

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



**Ankur Kalra, MD, FACP, FACC, FSCAI**Email: [akalra@alumni.harvard.edu](mailto:akalra@alumni.harvard.edu)

**PREAMBLE:** I am a practicing interventional cardiologist with a focus on coronary and transcatheter heart valve interventions, primarily transcatheter aortic valve implantation/ replacement. I am a clinician investigator, focused on observational/health services research, utilizing big data from United States national administrative databases to answer clinically relevant questions to impact patient care at the bedside, and identify topics requiring data from randomized clinical trials. 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.

**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 MSc	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

**WORK EXPERIENCE:**

University Hospitals, Cleveland, OH	Interventional Cardiologist	07/2017 – 01/2019
Cleveland Clinic, Cleveland, OH	Interventional Cardiologist	01/2019 – 12/2021
Franciscan Health, Lafayette, IN	Interventional Cardiologist	01/2023 – 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
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
Indira Gandhi Medical College, Shimla, Himachal Pradesh, India	Medical Students' President	08/2004 – 09/2005
Cleveland Clinic Akron General, Akron, OH	Section Head, Cardiovascular Research	02/2020 – 12/2021
Cleveland Clinic, Cleveland, OH	Medical Director of Clinical Research, Regional Cardiovascular Medicine	11/2020 – 12/2021
IU Health, Indianapolis, IN	Cardiovascular Institute Director for Interventional Cardiology Quality & Innovation	02/2022 – 06/2022
Kalra Hospitals New Delhi, India	Co-Chief Executive Officer	07/2022 – Present
Care Access, Boston, MA	Cardiovascular Research Investigator & Educator	08/2022 – Present
Krannert Cardiovascular Research Center, Indiana University School of Medicine Indianapolis, IN	Primary Investigator	09/2023 – Present
Franciscan Health, Crawfordsville, IN	Member at Large Medical Executive Committee	12/2023 – Present
Franciscan Health, Indianapolis, IN	Member, Physician Advisory Committee, Value Analysis Management	05/2024 – 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	--	12/2015 – 12/2024
Commonwealth of Massachusetts, Board of Registration in Medicine, Massachusetts	261672	02/2015 – 10/2023
American Board of Internal Medicine, Cardiovascular Disease	331291	10/2015 – 12/2025 (CMP**)
Texas Medical Board, Texas	Q8918	07/2016 – 08/2024
American Board of Internal Medicine, Interventional Cardiology	331291	10/2016 – 12/2026 (CMP**)
Ohio Medical Board, Ohio	35.130806	03/2017 – 10/2024
Medical Licensing Board, Indiana Professional Licensing Agency, Indiana	01087045A	01/2022 – 10/2025
West Virginia Board of Medicine, West Virginia	32350	03/2023 – 06/2024

\*LKA: Longitudinal Knowledge Assessment

\*\*CMP: Collaborative Maintenance Pathway

**PROFESSIONAL ORGANIZATION MEMBERSHIPS:**

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

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

## PROFESSIONAL HONORS AND AWARDS:

### TEACHING

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

<b>First Prize,</b> For " <i>Acute Hypotensive Transfusion Reaction With Concomitant Use of ACE Inhibitors.</i> "	Case Study Research Cooper Research Week	2010
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<b>First Prize, Oral Presentation,</b> 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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<b>Scholar, (200th Anniversary Essay Contest)</b> For " <i>Technology Transcends Locoregional Barriers to Patient Care.</i> "	The New England Journal of Medicine (NEJM)	2012
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<b>Winner, IABP Scholarship Program</b> For " <i>Peripartum Acute ST Elevation Myocardial Infarction from Spontaneous Coronary Artery Dissection.</i> "	Transcatheter Cardiovascular Therapeutics (TCT) 2012	2012
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<b>Finalist, Young Investigator Award Competition</b> 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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<b>Finalist</b> 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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<p><b>Winner Young Investigator Award</b> 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>”</p>	<p>American Association of Cardiologists of Indian Origin (AACIO)</p>	<p>2015</p>
<p><b>Best Cardiovascular Team Poster</b> For “<i>Doppler Tissue Imaging Predicts Progressive Heart Failure Prognosis in Hypertrophic Cardiomyopathy.</i>”</p>	<p>American College of Cardiology (ACC) 2015 Annual Scientific Sessions</p>	<p>2015</p>
<p><b>NCDR/ACC Travel Award</b> 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>”</p>	<p>National Cardiovascular Data Registry (NCDR)/American College of Cardiology (ACC)</p>	<p>2016</p>
<p><b>NCDR/ACC Travel Award</b> 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>”</p>	<p>National Cardiovascular Data Registry (NCDR)/American College of Cardiology (ACC)</p>	<p>2017</p>
<p><b>Award for Clinical Research Excellence</b> <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></p>	<p>Houston Methodist DeBakey Heart and Vascular Center, Houston Methodist Hospital</p>	<p>2017</p>
<p><b>Late-Breaking Science Presenter</b> <i>Late-breaking registry results: Leaflet thrombosis following transcatheter aortic valve replacement: insights from the MAUDE database.</i></p>	<p>European Society of Cardiology (ESC) Congress</p>	<p>2017</p>
<p><b>NCDR/ACC Travel Award</b> 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>”</p>	<p>National Cardiovascular Data Registry (NCDR)/American College of Cardiology (ACC)</p>	<p>2018</p>
<p><b>Richard E. Clark Memorial Paper</b> For “<i>Reoperative surgical aortic valve replacement for bioprosthetic failure: insights from the Society of Thoracic Surgeons National Database.</i>”</p>	<p>Society of Thoracic Surgeons (STS) Annual Meeting</p>	<p>2019</p>

<p><b>High-Impact Clinical Research Presenter</b> High-impact clinical research: <i>Trends in the use of mechanical circulatory support in the United States: the 2012-2015 National Inpatient Sample.</i></p>	Transcatheter Cardiovascular Therapeutics (TCT)	2019
<p><b>Sones-Favaloro Excellence in Research Award</b></p>	Cleveland Clinic	2020
<p><b>JACC Journals Best of 2020</b> Voices in Cardiology: <i>The Kardashian Index of Cardiologists: Celebrities or Experts?</i></p>	JACC: Case Reports	2020
<p><b>Top Five Papers Published since January 1, 2018 (Rank #1)</b> COVID-19 and the Healthcare Workers</p>	European Heart Journal	2020
<p><b>Top Altmetric-scoring CardioPulse Papers of All Time (Rank #1)</b> COVID-19 and the Healthcare Workers</p>	European Heart Journal	2020
<p><b>Landmark Session: Late-Breaking Trials Presenter</b> 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></p>	Cardiovascular Research Technologies (CRT Virtual)	2021
<p><b>Featured Clinical Research</b> 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></p>	Transcatheter Valve Therapeutics (TVT)	2021
<p><b>Key Coronary Intervention Abstracts</b> <i>Invasive versus medical management in patients with chronic kidney disease and non-ST-elevation myocardial infarction.</i></p>	Transcatheter Cardiovascular Therapeutics (TCT)	2021
<p><b>Best of European Heart Journal Digital Health – Editors’ choice</b> <i>Mapping and quantification of the Twitter footprint of cardiologists.</i></p>	European Society of Cardiology (ESC) Digital Summit	2021
<p><b>Hot Topics in Cardio-Obstetrics</b> <i>Prevalence, trends, and outcomes of cardiovascular diseases in pregnant patients in the United States: 2010 to 2019</i></p>	American Heart Association (AHA)	2022



**Most Cited Clinical Research Article** EuroIntervention 2022  
 Transcatheter Aortic Valve Implantation: *Valve-in-valve vs reoperative surgical aortic valve replacement in patients with failed aortic bioprosthesis: insight from Nationwide Readmission Database.*

**Finalist, Best Clinical Research** EuroIntervention/EuroPCR 2023  
*Valve-in-valve vs reoperative surgical aortic valve replacement in patients with failed aortic bioprosthesis: insight from Nationwide Readmission Database.*

**Late-Breaking Clinical Science Presenter** Cardiovascular Research Technologies (CRT) 2024  
 Late-breaking Clinical Science - Hot Topics: *A blood biomarker-based diagnosis of reperfused hemorrhagic ST-elevation myocardial infarction predicts acute outcomes.*

#### SERVICE

**Intern of the Year** Division of Internal Medicine 2010  
 Department of Medicine,  
 Cooper University Hospital

**Chief Fellow Award** Hennepin County Medical Center/ 2015  
 Abbott Northwestern Hospital  
*In recognition of outstanding contribution to the development of the Cardiovascular Disease Fellowship Training Program in Cardiovascular Disease*

**Franciscan Values in Practice High Five Award** Franciscan Health 2024  
*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.*

#### OVERALL/OTHER

Award Name	Granted By	Date Awarded
<b>Best Rebuttal</b>	Inter-College State Debate Competition	2002
<b>Second Prize</b>	World AIDS Day Discourse on 'Live and Let Live'	2003
<b>First Prize</b>	World AIDS Day Poster Competition	2003

<b>Rank 8 (All India)</b>	The AIIMS Postgraduate Entrance Examination	2007
<b>First Round Winner</b> (Cooper University Hospital)	New Jersey American College of Physicians (ACP) Challenge Bowl	2012
<b>State Winner</b> (Cooper University Hospital)	New Jersey American College of Physicians (ACP) Challenge Bowl	2012
<b>Winner, Bristol-Myers Squibb Travel Award</b>	American College of Cardiology Foundation (ACCF)	2013
<b>Fellowship</b>	American College of Physicians	2014
<b>Fellowship Grant</b>	Cardiovascular Research Technologies (CRT) 2015	2014
<b>Recipient</b> Fellows' Presentation Skills Course	Duke Heart Center/Duke Clinical Research Institute (DCRI)	2015
<b>Winner</b> <b>Fellows-in-Training (FIT) Travel Award</b>	American College of Cardiology (ACC) 2015	2015
<b>Alpha Omega Alpha (AOA)</b>	University of Minnesota Medical School	2015
<b>Cardiovascular Board Review Scholarship</b>	American College of Cardiology (ACC)	2015
<b>Young Leadership Recognition Program</b>	Cardiovascular Research Technologies (CRT) 2017	2016
Fellow of the American College of Cardiology ( <b>FACC</b> )	American College of Cardiology (ACC)	2016
<b>Fellow</b> of The Society of Cardiovascular Angiography and Interventions ( <b>FSCAI</b> )	Society of Cardiovascular Angiography and Interventions (SCAI)	2017
<b>Featured Fellow</b>	TCTMD	2017
<b>Marquis Who's Who</b>		2019
<b>Ohio Magazine Top Cardiologist</b>	Ohio Magazine	2021
<b>The Top 100 Twitter Influencers in Cardiology (Rank #42)</b>	AIMS Public Health	2021
<b>TEDx Speaker</b> <i>The Science and the Art of a Broken Heart.</i>	TEDxNEOMED	2021

<b>Expertscape World Expert in Professional Education</b> <i>Top 0.1% of scholars writing about Professional Education over the past 10 years.</i>	Expertscape	2022
<b>Ohio Top Doctors Excellence in Medicine</b>	findatopdoc.com	2022

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

Course/Workshop Title	Provider	Date
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### 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

#### 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
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<b>Monil Majmundar, MD</b>	Cardiovascular Disease Research Fellow, Cleveland Clinic Akron General	Cardiovascular Disease Fellow, University of Kansas Medical Center, Kansas City, Kansas
<b>Thuy Nguyen, MD</b>	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	Multimodality Cardiovascular Imaging Fellow (2019-2021), University of California San Francisco, San Francisco, California
<b>Muhammad Siyah Panhwar, MD</b>	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)
<b>Hasan Rehman, MD</b>	Internal Medicine Resident, Houston Methodist Hospital	Cardiovascular Disease Fellow (2018-2021), Houston Methodist Hospital, Houston, Texas

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

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

Resident training      Active bedside teaching of Cleveland Clinic Akron      1/2019 – 12/2021  
 General internal medicine residents on inpatient  
 cardiology services (cardiac intensive care unit)  
 (8-12 weeks of inpatient rounding every year).

## 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

### 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

## 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	IU 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

**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

## **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

### **INVITED PRESENTATIONS – RESEARCH**

#### **LOCAL**

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

## REGIONAL

Title	Organization	Date
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**NATIONAL**

Title	Organization	Date
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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
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Gender/Racial Disparities in Editorial and RCT Authorships	Cardiovascular Research Technologies Washington, DC	02/26/2023
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## 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
Journal: <i>Indian Heart Journal: Official Publication of the Cardiological Society of India</i>	Editorial Board	12/2014 – Present
Journal: <i>Case Reports in Internal Medicine</i>	Editorial Board	02/2016 –
Journal: <i>Cardiovascular Revascularization Medicine</i>	Editorial Board	– Present
Journal: <i>Global Heart: The Official Journal of the World Heart Federation</i>	Associate Editor	02/2018 –
Journal: <i>Journal of the American College of Cardiology (JACC): Case Reports</i>	Senior Editorial Advisor/Consultant	03/2019 – Present
Journal: <i>US Cardiology Review</i>	Editorial Board	11/2020 – Present
Journal: <i>US Cardiology Review</i>	Editor-in-Chief	09/2018 – 11/2020

Ad Hoc Reviewer

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### Advisory Groups

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



Title: Chief Executive Officer & Creative Director, Make A Dent® (makeadent.org), a non-profit startup that innovates applications and programs in healthcare worldwide.

Dates of Service: 09/2018 – Present

Title: Health Disparities and Health Equity Advisory Board, Bristol Myers Squibb

Dates of Service: 02/2023

### Committee Service

Organization	Activity	Inclusive Dates
<u>Local</u>		
Cleveland Clinic Lerner College of Medicine (CCLCM)	CCLCM Medicine representative to the Case Western Reserve University (CWRU) Faculty Council	/2019 – 12/2021
<u>Regional</u>		
American College of Cardiology Council	Early Career Committee, Massachusetts Chapter	02/2016 – 06/2016
Ohio Chapter of the American College of Cardiology (ACC)	Member, Ohio-ACC 29th Annual Meeting 2019, Abstracts Reviewing Committee; Fellow-in-Training Poster Judge	07/2019 – 07/2019
Indiana Chapter of the American College of Cardiology (ACC)	Indiana ACC Annual Meeting Planning Committee	01/2023 – Present
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 – Present
Indiana State Medical Association (ISMA)	Member, Social Determinants of Health (SDOH) Task Force	08/2023 – Present
<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 – Present
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 – Present
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 – Present
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	12/2021 – 06/2022
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	Member, Abstracts Reviewing	12/2022 – 12/2022

Technologies	Committee	
Society for Cardiovascular Angiography & Interventions	Member, Abstracts Reviewing Committee	01/2023 – 02/2023
American College of Cardiology (ACC)	ACC.24 Annual Scientific Session Abstract Reviewer, Abstracts, Complex Clinical Cases or Interventional Challenging Cases	10/2023 – 11/2023
Society for Cardiovascular Angiography & Interventions	Member, Abstracts Reviewing Committee	01/2024 – 01/2024

### 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	Interventional Cardiologist	07/2017 – 01/2019
Cleveland Clinic, Cleveland, OH	Interventional Cardiologist	01/2019 – 12/2021
IU Health, Indianapolis, IN	Cardiovascular Institute Director for Interventional Cardiology Quality and Innovation	02/2022 – 06/2022
Franciscan Health, Lafayette, IN	Interventional Cardiologist	01/2023 – 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](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  $\geq 60$  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, Chhatriwalla A, Gama Ribeiro V, Alnasser S, Van Mieghem NM, Rustenbach CJ, Schofer J, Garcia S, Zeus T, Champagnac D, Bekeredijan 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. Mohananeey D, Villablanca P, Gupta T, Ranka S, Bhatia N, Adegbola 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, Nallamotheu 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. †
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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.
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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. †
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Press Mentions

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