

CURRICULUM VITAE

Rohan Khera, MBBS, MS

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Contact Information:

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Education:

08/2006 - 12/2011 MBBS, All India Institute of Medical Sciences, New Delhi, DL
08/2016 - 12/2019 MS, UT Southwestern Medical Center, Dallas, TX

Career/Academic Appointments:

06/2013 - 06/2014 Internship, University of Iowa Carver College of Medicine, Iowa City, IA
07/2014 - 06/2016 Residency, Internal Medicine, University of Iowa Carver College of Medicine, Iowa City, IA
07/2016 - 06/2020 Fellowship, Cardiology, UT Southwestern Medical Center, Dallas, TX
07/2017 - 06/2019 Clinical Scholar, Clinical Sciences, UT Southwestern Medical Center, Dallas, TX
07/2020 - Present Assistant Professor, Cardiology (Medicine), Yale School of Medicine, New Haven, CT
07/2020 - Present Principal Investigator, Cardiovascular Data Science (CarDS) Lab, Yale School of Medicine, New Haven, CT

Administrative Positions:

2022 - Present Clinical Director, Data Analytics Center, Center for Outcomes Research & Evaluation (CORE), Yale-New Haven Hospital, New Haven, CT

Professional Honors & Recognition:

International/National/Regional

2015 Alpha Omega Alpha Medical Honor Society
2015 Quality of Care Outcomes and Research (QCOR) Young Investigator Award, Finalist, American Heart Association
2018 Young Investigator Award, American Heart Association Resuscitation Science
2019 Young Investigator Award, American College of Cardiology

2021 Jeremiah Stamler Distinguished Young Investigator Research Award

Other

2015 Francois M. Abboud Internal Medicine Research Award, University of Iowa Carver College of Medicine

2015 Outstanding Junior Resident in Internal Medicine, University of Iowa Carver College of Medicine

Patents:

Pending

1. **Khera, Rohan**, Oikonomou, Evangelos. 2021. Methods for neighborhood phenomapping for clinical trials. United States 63/177,117, filed April 20, 2021. Patent Pending.

Grants/Clinical Trials History:

Current Grants

Agency: National Institutes of Health
I.D.#: 1K23HL153775
Title: Evaluating and Improving Utilization of Evidence-Based Medical Therapy in Patients with Heart Failure using Automated Tools in the Electronic Health Record
Role: Principal Investigator
Percent effort: N/A
Direct costs per year: \$179,493.00
Total costs for project period: \$964,664.00
Project period: 4/1/2021

Invited Speaking Engagements, Presentations, Symposia & Workshops

Not Affiliated With Yale:

Virtual Location

1. "Personalizing Clinical Trial Interpretation Through Computational Phenomaps", Machine Learning for Health (ML4H) Seminar, Broad Institute of MIT and Harvard, June 2021 (Lecture)
2. "Integrating Data From Health Tech Devices/Tools Into Clinical Workflow", American Heart Association Scientific Sessions, American Heart Association, November 2021 (Lecture)
3. "Biased Algorithms: Is AI Perpetuating Biases?", American Heart Association Scientific Sessions, American Heart Association, November 2021 (Lecture)
4. "Future Direction on Integration of Evidence-based Practice and Health-informatics to Achieve Cardiovascular Quality and Outcomes", American Heart Association Quality of Care and Outcomes Research Meeting, American Heart Association, November 2021 (Lecture)

5. "Personalizing Clinical Trial Interpretation Through Computational Phenomap", MiCHAMP Big Data AI in Health Seminar Series, University of Michigan, December 2021 (Lecture)

Professional Service:

Peer Review Groups/Grant Study Sections

2017 - Present	Board Member, American Heart Association Emergency Cardiovascular Committee
2018 - 2020	Board Member, American Heart Association/American College of Cardiology Task Force for Performance measures.
2021 - Present	Faculty Member, American Heart Association Data Science and Precision Medicine Science Subcommittee
2021 - Present	Ad-hoc Member, American College of Cardiology Digital Strategies Committee
2021 - Present	Member, American Heart Association QCOR Early Career Committee
2021 - Present	Member, American Heart Association QCOR Specialty Conference Program Committee

Bibliography:

Peer-Reviewed Original Research

1. **Khera R**, Das N. Complement Receptor 1: disease associations and therapeutic implications. *Molecular Immunology* 2009, 46: 761-72. [PMID: 19004497](#), [PMCID: PMC7125513](#), [DOI: 10.1016/j.molimm.2008.09.026](#).
2. **Khera R**, Jain S, Kumar L, Thulkar S, Vijayraghwan M, Dawar R. Diffuse large B-cell lymphoma: experience from a tertiary care center in North India. *Medical Oncology (Northwood, London, England)* 2010, 27: 310-8. [PMID: 19350421](#), [DOI: 10.1007/s12032-009-9211-2](#).
3. Ramakrishnan S, **Khera R**, Jain S, Saxena A, Kailash S, Karthikeyan G, Kothari SS, Juneja R, Bhargava B, Kalaivani M, Mehta M, Bahl VK, Airan B. Gender differences in the utilisation of surgery for congenital heart disease in India. *Heart (British Cardiac Society)* 2011, 97: 1920-5. [PMID: 21653217](#), [DOI: 10.1136/hrt.2011.224410](#).
4. Das N, Biswas B, **Khera R**. Membrane-bound complement regulatory proteins as biomarkers and potential therapeutic targets for SLE. *Advances In Experimental Medicine And Biology* 2013, 735: 55-81. [PMID: 23402019](#), [DOI: 10.1007/978-1-4614-4118-2_4](#).
5. **Khera R**, Jain S, Lodha R, Ramakrishnan S. Gender bias in child care and child health: global patterns. *Archives Of Disease In Childhood. Fetal And Neonatal Edition* 2014, 99: 369-74. [PMID: 24344176](#), [DOI: 10.1136/archdischild-2013-303889](#).
6. Jain S, **Khera R**, Corrales-Medina VF, Townsend RR, Chirinos JA. "Inflammation and arterial stiffness in humans". *Atherosclerosis* 2014, 237: 381-90. [PMID: 25463062](#), [DOI: 10.1016/j.atherosclerosis.2014.09.011](#).
7. **Khera R**, Cram P, Lu X, Vyas A, Gerke A, Rosenthal GE, Horwitz PA, Girotra S. Trends in the use of percutaneous ventricular assist devices: analysis of national inpatient sample data, 2007 through 2012. *JAMA Internal Medicine* 2015, 175: 941-50. [PMID: 25822170](#), [PMCID: PMC4780323](#), [DOI: 10.1001/jamainternmed.2014.7856](#).

8. Jain S, **Khera R**, Suneja M, Gehlbach B, Kuperman E. Role of D-dimer Assays in the Diagnostic Evaluation of Pulmonary Embolism. *The American Journal Of The Medical Sciences* 2015, 350: 501-7. [PMID: 25719981](#), [DOI: 10.1097/MAJ.0000000000000405](#).
9. **Khera R**, Vaughan-Sarrazin M, Rosenthal GE, Girotra S. Racial disparities in outcomes after cardiac surgery: the role of hospital quality. *Current Cardiology Reports* 2015, 17: 29. [PMID: 25894800](#), [PMCID: PMC4780328](#), [DOI: 10.1007/s11886-015-0587-7](#).
10. Thirugnanasambandam N, **Khera R**, Wang H, Kukke SN, Hallett M. Distinct interneuronal networks influence excitability of the surround during movement initiation. *Journal Of Neurophysiology* 2015, 114: 1102-8. [PMID: 26041828](#), [PMCID: PMC4588516](#), [DOI: 10.1152/jn.00791.2014](#).
11. Singh S, **Khera R**, Allen AM, Murad MH, Loomba R. Comparative effectiveness of pharmacological interventions for nonalcoholic steatohepatitis: A systematic review and network meta-analysis. *Hepatology (Baltimore, Md.)* 2015, 62: 1417-32. [PMID: 26189925](#), [DOI: 10.1002/hep.27999](#).
12. **Khera R**, Cram P, Girotra S. Letter by Khera et al Regarding Article, "Impact of Annual Operator and Institutional Volume on Percutaneous Coronary Intervention Outcomes: A 5-Year United States Experience (2005-2009)". *Circulation* 2015, 132: e35. [PMID: 26240269](#), [PMCID: PMC4617823](#), [DOI: 10.1161/CIRCULATIONAHA.114.013342](#).
13. Steyers CM, **Khera R**, Bhave P. Pacemaker Dependency after Cardiac Surgery: A Systematic Review of Current Evidence. *PloS One* 2015, 10: e0140340. [PMID: 26470027](#), [PMCID: PMC4607414](#), [DOI: 10.1371/journal.pone.0140340](#).
14. **Khera R**, Murad MH, Chandar AK, Dulai PS, Wang Z, Prokop LJ, Loomba R, Camilleri M, Singh S. Association of Pharmacological Treatments for Obesity With Weight Loss and Adverse Events: A Systematic Review and Meta-analysis. *JAMA* 2016, 315: 2424-34. [PMID: 27299618](#), [PMCID: PMC5617638](#), [DOI: 10.1001/jama.2016.7602](#).
15. **Khera R**, Chan PS, Donnino M, Girotra S. Hospital Variation in Time to Epinephrine for Nonshockable In-Hospital Cardiac Arrest. *Circulation* 2016, 134: 2105-2114. [PMID: 27908910](#), [PMCID: PMC5173427](#), [DOI: 10.1161/CIRCULATIONAHA.116.025459](#).
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18. **Khera R**, Cram P, Vaughan-Sarrazin M, Horwitz PA, Girotra S. Use of Mechanical Circulatory Support in Percutaneous Coronary Intervention in the United States. *The American Journal Of Cardiology* 2016, 117: 10-6. [PMID: 26547292](#), [PMCID: PMC4690753](#), [DOI: 10.1016/j.amjcard.2015.10.005](#).
19. Pandey A, **Khera R**, Kumar N, Golwala H, Girotra S, Fonarow GC. Use of Pulmonary Artery Catheterization in US Patients With Heart Failure, 2001-2012. *JAMA Internal Medicine* 2016, 176: 129-32. [PMID: 26618346](#), [PMCID: PMC4780342](#), [DOI: 10.1001/jamainternmed.2015.6190](#).
20. Singh S, **Khera R**, Murad MH, Loomba R. Reply. *Hepatology (Baltimore, Md.)* 2016, 64: 694. [PMID: 26690078](#), [DOI: 10.1002/hep.28412](#).

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27. **Khera R**, Pandey A, Kumar N, Singh R, Bano S, Golwala H, Kumbhani DJ, Girotra S, Fonarow GC. Variation in Hospital Use and Outcomes Associated With Pulmonary Artery Catheterization in Heart Failure in the United States. *Circulation. Heart Failure* 2016, 9 [PMID: 27780836](#), [PMCID: PMC5123800](#), [DOI: 10.1161/CIRCHEARTFAILURE.116.003226](#).
28. **Khera R**, Krumholz HM. With Great Power Comes Great Responsibility: Big Data Research From the National Inpatient Sample. *Circulation. Cardiovascular Quality And Outcomes* 2017, 10 [PMID: 28705865](#), [PMCID: PMC5728376](#), [DOI: 10.1161/CIRCOUTCOMES.117.003846](#).
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31. Jain S, **Khera R**, Girotra S, Badesch D, Wang Z, Murad MH, Blevins A, Schmidt GA, Singh S, Gerke AK. Comparative Effectiveness of Pharmacologic Interventions for Pulmonary Arterial Hypertension: A Systematic Review and Network Meta-Analysis. *Chest* 2017, 151: 90-105. [PMID: 27615023](#), [PMCID: PMC5310124](#), [DOI: 10.1016/j.chest.2016.08.1461](#).
32. **Khera R**, Spertus JA, Starks MA, Tang Y, Bradley SM, Girotra S, Chan PS. Administrative Codes for Capturing In-Hospital Cardiac Arrest. *JAMA Cardiology* 2017, 2: 1275-1277. [PMID: 28877294](#), [PMCID: PMC5736791](#), [DOI: 10.1001/jamacardio.2017.2904](#).
33. **Khera R**, Pandey A, Koshy T, Ayers C, Nallamothu BK, Das SR, Drazner MH, Jessen ME, Kirtane AJ, Gardner TJ, de Lemos JA, Bhatt DL, Kumbhani DJ. Role of Hospital Volumes in Identifying Low-Performing and High-Performing Aortic and Mitral Valve Surgical Centers in the United States. *JAMA Cardiology* 2017, 2: 1322-1331. [PMID: 29117319](#), [PMCID: PMC5815001](#), [DOI: 10.1001/jamacardio.2017.4003](#).

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36. **Khera R**, Kumbhani DJ. Editorial Commentary: Deconstructing the dogma: Its time to untangle and reassess acute myocardial infarction care. *Trends In Cardiovascular Medicine* 2017, 27: 492-493. [PMID: 28760376](#), [DOI: 10.1016/j.tcm.2017.06.010](#).
37. **Khera R**, Jain S, Pandey A, Agusala V, Kumbhani DJ, Das SR, Berry JD, de Lemos JA, Girotra S. Comparison of Readmission Rates After Acute Myocardial Infarction in 3 Patient Age Groups (18 to 44, 45 to 64, and ≥65 Years) in the United States. *The American Journal Of Cardiology* 2017, 120: 1761-1767. [PMID: 28865892](#), [PMCID: PMC5825232](#), [DOI: 10.1016/j.amjcard.2017.07.081](#).
38. Cheeran D, Khan S, **Khera R**, Bhatt A, Garg S, Grodin JL, Morlend R, Araj FG, Amin AA, Thibodeau JT, Das S, Drazner MH, Mammen PPA. Predictors of Death in Adults With Duchenne Muscular Dystrophy-Associated Cardiomyopathy. *Journal Of The American Heart Association* 2017, 6 [PMID: 29042427](#), [PMCID: PMC5721845](#), [DOI: 10.1161/JAHA.117.006340](#).
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42. **Khera R**, Dharmarajan K, Krumholz HM. Rising Mortality in Patients With Heart Failure in the United States: Facts Versus Fiction. *JACC. Heart Failure* 2018, 6: 610-612. [PMID: 29914774](#), [DOI: 10.1016/j.jchf.2018.02.011](#).
43. Angraal S, **Khera R**, Wang Y, Lu Y, Jean R, Dreyer RP, Geirsson A, Desai NR, Krumholz HM. Sex and Race Differences in the Utilization and Outcomes of Coronary Artery Bypass Grafting Among Medicare Beneficiaries, 1999-2014. *Journal Of The American Heart Association* 2018, 7 [PMID: 30005557](#), [PMCID: PMC6064835](#), [DOI: 10.1161/JAHA.118.009014](#).
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46. **Khera R**, Lu Y, Lu J, Saxena A, Nasir K, Jiang L, Krumholz HM. Impact of 2017 ACC/AHA guidelines on prevalence of hypertension and eligibility for antihypertensive treatment in United States and China: nationally representative cross sectional study. *BMJ (Clinical Research Ed.)* 2018, 362: k2357. [PMID: 29997129](#), [PMCID: PMC6039831](#), [DOI: 10.1136/bmj.k2357](#).
47. **Khera R**, Dorsey KB, Krumholz HM. Transition to the ICD-10 in the United States: An Emerging Data Chasm. *JAMA* 2018, 320: 133-134. [PMID: 29868861](#), [DOI: 10.1001/jama.2018.6823](#).
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51. Warraich HJ, Salami JA, **Khera R**, Valero-Elizondo J, Okunrintemi V, Nasir K. Trends in Use and Expenditures of Brand-name Atorvastatin After Introduction of Generic Atorvastatin. *JAMA Internal Medicine* 2018, 178: 719-721. [PMID: 29525818](#), [PMCID: PMC5885171](#), [DOI: 10.1001/jamainternmed.2018.0990](#).
52. Rubens M, Saxena A, Ramamoorthy V, **Khera R**, Hong J, Veledar E, Nasir K. Trends in Diabetes-Related Preventable Hospitalizations in the U.S., 2005-2014. *Diabetes Care* 2018, 41: e72-e73. [PMID: 29378777](#), [DOI: 10.2337/dc17-1942](#).
53. Wang S, **Khera R**, Das SR, Vigen R, Wang T, Luo X, Lu R, Zhan X, Xiao G, Vongpatanasin W, Xie Y. Usefulness of a Simple Algorithm to Identify Hypertensive Patients Who Benefit from Intensive Blood Pressure Lowering. *The American Journal Of Cardiology* 2018, 122: 248-254. [PMID: 29880288](#), [DOI: 10.1016/j.amjcard.2018.03.361](#).
54. **Khera R**, Humbert A, Leroux B, Nichol G, Kudenchuk P, Scales D, Baker A, Austin M, Newgard CD, Radecki R, Vilke GM, Sawyer KN, Sopko G, Idris AH, Wang H, Chan PS, Kurz MC. Hospital Variation in the Utilization and Implementation of Targeted Temperature Management in Out-of-Hospital Cardiac Arrest. *Circulation. Cardiovascular Quality And Outcomes* 2018, 11: e004829. [PMID: 30571336](#), [DOI: 10.1161/CIRCOUTCOMES.118.004829](#).
55. **Khera R**, Pandey A. The heart failure readmission quagmire: taking a deep dive to find solutions. *European Journal Of Heart Failure* 2018, 20: 315-316. [PMID: 29193571](#), [DOI: 10.1002/ehf.1082](#).
56. Kumar N, **Khera R**, Garg N, Echouffo-Tcheugui JB, Venkatraman A, Pandey A, Bhatt DL. Comparison of Outcomes of Transcatheter Versus Surgical Aortic Valve Replacement in Patients With Chronic Kidney Disease. *The American Journal Of Cardiology* 2018, 121: 343-348. [PMID: 29268936](#), [DOI: 10.1016/j.amjcard.2017.10.029](#).
57. **Khera R**, Pandey A, Chandar AK, Murad MH, Prokop LJ, Neeland IJ, Berry JD, Camilleri M, Singh S. Effects of Weight-Loss Medications on Cardiometabolic Risk Profiles: A Systematic Review and

- Network Meta-analysis. *Gastroenterology* 2018, 154: 1309-1319.e7. [PMID: 29305933](#), [PMCID: PMC5880739](#), [DOI: 10.1053/j.gastro.2017.12.024](#).
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 60. Kumar N, **Khera R**, Fonarow GC, Bhatt DL. Comparison of Outcomes of Transfemoral Versus Transapical Approach for Transcatheter Aortic Valve Implantation. *The American Journal Of Cardiology* 2018, 122: 1520-1526. [PMID: 30190074](#), [DOI: 10.1016/j.amjcard.2018.07.025](#).
 61. Jain S, **Khera R**, Mortensen EM, Weissler JC. Readmissions of adults within three age groups following hospitalization for pneumonia: Analysis from the Nationwide Readmissions Database. *PloS One* 2018, 13: e0203375. [PMID: 30212485](#), [PMCID: PMC6136736](#), [DOI: 10.1371/journal.pone.0203375](#).
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