshisundaram C, Dhaliwal K, Gad M, Kaur M, Banerjee K, Verma BR, Shekhar S, Khan MZ, Khan MS, Khan S, Sammour Y, Tsutsui R, Puri R, **Kalra A**, Bakaeen FG, Simpfendorfer C, Ellis S, Johnston D, Pettersson G, Kapadia S. Coronary artery aneurysms: outcomes following medical, percutaneous interventional and surgical management. *Open Heart*. 2021;8:e001440.
89. Jain V, **Kalra A**, Panhwar MS, Bansal A, Nowacki A, Bhatia K, Gupta T, Ineman NL, Khan SU, Krishnaswamy A, Reed GW, Puri R, Kapadia SR, Svensson LG, Kanaa'N A, Lahorra JA. Outcomes of transcatheter aortic valve replacement in patients with cognitive dysfunction. *J Am Geriatr Soc*. 2021;69:1363-1369. †
90. Alkhalil M, Edwards R, Puri R, **Kalra A**, Zaman A, Das R. Aspirin versus dual antiplatelet therapy in patients undergoing transcatheter aortic valve implantation, updated meta-analysis. *Cardiovasc Drugs Ther*. 2022;36:279-283.
91. **Kalra A**,** Raza S,** Jafry BH, King EH, Lahorra JA, Svensson LG, Kapadia SR. Off-label use of direct oral anticoagulants in patients receiving surgical mechanical and bioprosthetic heart valves. *JAMA Netw Open*. 2021;4:e211259. †

92. Mehran R, Kumar A, Bansal A, Shariff M, Gulati M, **Kalra A**. Gender and disparity in first authorship in cardiology randomized controlled trials. *JAMA Netw Open*. 2021;4:e211043. †
93. Jabri A, Kumar A, Verghese E, Alameh A, Kumar A, Khan MS, Khan SU, Michos ED, Kapadia SR, Reed GW, **Kalra A**. Meta-analysis of effect of vegetarian diet on ischemic heart disease and all-cause mortality. *Am J Prev Cardiol*. 2021;7:100182. †
94. Kassis N, Tanaka-Esposito C, Chung R, **Kalra A**, Shao M, Kumar A, Alzubi J, Chung MK, Khot UN. Validating and implementing cardiac telemetry for continuous QTc monitoring: A novel approach to increase healthcare personnel safety during the COVID-19 pandemic. *J Electrocardiol*. 2021;67:1-6. †
95. Bansal A, Kumar A, Jain V, Reed G, Puri R, **Kalra A**, Krishnaswamy A, Harb SC, Kapadia SR. Impact of hospital procedural volume on use and outcomes of urgent/emergent transcatheter aortic valve replacement. *J Am Heart Assoc*. 2021;10:e019670. †
96. Sahai A, Bhandari R, Godwin M, McIntyre T, Chung MK, Iskandar JP, Kamran H, Hariri E, Aggarwal A, Burton R, **Kalra A**, Bartholomew JR, McCrae KR, Elbadawi A, Bena J, Svensson LG, Kapadia S, Cameron SJ. Effect of aspirin on short-term outcomes in hospitalized patients with COVID-19. *Vasc Med*. 2021;26:626-632.
97. **Kalra A**, Kumar A, Nowacki AS, Shahadat A, Khan MS, Jabri A, Khan SU, Michos ED, Califf RM, Bhatt DL. Mapping and quantification of the Twitter footprint of cardiologists. *Eur Hear J Digit Health*. 2021;2:374–378. †
98. Tripathi B, Aggarwal V, Abbott JD, Kumbhani DJ, Giri J, **Kalra A**, Sardar P, Chatterjee S. Mechanical complications in ST-elevation myocardial infarction (STEMI) based on different reperfusion strategies. *Am J Cardiol*. 2021;156:79-84.
99. Khan SU, **Kalra A**, Yedlapati SH, Dani SS, Shapiro MD, Nasir K, Virani SS, Michos ED, Alkhouli M. Stroke-related mortality in the United States-Mexico border area of the United States, 1999 to 2018. *J Am Heart Assoc*. 2021;10:e019993. †
100. Kumar A, Shah R, Young LD, Patel DR, Bansal A, Popovic ZB, Menon V, **Kalra A**, Tuzcu EM, White J, Puri R, Krishnaswamy A, Kapadia SR, Reed GW. Safety and efficacy of balloon aortic valvuloplasty stratified by acuity of patient illness. *Struct Heart*. 2021;5:520-529.
101. Bansal A, **Kalra A**, Puri R, Saliba W, Krishnaswamy A, Kapadia SR, Reed GW. Incidence and outcomes of pericardial effusion and cardiac tamponade following permanent pacemaker implantation after transcatheter aortic valve implantation. *Am J Cardiol*. 2021;157:135-139. †
102. Dalton JE, Gunzler DD, Jain V, Perzynski AT, Dawson NV, Einstadter D, Tarabichi Y, Imrey PB, Lewis M, Kattan MW, Yao J, Taksler G, Berg KA, Krieger NI, Kaelber D, Jehi L, **Kalra A**. Mechanisms of socioeconomic differences in COVID-19 screening and hospitalizations. *PLoS One*. 2021;16:e0255343.
103. Abushouk AI, Yunusa I, Elmehrath AO, Elmatboly AM, Fayek SH, Abdelfattah OM, Saad A, Isogai T, Shekhar S, **Kalra A**, Reed GW, Puri R, Kapadia S. Quality assessment of published systematic reviews in high impact cardiology journals: revisiting the evidence pyramid. *Front Cardiovasc Med*. 2021;8:671569. †

104. Ullah W, Zghouzi M, Ahmad B, Suleiman AM, Zahid S, Faisaluddin M, Alabdrazzak M, Sattar Y, **Kalra A**, Kapadia S, Fischman DL, Brilakis ES, Mamas MA, Alraies MC. Safety and efficacy of the polymer-free and polymer-coated drug-eluting stents in patients undergoing percutaneous coronary intervention. *Catheter Cardiovasc Interv*. 2021;98:E802-E813.
105. Majmundar M, Doshi R, Kumar A, Johnston D, Brockett J, Kanaa'N A, Lahorra JA, Svensson LG, Krishnaswamy A, Reed GW, Puri R, Kapadia SR, **Kalra A**. Valve-in-valve transcatheter aortic valve implantation versus repeat surgical aortic valve replacement in patients with a failed aortic bioprosthesis. *EuroIntervention*. 2022;17:1227-1237. †
106. Elbadawi A, Elgendy IY, Joseph D, Eze-Nliam C, Rampersad P, Ouma G, Bhandari R, Kirksey L, Chaudhury P, Chung MK, **Kalra A**, Mehta N, Bartholomew JR, Sahai A, Svensson LG, Cameron SJ. Racial differences and in-hospital outcomes among hospitalized patients with COVID-19. *J Racial and Ethnic Health Disparities*. 2021;1-8.
107. Satish P, Sadaf MI, Valero-Elizondo J, Grandhi GR, Yahya T, Zawahir H, Javed Z, Mszar R, Hanif B, **Kalra A**, Virani S, Cainzos-Achirica M, Nasir K. Heterogeneity in cardio-metabolic risk factors and atherosclerotic cardiovascular disease among Asian groups in the United States. *Am J Prev Cardiol*. 2021;7:100219.
108. Majmundar M, Kumar A, **Kalra A**. Impact of embolic protection device placed during transcatheter aortic valve implantation on post-discharge stroke prevention. *Am J Cardiol*. 2021;158:150-152. †
109. Patel HP, Kumar A, Thakkar S, Victor V, Shariff M, Doshi R, Majmundar M, Kapadia SR, Panaich S, **Kalra A**. Trend, demographics and outcomes of concurrent PCI with TAVR hospitalizations 2012-2018; an analysis from the national inpatient sample. *Indian Heart J*. 2021;73:760-762. †
110. Majmundar M, Kumar A, Doshi R, Shariff M, Il'giovine ZJ, Randhawa VK, Tang WHW, Starling RC, Estep JD, **Kalra A**. Contemporary trends of clinical outcomes in primary left ventricular assist device implantation and postprocedure high-risk categories. *J Card Fail*. 2022;28:270-282. †
111. Bansal A, **Kalra A**, Kumar A, Campbell J, Krishnaswamy A, Kapadia SR, Reed GW. Outcomes of combined transcatheter aortic valve replacement and peripheral vascular intervention in the United States. *JACC Cardiovasc Interv*. 2021;14:2572-2580. †
112. Thakkar S, Patel HP, Kumar A, Tan BE-X, Arora S, Patel S, Doshi R, Depta JP, **Kalra A**, Dani SS, Deshmukh A, Badheka A, Widmer RJ, Mamas MA, Rihal CS, Girotra S, Panaich SS. Outcomes of Impella compared with intra-aortic balloon pump in ST-elevation myocardial infarction complicated by cardiogenic shock. *Am Hear J Plus Cardiol Res Pract*. 2021;12:100067.
113. **Kalra A**, Kumar A, Shariff M, Jain V, Majmundar M, Mehran R, Kapadia S. Racial disparities in first authorship of cardiology editorials. *J Soc Cardiovasc Angiogr Interv*. 2022;1:100017. *
114. Isogai T, Dykun I, Agrawal A, Shekhar S, Tarakji K, Wazni O, **Kalra A**, Krishnaswamy A, Reed G, Kapadia S, Puri R. Evaluation of the 2021 European Society of Cardiology guidelines in pre-existing right bundle branch block patients undergoing transcatheter aortic valve implantation with a balloon-expandable valve. *Eur Heart J Open*. 2022;2:oeac014 *

115. Isogai T, Dykun I, Agrawal A, Shekhar S, Saad A, Verma B, Abdelfattah O, **Kalra A**, Krishnaswamy A, Reed G, Kapadia S, Puri R. Risk stratification and management of advanced conduction disturbances following TAVI in patients with pre-existing RBBB. *Struct Heart*. 2022;6:100006. *
116. Isogai T, Shekhar S, Saad A, Abdelfattah O, Tarakji K, Wazni O, **Kalra A**, Yun J, Krishnaswamy A, Reed G, Kapadia S, Puri R. Conduction disturbance, pacemaker rates, and hospital length of stay following transcatheter aortic valve implantation with the Sapien 3 valve. *Struct Heart*. 2022;6:100019. *
117. Lee JZ, Majmundar M, Kumar A, Thakkar S, Patel HP, Sorajja D, Valverde AM, **Kalra A**, Cha Y-M, Mulpuru SK, Asirvatham SJ, Desimone C V, Deshmukh AJ. Impact of timing of transvenous lead removal on outcomes in infected cardiac implantable electronic devices. *Heart Rhythm*. 2022;19:768-775. *†
118. Majmundar M, Kumar A, Doshi R, Shariff M, Krishnaswamy A, Reed GW, Brockett J, Lahorra JA, Svensson LG, Puri R, Kapadia SR, **Kalra A**. Early outcomes of transcatheter versus surgical aortic valve implantation in patients with bicuspid aortic valve stenosis. *EuroIntervention*. 2022;18:23-32. *†
119. Isogai T, Dykun I, Agrawal A, Shekhar S, Tarakji KG, Wazni OM, **Kalra A**, Krishnaswamy A, Reed GW, Kapadia SR, Puri R. Early resolution of new-onset left bundle branch block after transcatheter aortic valve implantation with the SAPIEN 3 valve. *Am J Cardiol*. 2022;168:117-127. *
120. Gupta T, Tripathi B, **Kalra A**, Khera S, Sawant A, Nazif TM, Kleiman NS, Kirtane AJ, Goel SS, Bhatt DL, Pershad A, Kodali SK. Trends in 30-Day and 90-Day readmission rates after transcatheter aortic valve implantation. *Am J Cardiol*. 2022;167:167-170. *
121. Rai D, Kumar A, Waheed SH, Pandey R, Guerriero M, Kapoor A, Tahir MW, Zahid S, Hajra A, Balmer-Swain M, Castelletti S, Maas AHEM, Grapsa J, Mulvagh S, Zieroth S, **Kalra A**, Michos ED, Gulati M. Gender differences in international cardiology guideline authorship: a comparison of the US, Canadian, and European cardiology guidelines from 2006 to 2020. *J Am Heart Assoc*. 2022;11:e024249. *
122. Kumar A, Doshi R, Khan SU, Shariff M, Baby J, Majmundar M, Kanaa'N A, Hedrick DP, Puri R, Reed G, Mehran R, Kapadia S, Khot UN, **Kalra A**. Revascularization or optimal medical therapy for stable ischemic heart disease: a Bayesian meta-analysis of contemporary trials. *Cardiovasc Revasc Med*. 2022;40:42-47 †
123. Majmundar M, Kansara T, Park H, Ibarra G, Marta Lenik J, Shah P, Kumar A, Doshi R, Zala H, Chaudhari S, **Kalra A**. Absolute lymphocyte count as a predictor of mortality and readmission in heart failure hospitalization. *Int J Cardiol Heart Vasc*. 2022;39:100981. *†
124. Majmundar M, Kansara T, Kumar A, Park H, Shah P, Doshi R, Zala H, Amin H, Chaudhari S, **Kalra A**. Right ventricular systolic pressure - Non-invasive bedside predictor of mortality and readmission in heart failure with reduced and preserved ejection fraction hospitalization. *Indian Heart J*. 2022;74:314-321. *†
125. Mahalwar G, Shariff M, Datla S, Agrawal A, Rathore SS, Arif TB, Iqbal K, Hussain N, Majmundar M, Kumar A, **Kalra A**. Meta-analysis of ProGlide versus MANTA vascular closure devices for large-bore access site management. *Indian Heart J*. 2022;74:251-255 *†

126. Osman M, Syed M, Kheiri B, Bianco C, **Kalra A**, Cigarroa JE, Mamas MA, Dawn Abbott J, Grines CL, Fonarow GC, Balla S. Age stratified sex-related differences in incidence, management, and outcomes of cardiogenic shock. *Catheter Cardiovasc Interv*. 2022;99:1984-1995. *
127. Senguttuvan NB, Reddy PMK, Shankar P, Abdulkader RS, Yallanki HP, Kumar A, Majmundar M, Ramalingam V, Rajendran R, Bhoopalan K, Kaliyamoorthy D, T R M, **Kalra A**, Jayaraj R, Ramakrishnan S, Daggubati R, Thanikachalam S, Seth A, Bahl VK. Trans-radial approach versus trans-femoral approach in patients with acute coronary syndrome undergoing percutaneous coronary intervention: An updated meta-analysis of randomized controlled trials. *PLoS One*. 2022;17:e0266709. *
128. Haddadin F, Majmundar M, Jabri A, Pecha L, Scott C, Daher M, Kumar A, **Kalra A**, Fram R, Haddadin F, Almahameed S, DeSimone CV, Cha YM, Mulpuru SK, Ellenbogen KA, Saeed M, Chelu MG, Deshmukh AJ. Clinical outcomes and predictors of complications in patients undergoing leadless pacemaker implantation. *Heart Rhythm*. 2022;19:1289-1296. *
129. Kianoush S, Al-Rifai M, **Kalra A**, Bk A, Mehta A, Sadaf MI, Misra A, Khalid U, Lavie CJ, Kayani WT, Virani SS. Use of preventive cardiovascular health care among Asian American Individuals: a National Health Interview Survey study. *Curr Probl Cardiol*. 2023;48:101241. *
130. Bansal A, **Kalra A**, Puri R, Krishnaswamy A, Kapadia SR, Reed GW. New cardiac implantable electronic device (CIED) requirement in patients with a prior CIED undergoing transcatheter mitral valve repair with MitraClip. *Cardiovasc Revasc Med*. 2022;43:136-137. *†
131. **Kalra A**, Reed G, Puri R, Majmundar M, Kumar A, Foley JD, Zala H, Nasir K, Kapadia SR, Bhatt DL. Trend of demographics of cardiovascular disease fellows and association between fellows and program director race. *JACC Adv*. 2022;1:100032. *
132. Majmundar M, Ibarra G, Kumar A, Doshi R, Shah P, Mehran R, Reed GW, Puri R, Kapadia SR, Bangalore S, **Kalra A**. Invasive versus medical management in patients with chronic kidney disease and non-ST-segment-elevation myocardial infarction. *J Am Heart Assoc*. 2022;11:e025205. *†
133. Ijaz SH, Minhas AMK, Ghoneem A, Khan SU, Sharma G, Mehta NK, **Kalra A**, Khan SS, Warraich HJ, Michos ED, Nasir K, Virani SS, Ganatra S, Dani SS. Association of dementia with in-hospital outcomes in primary heart failure and acute myocardial infarction hospitalizations. *Prog Cardiovasc Dis*. 2022;73:24-31. *
134. Park DY, An S, Kumar A, Malhotra S, Jolly N, Kaur A, Kattoor A, Doukky R, **Kalra A**, Vij A. Abbreviated versus standard duration of DAPT after PCI: a systematic review and network meta-analysis. *Am J Cardiovasc Drugs*. 2022;22:633-645.
135. Bansal A, Kumar A, **Kalra A**, Menon V, Krishnaswamy A, Puri R, Tuzcu EM, Kapadia SR, Reed GW. Temporal trends in the utilization and outcomes of balloon aortic valvuloplasty in the pre-transcatheter aortic valve implantation (TAVI) and TAVI eras. *Am J Cardiol*. 2022;180:91-98.

136. Al Rifai M, Kianoush S, Jain V, Joshi PH, Cainzos-Achirica M, Nasir K, Merchant AT, Dodani S, Wong SS, Samad Z, Mehta A, Chunara R, **Kalra A**, Virani SS. Association of U.S. birth, duration of residence in the U.S., and atherosclerotic cardiovascular disease risk factors among Asian adults. *Prev Med Rep.* 2022;29:101916.
137. Jain V, Al Rifai M, Khan SU, **Kalra A**, Rodriguez F, Samad Z, Pokharel Y, Misra A, Sperling LS, Rana JS, Ullah W, Medhekar A, Virani SS. Association between social vulnerability index and cardiovascular disease: a behavioral risk factor surveillance system study. *J Am Heart Assoc.* 2022;11:e024414.
138. Bansal A, Kumar A, Garg C, **Kalra A**, Puri R, Kapadia SR, Reed GW. Use of machine learning to develop prediction models for mortality and stroke in patients undergoing balloon aortic valvuloplasty. *Cardiovasc Revasc Med.* 2022;45:26-34.
139. Mahalwar G, Kumar A, Majmundar M, Adebolu O, Yendamuri R, Lao N, Barve N, Kreutz RP, Reed GW, Puri R, Dani SS, **Kalra A**. Antithrombotic strategy after transcatheter aortic valve replacement: a network meta-analysis. *Curr Probl Cardiol.* 2022;47:101348. †
140. Bansal A, Sankar PR, **Kalra A**, Puri R, Krishnaswamy A, Kapadia SR, Reed GW. Association of hypertrophic cardiomyopathy and outcomes after transcatheter edge-to-edge mitral valve repair. *Am J Cardiol.* 2022;180:168-170.
141. Majmundar M, Patel KN, Doshi R, Anantha-Narayanan M, Kumar A, Reed GW, Puri R, Kapadia SR, Jaradat ZA, Bhatt DL, **Kalra A**. Comparison of 6-month outcomes of endovascular vs surgical revascularization for patients with critical limb ischemia. *JAMA Netw Open.* 2022;5:e2227746. *†
142. Suri K, Majmundar M, Kumar A, Patel KN, Zhou XY, Zala H, **Kalra A**. Outcomes and readmission in patients with retinal artery occlusion (from the Nationwide Readmission Database). *Am J Cardiol.* 2022;183:105-108.
143. Minhas AMK, Wyand RA, Ariss RW, Nazir S, Shahzeb Khan M, Jia X, Greene SJ, Fudim M, Wang A, Warraich HJ, **Kalra A**, Alam M, Virani SS. Demographic and regional trends of hypertrophic cardiomyopathy-related mortality in the United States, 1999 to 2019. *Circ Heart Fail.* 2022;15:e009292.
144. Ganatra S, Dani SS, Kumar A, Khan SU, Wadhera R, Neilan TG, Thavendiranathan P, Barac A, Hermann J, Leja M, Deswal A, Fradley M, Liu JE, Sadler D, Asnani A, Baldassarre LA, Gupta D, Yang E, Guha A, Brown SA, Stevens J, Hayek SS, Porter C, **Kalra A**, Baron SJ, Ky B, Virani SS, Kazi D, Nasir K, Nohria A. Impact of social vulnerability on comorbid cancer and cardiovascular disease mortality in the United States. *JACC CardioOncol.* 2022;4:326-337.
145. Kassis N, Kumar A, Gangidi S, Milinovich A, **Kalra A**, Bhargava A, Menon V, Wazni OM, Rickard J, Khot UN. Prognostic value of initial electrocardiography in predicting long-term all-cause mortality in COVID-19. *J Electrocardiol.* 2022;75:1-9.
146. Majmundar M, Vasudeva R, Zala H, Kumar A, Nasir K, **Kalra A**. Representation of international medical graduates amongst top cardiology hospitals in the United States. *JACC Adv.* 2022;1:100119. †

147. Majmundar M, Doshi R, Patel KN, Zala H, Kumar A, **Kalra A**. Prevalence, trends and outcomes of cardiovascular diseases in pregnant patients in the United States: 2010 to 2019. *Eur Heart J*. 2023;44:726-737. †
148. Shariff M, Kumar A, Kansara T, Majmundar M, Doshi R, Stulak JM, Kapadia SR, Reed GW, Puri R, **Kalra A**. A network meta-analysis of randomized controlled trials comparing intravascular ultrasound versus optical coherence tomography versus angiography-guided technique for drug-eluting stent implantation. *J Soc Cardiovasc Angiogr Interv*. 2022;1:100507. †
149. Bhat V, Ozair A, Bellur S, Subhash NR, Kumar A, Majmundar M, **Kalra A**. Inequities in country- and gender-based authorship representation in cardiology-related Cochrane reviews. *JACC Adv*. 2022;1:100140. †
150. Isath A, Kanwal A, Virk HUH, Bandyopadhyay D, Wang Z, Kumar A, **Kalra A**, Naidu SS, Lavie CJ, Virani SS, Krittanawong C. The effect of yoga on cardiovascular disease risk factors: a meta-analysis. *Curr Probl Cardiol*. 2023;48:101593.
151. Iqbal K, Kumar A, Ishaque A, Farid E, Iqbal A, Rathore SS, Majmundar M, Shariff M, **Kalra A**. Sex differences in introductions at the American College of Cardiology's Annual Scientific Session and Expo (ACC.22). *JACC Adv*. 2023;2:100253. †
152. Malhotra K, **Kalra A**, Kumar A, Majmundar M, Wander GS, Bawa A. Understanding the digital impact of World Hypertension Day: key takeaways. *Eur Heart J Digit Health*. 2022;3:489-492. †
153. Majmundar M, Doshi R, Vasudeva R, Patel KN, Kumar A, Bangalore S, **Kalra A**. Hospital procedural volume predicts short-term outcomes for patients undergoing procedures requiring large-bore access. *Eur Heart J Acute Cardiovasc Care*. 2023;12:237-242. †
154. Senguttuvan NB, Bhatt H, Balakrishnan VK, Krishnamoorthy P, Goel S, Reddy PMK, Subramanian V, Claessen BE, Kumar A, Majmundar M, Ro R, Lerakis S, Jayaraj R, **Kalra A**, Flather M, Dangas G, Tang GHL. The safety and efficacy of balloon-expandable versus self-expanding transcatheter aortic valve replacement in high-risk patients with severe symptomatic aortic stenosis. *Front Cardiovasc Med*. 2023;10:1130354.
155. Malhotra K, Lal V, Majmundar M, Kumar A, Wander GS, **Kalra A**. Similar events but contrasting impact: appraising the global digital reach of World Heart Day and Atrial Fibrillation Awareness Month. *Global Heart*. 2023;18:30. †
156. Howard T, Majmundar M, Sarin S, Kumar A, Ajay A, Krishnaswamy A, Reed GW, Harb SC, Harmon E, Dykun I, Ghandakly E, Kapadia SR, **Kalra A**, Puri R. Predictors of major adverse cardiovascular events in patients with moderate aortic stenosis: implications for aortic valve replacement. *Circ Cardiovasc Imaging*. 2023;16:557-565. *†
157. Senguttuvan NB, Bhatt H, Balakrishnan VK, Krishnamoorthy P, Goel S, Reddy PMK, Subramanian V, Claessen BE, Kumar A, Majmundar M, Ro R, Lerakis S, Jayaraj R, **Kalra A**, Flather M, Dangas G. Corrigendum: The safety and efficacy of balloon-expandable versus self-expanding trans-catheter aortic valve replacement in high-risk patients. *Front Cardiovasc Med*. 2023;10:1282812. *

158. Rao VU, Ziedonis K, Gunderman D, Kumar A, Bashall A, Stark K, Chugh AR, Daly R, **Kalra A**. Structured program for weight loss in heart failure patients: findings from a cardiology-driven obesity clinic. *JACC Adv*. 2024;3:100741. *†
159. Kumar A, Gajanana D, Sharma N, Nanjundappa A, **Kalra A**. Surgical revascularization versus best endovascular therapy for chronic limb threatening ischemia with infra-popliteal disease. *Cardiovasc Revasc Med*. 2024;61:111-112. *†
160. Majmundar M, Patel KN, Doshi R, Kumar A, Arora S, Panaich S, **Kalra A**. Transcatheter versus surgical mitral valve repair in patients with mitral regurgitation. *Eur J Cardiothorac Surg*. 2024;65:ezad391. *†
161. Kreutz RP, Leon IG, Bain ER, George B, Phookan S, Prakash A, Sinha AK, Breall JA, Zenisek JR, Frick KA, Jaradat ZA, Abu Romeh IS, O'Leary B, **Kalra A**, Kumar A, Lee MS, Lohe EV. Heparin dosing during percutaneous coronary intervention and obesity. *J Cardiovasc Pharmacol*. 2024;83:251-257. *
162. Dykun I, Mahabadi AA, Jehn S, **Kalra A**, Isogai T, Wazni OM, Kanj M, Krishnaswamy A, Reed GW, Yun JJ, Totzeck M, János RA, Lind AY, Kapadia SR, Rassaf T, Puri R. The degree of permanent pacemaker dependence and clinical outcomes following transcatheter aortic valve implantation: implications for procedural technique. *Eur Heart J Open*. 2023;3:oead127. *
163. Hussain B, Malik H, Mamas MA, Desai R, Aggarwal V, Kumar G, Alraies C, **Kalra A**, Paul TK. Clinical outcomes of percutaneous coronary intervention in amyloidosis, sarcoidosis, and hemochromatosis. *J Soc Cardiovasc Angiogr Interv*. 2023;3:101267. *
164. Persits I, Layoun H, Kondoleon NP, Spiliadis N, Badwan O, Sipko J, Yun JJ, **Kalra A**, Dykun I, Tereshchenko LG, Krishnaswamy A, Reed GW, Kapadia SR, Puri R. Impact of untreated chronic obstructive coronary artery disease on outcomes after transcatheter aortic valve replacement. *Eur Heart J*. 2024;45:1890-1900. *
165. Savani M, Bikdeli B, **Kalra A**, Aggarwal V, Mukherjee D, Chatterjee S. Association between blood transfusion treatment strategy for acute coronary syndromes and clinical outcomes: a meta-analysis of randomized clinical trials. *Am J Ther*. 2024;31:e84-e87.
166. Kumar A, Iqbal K, Shariff M, Majmundar M, **Kalra A**. Social associations and cardiovascular mortality in the United States counties, 2016 to 2020. *BMC Cardiovasc Disord*. 2024;24:127. *†
167. Gunderman DJ, Kumar A, Munguia-Vasquez R, Vora KP, Shah C, Lambert ND, Cavanaugh BJ, Dharmakumar R, **Kalra A**. Clinical outcomes of patients with acute myocardial infarction in health professional shortage areas in Indiana. *JACC Adv*. 2024;3:100906. *†
168. Kumar A, Shariff M, Singal A, Bhat V, Stulak J, Reed G, **Kalra A**. A Bayesian meta-analysis of double kissing (DK) crush or provisional stenting for coronary artery bifurcation lesions. *Indian Heart J*. 2024;76:113-117. *†
169. Bhat V, Kumar A, **Kalra A**. Angiotensin-converting enzyme inhibitors or angiotensin receptor blockers after transcatheter aortic valve replacement: a meta-analysis. *JACC Adv*. 2024;3:100927. *†

170. Harvey J, Kapadia SR, Cohen DJ, **Kalra A**, Irish W, Gunnarsson C, Ryan M, Chikermane SG, Thompson C, Puri R. Trends in complications among patients undergoing aortic valve replacement in the United States. *J Am Heart Assoc*. 2024;13:e031461. *
171. Patel KN, Majmundar V, Majmundar M, Zala H, Doshi R, Patel V, Dani SS, Zeb I, Patel B, **Kalra A**. National trends, in-hospital mortality and outcomes of atrial septal defect/patent foramen ovale closure procedure: an Analysis from the National Inpatient Sample. *Struct Heart*. 2024;8:100323. *†
172. Bhat V, Bellur S, Kumar A, Anavekar N, **Kalra A**. Financial barriers to attending international cardiology conferences: 2022-24 analysis of registration fees. *Curr Probl Cardiol*. 2024;49:102693. *†
173. Gunderman DJ, Kumar A, Munguia-Vasquez R, Vora KP, Shah C, Dharmakumar R, **Kalra A**. Disparities in prescription patterns of cardio-protective medications in post-acute myocardial infarction patients in Indiana. *JACC Adv*. 2024;3:101237. *†
174. Bhat V, Kumar A, **Kalra A**, Anavekar NS, Baldassarre LA, Parikh R, Parwani P. Academic profile and gender representation of advanced cardiac imaging fellowship program directors in the United States. *JACC Cardiovasc Imaging*. 2025;18:116-118. *†
175. Kumar A, Ellauzi R, Anavekar NS, **Kalra A**. Twenty-year trend of mortality from concomitant sepsis and acute myocardial infarction (Type 1 or Type 2) in the United States. *Cardiovasc Revasc Med*. 2025;72:61-63. *†
176. Raj K, Majeed H, Chandna S, Chitkara A, Sheikh AB, Kumar A, Gangu K, Pillai KJ, Agrawal A, Sadashiv SK, **Kalra A**. Increased risk of pulmonary embolism and deep vein thrombosis with COVID-19 pneumonia in comparison to influenza pneumonia: insights from the National Inpatient Sample database. *J Thorac Dis*. 2024;16:6161-6170. *†
177. Patel KN, Bajaj S, Majmundar M, Majmundar V, Agrawal A, Zala H, Doshi R, Singh K, Kaur A, Patel VN, Gonuguntla K, Sattar Y, **Kalra A**. Impact of sarcoidosis in patients undergoing aortic valve replacement: insight from Nationwide Readmission Database 2016-2019. *Ind Heart J*. 2025;77:45-47. *†
178. Iyer M, **Kalra A**, Ziada K, Tammis-Holland J, Cho C, Puri R, Ellis SG, Khot UN, Krishnaswamy A, Kapadia SR, Reed GW. Blood draws, fluid input, and bleeding events after percutaneous coronary intervention. *Catheter Cardiovasc Interv*. 2025;106:1531-1540. *
179. Yasmin F, Moeed A, Iqbal K, Ali A, Kumar A, Basit J, Hamza M, Dani SS, **Kalra A**. Clinical and hemodynamic outcomes of self-expanding and balloon-expandable valves for valve-in-valve transcatheter aortic valve implantation (ViV-TAVI): An updated systematic review and meta-analysis. *Int J Cardiol Heart Vasc*. 2025;57:101627. *†
180. Bhat V, Kaushik S, Kumar A, Bellur S, **Kalra A**. Retractions and withdrawals in clinical cardiovascular literature: analysis of the Retraction Watch Database. *JACC Adv*. 2025;4:101802. *†
181. Goyal A, Saeed H, Hurjkalani S, Mashkooor Y, Abdullah, Mahalwar G, **Kalra A**, Reed GW. Long-term (5-years) outcomes of current drug-eluting stents in percutaneous coronary intervention: a network meta-analysis of randomized controlled trials. *Catheter Cardiovasc Interv*. 2025;106:1196-1211. *

- 182.Vora KP, **Kalra A**, Shah CD, Bhatt K, Kumar A, Pandya T, Poptani V, Chan SF, Singh D, Jambunathan N, Subramanian R, Youssef K, Kanakasabai S, Finney R, Desai A, Kreutz R, Kovacs RJ, Raman SV, Bhatt DL, Dharmakumar R. In-hospital mortality in hemorrhagic myocardial infarction. *NEJM Evid*. 2025;4:EVIDoa2400294. *
- 183.Majmundar M, Patel KN, Khawaja T, Doshi R, Zala H, **Kalra A**, Thomas MM, Lippmann M, Gulati M. Impact of mode of delivery on maternal and fetal outcomes in pregnant patients with heart failure or pulmonary hypertension. *Am J Prev Cardiol*. 2025;23:101263. *
- 184.**Kalra A**, Vora K, Bhat V, Kumar A, Nasir K, Shaikh SR, Kapadia SR, Puri R, Reed GW, Dharmakumar R. Characteristics of hemorrhagic myocardial infarction after ST-segment elevation myocardial infarction (STEMI) in the United States. *JACC Adv*. 2025;4:102194. *
- 185.Vora KP, **Kalra A**, Youssef K, Bhatt K, Pandya T, Kumar A, Dharmakumar R; MIRON-CL Investigators. Cardioprotective role of coronary collaterals in the development of intramyocardial hemorrhage in ST-elevation MI patients. *JACC Adv*. 2025;4:102169. *
- 186.Harmon EK, Howard T, Tereshchenko LG, Krishnaswamy A, Reed GW, Ghandakly E, Yun JJY, Koprivanac M, **Kalra A**, Harb SC, Kapadia SR, Puri R. Cardiac damage, moderate aortic stenosis, and the impact of aortic valve replacement on damage staging and clinical outcomes. *JACC Adv*. 2025;4:102348. *
- 187.Jasti M, Kumar A, Nanjundappa A, **Kalra A**, Paul T. Device-related adverse events and modes of failure in renal denervation systems: insights from the Food and Drug Administration Manufacturer and User Facility Device Experience (FDA MAUDE) database analysis. *Cureus*. 2025;17:e96770. *
- 188.Tabassum S, Naeem F, Waqas M, Qamar U, Daggubati R, **Kalra A**. Aortic valve replacement versus conservative management for asymptomatic severe aortic stenosis with preserved left ventricle systolic function: a meta-analysis of randomized clinical trials. *Indian J Thorac Cardiovasc Surg*. 2026;42:352-358. *
- 189.Bhat V, Georgy I, Kumar A, **Kalra A**. Fasting versus non-fasting protocols before cardiac catheterization procedures: a meta-analysis of clinical trials. *J Soc Cardiovasc Angiogr Interv*. 2026;5:104161. *†
- 190.Mufarreh AJ, Vashist K, Germany J, Hoque A, Bailey BA, Lobelo F, **Kalra A**. Association of objective physical activity and mortality in American Heart Association's Life's Essential 8. *JACC Adv*. 2026;5:102580. *†
- 191.Khetan M, Matetić A, Paul T, Azam MG, **Kalra A**, Mamas MA. Association of hematological cancer with characteristics, causes and outcomes of patients with cardiovascular admissions. *Hellenic J Cardiol*. 2026; *
- 192.Naeem F, Qamar U, Burhan M, Shehada W, Balbaa E, Gadelmawla AF, Tabassum S, Husnain A, Naeem N, Hanif M, Bhat V, Muthukumar L, Eltawansy S, **Kalra A**, Daggubati R, Sattar Y. Cerebral embolic protection during transcatheter aortic valve implantation: a meta-analysis, meta-regression, and trial sequential analysis. *Cardiol Rev*. 2026; *

193. Jain H, Patel N, Jain J, Ahmed M, Goyal A, Passey S, Baqal O, Salerno C, **Kalra A**, Alsidawi S, Kapadia S, Naidu SS. Long-term impact of frailty on outcomes following alcohol septal ablation in hypertrophic obstructive cardiomyopathy. *JACC Adv*. 2026;5:102767. *
194. Youssef K, Vora KP, Gupta R, Gruionu G, Kumar A, Puri R, Reed GW, **Kalra A**, Dharmakumar R. Predicting intramyocardial hemorrhage before reperfusion in STEMI patients with intrinsically explainable artificial intelligence. *JACC Adv*. 2026;5:102864. *
195. Shafiq A, Ahmed M, Zulfiqar E, Shahzad M, Hashmi TM, Bhat V, Greene SJ, Mentz RJ, Fudim M, Rana JS, Fonarow GC, **Kalra A**. Trends in cardiac arrest mortality among young adults in the United States, 1999 to 2024. *JACC Adv*. 2026;5:102973. *
196. Ch IA, Hasan Z, Peng Z, Islam K, Singh A, Yousuf A, Aborahma MS, Zubair AS, Rizvi AA, Refai N, Rana MO, Chaudhry AA, Jalil F, Ali Y, Iqbal W, Javed Y, Zehra M, Afzal TA, **Kalra A**, Nasir K, Gibson CM, Yang Z, Ahsan N. Exploratory LC-MS/MS-based proteomic and lipidomic profiling of plasma samples from premature coronary artery disease patients: a pilot study in a South Asian population. *Int J Mol Sci*. 2026;27:5684. *
197. Mufarreh AJ, Bhat V, Hoque A, Roychoudhary O, Ford S, **Kalra A**. Firearm use and cardiovascular risk factors in the United States. *Am J Prev Cardiol*. 2026;30:101720. *†
198. Shuja MH, Hannat R, Ahmed I, Abbasi MS, Abbasi L, Vijay S, Moeed A, Jain H, Rossi R, Babapour G, Bhat V, Dani SS, Nanna MG, **Kalra A**. Efficacy and safety of aldosterone synthase inhibitors for difficult-to-treat hypertension: a systematic review and meta-analysis. *Am J Ther*. 2026; *†
199. Mufarreh AJ, Bhat V, Al-Quthami A, Taub CC, Romero JE, **Kalra A**. Left atrial appendage occlusion device-associated infective endocarditis: analysis of the FDA-MAUDE database. *J Soc Cardiovasc Angiogr Interv*. 2026;5:105403. *†
200. Cheema MRS, Jain H, Ismayl M, Young MN, Jhand AS, Tahirkheli NK, Khalid S, Khera S, Vora AN, Elgendy IY, **Kalra A**, Goldsweig AM. Trends and projections in valvular heart disease mortality among older adults in the United States, 1999-2040. *Am J Cardiol*. 2026;15:e049857. *
201. Bhat V, Garg H, Nagarajan JS, Rawlley B, **Kalra A**, Chaudhuri D. Myocardial infarction with non-obstructive coronary arteries in rheumatologic disease: prevalence, characteristics, and outcomes. *J Am Heart Assoc*. 2026;e049857. *†
202. Hanif M, Khan WH, Sah SP, Nagarajan JS, Knohl SJ, Taub CC, Weinberg AM, **Kalra A**. Clinical efficacy of Sodium Glucose Co-Transporter II inhibitors in post-transcatheter aortic valve replacement diabetic patients: a global retrospective study. *J Soc Cardiovasc Angiogr Interv*. 2026; *†
203. Vora KP, Bhatt K, Doshi S, Poptani V, Kumar A, Finney R, Taub C, Reed G, Puri R, Tamarappoo B, Fry E, Henry T, Traverse J, **Kalra A**, Dharmakumar R. Intravenous dexrazoxane for hemorrhagic myocardial infarction: the SHIELD-MI study. *Eur Heart J*. 2026; *
204. Khaligh-Razavi SM, Miller TE, Loh IK, **Kalra A**, Michos ED, Martin SS, Namvargolian A. Association of lipoprotein(a) with atherosclerotic cardiovascular disease across racial groups in a large, diverse cohort. *J Am Heart Assoc*. 2026; *

205. Bhat V, Garg H, Mufarreh AJ, Aggarwal K, Kaushik S, **Kalra A**. Publication timelines of leading cardiology journals. *†

Review Articles

1. **Kalra A**, Abouzgheib W, Gajera M, Palaniswamy C, Puri N, Dellinger RP. Excessive dynamic airway collapse for the internist: new nomenclature or different entity? *Postgrad Med J*. 2011;87:482-486.
2. **Kalra A**, Cooley C, Tsigrelis C. Treatment of endocarditis due to *Proteus* species: a literature review. *Int J Infect Dis*. 2011;15:e222-225.
3. Palaniswamy C, Sekhri A, Aronow WS, **Kalra A**, Peterson SJ. Association of warfarin use with valvular and vascular calcification: a review. *Clin Cardiol*. 2011;34:74-81.
4. Sugunaraj JP, Mehta V, **Kalra A**, Sukhija R, Palaniswamy C. Protease-activated receptor-1 antagonists: focus on SCH 530348. *Am J Ther*. 2012;19:465-469.
5. Palaniswamy C, Mishkin A, Aronow WS, **Kalra A**, Frishman WH. Remote patient monitoring in chronic heart failure. *Cardiol Rev*. 2013;21:141-150.
6. Yazbeck MF, Dahdel M, **Kalra A**, Browne AS, Pratter MR. Lung abscess: update on microbiology and management. *Am J Ther*. 2014;21:217-221.
7. **Kalra A**, Maharaj V, Goldsmith SR. Vasopressin receptor antagonists: from pivotal trials to current practice. *Curr Heart Fail Rep*. 2014;11:10-18.
8. Maron BJ, **Kalra A**. Hypertrophic cardiomyopathy in the developing world: focus on India. *Eur Heart J*. 2014;35:2492-2495.
9. **Kalra A**, Forman DE, Goodlin SJ. Medical decision-making for older adults: an international perspective comparing the United States and India. *J Geriatr Cardiol*. 2015;12:329-334.
10. Lipman HI, **Kalra A**, Kirkpatrick JN. Foundations of medical decision-making for older adults with cardiovascular disease. *J Geriatr Cardiol*. 2015;12:335-339.
11. **Kalra A**, Glusenka N, Anderson K, Kalra RN, Kerkar PG, Kumar G, Maddox TM, Oetgen WJ, Virani SS. American College of Cardiology (ACC)'s PINNACLE India Quality Improvement Program — inception, progress and future direction: a report from the PIQIP investigators. *Ind Heart J*. 2016;68:S1-S4.
12. Thyagarajan B, **Kalra A**, Rajabali A, Whelan JB, Anter E. Subclinical atrial fibrillation in patients with hypertrophic cardiomyopathy. *US Cardiology Review*. 2016;10:75-77. †
13. **Kalra A**,** Rehman H,** Khera S, Thyagarajan B, Bhatt DL, Kleiman NS, Yeh RW. New-generation coronary stents: current data and future directions. *Curr Atheroscler Rep*. 2017;19:14. †
14. **Kalra A**, Bhatt DL, Rajagopalan S, Suri K, Mishra S, Kamal AK, Virani SS. Overview of coronary heart disease risk initiatives in South Asia. *Curr Atheroscler Rep*. 2017;19:25.
15. **Kalra A**,** Uberoi AS,** Latib A, Khera S, Little SH, Bhatt DL, Reardon MJ, Kleiman NS, Barker CM. Emerging transcatheter options for tricuspid regurgitation. *Methodist DeBakey Cardiovasc J*. 2017;13:120-125. †
16. Ahmed ST, Rehman H, Akeroyd JA, Alam M, Shah T, **Kalra A**, Virani SS. Premature coronary heart disease in South Asians. *Curr Atheroscler Rep*. 2018;20:6. †
17. **Kalra A**, Makkar RR, Bhatt DL, Khera S, Kleiman NS, Reardon MJ, Kern MJ. Transcatheter and Doppler waveform correlation in TAVR. *Open Heart*. 2018;5:e000728.

18. Rehman H, Kleiman NS, **Kalra A**. Transcatheter valvular interventions in 2017: some things old, some things new! *Curr Opin Cardiol*. 2018;33:363-368. †
19. Longenecker CT, **Kalra A**, Okello E, Lwabi P, Omagino JO, Kityo C, Kamya MR, Webel AR, Simon DI, Salata RA, Costa MA. A human-centered approach to cardiovascular care: infrastructure development in Uganda. *Glob Heart*. 2018;13:347-354.
20. Estes BA, **Kalra A**. Contemporary nursing care in transcatheter aortic valve replacement. *J Vasc Nurs*. 2018;36:186-188. †
21. Wyler von Ballmoos MC, **Kalra A**, Reardon MJ. Complexities of transcatheter mitral valve replacement (TMVR) and why it is not transcatheter aortic valve replacement (TAVR). *Ann Cardiothorac Surg*. 2018;7:724-730.
22. Younes A, Attizzani GF, **Kalra A**. Transcatheter heart valve thrombosis: incidence, predictors, and clinical outcomes. *US Cardiology Review*. 2018;12:33–35. †
23. Luk J, **Kalra A**, Madan Mohan SK, Costa MA, Miller CJ. Pre-hospital systems of care for ST-segment elevation myocardial infarction. Continuum of care for acute coronary syndrome: Optimizing treatment for ST-elevation myocardial infarction and non-ST-elevation acute coronary syndrome. *EMCREG-International Monograph*. 2018. †
24. German KS, **Kalra A**. Structural heart disease: one valve does not fit all. *Curr Opin Support Palliat Care*. 2019;13:14-17. †
25. Shah AH, Puri R, **Kalra A**. Management of cardiogenic shock complicating acute myocardial infarction: a review. *Clin Cardiol*. 2019;42:484-493.
26. Sajja AP, Dey AK, Guha A, Elnabawi Y, Joshi AA, **Kalra A**. SGLT-2 inhibitors and GLP-1 agonists: first-line therapy for diabetes with established cardiovascular disease. *J Cardiovasc Pharmacol Ther*. 2019;24:422-427. †
27. Mitra A, Ghosh RK, Bandyopadhyay D, Ghosh GC, **Kalra A**, Lavie CJ. Significance of pulmonary hypertension in hypertrophic cardiomyopathy. *Curr Probl Cardiol*. 2020;45:100398.
28. Lacey MJ, Raza S, Rehman H, Puri R, Bhatt DL, **Kalra A**. Coronary embolism: a systematic review. *Cardiovasc Revasc Med*. 2020;21:367-374. †
29. Singh AD, Singal AK, Mian A, Kapadia SR, Hedrick DP, Kanaa'N A, Khatri JJ, Puri R, **Kalra A**. Recurrent drug eluting stent in-stent restenosis: A state-of-art review of pathophysiology, diagnosis and management. *Cardiovasc Revasc Med*. 2020;21:1157-1163. †
30. Ichibori Y, Puri R, Taramasso M, Nietlispach F, Attizzani GF, Meier B, Auffret V, Le Breton H, Cavalcante JL, Das R, Bhatt DL, Kapadia SR, **Kalra A**. An optimized approach for transfemoral transcatheter aortic valve implantation: A comprehensive review and current evidence. *Cardiovasc Revasc Med*. 2020;21:1034-1040. †
31. Katta N, Abbott JD, **Kalra A**, Alenezi F, Goldsweig AM, Aronow HD, Bhatt DL, Velagapudi P. Management of coronary artery disease in the setting of transcatheter aortic valve replacement. *Heart International*. 2020;14:24-28.
32. Chung MK, Karnik S, Saef J, Bergmann C, Barnard J, Lederman MM, Tilton J, Cheng F, Harding CV, Young JB, Mehta N, Cameron SJ, McCrae KR, Schmaier AH, Smith JD, **Kalra A**, Gebreselassie SK, Thomas G, Hawkins ES, Svensson LG. SARS-CoV-2 and ACE2: the biology and clinical data settling the ARB and ACEI controversy. *EBioMedicine*. 2020;58:102907.

33. Usman MS, Siddiqi TJ, Khan MS, Patel UK, Shahid I, Ahmed J, **Kalra A**, Michos ED. Is there a smoker's paradox in COVID-19? *BMJ Evid Based Med*. 2021;26:279-284.
34. Rehman H, **Kalra A**, Kochar A, Uberoi AS, Bhatt DL, Samad Z, Virani SS. Secondary prevention of cardiovascular diseases in India: findings from registries and large cohorts. *Ind Heart J*. 2020;72:337-344. †
35. Nagaraja V, **Kalra A**, Puri R. When to use intravascular ultrasound or optical coherence tomography during percutaneous coronary intervention? *Cardiovasc Diagn Ther*. 2020;10:1429-1444.
36. Tsutsui RS, Sammour Y, **Kalra A**, Reed G, Krishnaswamy A, Ellis S, Nair R, Khatri J, Kapadia S, Puri R. Excimer laser atherectomy in percutaneous coronary intervention: a contemporary review. *Cardiovasc Revasc Med*. 2021;25:75-85.
37. Barssoum K, Victor V, Salem A, Kumar A, Mubasher M, Hassib M, Magdi M, Renjithlal S, Abdelazeem M, Shariff M, Idemudia O, Ibrahim M, Mohamed A, Thakkar S, Patel H, Diab M, Szeles A, Ibrahim F, Jha R, Chowdhury M, Akula N, **Kalra A**, Nanda NC. Echocardiography, lung ultrasound, and cardiac magnetic resonance findings in COVID-19: a systematic review. *Echocardiography*. 2021;3:1365-1404.
38. Alameh A, Jabri A, Aleyadeh W, Nasser F, Al Abdouh A, Kondapaneni M, Gulati M, Mattina D, Singh K, Hargrave J, Roselli EE, Khot UN, Cho L, **Kalra A**. Pregnancy-associated myocardial infarction: a review of current practices and guidelines. *Curr Cardiol Rep*. 2021;23:142. †
39. Alkhalil M, Jabri A, Puri R, **Kalra A**. Revascularization in the transcatheter aortic valve replacement population. *Interv Cardiol Clin*. 2021;10:553-563. †
40. Thakker RA, Salazar L, Jazar DA, Bhakta P, Baker B, Patel C, Elbadawi A, Agarwal M, Albaeni A, Saleh M, Esclovan J, El Haddad D, Alwash H, **Kalra A**, Goel SS, Widmer RJ, Chatila K, Khalife W, Motiwala A, McCracken J, Jneid H, Gilani S. Coronary artery disease and aspirin intolerance: background and insights on current management. *Cardiol Ther*. 2022;11:175-183. *
41. Panhwar MS, Reed GW, Jain V, Ayoub A, Menon V, Lahorra JA, Kanaa'N A, Hedrick DP, Kapadia SR, LeJemtel T, **Kalra A**. Impella in acute myocardial infarction complicated by cardiogenic shock: history and current controversies. *J Invasive Cardiol*. 2022;34:E709-E719. †
42. **Kalra A**, Jose AP, Prabhakaran P, Kumar A, Agrawal A, Roy A, Bhargava B, Tandon N, Prabhakaran D. The burgeoning cardiovascular disease epidemic in Indians – perspectives on contextual factors and potential solutions. *Lancet Reg Health Southeast Asia*. 2023;12:100156.
43. Zala H, Arman HE, Chatterjee S, **Kalra A**. Unmet needs and future direction for pulmonary embolism interventions. *Interv Cardiol Clin*. 2023;12:399-415. *†
44. Mahalwar G, Kumar A, **Kalra A**. Virtual cardiology: past, present, future directions, and considerations. *Curr Cardiovasc Risk Rep*. 2023;17:117-122. †
45. Patel H, Mahtani AU, Mehta LS, **Kalra A**, Prabhakaran D, Yadav R, Naik N, Tamirisa KP. Outcomes of out of hospital sudden cardiac arrest in India: A review and proposed reforms. *Indian Heart J*. 2023;75:321-326. *

46. **Kalra A**, Das R, Alkhali M, Dykun I, Candreva A, Jarral O, Rehman SM, Majmundar M, Patel KN, Rodes-Cabau J, Reardon MJ, Puri R. Bicuspid aortic valve disease: classifications, treatments, and emerging transcatheter paradigms. *Struct Heart*. 2023;8:100227. *
47. Dharmakumar R, Kloner R, Fishbein M, Heusch G, Vora K, Gropler R, Henry TD, Shing-Chan F, Singh D, Jambunathan N, Subramanian R, Kreutz RP, Reed GW, Kovacs RJ, Fry E, **Kalra A**, Kumar A, Raman SV. Reperfused myocardial infarction: the road to CCS classification of acute MI and beyond. *JACC Adv*. 2025;4:101528. *
48. Zala H, Arman HE, Chatterjee S, **Kalra A**. Unmet needs and future direction for pulmonary embolism interventions. *Card Electrophysiol Clin*. 2025;17:387-405. *
49. Dharmakumar R, Vora K, **Kalra A**, Kumar A. Hemorrhagic myocardial infarction. *

Editorials, Viewpoints, and White Papers

1. **Kalra A.** Organizing an international elective: a unique opportunity for cardiovascular fellows. *J Am Coll Cardiol.* 2014;64:2429-2431.
2. **Kalra A,** Simegn MA, Bart BA. Inpatient cardiology consultation service: transitioning fellows-in-training to independent cardiovascular consultants. *J Am Coll Cardiol.* 2015;66:867-870.
3. **Kalra A,** Hafiz AM, Tamez H. Procedure logging in interventional cardiology training curriculum: the interventional fellows' T-score. *J Am Coll Cardiol.* 2016;67:2798-2801.
4. **Kalra A,** Bhatt DL, Pinto DS, Kirtane AJ, Kapadia SR, Makkar RR, Rihal CS, Kleiman NS, Cutlip DE. Accreditation and funding for a 24-month advanced interventional cardiology fellowship program: a call-to-action for optimal training of the next generation of interventionalists. *Catheter Cardiovasc Interv.* 2016;88:1010-1015.
5. **Kalra A,** Suri K. Alienated. *JAMA.* 2016;316:2191-2192.
6. **Kalra A.** Reinvigorating journal clubs in interventional cardiology — the Kleiman format. *JACC Cardiovasc Interv.* 2016;9:2462-2463.
7. **Kalra A,** Reardon MJ, Kleiman NS. Optimizing management of patients with atrial fibrillation following transcatheter aortic valve replacement: the importance of distinguishing pre-existing from new-onset atrial fibrillation. *JACC Cardiovasc Interv.* 2017;10:101-103.
8. **Kalra A,** Andalib A, Ramadan R, Hafiz AM, Poulin MF, Tamez H, Pinto DS, Popma JJ. Preparing interventional fellows for advanced training in structural heart disease interventions. *Eur Heart J.* 2017;38:701-703.
9. **Kalra A,** Shah PK, Zoghbi WA. Travel bans and threats to US health care-Our hearts are at stake. *JAMA Cardiol.* 2017;2:351-352.
10. Golwala HB, **Kalra A,** Faxon DP. Establishing a contemporary training curriculum for the next generation of interventional cardiology fellows. *Circ Cardiovasc Interv.* 2017;10:e005273.
11. **Kalra A.** Delivering hypertrophic cardiomyopathy care in India. *Eur Heart J.* 2017;38:1282-1284.
12. **Kalra A.** Perseverance versus pedigree. *Eur Heart J.* 2017;38:1789-1791.
13. **Kalra A.** Neal S. Kleiman: cardiologist, climber, scientist, survivor. *Eur Heart J.* 2017;38:2090-2091.
14. **Kalra A,** Adusumalli S, Sinha SS. Learning to lead: cultivating skills for success in learning health systems. *J Am Coll Cardiol.* 2017;70:2450-2454.
15. **Kalra A,** Shishehbor MH, Simon DI. Percutaneous coronary intervention readmissions: Where are the solutions? *JACC Cardiovasc Interv.* 2018;11:675-676.
16. **Luong P,** Bojansky AM, **Kalra A.** Academic physician compensation in the United States: should providers' work at academic medical centres be judged by just one metric, the relative value unit (RVU)? *Eur Heart J.* 2018;39:3633-3634. †

17. **Kalra A**, Lacey MJ, Bezerra HG. Operators of diagnostic coronary angiography. *Eur Heart J*. 2018;39:3687-3688. †
18. Shaikh AA, Bhatt DL, **Kalra A**. Leadership in cardiovascular medicine. *Eur Heart J*. 2019;40:1395-1397. †
19. Panhwar MS, **Kalra A**. Breaking down the hierarchy in medicine. *Eur Heart J*. 2019;40:1482-1483. †
20. LeMond LM, Fender EA, **Kalra A**. Finding your first job after fellowship. *Eur Heart J*. 2019;40:1581-1583.
21. Dhamija Y, **Kalra A**, Puri R. Delayed coronary obstruction after transcatheter aortic valve replacement. *J Am Coll Cardiol Case Rep*. 2019;1:319-321. †
22. **Kalra A**, Narang A. Schadenfreude: does the desire to succeed at all cost result in a detriment to the individual's soul? *Eur Heart J*. 2019;40:3885-3886.
23. Whitelaw S, **Kalra A**, Van Spall HGC. Flattening the hierarchies in academic medicine: the importance of diversity in leadership, contribution, and thought. *Eur Heart J*. 2020;41:9-10.
24. **Kalra A**, Kumbhani DJ, Hill JA. Cardiovascular Science India Tour: impacting cardiovascular disease in South Asia. *Circulation*. 2020;141:159-160.
25. Khan MS, Shahadat A, Khan SU, Ahmed S, Doukky R, Michos ED, **Kalra A**. The Kardashians index of cardiologists—celebrities or experts? *J Am Coll Cardiol Case Rep*. 2020;2:330-332. †
26. Szerlip M, Feldman DN, Aronow HD, Blankenship JC, Choi JW, Elgendy IY, Elmariah S, Garcia S, Goldstein BH, Herrmann H, Hira RS, Jaff MR, **Kalra A**, Kaluski E, Kavinsky CJ, Kolansky DM, Kong DF, Messenger JC, Mukherjee D, Patel RAG, Piana R, Senerth E, Shishehbor M, Singh G, Singh V, Yadav PK, Cox D. SCAI publications committee manual of standard operating procedures. *Catheter Cardiovasc Interv*. 2020;96:145-155.
27. Kumar A, Reardon MJ, Lahorra JA, Reed GW, Kapadia SR, **Kalra A**. Low risk transcatheter aortic valve replacement: taking the plunge and embracing a paradigm shift. *Future Cardiol*. 2020;16:143-146. †
28. Gage A, Higgins A, Lee R, Panhwar MS, **Kalra A**. Reacquainting cardiology with mechanical ventilation in response to the COVID-19 pandemic. *J Am Coll Cardiol Case Rep*. 2020;2:1402-1406. †
29. Chalasani M, Nasir K, Gupta MD, **Kalra A**. The Covid-19 pandemic and India's cardiovascular disease burden: finding the right balance. *Indian J Med Ethics*. 2020;V:1-3. †
30. **Kalra A**, Michos ED, Chinnaiyan KM. COVID-19 and the healthcare workers. *Eur Heart J*. 2020;41:2936-2937.
31. Panhwar MS, Chatterjee S, **Kalra A**. Training the critical care cardiologists of the future—an interventional cardiology critical care pathway. *J Am Coll Cardiol*. 2020;75:2984-2988. †

32. Chinnaiyan K, Revankar R, Shapiro MD, **Kalra A**. Heart, mind, and soul: spirituality in cardiovascular medicine. *Eur Heart J*. 2021;42:2965-2968. †
33. Shah GV, **Kalra A**, Khot UN. Transforming community cardiology practice to virtual visits: innovation at Cleveland Clinic during the COVID-19 pandemic. *Eur Heart J*. 2021;ehab684.
34. Puri R, Dykun I, **Kalra A**. The spectrum of valvular heart disease and the importance of "mild". *JAMA Netw Open*. 2022;5:e2211955. *
35. Bhat V, Ozair A, Kumar A, **Kalra A**. Advanced subspecialty cardiology training in India in 2022: challenges and future directions. *Eur Heart J*. 2022;43:2264-2266. *†
36. **Kalra A**, Chalasani M, Chopra V. Hospital peer review: time to reboot. *J Hosp Med*. 2022;17:926-928. *†
37. **Kalra A**, Chinnaiyan KM, Lala A. *Bhagavad Gita*, dichotomy of control and metric medicine: the conflict of burnout. *Eur Heart J*. 2022;43:4769-4771.
38. **Kalra A**. The physician and the monk. *Eur Heart J*. 2023;44:1775-1777.
39. **Kalra A**, Kumar A. Endovascular reperfusion strategy for infra-popliteal chronic limb threatening ischaemia. *Lancet*. 2023;401:1749-1750. †
40. Anavekar NS, Chinnaiyan KM, **Kalra A**. I am therefore I think. *Eur Heart J*. 2023;44:3401-3402. *
41. Anavekar NS, **Kalra A**. Religiosity/spirituality as a medical prescription. *Eur Heart J*. 2024;45:415-416. *
42. Kumar A, Reed GW, **Kalra A**. Transcatheter aortic valve implantation with concomitant coronary artery disease. *Cardiovasc Revasc Med*. 2024;65:16-17. *†
43. Carter AW, **Kalra A**. Where and how is value created in health systems? Exploring the role of general elections. *JACC Adv*. 2024;3:101369.
44. **Kalra A**, Rosenzweig A, Reed GW. Cardiac catheterization laboratories as learning health systems: an operationalization framework. *JACC Adv*. 2024;4:101509 *
45. Bhat V, Fretz TJ, **Kalra A**. Equitable global representation in cardiovascular guidelines and clinical trials: lacunae remain. *JACC Adv*. 2024;3:101381. *†
46. Lala A, Cho L, **Kalra A**. The *Bhagavad Gita*, psychological safety, and the medical learning environment: hitting the sweet spot. *JACC Adv*. 2025;4:101458. *
47. Halade GV, **Kalra A**. Lifestyle medicine essentials: "Walk more, eat less, sleep more"—White's early inspiration. *Lifestyle Med*. 2025;6:e70008. *
48. Bhat V, Khalid S, **Kalra A**. Mind the gap: addressing heart failure disparities among indigenous peoples. *JACC Adv*. 2025;4:102339 *†
49. Reed GW, **Kalra A**, Zghyer F. Transcaval access for Impella placement: a viable alternative in appropriate patients. *J Soc Cardiovasc Angiogr Interv*. 2025;4:103855. *
50. **Kalra A**, Kumbhani DJ, Dharmakumar R. A new ICD10 code for hemorrhagic myocardial infarction. *JACC Adv*. 2026;5:102740. *

51. **Kalra A**, Dharmakumar R. Hemorrhagic acute myocardial infarction. *EuroIntervention*. 2026;22:e805-e807. *

Case Reports

1. **Kalra A**, Kalra A, Palaniswamy C, Vikram N, Khilnani GC, Sood R. Immune thrombocytopenia in a challenging case of disseminated tuberculosis: a case report and review of the literature. *Case Report Med.* 2010;2010:946278.
2. **Kalra A**, Kalra A, Palaniswamy C, Gajera M, Rajput V. Primary malignant melanoma presenting as superior mediastinal mass. *Int J Surg Case Rep.* 2011;2:239-240.
3. Sekhri A, Palaniswamy C, Kurmayagari K, **Kalra A**, Selvaraj DR. Interstitial lung disease associated with azacitidine use: a case report. *Am J Ther.* 2012;19:e98-e100.
4. **Kalra A**, Palaniswamy C, Patel R, Kalra A, Selvaraj DR. Acute hypotensive transfusion reaction with concomitant use of angiotensin-converting enzyme inhibitors: a case report and review of the literature. *Am J Ther.* 2012;19:e90-94.
5. **Kalra A**, Palaniswamy C, Kalra A, Wig N, Sood R. Management of f/p+/- hypereosinophilic syndromes: case report and treatment review. *Am J Ther.* 2012;19:e146-151.
6. **Kalra A**, Yokogawa N, Raja H, Palaniswamy C, Desai P, Zanotti-Cavazzoni SL, Rajaram SS. Hydralazine-induced pulmonary-renal syndrome: a case report. *Am J Ther.* 2012;19:e136-138.
7. **Kalra A**, Cooley C, Palaniswamy C, Kalra A, Zanotti-Cavazzoni SL. Valsartan-induced angioedema in a patient on angiotensin-converting enzyme inhibitor for years: case report and literature review. *Am J Ther.* 2012;19:e189-192.
8. Desai N, **Kalra A**, Dalal A, Sarswat N, Ortman M. Cutaneous and cardiac myxomas in a patient with carney complex. *Am J Med.* 2012;125:e9-e10.
9. Desai N, **Kalra A**. Short fourth and fifth metacarpals. *JAMA.* 2012;308:1034-1035.
10. **Kalra A**, Sharma A, Palaniswamy C, El-Oshar S, Desai P, Yazbeck M, Zanotti-Cavazzoni SL. Diagnosis and management of bone cement implantation syndrome: case report and brief review. *Am J Ther.* 2013;20:121-125.
11. **Kalra A**, Heitner S, Topalian S. Iatrogenic pulmonary artery rupture during Swan-Ganz catheter placement-A novel therapeutic approach. *Catheter Cardiovasc Interv.* 2013;81:57-59.
12. Palaniswamy C, Aronow WS, Sugunaraj JP, Kang JJ, Kar K, **Kalra A**. Brugada electrocardiographic pattern in carbon monoxide poisoning. *Arch Med Sci.* 2013;9:377-380.
13. **Kalra A**, Kohl LP, Asinger RW, Bachour FA, Van Camp JR, Ayenew W, Bart BA. Aorto-right atrial fistula at aortotomy site following surgical myectomy. *Echocardiography.* 2013;30:E300-301.
14. Nader K, Mok S, **Kalra A**, Harb A, Schwarting R, Ferber A. Vanishing bile duct syndrome as a manifestation of Hodgkin's lymphoma: a case report and review of the literature. *Tumori.* 2013;99:e164-168.

15. Patel M, **Kalra A**, Surapaneni R, Schwarting R, Devereux L. Acquired amegakaryocytic thrombocytopenia in a patient with occupational chemical exposure. *Am J Ther*. 2014;21:e17-20.
16. **Kalra A**, Kneeland R, Samara MA, Cooper LT Jr. The changing role for endomyocardial biopsy in the diagnosis of giant-cell myocarditis. *Cardiol Ther*. 2014;3:53-59.
17. **Kalra A**, Aggarwal A, Kneeland R, Traverse JH. Percutaneous coronary intervention in spontaneous coronary artery dissection: role of intravascular ultrasound. *Cardiol Ther*. 2014;3:61-66.
18. Daley B, Miranda D, **Kalra A**, Pease D. Profound thrombocytopenia caused by abciximab infusion following percutaneous coronary intervention. *Minn Med*. 2014;97:48-49.
19. **Kalra A**, Maron MS, Rowin EJ, Colgan TK, Lesser JR, Maron BJ. Coronary embolization in hypertrophic cardiomyopathy with left ventricular apical aneurysm. *Am J Cardiol*. 2015;115:1318-1319.
20. **Kalra A**, Harris KM, Kische S, Alden P, Nienaber CA. Endovascular repair of descending thoracic aorta in Loeys-Dietz II syndrome. *Ann Vasc Surg*. 2015;29:1452.e17-21.
21. **Kalra A**, Pedersen WR, Mackey-Bojack SM, Duncanson ER, Harris KM. Patho-histological findings of annular rupture related to left ventricular outflow tract (LVOT) calcification following transcatheter aortic valve replacement (TAVR). *J Heart Valve Dis*. 2016;25:296-300.
22. **Kalra A**, Reyes M, Yang EY, Little SH, Nabi F, Barker CM, Ramchandani M, Reul RM, Reardon MJ, Kleiman NS. Transcatheter aortic valve replacement for Perceval sutureless aortic valve failure. *J Invasive Cardiol*. 2017;29:E65-E66.
23. **Kalra A**, Avenatti E, Chinnadurai P, Reardon MJ, Kleiman NS, Little SH, Barker CM. Very late migration of balloon-expandable transcatheter aortic valve. *J Invasive Cardiol*. 2018;30:E28-E30.
24. Tsushima T, Al-Kindi SG, Patel T, **Kalra A**. Atypical complications of aortic intramural hematoma: paraplegia resulting from spinal cord infarction. *Int J Cardiol Heart Vasc*. 2019;22:154-155. †
25. Tsushima T, Badhwar AK, **Kalra A**, Thal SG, Mackall JA. Sequential use of aminophylline and theophylline for temporizing neck cancer-induced carotid sinus syncope. *J Am Coll Cardiol Case Rep*. 2019;1:612-615.
26. Mahalwar G, Lao N, Babar A, Kapadia SR, **Kalra A**, Cutler D, Wierup P. Transcatheter heart valve thrombosis in a patient with polycythemia vera despite apixaban therapy for atrial fibrillation. *J Am Coll Cardiol Case Rep*. 2021;3:269–272. †
27. Lacey MJ, Armitage KB, **Kalra A**. Acute hypoxia in a 78-year-old female with bacteremia and a history of syphilis. *Am J Med*. 2021;134:1244-1246. †
28. Mahalwar G, **Kalra A**. Reply: The importance of symptomatic or asymptomatic transcatheter heart valve thrombosis. *J Am Coll Cardiol Case Rep*. 2021;3:1161-1162. †

29. Bashir H, Muhammad Haroon D, Mahalwar G, **Kalra A**, Alquthami A. The coronavirus double threat: a rare presentation of chest pain in a young female. *Cureus*. 2023;15:e37274. †
30. Rao V, Fretz T, Ayeni T, Skurka K, Raghavendra M, **Kalra A**. Carbohydrate antigen-125: endometrial cancer or heart failure biomarker? *J Am Coll Cardiol Case Rep*. 2025;30:103866. *
31. Bhat V, Fretz T, Shideler H, **Kalra A**. High-grade atrioventricular block due to disseminated Lyme disease requiring permanent pacemaker implantation. *US Cardiol*. 2026;20:e03. *†
32. Gupta R, Soni K, Bharucha R, Yadav R, Al-Quthami A, Taub CC, **Kalra A**. TAV-in-TAV-in-SAV in a patient with a prior mitral valve-in-valve. *JACC Case Rep*. 2026;31:110357 *†

Letters to the Editor

1. **Kalra A**, Shroff GR, Herzog CA. Safety of ultrasound contrast agents in patients with intracardiac shunts. *J Am Soc Echocardiogr*. 2014;27:1359.
2. Maron BJ, Rowin EJ, **Kalra A**, Lesser JR, Maron MS. Reply. *Am J Cardiol*. 2015;116:492-493.
3. **Kalra A**. Postgraduate cardiovascular disease training in India requires standardization. *Ind Heart J*. 2016;68:235.
4. **Kalra A**, Glusenkamp N, Oetgen WJ, Virani SS. Contemporary data on cardiovascular diseases in Indians: American College of Cardiology's PINNACLE India Quality Improvement Program. *Ind Heart J*. 2016;68:434-435.
5. **Kalra A**. Indian cardiologists must transcend systemic barriers and embrace reforms to deliver highest-quality care to fellow Indians. *Ind Heart J*. 2016;68:582-583.
6. **Kalra A**, Kleiman NS, Bhatt DL. Structural heart interventional training: the next steps. *JACC Cardiovasc Interv*. 2016;9:2581-2582.
7. **Kalra A**, Bhatt DL, Kleiman NS. A 24-month interventional cardiology fellowship: learning motor skills through blocked repetition. *JACC Cardiovasc Interv*. 2017;10:210-211.
8. **Kalra A**, Reardon MJ. Arguing over shadows? *Eur J Cardiothorac Surg*. 2018;53:486.
9. Raza S, **Kalra A**, Sabik JF III. Prosthesis type for aortic- and mitral valve replacement. *N Engl J Med*. 2018;378:777.
10. Michos ED, Khan MS, **Kalra A**. Reply: the social media Kardashian index: a stagnant measure for an innovative platform. *J Am Coll Cardiol Case Rep*. 2020;2:983-984. †
11. Panhwar MS, Svensson LG, **Kalra A**. The weekend effect - a complex and controversial phenomenon. *Ann Thorac Surg*. 2021;112:347. †
12. Shah BN, **Kalra A**, Tajik AJ. What is 'very severe' aortic stenosis? A proposal for a new category of severity in the classification of aortic stenosis. *Eur Heart J Cardiovasc Imaging*. 2021;22:e84–e86.
13. Doshi R, Majmundar M, Kumar A, Patel K, Vallabhajosyula S, **Kalra A**. Association of new-onset atrial fibrillation in patients taking high-dose fish oil. *Eur J Intern Med*. 2021;94:110-111. †
14. Majmundar M, Doshi R, Kumar A, **Kalra A**. Reply: Reintervention for a failed surgical aortic bioprosthesis. Percutaneous or surgical treatment: should we look at the short- or long-term perspective? *EuroIntervention*. 2022;17:e1456. †
15. Majmundar M, Tereschenko L, Howard T, Kapadia SR, Puri R, **Kalra A**. Response to letter regarding article, "Moderate aortic stenosis: enhancing clinical interpretation of risk estimates by defining estimands." *Circ Cardiovasc Imaging*. 2023;16:e016088. *†
16. Jain H, Ahmed M, Baqal O, **Kalra A**, Naidu SS. Reply: confounding by indication, temporal alignment, and coding bias in frail patients after alcohol septal ablation. *JACC Adv*. 2026;5:103146. *

Book Chapters

1. **Kalra A**, Bhatt DL. Combined drugs and procedure trials. In: Itani KM, Reda DJ, eds. **Clinical Trials Design in Invasive Operative and Non Operative Procedures**. New York, NY: Springer International Publishing, 2017.
2. **Kalra A**, Kleiman NS, Barker CM, Reyes M, Reardon MJ. Step-by-step guide: transfemoral CoreValve Evolut TAVR. In: Iribarne A, Stefanescu A, Nguyen TC, eds. **Transcatheter Heart Valve Handbook**. Washington, D.C.: American College of Cardiology Foundation, 2017.
3. Shishehbor MH, **Kalra A**. Cerebrovascular interventions. In Mukherjee D, Lange RA, Chatterjee S, Cho L, and Moliterno DJ, eds. **1133 Questions: An Interventional Cardiology Board Review**. Philadelphia, PA.: Lippincott Raven, 2018.
4. Hafiz AM, Alias J, Mody K, Kahn J, Khera S, **Kalra A**, Naidu SS. Longitudinal case-based presentations in HCM. In Naidu SS, eds. **Hypertrophic Cardiomyopathy**. London, United Kingdom: Springer-Verlag, 2018.
5. Khera S, **Kalra A**, Naidu SS. Case: Worsening heart failure in a patient with hypertrophic cardiomyopathy and prior myectomy. In Naidu SS, eds. **Hypertrophic Cardiomyopathy**. London, United Kingdom: Springer-Verlag, 2018.
6. **Kalra A**, Kleiman NS, Barker CM, Reardon MJ. Valve-in-valve transcatheter aortic valve replacement with a repositionable, self-expanding valve. In: Sorajja P, eds. **Structural Heart Cases: A color atlas of pearls and pitfalls**. Philadelphia, PA: Elsevier, 2019.
7. Ichibori Y, Patel SM, **Kalra A**, Attizzani GF. Medtronic program for transcatheter aortic valve implantation. In Giordano A, Biondi-Zoccai G, Frati, G, eds. **Transcatheter Aortic Valve Implantation: Clinical, Interventional and Surgical Perspectives**. Switzerland.: Springer Nature, 2019.
8. Kumar A, **Kalra A**. Ethical issues and risks associated with catheterization and interventional procedures. In: Mukherjee D, Lange RA, Chatterjee S, Cho L, and Moliterno DJ, eds. **1400+ Questions and Answers: Interventional Cardiology Board Review**. Philadelphia, PA.: Lippincott Raven, 2024. *
9. Bhat V, Naidu SS, Reza N, Masri A, **Kalra A**. Longitudinal case-based presentations in HCM. In Naidu SS, eds. **Hypertrophic Cardiomyopathy**. London, United Kingdom: Springer-Verlag, 2025. *

ACC.org, TCTMD.com and American Heart Association/American Stroke Association Blogs

1. **Kalra A**, Whelan JB. Conversation with cardiologists: Mark E. Josephson, MD, FACC. November 18, 2015. Accessed on December 7, 2015. <http://www.acc.org/membership/sections-and-councils/fellows-in-training-section/fit-information-hub/career-development/2015/11/17/10/35/conversation-with-cardiologists-mark-josephson>.
2. **Kalra A**, Ramadan R. Training and testing mismatch in CVD: spotlight on the ABIM CVD examination. April 20, 2016. Accessed on April 20, 2016. <http://www.acc.org/membership/sections-and-councils/fellows-in-training-section/fit-information-hub/education/2016/04/19/07/26/training-and-testing-mismatch-in-cvd>.
3. **Kalra A**. Fellowships in advanced interventional and structural cardiology need structure, planning, and collaboration—stat! July 5, 2016. Accessed on December 2, 2016. <https://www.tctmd.com/news/fellowships-advanced-interventional-and-structural-cardiology-need-structure-planning-and>.
4. **Kalra A**. A primer on J-1 Visa extensions for prospective PGY-8s. August 23, 2016. Accessed on August 23, 2016. <http://www.tctmd.com/show.aspx?id=136076>.
5. **Kalra A**. Conversations with cardiologists: William A. Zoghbi, MD, MACC. September 21, 2016. Accessed on September 26, 2016. <http://www.acc.org/membership/sections-and-councils/fellows-in-training-section/fit-information-hub/career-development/2016/09/20/06/59/conversations-with-cardiologists>.
6. **Kalra A**. Forming an early career structural heart disease task force. September 22, 2016. Accessed on September 26, 2016. <http://networking.americanheart.org/blogs/100/1197>.
7. **Kalra A**. Continuity clinics: indispensable to medicine but extraneous for interventional cardiology fellows. September 29, 2016. Accessed on December 2, 2016. <https://www.tctmd.com/news/continuity-clinics-indispensable-medicine-extraneous-interventional-cardiology-fellows>.
8. **Kalra A**. Structural heart disease fellowship: what's the definition? October 14, 2016. Accessed on October 31, 2016. <http://networking.americanheart.org/blogs/100/1202>.
9. **Kalra A**. My Picks for fellows attending TCT 2016. October 27, 2016. Accessed on December 2, 2016. <https://www.tctmd.com/news/my-picks-fellows-attending-tct-2016>.
10. **Kalra A**. My Picks for interventionalists/structuralists attending AHA 2016. November 3, 2016. Accessed on November 4, 2016. <http://networking.americanheart.org/blogs/100/1208>.
11. **Kalra A**. PIONEER AF-PCI: Impressions from Duane Pinto, MD, MPH from AHA 2016 Scientific Sessions, New Orleans, LA. November 17, 2016. Accessed on November 20, 2016. <http://networking.americanheart.org/blogs/100/1215>.
12. **Kalra A**. The US Presidential election rhetoric: Not the America I know. December 2, 2016. Accessed on December 2, 2016. <https://www.tctmd.com/news/us-presidential-election-rhetoric-not-america-i-know>.

13. **Kalra A.** American Heart Association Annual Scientific Sessions 2016: Nurturing lifelong mentoring relationships. December 16, 2016. Accessed on December 16, 2016. <http://networking.americanheart.org/blogs/100/1221>.
14. **Kalra A.** How to deliver a winning grand rounds talk while on the job interview trail. February 1, 2017. Accessed on February 12, 2017. <https://www.tctmd.com/news/how-deliver-winning-grand-rounds-talk-while-job-interview-trail>.
15. **Kalra A.** Career advice from an outgoing advanced interventional cardiology fellow. March 13, 2017. Accessed on March 23, 2017. <https://www.tctmd.com/news/career-advice-outgoing-advanced-interventional-cardiology-fellow>.
16. **Kalra A.** Early career tips from a master interventionalist. May 12, 2017. Accessed on May 18, 2017. <https://www.tctmd.com/news/fellow-talk-early-career-tips-master-interventionalist>.
17. **Kalra A.** From the dress rehearsal to the closing night: lessons in humility and hope. June 15, 2021. Accessed on August 14, 2021. <https://www.tctmd.com/news/dress-rehearsal-closing-night-lessons-humility-and-hope>.

Doximity Op-Meds

18. **Kalra A.** Defining cardiogenic shock: behind-the-scenes with SCAI trustee and writing committee chair. Accessed on July 16, 2019. https://opmed.doximity.com/articles/defining-cardiogenic-shock-behind-the-scenes-with-writing-committee-chair-srihari-s-naidu-md?fbclid=IwAR2SIDpew_DI0BvEQQb1OGIzNinIW_vFBCoYEI8rLsnLjD6l3HbzARO4Exc.
19. **Kalra A.** How vulnerability allowed my patient to make a life-altering decision. Accessed on July 30, 2021. <https://opmed.doximity.com/articles/how-vulnerability-allowed-my-patient-to-make-a-life-altering-decision>.
20. **Kalra A,** Marakini AB. Incidence or coincidence? Accessed on November 11, 2021. https://opmed.doximity.com/articles/incidence-or-coincidence?_csrf_attempted=yes

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](#).

October 1,
2026
(Date)

A handwritten signature in green ink, appearing to read 'Ankur Kalra', with a long horizontal stroke extending from the end of the name.

(Signature of Candidate)