

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



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*Current as of February 11, 2019*

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

**Present Title:**

*Assistant Professor of Medicine*  
Cleveland Clinic Lerner College of Medicine of  
Case Western Reserve University  
*Interventional Cardiologist*  
Department of Cardiovascular Medicine  
Cleveland Clinic

*Director*  
Hypertrophic Cardiomyopathy Center  
Kalra Hospital SRCNC® (Sri Ram Cardio-thoracic & Neurosciences Centre)  
Pvt. Ltd.  
New Delhi, India

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

**Address:**

**Office(s):**

Department of Cardiovascular Medicine  
Cleveland Clinic  
9500 Euclid Ave  
Cleveland, Ohio 44195

Regional Section of Interventional Cardiology at  
Cleveland Clinic Akron General  
224 West Exchange St, Suite 225  
Akron, Ohio 44302  
Phone: 330-344-7400  
Facsimile: 330-344-2015  
e: [kalraa@ccf.org](mailto:kalraa@ccf.org)

**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 – 6/2020      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:**

1/2019 –              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, Simla (Shimla), India

4/1999 – 3/2000     Deputy Head Boy  
Delhi Public School, R.K. Puram, New Delhi, India

**Licensure:**

New Delhi, India (active) (#DMC/R/04002)  
Minnesota, USA (active) (#55091)  
Massachusetts, USA (active) (#261672)  
Texas, USA (active) (#Q8918)  
Ohio, USA (active) (#130806)

**Certification:**

2016 (#331291)	American Board of Internal Medicine (ABIM) - Interventional Cardiology
2015 (#331291)	American Board of Internal Medicine (ABIM) - Cardiovascular Disease
2014	National Board of Echocardiography (NBE)
2012	American Board of Internal Medicine (ABIM) (#331291)
2011	Step 3
2007	ECFMG (#0698-965-1)
2006	MB BS

**Professional Organizations:**

Member, Indian Medical Association  
Founding Member, Critical Care Working Group  
Fellow, American College of Physicians (FACP)  
Affiliate, American College of Chest Physicians (ACCP)  
Fellow, American College of Cardiology (FACC)  
Student/Trainee, American Heart Association (AHA)  
Member, American Association of Cardiologists of Indian Origin  
Fellow, The Society for Cardiovascular Angiography and Interventions (FSCAI)  
Member, Alpha Omega Alpha (AOA) Honor Medical Society  
Member, Massachusetts Medical Society  
Member, Harvard Alumni Association

**Committees/Advisory Boards:**

(Current)

**Committee Member**, Doximity Physician Panel  
**Member**, PINNALCE (Practice Innovation and Clinical Excellence) India *Writing Group Committee*, **American College of Cardiology**  
**Member**, *Advisory Board*, **Cardiology and Therapy Journal**, Springer Healthcare Ltd.  
**Member**, *International Editorial Board*, **Indian Heart Journal**, Official Publication of The Cardiological Society of India  
**Member**, *Editorial Review Board*, **Case Reports in Internal Medicine Journal**, Sciedu Press  
**Editor-in-Chief**, **US Cardiology Review**, Radcliffe Cardiology  
**Member**, **American College of Cardiology Interventional Writing Group** (12/2017 - present)  
*Assistant Reviewer Program*, **Circulation: Cardiovascular Quality & Outcomes**  
**Associate Editor**, **Global Heart**, Official Journal of The World Heart Federation; affiliated with the Asian Pacific Society of Cardiology

**Member**, Society for Cardiovascular Angiography & Interventions (SCAI) *Publications Committee* (01/2018 - present)

**Member**, SCAI *Structural Heart Disease Council* (01/2018 - present)

**European Society of Cardiology** Congress 2018 — **Member**, *Clinical Case Reviewing Committee*

(Previous)

**Member**, **American College of Cardiology** *Simulation Work Group* (3/2017 - 8/2018)

**Early Career Blogging Program**, **American Heart Association**/American Stroke Association (8/2016 - 1/2017)

**TCTMD Fellow Talk Blogger**, Cardiovascular Research Foundation (7/2016 - 6/2017)

**Associate Editorial Team Lead**, *Editorial Board*, [ACC.org](http://ACC.org) Geriatric Cardiology Section (5/2014 - 4/2017)

**Member**, Early Career Committee, **Massachusetts Chapter**, **American College of Cardiology Council** (2/2016 - 6/2016)

**Chair**, *Fellows-in-Training (FIT) Newsletter Working Group*, **American College of Cardiology** (9/2013 - 3/2015)

**Fellows-in-Training (FIT) Representative**, *Communications Work Group*, Geriatric Cardiology Section, **American College of Cardiology** (8/2013 - 4/2017)

### **Teaching Activities:**

#### Curriculum/Course Development

1. Faculty Reviewer, First Aid for the United States Medical Licensing Examination (USMLE) Step 2 Clinical Knowledge (Tenth Edition).
2. Scientific Revision (Chapter 5: Diseases of the pericardium and myocardium), *Cardiology: A Practical Handbook* (David Laflamme) (First Edition).

#### Presentations

1. Catheterization laboratory activation during mechanical cardiopulmonary resuscitation - when should we say “No?” MedStar Washington Hospital Center, Washington, DC, August 27, **2014**.
2. Leaflet thrombosis following transcatheter aortic valve replacement. University Hospitals Harrington Heart & Vascular Institute Grand Rounds, Cleveland, OH, December 7, **2017**.

#### Trainees/Mentees (in alphabetical order)

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
<b>Mohamad Amer Alaiti, MD</b>	Interventional Cardiology Fellow	2019	Interventional Cardiology Fellow (2017-2019), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Sadeer G. Al-Kindi, MD</b>	Cardiovascular Disease Fellow	2019	Cardiologist, University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Anshul Badhwar, MD</b>	Cardiovascular Disease Fellow	2021	Cardiovascular Disease Fellow (2018-2021), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Eric J. Bansal, MD</b>	Interventional Cardiology Fellow	2019	Interventional Cardiology Fellow (2017-2019), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Jonathan Buggey, MD</b>	Cardiovascular Disease Fellow	2019	Advanced Heart Failure and Transplant Cardiology Fellow (2019-2020), Cleveland Clinic

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
<b>Tarek Chami, MD</b>	Cardiovascular Disease Fellow	2021	Cardiovascular Disease Fellow (2018-2021), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Eugene Chang, MD, PhD</b>	Cardiovascular Disease Fellow	2020	Cardiovascular Disease Fellow (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Joshua R. Clevenger, MD</b>	Cardiovascular Disease Fellow	2020	Cardiovascular Disease Fellow (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Konstantin S. German, MD</b>	Internal Medicine Resident	2019	Chief Medical Resident (2019-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine



Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
<b>Jamal Hajjari, MD</b>	Cardiovascular Disease Fellow	2021	Cardiovascular Disease Fellow (2018-2021), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Scott E. Janus, MD</b>	Cardiovascular Disease Fellow	2021	Cardiovascular Disease Fellow (2018-2021), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Mohamad H. Karnib, MD</b>	Internal Medicine Resident	2019	Cardiovascular Disease Fellow (2019-2022), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Aditya K. Khetan, MD</b>	Cardiovascular Disease Fellow	2019	Advanced Echocardiography Fellow (2019-2020), McMaster University, Hamilton, Ontario, Canada
<b>Daniel Kobe, MD</b>	Internal Medicine Resident	2019	Chief Medical Resident (2019-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine

Name	Mentee/Trainee Role	Graduation Year	Current (or Future) Position
<b>Matthew J. Lacey, MD</b>	Internal Medicine Resident	2020	Internal Medicine Resident (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Jun Li, MD</b>	Advanced Interventional Cardiology Fellow	2018	Interventional Cardiologist, University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Jacob D. Luthman, MD</b>	Cardiovascular Disease Fellow	2018	Advanced Heart Failure and Transplant Cardiology Fellow (2018-2019), Cleveland Clinic
<b>Haytham Mously, MD</b>	Cardiovascular Disease Fellow	2021	Cardiovascular Disease Fellow (2018-2021), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Fahd Nadeem, MD</b>	Cardiovascular Disease Fellow	2020	Cardiovascular Disease Fellow (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine

<b>Name</b>	<b>Mentee/Trainee Role</b>	<b>Graduation Year</b>	<b>Current (or Future) Position</b>
<b>Thuy Nguyen, MD</b>	Cardiovascular Disease Fellow	2019	Multimodality Cardiovascular Imaging Fellow (2019-2021), University of California San Francisco
<b>Muhammad Siyah Panhwar, MD</b>	Internal Medicine Resident	2019	Cardiovascular Disease Fellow (2019-2022), Tulane University School of Medicine
<b>Andrew Patterson, MD, PhD</b>	Cardiovascular Disease Fellow	2019	Cardiovascular Disease Fellow (2016-2019), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Benjamin D. Ravaee, MD</b>	Cardiovascular Disease Fellow	2018	Private Practice
<b>Hasan Rehman, MD</b>	Internal Medicine Resident	2018	Cardiovascular Disease Fellow (2018-2021), Houston Methodist Hospital
<b>Isaac B. Rhea, MD</b>	Cardiovascular Disease Fellow	2018	Cardio-oncology Fellow, Moffitt Cancer Center
<b>Fady S. Riad, MD</b>	Cardiovascular Disease Fellow	2020	Cardiovascular Disease Fellow (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine

<b>Name</b>	<b>Mentee/Trainee Role</b>	<b>Graduation Year</b>	<b>Current (or Future) Position</b>
<b>Mohamad K. Sabeh, MD</b>	Cardiovascular Disease Fellow	2018	Electrophysiology Fellow (2018-2020), Massachusetts General Hospital, Harvard Medical School
<b>Aaron Ali Shaikh, MD</b>	Internal Medicine Resident	2020	Internal Medicine Resident (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Khaled Tuwairqi, MD</b>	Cardiovascular Disease Fellow	2020	Cardiovascular Disease Fellow (2017-2020), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine
<b>Ghazanfar Qureshi, MD</b>	Advanced Interventional Cardiology Fellow	2018	Private Practice
<b>Ahmad Younes, MD</b>	Cardiovascular Disease Fellow	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
<b>Mohamed Wazzan, MD</b>	Internal Medicine Resident	2019	Cardiovascular Disease Fellow (2019-2022), University Hospitals Cleveland Medical Center, Case Western Reserve University School of Medicine

Teaching Activities

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.

Honors and Awards:

**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

**Grant Support:**

1. St. Jude Medical, Inc.; Ten Thousand Dollars (\$10,000) for “**Implantable cardioverter-defibrillator therapy following acute myocardial infarction: Risk stratification with tissue heterogeneity characterization utilizing contrast-enhanced magnetic resonance imaging.**”



## **Publications:**

(\*equal first author contribution to the manuscript)

### Peer-reviewed Original Research Articles

1. Panhwar MS, **Kalra A**, Gupta T, Kolte D, Khera S, Bhatt DL, Ginwalla M. Association of concomitant heart failure with outcomes in patients hospitalized with influenza. **Am J Cardiol.** 2019; doi: 10.1016/j.amjcard.2019.01.046 [Epub ahead of print]
2. 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.
3. 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.
4. 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.
5. **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. **Structural Heart.** 2018; doi: 10.1080/24748706.2018.1549763. [Epub ahead of print]
6. Panhwar MS, Li J, Zidar DA, Clevenger J, Lipinski J, Patel TR, Saric P, Patel SM, **Kalra A**, Attizzani G. Outcomes among patients with heart failure with reduced ejection fraction undergoing transcatheter aortic valve replacement. **J Invasive Cardiol.** 2018; pii: JIC20181215-3. [Epub ahead of print]
7. 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.
8. 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.** 2018; doi: 10.1016/j.hlc.2018.11.007. [Epub ahead of print]
9. 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.** 2018; doi:10.1002/ccd.27996. [Epub ahead of print]

10. 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.
11. 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.
12. **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.
13. 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.** 2018; doi: 10.1002/ccd.27894. [Epub ahead of print]
14. 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.** 2018; doi: 10.1002/ccd.27840. [Epub ahead of print]
15. 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.
16. 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. **Structural Heart.** 2018;2:541-547.
17. 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. **Structural Heart.** 2018;2:531-537.
18. 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.

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. Longenecker CT, **Kalra A**, Okello E, Lwabi P, Omagino JO, Kityo C, Kanya MR, Weibel AR, Simon DI, Salata RA, Costa MA. A human-centered approach to cardiovascular care: infrastructure development in Uganda. **Glob Heart.** 2018;13:347-354.
21. 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. pii: e008415.
22. 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. doi: 10.1161/CIRCINTERVENTIONS.117.006179.
23. 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.
24. **Kalra A**, Raza S, Puri R, Deo SV, Auffret V, Khera S, Attizzani GF, Zia A, Khan MS, Reardon MJ, Kleiman NS, Latib A, Rodés-Cabau J, Sabik JF, Bhatt DL. Subclinical leaflet thrombosis and clinical outcomes after TAVR: a systematic review and meta-analysis. **Structural Heart.** 2018;2:223-228.
25. 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.
26. **Kalra A**,\*\* Hafiz AM,\*\* Ramadan R, Poulin MF, Andalib A, Phillips CT, Bhatt DL, Reardon MJ, Kleiman NS, Popma JJ. Leaflet thrombosis following transcatheter aortic valve replacement: insights from the MAUDE database. **Structural Heart.** 2017;1:256-264.
27. **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. Transcatheter aortic valve replacement in the United States: regional variation in utilization, in-hospital mortality, and health care resource use. **Am J Cardiol.** 2017;120:1869-1876.

28. **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.
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## Abstracts

## National/International Meetings

1. Tsushima T, Clevenger JR, Al-Kindi S, **Kalra A**, Attizzani GF, Sareyyupoglu B, Elugudin Y, Markowitz A, Costa MA, Thal SG, Mackall JA. Clinical impact of postoperative right ventricular pacing burden in patients with cardiovascular implantable electronic device before transcatheter aortic valve implantation: a single high volume center experience. **Heart Rhythm Society Annual Scientific Sessions**, San Francisco, CA, May 8-11, **2019**.
2. Tsushima T, Nadeem F, Al-Kindi S, Clevenger JR, Bansal E, **Kalra A**, Attizzani GF, Sareyyupoglu B, Elugudin Y, Markowitz A, Costa MA, Simon DI, Arruda MS, Mackall JA, Thal SG. Risk prediction model for permanent pacemaker implantation after transcatheter aortic valve implantation: an extraction and internal validation in single high volume center experience. **Heart Rhythm Society Annual Scientific Sessions**, San Francisco, CA, May 8-11, **2019**.
3. Tsushima T, Badhwar AK, Khetan A, **Kalra A**, Thal SG, Mackall JA. Oral theophylline: pharmacologic intervention for neck mass-induced sick sinus syndrome. **Heart Rhythm Society Annual Scientific Sessions**, San Francisco, CA, May 8-11, **2019**.
4. Tsushima T, Nadeem F, Al-Kindi S, Clevenger JR, Bansal E, **Kalra A**, Attizzani GF, Mackall JA, Costa MA, Simon DI, Arruda MS, Thal SG. Risk prediction model for permanent pacemaker implantation after transcatheter aortic valve implantation: a single high volume center experience. **American College of Cardiology Annual Scientific Sessions**, New Orleans, LA, March 16-18, **2019**.
5. **Kalra A**, Raza S, Hussain M, Delozier S, Deo SV, Khera S, Kleiman NS, Reardon MJ, Kolte D, Gupta T, Mustafa R, Bhatt DL, Sabik JF 3rd. Aortic valve replacement in bioprosthetic failure: insights from the Society of Thoracic Surgeons National Database. Richard E. Clark Memorial Paper, **Society of Thoracic Surgeons Annual Meeting**, San Diego, CA, January 29, **2019**.
6. Sreenivasan J, Khan MS, Memon MM, Lateef N, **Kalra A**. Percutaneous coronary intervention versus optimal medical therapy for coronary chronic total occlusion: A meta-analysis. Poster Presentation, **American Heart Association Annual Scientific Sessions**, Chicago, IL, November 11, **2018**.
7. Panhwar MS, Kalra A, Gupta T, Kolte D, Khera S, Ginwalla M. Incidence and outcomes of post-operative venous thromboembolism (VTE) in patients undergoing coronary artery bypass surgery (CABG). *Circulation*. 2018;138:A16836. Poster Presentation, **American Heart Association Annual Scientific Sessions**, Chicago, IL, November 10, **2018**.
8. Khan MS, Siddiqi TJ, Usman MS, Khan A, Riaz H, Murad H, **Kalra A**, Doukky R, Kavinsky CJ, Desai MY, Bhatt DL. Performance of current risk models in predicting short-term mortality after transcatheter aortic valve replacement: a systematic review and meta-analysis. Poster Presentation, **American Heart Association Annual Scientific Sessions**, Chicago, IL, November 10, **2018**.

9. Gupta T, Kolte DS, Khera S, Goel K, Villablanca PA, Velagapudi P, Mohaneny D, **Kalra A**, Abbott JD, Elmariah S, Fonarow GC, Rihal CS, Weisz G, Bhatt DL. The changing landscape of aortic valve replacement in the United States: insights from a national database. **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, San Diego, CA, September 21 - 25, **2018**.
10. Mohaneny D, Villablanca PA, Ranka S, Gupta T, Bhatia N, Adegba O, Ando T, Greenbaum A, Wang DD, Wiley J, Eng MH, **Kalra A**, Ramakrishna H, Shah B, O'Neill WW, Bhatt DL. Association of peripheral artery disease with in-hospital outcomes after endovascular transcatheter aortic valve replacement. **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, San Diego, CA, September 21 - 25, **2018**.
11. Megaly M, Rofael M, Saad M, Rezaq A, Tawadros M, Kohl LP, **Kalra A**, Shishehbor MH, Soukas P, Abbott JD, Brilakis EM. Outcomes with drug-coated balloons in small-vessel coronary artery disease. **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, San Diego, CA, September 21 - 25, **2018**.
12. Megaly M, Khalil C, Abraham B, Saad M, Tawadros M, Stanberry L, **Kalra A**, Goldsmith SR, Bart BM, Bae R, Brilakis ES, Gössl M, Sorajja P. Impact of transcatheter mitral valve repair on left ventricular remodeling in secondary mitral regurgitation. **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, San Diego, CA, September 21 - 25, **2018**.
13. Olgati S, **Kalra A**, Danovi A, Costa MA. Does teamwork improve clinical and health care executive leaders' individual performance? A reproducible analysis of an experiment at the Harvard Medical School. **European Academy of Management**, Reykjavik, Iceland, June 21, **2018**.
14. Khera S, Kolte DS, Deo SV, **Kalra A**, Gupta T, Abbott JD, Kleiman NS, Bhatt DL, Fonarow GC, Khalique OK, Kodali SK, Palacios IF, Inglessis I, Mack MJ, Thourani VH, Leon MB, Drachman DE, Elmariah S. Derivation of a simple risk tool to predict 30-day readmissions after transcatheter aortic valve replacement. **The Society for Cardiovascular Angiography and Interventions Annual Scientific Sessions**, San Diego, CA, April 25 - 28, **2018**.
15. Megaly M, Abraham B, Saad M, Omer M, Elbadawi A, Tawadros M, Khalil C, Nairoz R, Almomani A, Sengupta J, **Kalra A**, Brilakis ES, Gafoor S. Impact of atrial fibrillation on outcomes after MitraClip therapy: a meta-analysis. **The Society for Cardiovascular Angiography and Interventions Annual Scientific Sessions**, San Diego, CA, April 25 - 28, **2018**.
16. Alnaimat S, Khan MS, Usman MS, Siddiqi TJ, Raza S, Munir B, **Kalra A**. Worsening tricuspid regurgitation associated with permanent pacemaker and implantable cardioverter defibrillator implantation: a systematic review and meta-analysis. **American College of Cardiology Annual Scientific Sessions**, Orlando, FL, March 10, **2018**.



17. Rehman H, **Kalra A**, Cochran JM, Peterson L, Puri R, Khera S, Gupta T, Kolte D, Barker CM, Bhatt DL, Reardon MJ, Kleiman NS. Balloon predilation in transcatheter aortic valve replacement with self-expanding valves. **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, Denver, CO, October 29 - November 2, **2017**.
18. Napodano M, Bapat VN, Landi A, Simonato M, Cohen MG, Arbel Y, McCabe JM, Smalling RW, Garcia S, Reardon MJ, **Kalra A**, Mendiz O, Walton T, Jones N, Thukkani A, Perlman G, Chhatriwalla A, Dvir D. Surgical bioprosthesis size definition and hemodynamic performance following aortic valve-in-valve: insights from the Valve-in-Valve International Data (VIVID) registry. **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, Denver, CO, October 29 - November 2, **2017**.
19. Gupta T, Khera S, Kolte D, Goel K, **Kalra A**, Villablanca PA, Aronow HD, Abbott JD, Fonarow GC, Taub CC, 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 a propensity-score matched analysis of in-hospital outcomes. **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, Denver, CO, October 29 - November 2, **2017**.
20. Gupta T, Kolte D, Khera S, Goel K, **Kalra A**, Villablanca PA, Bortnick AE, Aronow HD, Abbott JD, Fonarow GC, Rihal CS, Weisz G, Menegus MA, Garcia MJ, Bhatt DL. Association of primary insurance status with use of revascularization and in-hospital outcomes in patients with non-ST-segment elevation myocardial infarction in the United States. **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, Denver, CO, October 29 - November 2, **2017**.
21. **Kalra A**, Hafiz AM, Ramadan R, Poulin MF, Andalib A, Phillips CT, Bhatt DL, Reardon MJ, Kleiman NS, Popma JJ. Leaflet thrombosis following transcatheter aortic valve replacement: insights from the MAUDE database. Late-Breaking Science Presentation, **European Society of Cardiology Congress**, Barcelona, Spain, August 29, **2017**.
22. Landes U, Dvir D, Schoels W, Amabile N, Tron C, Ensminger S, Reardon MJ, **Kalra A**, Simonato M, Schäfer U, Bunc M, Aldea G, Cerillo A, Windecker S, Almagor Y, Barbanti M, Testa L, Marzocchi A, Kornowski R. Transcatheter aortic valve-in-valve implantation in degenerative sutureless bioprostheses. Poster Presentation, **EuroPCR**, Paris, France, May 16 - 19, **2017**.
23. Reul RM, Ibarra-Cortez SH, Barker CM, **Kalra A**, Reardon MJ. Left ventricular pseudoaneurysm resection. Case Video Learning Center Presentation, **American Association for Thoracic Surgery**, Boston, MA, April 29 - May 3, **2017**.
24. Bier BA, Pemberton H, Matos JD, **Kalra A**, Tachjian A, Gavin MC, Pinto DS. Survival of patients referred for emergent cardiac catheterization for ST-elevation myocardial infarction without culprit lesions. *J Am Coll Cardiol.* 2017;69(11\_S):283-283. Poster Presentation, **American College of Cardiology Annual Scientific Sessions**, Washington, DC, March 19, **2017**.

25. **Kalra A**, Rehman H, Ramchandani M, Barker CM, Reul RM, Reardon MJ, Kleiman NS. Early Trifecta™ valve failure — mechanistic insights and management, a single center experience. Poster Presentation, **Heart Valve Society 2017 Annual Scientific Meeting**, Monte Carlo, Monaco, March 2 - 4, **2017**.
26. **Kalra A**, Wei J, Bhatt DL, Anderson K, Rykowski S, Kerkar PG, Kumar G, Maddox TM, Oetgen WJ, Virani SS. Impact of electronic health records on the quality of outpatient cardiovascular care delivery in India: insights from the American College of Cardiology's PINNACLE India Quality Improvement Program (PIQIP). *J Am Coll Cardiol.* 2017;69(11\_S): 2494-2494. Poster Presentation, **American College of Cardiology Annual Scientific Sessions**, Washington, DC, March 17, **2017**.
27. Matos JD, Bier BA, Tachjian A, **Kalra A**, Contreras-Valdes FM, Gavin MC, Pinto DS. Utilization of a simple history and EKG-based algorithm to improve diagnostic accuracy of ST elevations for acute epicardial occlusion. *J Am Coll Cardiol.* 2016;67(13\_S):651-651. Poster Presentation, **American College of Cardiology Annual Scientific Sessions**, Chicago, IL, April 4, **2016**.
28. **Kalra A**, Pokharel Y, Glusenkamp N, Wei J, Thakran V, 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). *J Am Coll Cardiol.* 2016;67(13\_S):1849-1849. Moderated Poster Presentation, **American College of Cardiology Annual Scientific Sessions**, Chicago, IL, April 3, **2016**.
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30. Pokharel Y, Virani SS, Steinberg L, Chan W, Akeroyd JM, Gowani SA, **Kalra A**, Polsani V, Miedema MD, Jones PH, Nambi V, Petersen LA, Ballantyne CM. Knowledge, attitude and provider practices towards the 2013 ACC/AHA cholesterol management guidelines. Finalist, Oral Presentation, **Eleventh Annual Northwestern Cardiovascular Young Investigators' Forum 2015**, Chicago, IL, October **2015**.
31. **Kalra A**, Pokharel Y, Hira RS, Risch S, Vicera V, Li Q, Kalra RN, Kerkar PG, Kumar G, Maddox TM, Oetgen WJ, Glusenkamp 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). Oral Presentation. **American Association of Cardiologists of Indian Origin Meeting**, San Diego, CA, March 15, **2015**.
32. **Kalra A**, Harris KM, Maron BA, Ho CY, Garberich RF, Haas TS, Maron BJ. Doppler tissue imaging predicts progressive heart failure prognosis in hypertrophic cardiomyopathy. *J Am Coll Cardiol.* 2015;65(10\_S). Poster Presentation, **American College of Cardiology Annual Scientific Sessions**, San Diego, CA, March 15, **2015**.

33. **Kalra A**, Rao PG, Sharma A, Bhandari S, Garberich RF, McGriff DM, Casey SA, Abdelhadi RH, Abraham JM, Sengupta J, Maron BJ. "Silent" atrial fibrillation burden in patients with hypertrophic cardiomyopathy. *J Am Coll Cardiol*. 2015;65(10\_S): A269-A269. Moderated Poster Presentation, **American College of Cardiology Annual Scientific Sessions**, San Diego, CA, March 14, **2015**.
34. Pokharel A, Hira R, **Kalra A**, Shore S, Kerkar P, Kumar G, Risch S, Vicera V, Oetgen W, Turakhia M, Glusenkamp N, Virani S. Guideline-recommended medication use among systolic heart failure patients in India: Insights from the American College of Cardiology Practice Innovation and Clinical Excellence (PINNACLE) India registry. *Indian Heart J*. 2014;66:S79-S80. Oral Presentation, **Cardiological Society of India Annual Scientific Sessions**, Hyderabad, India, December 6, **2014**.
35. **Kalra A**, Harris KM, Maron BA, Ho CY, Garberich RF, Haas TS, Maron BJ. Doppler tissue imaging predicts progressive heart failure prognosis in hypertrophic cardiomyopathy. Finalist, Oral Presentation, **Tenth Annual Northwestern Cardiovascular Young Investigators' Forum 2014**, Chicago, IL, November 7, **2014**.
36. **Kalra A**, Kia F, Johnson B, Newell MC, Garberich RF, Lesser JR, Abdelhadi R, Henry TD, Sengupta J. Post-myocardial infarction risk stratification of patients at risk for sudden cardiac arrest by contrast-enhanced magnetic resonance imaging scar quantification. *J Am Coll Cardiol*. 2014;63(12\_S):A2155-A2155. Young Investigator Award Finalist, Oral Presentation, **American College of Cardiology Annual Scientific Sessions**, Washington, DC, March 31, **2014**.
37. Johnson BK, Newell MC, **Kalra A**, Sengupta J, Hauser RG, Katsiyannis WT, Garberich RF, Henry TD. Underutilization of implantable cardioverter-defibrillators in appropriate patients in a regional ST-elevation myocardial infarction system. *Circulation*. 2013;128:A17745. Poster Presentation, **American Heart Association Annual Scientific Sessions**, Dallas, TX, November 19, **2013**.
38. **Kalra A**, Shroff GR, Erlien D, Gilbertson DT, Herzog CA. Should use of perflutren-based echocardiographic contrast agents be contraindicated in patients with intracardiac shunts? *Circulation*. 2013;128:A10983. Poster Presentation, **American Heart Association Annual Scientific Sessions**, Dallas, TX, November 18, **2013**.
39. Contino K, **Kalra A**, Gajera M, Desai N, Rajput V. Publication misrepresentation by applicants to residency and fellowship programs in graduate medical education. Oral Presentation, **International Conference on Medical Education**, Balaclava, Mauritius, October **2013**.
40. **Kalra A**, Cabuay B, Samara M, Zimbwa P, Feldman D. Successful resuscitation utilizing LUCAS chest compression system with sequential circulatory support (IABP & VA-ECMO) during PCI for STEMI. Oral Presentation, Meet the Experts, **American College of Cardiology Annual Scientific Sessions**, San Francisco, CA, March 11, **2013**.

41. **Kalra A**, Traverse JH. Peripartum acute ST elevation myocardial infarction from spontaneous coronary artery dissection. Winner, Oral Presentation, **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, Miami, FL, October 26, **2012**.
42. **Kalra A**, Schumacher C, Alden P, Harris KM. Endovascular repair of descending thoracic aortic pseudoaneurysm in a patient with Loeys-Dietz II syndrome. Challenging Cases Presentation, **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, Miami, FL, October 23, **2012**.
43. **Kalra A**, Traverse JH. Peripartum acute ST elevation myocardial infarction from spontaneous coronary artery dissection. Challenging Cases Presentation, **Transcatheter Cardiovascular Therapeutics Annual Scientific Sessions**, Miami, FL, October 23, **2012**.
44. Desai N, **Kalra A**, Jain N, Jain A. Tuberculous myopericarditis: a rare presentation in an immunocompetent host. *Chest*. 2012;142(4\_MeetingAbstracts):106A. Poster Presentation, **Chest 2012 Sessions**, Atlanta, GA, October 23, **2012**.
45. Desai N, **Kalra A**, Nader K, Ferber A. Distributive shock in a patient with vanishing bile duct syndrome as a paraneoplastic manifestation of Hodgkin's lymphoma. *Chest*. 2012;142(4\_MeetingAbstracts):337A. Poster Presentation, **Chest 2012 Sessions**, Atlanta, GA, October 23, **2012**.
46. **Kalra A**, Heitner S, Topalian S. Iatrogenic pulmonary artery rupture: a novel therapeutic approach. Oral Presentation, **American College of Cardiology Annual Scientific Sessions**, Chicago, IL, March 26, **2012**.
47. **Kalra A**, Rajaram SS, Parrillo JE. Effect Of incremental dobutamine infusion on cardiac volumetric and performance responses in healthy volunteers. *J Am Coll Cardiol*. 2012;59(13s1):E897-E897. Poster Presentation, **American College of Cardiology Annual Scientific Sessions**, Chicago, IL, March 26, **2012**.
48. **Kalra A**, Fabius D, Potestio C, Vito K, Milcarek B, Gerber D. Packed Red Blood Cell Transfusion Outcomes in patients with heart failure and anemia. *J Am Coll Cardiol*. 2012;59(13s1):E1044-E1044. Poster Presentation, **American College of Cardiology Annual Scientific Sessions**, Chicago, IL, March 26, **2012**.
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50. **Kalra A**, Heitner S, Aji J, Topalian S. Iatrogenic pulmonary artery rupture during Swan-Ganz placement: novel therapeutic approach. Oral Presentation, **European Society of Cardiology Congress**, Paris, France, August **2011**.

51. Gajera M, **Kalra A**, Butler I, Gandhi SV, Thayasivam U, McFetridge J, Minder J, Okorie N, Rajaram SS. Provider perceptions of end-of-life (EOL) discussion in the ICU: impact of EOL bundle. Poster Presentation, **Society of Critical Care Medicine Congress**, San Diego, CA, January **2011**.
52. Yazbeck M, Jung Lee W, **Kalra A**, Tsigrelis C, Schorr C, El-Oshar S, Rajaram SS. 2009 H1N1 influenza infection and severe acute respiratory distress syndrome: case series with emphasis on bronchopleural fistulas and management approach. Poster Presentation, **Society of Critical Care Medicine Congress**, San Diego, CA, January **2011**.
53. **Kalra A**, Gajera M, Rachoin JS, Schorr C, Gerber DR. CURB-65 predicts mortality better in patients with health-care-associated than community-acquired pneumonia. *Chest*. 2010;138(4\_MeetingAbstracts):671A. Poster Presentation, **Chest 2010 Sessions**, Vancouver, BC, Canada, November 3, **2010**.
54. **Kalra A**, Gajera M, Rachoin JS, Schorr C, Gerber DR. Accuracy of the CURB-65 score in predicting outcomes in patients with abnormalities in serum sodium levels. *Chest*. 2010;138(4\_MeetingAbstracts):666A. Poster Presentation, **Chest 2010 Sessions**, Vancouver, BC, Canada, November 3, **2010**.
55. **Kalra A**, Fabius D, Gajera M, Palaniswamy C. Triad of interstitial pneumonia, eosinophilia, and eosinophilic pleural effusion: a rare paraneoplastic manifestation of lung adenocarcinoma. *Chest*. 2010;138(4\_MeetingAbstracts):101A. Oral Presentation, **Chest 2010 Sessions**, Vancouver, BC, Canada, November 3, **2010**.
56. **Kalra A**, Gajera M, Puri N, Fuller B, Milcarek B, Hunter K, Zanotti S. Fluid balance at 72 hours in severe sepsis and septic shock patients treated with early goal-directed therapy is associated with increased length of mechanical ventilation. *Chest*. 2010;138(4\_MeetingAbstracts):388A. Poster Presentation, **Chest 2010 Sessions**, Vancouver, BC, Canada, November 2, **2010**.
57. **Kalra A**, Palaniswamy C, Patel R, Kalra A. Acute hypotensive transfusion reaction with concomitant use of ACE inhibitors. *Chest*. 2010;138(4\_MeetingAbstracts):69A. Oral Presentation, **Chest 2010 Sessions**, Vancouver, BC, Canada, November 2, **2010**.
58. **Kalra A**, Gajera M, Shah N, Fraimow H. Cardiac tamponade as manifestation of Rickettsial infection. *Chest*. 2010;138(4\_MeetingAbstracts):37A. Oral Presentation, **Chest 2010 Sessions**, Vancouver, BC, Canada, November 1, **2010**.

#### Regional Meetings

59. Kazmi FN, Adil A, **Kalra A**, Almquist AK. Arrhythmogenic syncope predating infiltration in infiltrative cardiomyopathy. Poster Presentation, **American College of Physicians (ACP) Minnesota Chapter Meeting**, Minneapolis, MN, November 7, **2014**.
60. Adil A, Kazmi FN, **Kalra A**, Almquist AK. Evaluation of syncope: should hyperventilation be part of the algorithm? Poster Presentation, **American College of Physicians (ACP) Minnesota Chapter Meeting**, Minneapolis, MN, November 7, **2014**.

61. Aggarwal A, Svobodny BP, Samara MA, **Kalra A**. Idiopathic fulminant heart failure: when history unraveled the mystery. Poster Presentation, **American College of Physicians (ACP) Minnesota Chapter Meeting**, Minneapolis, MN, November **2013**.
62. Briese N, Sandoval Y, **Kalra A**, Williams DM, LeClaire M, Shroff GR. Was that murmur there five hours ago? An acute complication of myocardial infarction. Poster Presentation, **American College of Physicians (ACP) Minnesota Chapter Meeting**, Minneapolis, MN, November **2013**.
63. Mok S, **Kalra A**, Gajera M, Ojiako C, Rajaram SS, Dellinger RP. Rethinking an algorithm - the utility of the Technitium-99m labeled red cell scanning for lower gastrointestinal bleed. Poster Presentation, **American College of Physicians (ACP) New Jersey Chapter Meeting**, Iselin, NJ, March 2, **2012**.

#### **Faculty Lectures:**

1. 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**.
2. 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**.
3. Transcatheter aortic valve replacement for sutureless aortic valve failure. **Southwest Valve Summit Meeting**, San Antonio, TX, May 6, **2017**.
4. Recent advances in percutaneous mitral valve intervention. **11th Annual Cardiovascular Disease Update**, Cleveland, OH, October 4, **2017**.
5. Emerging transcatheter options for tricuspid regurgitation. **Ohio-American College of Cardiology (ACC) 27th Annual Meeting**, Columbus, OH, October 14, **2017**.
6. Transcatheter aortic valve replacement: case presentation. **Cardiovascular Innovations Annual Scientific Sessions 2018**, Denver, CO, July 26, **2018**.