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

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Current as of May 1, 2022

Ankur Kalra, MD, FACP, FACC, FSCAI

Present Title: *Associate Professor of Clinical Medicine*
Indiana University School of Medicine
Indiana University – Purdue University
Interventional Cardiologist
Cardiovascular Institute Director for Interventional Cardiology Quality & Innovation
Indiana University Health Division of Cardiovascular Medicine
Krannert Cardiovascular Research Center

Address: **Office:**

Methodist Krannert Cardiovascular Research Center (KCVRC) E371
1800 North Capitol Avenue
Indianapolis, IN 46202
e: ankalra@iu.edu

Citizenship: India

Undergraduate Education:

2000 Delhi Public School, R.K. Puram, New Delhi, India
Major: Biology

Graduate Education:

2005 Indira Gandhi Medical College, Shimla, Himachal Pradesh University, India
MB BS

Postgraduate Education:

12/2018 – 6/2023	Health Economics, Outcomes and Management in Cardiovascular Sciences London School of Economics and Political Science, London, UK Executive MSc
7/2016 – 6/2017	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
4/2016 – 4/2017	Safety, Quality, Informatics and Leadership (SQIL) Program Harvard Medical School, Boston, MA
7/2015 – 6/2016	Beth Israel Deaconess Medical Center Harvard Medical School, Boston, MA Fellowship, Interventional Cardiology
7/2012 – 6/2015	Minneapolis Heart Institute at Abbott Northwestern Hospital Hennepin County Medical Center, Minneapolis, MN Fellowship, Cardiovascular Disease
6/2009 – 6/2012	Cooper University Hospital UMDNJ-Robert Wood Johnson Medical School, Camden, NJ Residency, Internal Medicine
1/2008 – 4/2009	All India Institute of Medical Sciences (AIIMS), New Delhi, India Residency, Internal Medicine
8/2007 – 12/2007	National Board of Examinations (NBE), New Delhi, India Residency, Family Medicine
9/2006 – 8/2007	Kalra Hospital & SRCNC, New Delhi, India
9/2005 – 9/2006	House Officer Jaipur Golden Hospital, New Delhi, India Internship

Academic Appointments:

2/2022 – Present	Associate Professor of Clinical Medicine Indiana University School of Medicine Indianapolis, IN

7/2020 – 12/2021	Associate Professor, Department of Medicine Cleveland Clinic Lerner College of Medicine of Case Western Reserve University Cleveland, OH
9/2019 – 12/2021	Adjunct Associate Professor of Internal Medicine Northeast Ohio Medical University Rootstown, OH
1/2019 – 6/2020	Assistant Professor, Department of Medicine Cleveland Clinic Lerner College of Medicine of Case Western Reserve University Cleveland, OH
7/2017 – 12/2018	Assistant Professor of Medicine Case Western Reserve University School of Medicine Cleveland, OH
7/2014 – 6/2015	Chief Fellow, Cardiovascular Disease Minneapolis Heart Institute at Abbott Northwestern Hospital Hennepin County Medical Center, Minneapolis, MN
8/2004 – 9/2005	Medical Students' President Indira Gandhi Medical College, Shimla, Himachal Pradesh, India
4/1999 – 3/2000	Deputy Head Boy Delhi Public School, R.K. Puram, New Delhi, India

Certification and Licensure:

Name of Board:	Medical Council of India
Licensure State/No.:	Delhi Medical Council, New Delhi, India; DMC/R/04002
Date Issued:	03/2007 – Lifetime
Name of Board:	American Board of Internal Medicine
Date Issued:	10/2012 – 12/2022
Name of Board:	Minnesota Medical Board
Licensure State/No.:	Minnesota; 55091
Date Issued:	05/2012 – 10/2019
Name of Board:	National Board of Echocardiography
Date Issued:	12/2015 – 12/2024

Name of Board: Commonwealth of Massachusetts, Board of Registration in Medicine
Licensure State/No.: Massachusetts; 261672
Date Issued: 02/2015 – 10/2023

Name of Board: American Board of Internal Medicine – Cardiovascular Disease
Date Issued: 10/2015 – 12/2025

Name of Board: Texas Medical Board
Licensure State/No.: Texas; Q8918
Date Issued: 07/2016 – 08/2022

Name of Board: American Board of Internal Medicine – Interventional Cardiology
Date Issued: 10/2016 – 12/2026

Name of Board: Ohio Medical Board
Licensure State/No.: Ohio; 35.130806
Date Issued: 03/2017 – 10/2022

Name of Board: Medical Licensing Board, Indiana Professional Licensing Agency
Licensure State/No.: Indiana; 01087045A
Date Issued: 01/2022 – 10/2023

Honors and Awards:

2022 Expertscape World Expert in Professional Education

Top 0.1% of scholars writing about Professional Education over the past 10 years.

2021 TEDx Speaker, TEDxNEOMED

The Science and the Art of a Broken Heart.

2021 Best of European Heart Journal Digital Health - Editors' choice

Mapping and quantification of the Twitter footprint of cardiologists.

2021 Transcatheter Cardiovascular Therapeutics (**TCT**) 2021 **Key Coronary Intervention Abstracts**

Invasive versus medical management in patients with chronic kidney disease and non-ST-elevation myocardial infarction.

2021 Ohio Magazine Top Cardiologist

2021 Featured Clinical Research, Transcatheter Valve Therapeutics (**TVT**) 2021

Transcatheter Aortic Valve Replacement: *Valve-in-valve vs reoperative surgical aortic valve replacement in patients with failed aortic bioprosthesis: insight from Nationwide Readmission Database*.

2021 Landmark Session: Late-Breaking Trials Presenter, Cardiovascular Research Technologies (**CRT Virtual**) 2021

Landmark session: Late-breaking Trials - Structural: *Off-label use of direct oral anticoagulants in patients receiving mechanical and bioprosthetic heart valves: insights from The Society Of Thoracic Surgeons National Database*.

2020 Sones-Favoloro Award for Excellence in Research, Cleveland Clinic Heart, Vascular and Thoracic Institute

2020 Scholarship in Teaching Award, Case Western Reserve University School of Medicine

For *Parallax*, a medicine (cardiology) podcast show

2019 High-Impact Clinical Research Presenter, Transcatheter Cardiovascular Therapeutics (**TCT**) Annual Scientific Sessions

High-impact clinical research: *Trends in the use of mechanical circulatory support in the United States: the 2012-2015 National Inpatient Sample*.

2019 Marquis Who's Who

2019 Richard E. Clark Memorial Paper, Society of Thoracic Surgeons (STS) Annual Meeting

For "*Reoperative surgical aortic valve replacement for bioprosthetic failure: insights from the Society of Thoracic Surgeons National Database.*"

2018 National Cardiovascular Data Registry (**NCDR**)/American College of Cardiology (**ACC**) **Travel Award**

For "*Electronic health records and outpatient cardiovascular care delivery: insights from the American College of Cardiology's PINNACLE India Quality Improvement Program (PIQIP).*"

2017 Late-Breaking Science Presenter, European Society of Cardiology (**ESC**) **Congress**

Late-breaking registry results: *Leaflet thrombosis following transcatheter aortic valve replacement: insights from the MAUDE database*.

2017 TCTMD Featured Fellow

2017 Award for Clinical Research Excellence, Houston Methodist DeBakey Heart and Vascular Center, Houston Methodist Hospital

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

2017 Fellow of The Society of Cardiovascular Angiography and Interventions (**FSCAI**)

2017 National Cardiovascular Data Registry (**NCDR**)/American College of Cardiology (**ACC**) **Travel Award**

For "*Gender disparities in cardiovascular care access and delivery in India: Insights from the American College of Cardiology's PINNACLE India Quality Improvement Program (PIQIP).*"

2016 Young Leadership Recognition Program, Cardiovascular Research Technologies (**CRT**) 2017

2016 Fellow of the American College of Cardiology (**FACC**)

2016 National Cardiovascular Data Registry (**NCDR**)/American College of Cardiology (**ACC**) **Travel Award**

For "*Cardiovascular Disease Performance Measures in the Outpatient Setting in India: Insights from the American College of Cardiology's PINNACLE India Quality Improvement Program (PIQIP).*"

2015 Recipient, Duke Heart Center/Duke Clinical Research Institute (**DCRI**) **Fellows' Presentation Skills Course**

2015 American College of Cardiology (**ACC**)'s **Cardiovascular Board Review Scholarship**

2015 Chief Fellow Award, Hennepin County Medical Center/Abbott Northwestern Hospital Fellowship Training Program in Cardiovascular Disease

In recognition of outstanding contribution to the development of the Cardiovascular Disease Fellowship Program

2015 Alpha Omega Alpha (**AOA**), University of Minnesota Medical School

2015 Best Cardiovascular Team Poster, American College of Cardiology (**ACC**) 2015 Annual Scientific Sessions

For "*Doppler Tissue Imaging Predicts Progressive Heart Failure Prognosis in Hypertrophic Cardiomyopathy.*"

2015 Winner, American College of Cardiology (**ACC**) 2015 **Fellows-in-Training (FIT) Travel Award**

2015 Winner, American Association of Cardiologists of Indian Origin (AACIO) **Young Investigator Award**

For "*Cardiovascular Disease Performance Measures in the Outpatient Setting in India: Insights from the American College of Cardiology's PINNACLE India Quality Improvement Program (PIQIP).*"

2014 Fellowship Grant, Cardiovascular Research Technologies (**CRT**) 2015

2014 Fellowship, **American College of Physicians**

2014 Finalist, Tenth Annual **Northwestern Cardiovascular Young Investigators' Forum**

For "*Doppler Tissue Imaging Predicts Progressive Heart Failure Prognosis in Hypertrophic Cardiomyopathy.*"

2014 Finalist, American College of Cardiology (**ACC**)'s 2014 **Young Investigator Award** Competition

For "*Post-Myocardial Infarction Risk Stratification of Patients at Risk for Sudden Cardiac Arrest by Contrast-Enhanced Magnetic Resonance Imaging Scar Quantification.*"

2013 Winner, American College of Cardiology Foundation (**ACCF**)/**Bristol-Myers Squibb Travel Award**

2012 Winner, **IABP Scholarship Program**, Transcatheter Cardiovascular Therapeutics (**TCT**) 2012

For "*Peripartum Acute ST Elevation Myocardial Infarction from Spontaneous Coronary Artery Dissection.*"

2012 The New England Journal of Medicine **(NEJM) Scholar** (**200th Anniversary** Essay Contest)

For "*Technology Transcends Locoregional Barriers to Patient Care.*"

2012 State Winner (Cooper University Hospital), **New Jersey** American College of Physicians (**ACP**) Challenge Bowl

2012 First Round Winner (Cooper University Hospital), **New Jersey** American College of Physicians (**ACP**) Challenge Bowl

2010 First Prize, **Oral Presentation**, American College of Chest Physicians (**ACCP**) **Annual Meeting 2010**

For "*Acute Hypotensive Transfusion Reaction With Concomitant Use of ACE Inhibitors.*"

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

2010 First Prize, Case Study Research, Cooper Research Week

For "*Acute Hypotensive Transfusion Reaction With Concomitant Use of ACE Inhibitors.*"

2007 Rank 8 (All India), The **AIIMS** Postgraduate Entrance Examination

2003 First Prize, World AIDS Day Poster Competition

2003 Second Prize, World AIDS Day Discourse on 'Live and Let Live'

2002 Best Rebuttal, Inter-College State Debate Competition

Membership in Professional Societies:

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
Harvard Alumni Association, Member, 2018 – Lifetime

Professional Services:

Editorial Boards

Journal: Cardiology and Therapy
Dates of Service: 11/2013 – Present

Journal: Indian Heart Journal: Official Publication of the Cardiological Society of India
Dates of Service: 12/2014 – Present

Journal: Case Reports in Internal Medicine
Dates of Service: 02/2016 –

Journal: Global Heart: The Official Journal of the World Heart Federation (Associate Editor)
Dates of Service: 02/2018 –

Journal: Journal of the American College of Cardiology (JACC): Case Reports (Senior Editorial Advisor/Consultant)
Dates of Service: 03/2019 – Present

Journal: US Cardiology Review
Dates of Service: 11/2020 – Present

Journal: US Cardiology Review (Editor-in-Chief)
Dates of Service: 09/2018 – 11/2020

Ad Hoc Reviewer

Journal: Cardiology and Therapy
Dates of Service: 2013 – Present

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

Journal: Future Medicine
Dates of Service: 2014 – Present

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

Journal: BMC Medical Education
Dates of Service: 2017 – Present

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

Journal: European Journal of Cardio-Thoracic Surgery
Dates of Service: 2017 – Present

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

Journal: Journal of Interventional Cardiology
Dates of Service: 2017 – Present

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

Journal: Methodist DeBakey Cardiovascular Journal
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: US Cardiology Review
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 – Present

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

Journal: Annals of Global Health
Dates of Service: 2019 – Present

Journal: BMC Cardiovascular Disorders
Dates of Service: 2019 – Present

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

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

Journal: Cardiovascular Diagnosis and Therapy
Dates of Service: 2020 – Present

Journal: Chest
Dates of Service: 2020 – Present

Journal: Circulation
Dates of Service: 2020 – Present

Journal: Expert Review of Medical Devices
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: Journal of Thoracic Disease
Dates of Service: 2020 – Present

Journal: Mayo Clinic Proceedings: Innovations, Quality & Outcomes
Dates of Service: 2020 – Present

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

Journal: Cardiovascular Revascularization Medicine
Dates of Service: 2021 – Present

Advisory Groups

Title: Director, Hypertrophic Cardiomyopathy Center, Kalra Hospital SRCNC® (Sri Ram Cardio-thoracic & Neurosciences Centre) Pvt. Ltd., 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

Committee Service:

National

Organization: American College of Cardiology
Committee Name/Role: Chair, Fellows-in-Training (FIT) Newsletter Working Group
Dates of Service: 09/2013 – 03/2015

Organization: American College of Cardiology
Committee Name/Role: Fellows-in-Training (FIT) Representative, Communications Work Group, Geriatric Cardiology Section
Dates of Service: 08/2013 – 04/2017

Organization: ACC.org
Committee Name/Role: Associate Editorial Team Lead, Geriatric Cardiology Section, ACC.org Editorial Board
Dates of Service: 05/2014 – 04/2017

Organization: American College of Cardiology
Committee Name/Role: PINNACLE (Practice Innovation and Clinical Excellence) India Writing Group Committee
Dates of Service: 06/2014 – Present

Organization: American College of Cardiology Council
Committee Name/Role: Early Career Committee, Massachusetts Chapter
Dates of Service: 02/2016 – 06/2016

Organization: Cardiovascular Research Foundation
Committee Name/Role: TCTMD Fellow Talk Blogger
Dates of Service: 07/2016 – 06/2017

Organization: American Heart Association/American Stroke Association
Committee Name/Role: Early Career Blogging Program
Dates of Service: 08/2016 – 01/2017

Organization: American College of Cardiology
Committee Name/Role: Member, Simulation Working Group
Dates of Service: 03/2017 – 08/2018

Organization: American College of Cardiology
Committee Name/Role: Member, ACC.org Interventional Writing Group
Dates of Service: 12/2017 – Present

Organization: Society for Cardiovascular Angiography and Interventions
Committee Name/Role: Member, Publications Committee; Member, Structural Heart Disease Council
Dates of Service: 01/2018 –

Organization: Transcatheter Cardiovascular Therapeutics (TCT)
Committee Name/Role: Member, International Complex Cases Reviewing Committee, TCT 2019
Dates of Service: 07/2019 – 07/2019

Organization: American College of Cardiology (ACC)/World Congress of Cardiology (WCC)
Committee Name/Role: Member, ACC.20/WCC Annual Scientific Session 2020 Interventional Challenging Cases Reviewing Committee (Reviewer Team 2)
Dates of Service: 07/2019 – 11/2019

Organization: Ohio Chapter of the American College of Cardiology (ACC)
Committee Name/Role: Member, Ohio-ACC 29th Annual Meeting 2019, Abstracts Reviewing Committee; Fellow-in-Training Poster Judge
Dates of Service: 07/2019 – 07/2019

Organization: Cleveland Clinic Lerner College of Medicine (CCLCM)
Committee Name/Role: CCLCM Medicine representative to the Case Western Reserve University (CWRU) Faculty Council
Dates of Service: /2019 – 12/2021

Organization: Society for Cardiovascular Angiography & Interventions
Committee Name/Role: Member, Abstracts Reviewing Committee
Dates of Service: 01/2020 – 04/2020

Organization: American Board of Internal Medicine
Committee Name/Role: Member, Interventional Cardiology Item-Writing Task Force
Dates of Service: 11/2020 – Present

Organization: American College of Cardiology (ACC)
Committee Name/Role: ACC.22 Annual Scientific Session 2022 Abstract Reviewer, Valvular Heart Disease: Special Populations
Dates of Service: 09/2021 – 11/2021

Organization: American Board of Internal Medicine
Committee Name/Role: Member, Cardiovascular Disease Item-Writing Task Force
Dates of Service: 12/2021 – 03/2022

Organization: Society for Cardiovascular Angiography & Interventions
Committee Name/Role: Member, Abstracts Reviewing Committee
Dates of Service: 01/2022 – 02/2022

International

Organization: European Society of Cardiology
Committee Name/Role: Member, Clinical Case Reviewing Committee
Dates of Service: 03/2018 – 03/2018

Organization: European Society of Cardiology
Committee Name/Role: Member, Abstracts Reviewing Committee
Dates of Service: 02/2019 – 02/2019

Organization: European Society of Cardiology
Committee Name/Role: Member, Abstracts Reviewing Committee
Dates of Service: 02/2020 – 02/2020

Organization: European Society of Cardiology
Committee Name/Role: Member, Abstracts Reviewing Committee
Dates of Service: 03/2022 – 04/2022

Teaching Activities:

Curriculum/Course Development

1. Scientific Revision (Chapter 5: Diseases of the pericardium and myocardium), Cardiology: A Practical Handbook (David Laflamme) (First Edition). 2016.

2. Medical Knowledge Self Assessment Program (MKSAP) 18 Pulmonary and Critical Care Medicine Peer-Review Evaluation, Sections on chronic obstructive pulmonary disease/ bronchiectasis and lung tumors. 2017.

3. American College of Cardiology Annual Scientific Sessions 2018, Right Heart Catheterization Simulation Station Curriculum. 2018.

4. Faculty Reviewer, First Aid for the USMLE Step 2 Clinical Knowledge (Tenth Edition). 2019.

5. Podcast content development for the journal US Cardiology Review's first podcast series, Parallax. 2019 – Present.

Grand Rounds

National

1. Catheterization laboratory activation during mechanical cardiopulmonary resuscitation - when should we say "No?" MedStar Washington Hospital Center, Washington, DC, August 27, **2014**.

2. 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, September 9, **2020**.

3. Finding destination in journey: perseverance vs pedigree. Beth Israel Lahey Health Cardiology Grand Rounds, Lahey Hospital & Medical Center, Burlington, MA, March 4, **2021**.

4. 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, October 29, **2021**.

Local

5. Leaflet thrombosis following transcatheter aortic valve replacement. University Hospitals Harrington Heart & Vascular Institute Grand Rounds, Cleveland, OH, December 7, **2017**.

6. Stent technology: past, present and future. Cleveland Clinic Akron General Heart, Vascular and Thoracic Department Grand Rounds, Akron, OH, **2019**.

7. 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, January 31, **2020**.

8. Dual antiplatelet therapy after percutaneous coronary intervention and drug-eluting stents. Cleveland Clinic Akron General Heart, Vascular and Thoracic Department Grand Rounds, Akron, OH, December 11, **2020**.

9. 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, August 27, **2021**.

Invited Lectures

International

1. Genomic risk stratification to prevent heart disease in South Asians. **Global Cardiometabolic Conclave**, **India**, July 12, **2020**.

2. Structural Heart (Aortic)—Importance and impact of cuspal overlap view. Innovations in Cardiology Summit, New Delhi, **India**, September 26, **2021**.

National

3. Transcatheter aortic valve replacement: case presentation. **Cardiovascular Innovations Annual Scientific Sessions 2018**, Denver, CO, July 26, **2018**.

4. 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**, January 19, **2022**.

5. Art with Heart: Tales of Creativity in Cardiology—The Parallax Effect in Cardiology. **American College of Cardiology Annual Scientific Sessions 2022**, Washington, DC, April 2, **2022**.

6. The Spiritual Art of Healing: How Faith Has Impacted Me as a Cardiovascular Professional. **American College of Cardiology Annual Scientific Sessions 2022**, Washington, DC, April 3, **2022**.

Regional

7. Emerging transcatheter options for tricuspid regurgitation. **Ohio-American College of Cardiology (ACC) 27th Annual Meeting**, Columbus, OH, October 14, **2017**.

8. 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, November 9, **2019**.

9. Cath lab pharmacology. **Iowa Chapter of the ACC Interventional Cardiology Board Review**, August 15, **2020**.

Local

10. 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, December 1, **2012**.

11. Atrial fibrillation (AF) after transcatheter aortic valve replacement (TAVR): optimizing management of peri-TAVR AF. **Southwest Valve Summit Meeting**, San Antonio, TX, May 6, **2017**.

12. Transcatheter aortic valve replacement for sutureless aortic valve failure. **Southwest Valve Summit Meeting**, San Antonio, TX, May 6, **2017**.

13. Recent advances in percutaneous mitral valve intervention. **11th Annual Cardiovascular Disease Update**, Cleveland, OH, October 4, **2017**.

Trainees/Mentees

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
Mohamad Amer Alaiti, MD	Interventional Cardiology Fellow, University Hospitals Cleveland Medical Center	2019	Interventional Cardiology Fellow (2017-2019), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Sadeer G. Al-Kindi, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2019	Cardiologist, University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Anshul Badhwar, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2021	Cardiovascular Disease Fellow (2018-2021), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Eric J. Bansal, MD	Interventional Cardiology Fellow, University Hospitals Cleveland Medical Center	2019	Interventional Cardiology Fellow (2017-2019), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
Nishad Barve, MD	Internal Medicine Resident, Cleveland Clinic Akron General	2023	Internal Medicine Resident, Cleveland Clinic Akron General
Jonathan Buggey, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2019	Advanced Heart Failure and Transplant Cardiology Fellow (2019-2020), Cleveland Clinic
Tarek Chami, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2021	Cardiovascular Disease Fellow (2018-2021), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Eugene Chang, MD, PhD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2020	Cardiovascular Disease Fellow (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Joshua R. Clevenger, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2020	Cardiovascular Disease Fellow (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
Yashu Dhamija, MD	Internal Medicine Resident, Cleveland Clinic Akron General	2020	Internal Medicine Resident (2017-2020), Cleveland Clinic Akron General
Konstantin S. German, MD	Internal Medicine Resident, University Hospitals Cleveland Medical Center	2019	Cardiovascular Disease Fellow (2020-2023), University of Cincinnati Medical Center
Jamal Hajjari, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2021	Cardiovascular Disease Fellow (2018-2021), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Scott E. Janus, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2021	Cardiovascular Disease Fellow (2018-2021), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Mohamad H. Karnib, MD	Internal Medicine Resident, University Hospitals Cleveland Medical Center	2019	Cardiovascular Disease Fellow (2019-2022), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
Muhammad Shahzeb Khan, MD	Internal Medicine Resident, John H. Stroger Jr. Cook County Hospital	2020	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
Aditya K. Khetan, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2019	Advanced Echocardiography Fellow (2019-2020), McMaster University, Hamilton, Ontario, Canada
Daniel Kobe, MD	Internal Medicine Resident, University Hospitals Cleveland Medical Center	2019	Chief Medical Resident (2019-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Ashish Kumar, MD	Internal Medicine Resident, Cleveland Clinic Akron General	2024	Internal Medicine Resident, Cleveland Clinic Akron General

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
Vardhmaan Jain, MD	Internal Medicine Resident, Cleveland Clinic	2022	Internal Medicine Resident, Cleveland Clinic
Matthew J. Lacey, MD	Internal Medicine Resident, University Hospitals Cleveland Medical Center	2020	Internal Medicine Resident (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Jun Li, MD	Advanced Interventional Cardiology Fellow, University Hospitals Cleveland Medical Center	2018	Interventional Cardiologist, University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Jacob D. Luthman, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2018	Advanced Heart Failure and Transplant Cardiology Fellow (2018-2019), Cleveland Clinic
Gauranga Mahalwar, MD	Internal Medicine Resident, Cleveland Clinic Akron General	2022	Internal Medicine Resident, Cleveland Clinic Akron General
Monil Majmundar	Cardiovascular Disease Research Fellow, Cleveland Clinic Akron General	2022	Cardiovascular Disease Fellow, University of Kansas Medical Center, Kansas City, KS

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
Abhilash Bhat Marakini, MD	Internal Medicine Resident, Cleveland Clinic Akron General	2023	Internal Medicine Resident, Cleveland Clinic Akron General
Haytham Mously, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2021	Cardiovascular Disease Fellow (2018-2021), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Fahd Nadeem, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2020	Cardiovascular Disease Fellow (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Thuy Nguyen, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2019	Multimodality Cardiovascular Imaging Fellow (2019-2021), University of California San Francisco
Muhammad Siyah Panhwar, MD	Internal Medicine Resident, University Hospitals Cleveland Medical Center	2019	Cardiovascular Disease Fellow (2019-2022), Tulane University School of Medicine

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
Andrew Patterson, MD, PhD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2019	Cardiovascular Disease Fellow (2016-2019), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Palak Rath, MD	Internal Medicine Resident, Cleveland Clinic Akron General	2023	Internal Medicine Resident, Cleveland Clinic Akron General
Benjamin D. Ravaee, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2018	Private Practice
Hasan Rehman, MD	Internal Medicine Resident, Houston Methodist Hospital	2018	Cardiovascular Disease Fellow (2018-2021), Houston Methodist Hospital
Isaac B. Rhea, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2018	Cardio-oncology Fellow, Moffitt Cancer Center
Fady S. Riad, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2020	Cardiovascular Disease Fellow (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
Mohamad K. Sabeh, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2018	Electrophysiology Fellow (2018-2020), Massachusetts General Hospital, Harvard Medical School
Aaron Ali Shaikh, MD	Internal Medicine Resident, University Hospitals Cleveland Medical Center	2020	Internal Medicine Resident (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Khaled Tuwairqi, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2020	Cardiovascular Disease Fellow (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
Elizabeth Verghese, MD	Internal Medicine Resident, Cleveland Clinic Akron General	2020	Internal Medicine Resident (2017-2020), Cleveland Clinic Akron General
Ghazanfar Qureshi, MD	Advanced Interventional Cardiology Fellow, University Hospitals Cleveland Medical Center	2018	Private Practice
Ahmad Younes, MD	Cardiovascular Disease Fellow, University Hospitals Cleveland Medical Center	2018	Interventional Cardiology Fellow (2018-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
Mohamed Wazzan, MD	Internal Medicine Resident, University Hospitals Cleveland Medical Center	2019	Cardiovascular Disease Fellow (2019-2022), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine

Non-didactic teaching

1. Resident training:

7/2017 – 12/2018: 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).

1/2019 – Present: 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).

2. Clinical Fellow training:

7/2017 – 12/2018: 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.

Research Support:

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2. Cleveland Clinic Foundation; Ten Thousand Dollars ($10,000) for “Off-label use of direct oral anticoagulants in patients with prosthetic heart valves: insights from the Society of Thoracic Surgeons National Database.”

Bibliography:

(**equal contribution to the manuscript)

Original Research

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