

**The Faculty of Medicine of Harvard University  
Curriculum Vitae**

**Date Prepared:** August 23<sup>rd</sup>, 2024  
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**Education:**

9/2002-5/2006	B.S.	Biology ( <i>Honors in Research</i> )	University of Wisconsin – Madison
6/2006-5/2011	M.D.	Medicine	Mayo Clinic School of Medicine
9/2008-9/2009	M.Phil.	Public Health	University of Cambridge (U.K.)
9/2014-5/2015 9/2017-5/2018	M.P.P.	Public Policy	Harvard John F. Kennedy School of Government

**Postdoctoral Training:**

6/2011-5/2012	Intern	Internal Medicine	Brigham and Women’s Hospital
6/2012-5/2014	Resident	Internal Medicine	Brigham and Women’s Hospital
6/2015-5/2018	Fellow	Cardiovascular Medicine	Brigham and Women’s Hospital
6/2011-5/2019	Clinical Fellow in Medicine	Department of Medicine	Harvard Medical School
6/2018-5/2019	Postdoctoral T32 Fellow (BWH/BIDMC)	Cardiovascular Health Policy & Outcomes Research	Richard A. and Susan F. Smith Center for Outcomes Research

**Faculty Academic Appointments:**

6/2014-6/2015	Instructor in Medicine	Department of Medicine	Brigham and Women’s Hospital, Harvard Medical School
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6/2019-6/2020	Instructor in Medicine	Division of Cardiovascular Medicine	Beth Israel Deaconess Medical Center, Harvard Medical School
7/2020-	Assistant Professor of Medicine (Investigator criteria)	Division of Cardiovascular Medicine	Beth Israel Deaconess Medical Center and Harvard Medical School
7/2020-	Associate Program Director, Cardiovascular Medicine Fellowship	Division of Cardiovascular Medicine	Beth Israel Deaconess Medical Center
3/2023-9/2023	Assistant Professor of Health Policy and Management	Department of Health Policy and Management	Harvard TH Chan School of Public Health
10/2023-	Associate Professor of Medicine	Division of Cardiovascular Medicine	Beth Israel Deaconess Medical Center and Harvard Medical School
10/2023-	Associate Professor of Health Policy and Management	Department of Health Policy and Management	Harvard TH Chan School of Public Health

**Appointments at Hospitals/Affiliated Institutions:**

6/2014-6/2015	Attending Physician	Department of Medicine	Brigham and Women’s Hospital
6/2019-	Attending Physician	Division of Cardiovascular Medicine	Beth Israel Deaconess Medical Center

**Faculty Membership in Harvard Initiatives, Programs, Centers, and Institutes**

**Other Professional Positions:**

2019-2020	Advisor	US Department of Health and Human Services
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**Major Administrative Leadership Positions:**

**Local**

2020-	Associate Program Director, Cardiovascular Medicine Fellowship	Beth Israel Deaconess Medical Center
2021-	Section Head of Health Policy & Equity, Richard A. and Susan F. Smith Center for Outcomes Research	Beth Israel Deaconess Medical Center

2021-	-Lead a section devoted to research focused on health care policy, quality and equity and cardiovascular care delivery Director, Joan and Marcel Zimetbaum Fellowship	Beth Israel Deaconess Medical Center
2024-	-Direct a program that provides 1-year of dedicated research mentorship, training, and financial support for medical students from backgrounds underrepresented in medicine. Associate Director, Richard A. and Susan F. Smith Center for Outcomes Research	Beth Israel Deaconess Medical Center

**National**

2022-	Chair of Communications Committee	American Heart Association, Council on Quality of Care and Outcomes
2024	New England Comparative Effectiveness Public Advisory Council (CEPAC)	Institute for Clinical and Economic Review (ICER)
2024	Theme Leader (Improving Quality, Safety, and Value)	Academy Health Annual Research Meeting

**Committee Service:**

**Local**

2013-2014	Morbidity and Mortality Committee	Brigham and Women's Hospital
2013-2015	Internal Medicine Residency Selection Committee	Brigham and Women's Hospital
2017-2018	Cardiology Fellowship Selection Committee	Brigham and Women's Hospital
2020-	Cardiology Fellowship Selection Committee	Beth Israel Deaconess Medical Center
2020-	T32 Training Program in Cardiovascular Research, Steering Committee	Beth Israel Deaconess Medical Center

**National**

2020-	Editorial Board	Circulation: Cardiovascular Quality and Outcomes
2021	Abstract Selection Committee	Academy Health
2021	Equity, Diversity, and Inclusion Board National Advisory Committee	American Heart Association
2022	Abstract Selection Committee	Academy Health

2022-	Editorial Board	Health Services Research Journal
2022-	Senior Associate Editor	Health Services Research Journal
2022	Abstract Selection Committee	American Heart Association Scientific Sessions
2022	American Heart Association Scientific Program Planning Committee	American Heart Association Scientific Sessions
2022-	Chair of American Heart Association Communications Committee	American Heart Association, Council on Quality of Care and Outcomes
2022-	Health Equity Fellowship	Health Affairs Journal (Academy Health), Faculty Mentor
2022	Technical Expert Panel for Medicare quality measures	National Committee for Quality Assurance, Centers for Medicare and Medicaid Services
2023-	Technical Expert Panel for Medicare quality measures	National Committee for Quality Assurance, Centers for Medicare and Medicaid Services
2024-	Academy Health Annual Research Meeting	Theme Leader, Abstract Selection Committee
2024-	New England Comparative Effectiveness Public Advisory Council (CEPAC)	Institute for Clinical and Economic Review (ICER)

**Professional Societies:**

2011-	Massachusetts Medical Society	Member
2018-	American Heart Association	Member, Council on Quality of Care and Outcomes Research
2019-2020	American Heart Association Value in Healthcare Initiative	Writing Committee
2019-	American College of Cardiology	Member
2019-	Academy Health	Member
2021-	Academy Health Annual Research Meeting	Abstract Selection Committee
2021-	American Heart Association Statement on Value-Based Payment Models	Writing Committee
2021	American Heart Association, Statement on Racial and Ethnic Disparities Research	Writing Committee
2022-	American Heart Association, Council of Quality of Care and Outcomes	Chair of Communications Committee
2022	American Heart Association National Meeting	Abstract Selection Leader
2022	American Heart Association National Meeting	Scientific Program Planning Committee
2022-	American Heart Association, Council on Quality of Care and Outcomes	Chair of Communications Committee
2024	Academy Health Annual Research Meeting	Theme Leader

## Grant Review Activities:

2021- Area of Concentration Grant Review, Beth Israel Deaconess Medical Center  
Internal Medicine Residency

## Editorial Activities:

- **Ad hoc Reviewer**

New England Journal of Medicine  
Journal of the American Medical Association (JAMA)  
Annals of Internal Medicine  
British Medical Journal  
Circulation  
JAMA – Cardiology  
Journal of the American College of Cardiology (JACC)  
JAMA – Internal Medicine  
JACC – Heart Failure  
Circulation: Cardiovascular Quality and Outcomes  
Health Services Research Journal  
European Heart Journal  
JAMA – Network Open  
JAMA – Health Forum  
Health Affairs  
Journal of the American Heart Association (JAHA)  
Journal of Hospital Medicine

- **Other Editorial Roles**

2020-	Editorial Board	Circulation: Cardiovascular Quality and Outcomes
2022-	Editorial Board	Health Services Research Journal
2022-	Senior Associate Editor	Health Services Research Journal
2023-	Editor, Health Disparities Issue	Circulation

## Honors and Prizes:

2002	Ferdinand Plaenart Award	University of Wisconsin - Madison	Academic excellence
2006	Dean's Outstanding Senior Award	University of Wisconsin – Madison	Outstanding scholarship, leadership, and service
2006	Walter and Adelheid Hohenstein Fellow	Phi Kappa Phi	Academic achievement
2006	Merit Scholarship	Mayo Clinic School of Medicine	

2007	Research Scholarship	American Association of Thoracic Surgery	Outstanding human factors project
2008	Gates Cambridge Scholarship	Bill and Melinda Gates Cambridge Scholarship	Outstanding intellectual ability, leadership potential, and commitment to service
2009	Quality Scholar	American College of Medical Quality	
2010	Medical Student Research Award	American Society of Hematology	Outstanding research
2014	Resident Teaching Award	Harvard Medical School	Excellence in teaching
2014	Jerome H. Grossman Graduate Fellowship	Harvard Kennedy School of Government	Leadership in shaping health care delivery policy
2017	T32 Cardiovascular Research Fellowship	Brigham and Women's Hospital	
2018	Young Investigator Finalist	American Heart Association, Quality of Care and Outcomes Research	Outstanding research study
2019	Young Investigator Finalist	American College of Cardiology	Outstanding research study
2019	Thomas W. Smith Award	Division of Cardiovascular Medicine, Brigham and Women's Hospital	Outstanding research achievement
2020-2021	Top Reviewer Award	Circulation: Cardiovascular Quality and Outcomes	
2022	Top Reviewer Award	Health Services Research Journal	
2022	Emerging Faculty Leadership Academy	American College of Cardiology	
2022	Program Award for Culture of Excellence in Mentoring (PACEM)	Harvard Medical School	One of two program leaders for the Smith Center Mentorship Program that was recognized with the Harvard Medical School PACEM Award.
2023	Excellence in Mentoring Award (Young Mentor Award)	Harvard Medical School	Recognized for outstanding research mentorship across Harvard hospitals.

## **Report of Funded and Unfunded Projects**

### **Past**

2017-2018	Association of the ACA's Medicaid expansion with Care and outcomes for heart failure American Heart Association Get With The Guidelines Young Investigator Grant Role: Project PI
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Evaluated the effects of expanding Medicaid eligibility requirements under the Affordable Care Act on quality of care and outcomes among low-income adults hospitalized with heart failure.

- 2017-2018    Impact of Medicaid expansion on acute myocardial infarction treatment and outcomes  
American College of Cardiology – National Cardiovascular Data Registry  
Role: Project PI  
Evaluated the impact of the Affordable Care Act’s Medicaid expansion on quality of care and mortality among low-income adults hospitalized with acute myocardial infarction.
- 2018-2019    Practice-level socioeconomic disadvantage, care quality, and outcomes among patients with coronary artery disease  
American College of Cardiology - National Cardiovascular Data Registry (PINNACLE)  
Role: Project PI  
Examined the association of practice-level socioeconomic disadvantage with quality of care and outcomes among Medicare beneficiaries with coronary artery disease
- 2019-2020    Heart failure outcomes among older adults in the United States  
American College of Cardiology Merck Research Fellowship in Cardiovascular Disease and Cardio-metabolic Disorders  
Role: Project PI (\$70,000 salary support)  
This project evaluated contemporaneous outcomes (mortality and readmissions) among Medicare patients hospitalized for heart failure in the United States.  
\*Relinquished given K23 award (below)
- 2019-2020    Socioeconomic disadvantage and outcomes among older adults with venous thromboembolism  
Thrombosis Research Group, Brigham and Women’s Hospital  
Role: PI (\$24,150)  
Studied whether socioeconomic disadvantage is associated with higher hospitalization rates and worse outcomes among elderly adults with pulmonary embolism.
- 2021-2022    Neighborhood Deprivation and Clinical Outcomes Among Older Adults Hospitalized for Pulmonary Embolism in the United States  
Thrombosis Research Group, Mass General Brigham  
Role: PI (\$25,298)  
Used national claims data to examine the association of neighborhood deprivation and hospital characteristics with clinical outcomes after a pulmonary embolism hospitalization in the Medicare population.
- 2019-2024    Explaining Rising Heart Failure Mortality in the Medicare Population  
NIH/National Heart, Lung, and Blood Institute (NHLBI), K23 Career Development Award (K23HL148525)  
Role: PI (\$800,000 total direct costs)  
This study evaluates the patient, social, and policy level factors that explain rising heart failure mortality in the US.

## **Current**

- 2021-2025    A Multi-Dimensional Linked Registry to Identify Biological, Clinical, Health System, and Socioeconomic Risk Factors for COVID-19-Related Cardiovascular Events

- NIH/National Heart, Lung, and Blood Institute (NHLBI), R01 (R01HL157530-01)  
 Role: Co-investigator  
 This research leverages linkage of the American Heart Association COVID-19 Cardiovascular Disease Registry with comprehensive health claims data of Medicare-insured patients to enhance risk prediction and systematically ascertain long-term major adverse cardiovascular events after COVID-19 hospitalization. Further linkage with community-level measures of socioeconomic deprivation and rurality will further our understanding of how these factors influence long-term risk associated with COVID-19.
- 2021-2024 Socioeconomic and Racial Disparities in the Dissemination of Novel Technologies to Address Valvular Heart Disease  
 Medtronic Vascular Inc.  
 Role: Co-investigator  
 This study aims to evaluate whether the growth of TAVR occurred similarly in socioeconomically disadvantaged vs. non-disadvantaged individuals shortly after device approval, evaluate whether the growth of TAVR occurred similarly among Black patients versus White patients shortly after device approval, and provide information related to hospitals that have the greatest disparity in use of TAVR versus SAVR between socioeconomically disadvantaged vs. non-disadvantaged individuals and Blacks versus White patients.
- 2022-2023 Long-Term Safety Outcomes Associated with Endovascular Aortic Repair for Treatment of Abdominal Aortic Aneurysm  
 Food and Drug Administration (FDA)  
 Role: Co-Investigator  
 This study aims to evaluate risk factors for mortality, aortic rupture, and aortic reintervention after EVAR for AAA and elucidate any differences in outcomes by key risk factors.
- 2022-2025 Rural-Urban Disparities in Spillover Effects of COVID-19  
 NIH/National Institute of Nursing Research U01 (U01NR020555)  
 Role: Site PI  
 This study examines the spillover effects of the pandemic on care and outcomes for cardiovascular conditions (myocardial infarction, heart failure, stroke), and assess the impact of mitigation strategies rolled out by health systems, communities, and the federal government.
- 2022-2027 Cardiovascular Health of Low-Income Working-Age Adults in the US: Health Care Access, Policy, and the Pandemic  
 NIH/ National Heart, Lung, and Blood Institute (NHLBI), R01 (R01HL164561)  
 Role: PI (\$3.7 million)  
 This study seeks to understand changes in cardiovascular risk factors, disease, and outcomes in low-income working-age adults, assess the impact of the pandemic on health care coverage, access, and affordability as well as cardiovascular morbidity and mortality, and determine the potential effects of expanding the Medicare program on the cardiovascular health of this population.
- 2023-2028 Improving Healthcare Quality and Equity For Older Adults with HIV Under Value-Based Care Models  
 NIH/ National Institute of Aging (NIA), R01 (R01AG081151)  
 Role: Co-Investigator



This study seeks to understand how value-based payment models impact quality of care, clinical outcomes, and spending for older adults with HIV.

- 2024-2025    Accountable Care Organizations in Medicaid: Reducing Low-Value Care for Working-Age Adults  
Donaghue Foundation  
Role: PI (\$440,000)  
There is a pressing need to identify strategies to advance the value of care delivered to Medicaid beneficiaries. Accountable Care Organizations (ACOs), which place health care expenditures for a patient population under a global budget, aim to incentivize the delivery of higher quality care at lower costs. However, little is known about whether ACOs reduce low-value care in Medicaid. We will leverage the fact that in 2018, Massachusetts transitioned the majority of Medicaid beneficiaries to ACOs under a Section 1115 Waiver, to evaluate the effects of ACOs on the use of low-value care in Medicaid.
- 2024-2029    The Inflation Reduction Act and Cardiovascular Health: Access, Adherence, and Pharmacoequity  
AHA Established Investigator Award  
Role: PI (\$399,685)  
This study aims to determine the effect of the Inflation Reduction Act on out-of-pocket costs for prescription drugs that treat cardiometabolic risk factors and conditions, as well as to evaluate whether the Inflation Reduction Act leads to changes in cardiometabolic risk factors and cardiovascular conditions, and the equity implications of this act on socially vulnerable populations.
- 2024-2028    Leveraging SNAP Policies to Improve the Cardiovascular Health of Low-Income Adults in the United States  
NIH/National Institute of Nursing Research (NINR)  
Role: PI (\$2.7 million)  
This study aims to understand how pandemic-related SNAP policies impacted income-based inequities in food security, health care access and affordability, as well as the prevalence, treatment and control of cardiovascular risk factors and conditions.
- 2024-        Understanding and Addressing Disparities in Cardiovascular Care and Health for Rural Working-Age Adults in the United States  
NIH/National Heart, Lung, and Blood Institute (NHLBI), R01 (R01HL166312)  
Role: PI (\$3.9 million)  
This study will evaluate changes in cardiovascular risk factors, disease, and outcomes in rural working-age adults compared to their urban counterparts, assess the impact of the pandemic on health care coverage, access, and affordability as well as cardiovascular morbidity and mortality, and determine the effects of broadband expansion under the *Infrastructure Investment and Jobs Act* on care and outcomes in rural areas.

## **Projects Submitted for Funding**

## **Training Grants and Mentored Trainee Grants**

- 2019-2021    Sarnoff Cardiovascular Research Fellowship  
Sarnoff Fellowship Program  
Mentor

I served as the primary mentor for the Sarnoff Research Fellow, Eméfah Loccoh, whose work evaluated cardiovascular care delivery and mortality in the rural US.

- 2021- John S. Ladue Memorial Fellowship in Cardiovascular Medicine  
Harvard Medical School  
Mentor  
Primary mentor on a Ladue Grant for Andrew Oseran, an MGH Cardiology Fellow in his post-doctoral research training years, for research focused on applying quasi-experimental methods to understand the effects of insurance plan design on cardiovascular health.
- 2021-2024 Sarnoff Cardiovascular Research Fellowship  
Sarnoff Fellowship Program  
Mentor  
I served as the primary mentor on Sarnoff Research Fellowship for Ashley Kyalwazi, whose work examines the intersection of value-based policies and cardiovascular outcomes.
- 2022-2023 Sarnoff Cardiovascular Research Fellowship  
Sarnoff Fellowship Program  
Mentor  
I served as the primary mentor on a Sarnoff Research Fellowship for Chantal Henry, whose work examines racial and ethnic disparities in cardiovascular health.
- 2022- T32 Training Grant in Cardiovascular Research (T32HL160522)  
NIH/National Heart, Lung, and Blood Institute  
Steering Committee  
I am on the steer committee of a T32 training grant, and am responsible for development of a didactic curriculum, advising T32 trainees, and will also serve as a mentor on the grant.
- 2024- Sarnoff Cardiovascular Research Fellowship  
Sarnoff Fellowship Program  
Mentor  
I serve as the primary mentor on a Sarnoff Research Fellowship for Daniel Johnson, whose work examines the impact of social support policies on healthcare access.

### **Report of Local Teaching and Training**

#### **Teaching of Students in Courses:**

2012-2014	Patient Doctor 2 Course 2 <sup>nd</sup> year medical students	Brigham and Women's Hospital 2 hours per week, 4 weeks
2020-	Essentials of the Profession – Health Policy Course 1 <sup>st</sup> year medical students	Harvard Medical School 5.5 hours per week, 4 weeks
2022-	Health Care Quality and Equity (HPM 516) Master's in Public Health students	Harvard School of Public Health 6 hours per week, 8 weeks

#### **Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):**

2013-2014	Cardiovascular Medicine Didactic Curriculum Internal Medicine Residents	Brigham and Women's Hospital 1 hour per week, 8 weeks
2015	Levine Cardiac Unit Morning Didactics Internal Medicine Residents	Brigham and Women's Hospital 1 hour per week, 4 weeks
2015	Levine Cardiac Unit Morning Didactics Internal Medicine Residents	Brigham and Women's Hospital 1 hour per week, 4 weeks
2016	CCU Morning Didactics Internal Medicine Residents	Massachusetts General Hospital 1 hour per week, 4 weeks
2019-	Resident Report or Firm Conference, Internal Medicine Residents	Beth Israel Deaconess Medical Center 1 hour as requested
2019-	Zoll General Cardiology Service Lecture Series, Internal Medicine Residents	Beth Israel Deaconess Medical Center 1-2 hours per week, 4 weeks
2019-	General Cardiology Fellow Didactic Series, Cardiology Fellow	Beth Israel Deaconess Medical Center Four 1-hour sessions per year
2020-	Clinician-Investigator Education Series, Cardiology Fellow	Beth Israel Deaconess Medical Center Four 1-hour sessions per year

**Clinical Supervisory and Training Responsibilities:**

2019-	Attending Physician, Outpatient Cardiac Direct Access Care Unit Internal Medicine Residents	Beth Israel Deaconess Medical Center 9 hours per week, 36 weeks
2019-	Attending Physician, Inpatient Cardiology Consult Service Cardiovascular Medicine Fellows	Beth Israel Deaconess Medical Center 60 hours per week, 3 weeks
2019-	Attending Physician, General Cardiology Inpatient Service Internal Medicine Residents	Beth Israel Deaconess Medical Center 60 hours per week, 1 week

**Formally Mentored Harvard Medical, Dental and Graduate Students:**

\*Denotes current actively supervised mentees

2018-	*Enrico Ferro M.D.  Research mentorship resulted in first-author publication in <u>Health Affairs</u> focused on the Hospital Readmissions Reduction Program.  Current position: Cardiovascular Medicine Fellow, BIDMC	
2019-	*Suhas Gondi M.D.  Primary research mentor for Mr. Gondi resulting in several original publications in <u>JAMA Internal Medicine</u> , <u>JACC</u> , <u>JAMA Network Open</u> , as well as a perspective piece in the <u>New England Journal of Medicine</u> that was a featured author interview on the <u>NEJM Podcast</u>  Current position: Internal Medicine Resident, Brigham and Women's Hospital	

- 2020- \*Michael Liu, MPhil  
 Primary research mentorship and support resulted in 2 first-author original publications in JAMA, another in JACC, and several other original papers, as well as an oral podium presentation at the American Heart Association National Meeting (2021).  
 Current position: Medical Student, Harvard Medical School
- 2021-2024 Ashley Kyalwazi M.D.  
 Serving as primary research mentor of a Sarnoff Cardiovascular Research Fellowship, which has resulted in a first-author original publication in Circulation, an invited author interview on the Circulation On The Run Podcast, and several oral and abstract presentations at the American College of Cardiology Scientific Sessions (2022).  
 Current position: Resident Physician, University of California
- 2021-2022 Ahmed Ahmed  
 Primary research mentor for work resulting in a first-author original publication in the Journal of General Internal Medicine and a presentation at the American College of Cardiology Scientific Sessions (2022).
- 2022- \*Sudheesha Perera M.D.  
 Primary research mentor for HSPH practicum focused on understanding the epidemiology of cardiovascular risk factors and disease among disaggregated Asian subgroups (e.g., South Asian, Chinese American).  
 Current position: Internal Medicine Resident, Yale School of Medicine
- 2022- \*Sahil Sandhu B.S.  
 Primary research mentorship and support has resulted in a first-author perspective in the New England Journal of Medicine (in press).  
 Current position: Medical Student, Harvard Medical School
- 2023- \*Chris Alba B.S.  
 Current position: Medical Student, Harvard Medical School
- 2023- \*Cindy Won B.Sc.  
 Current position: Medical Student, Harvard Medical School

**Other Mentored Trainees and Faculty:**

\*Denotes current actively supervised mentees

- 2018-2020 Colin O'Brien M.D., Cardiology Fellow, Emory University  
 Research mentorship during Dr. O'Brien's internal medicine residency at BIDMC that resulted in an original publication in Journal of the American College of Cardiology as well as a moderated poster presentation at the American College of Cardiology Scientific Sessions (2019).
- 2018-2021 Zachary Hermes M.D., Chief Medicine Resident, Brigham and Women's Hospital

Primary research mentor while Dr. Hermes was an internal medicine resident at BWH that resulted in a first-author manuscript in the Journal of General Internal Medicine and an abstract presentation at the American College of Cardiology Scientific Sessions (2019).

- 2019- \*Eméfah Loccoh M.D., Internal Medicine Resident, Brigham and Women's Hospital  
I served as primary research mentor of a Sarnoff Cardiovascular Research Fellowship (2019-2021) for Dr. Loccoh while she was a medical student at Ohio State University, which resulted in multiple original publications, including first-author papers in Health Affairs and Journal of American College of Cardiology, as well as several abstract presentations at national meetings, including as a finalist for the Society of General Medicine Young Investigator Award 2020.
- 2019- \*Rahul Aggarwal M.D., Cardiology Fellow, Brigham and Women's Hospital  
Primary research mentor for Dr. Aggarwal during his internal medicine residency training at BIDMC and cardiology fellowship at BWH, which resulted in multiple original publications, including 3 first-author original publications in JAMA, and other first-author publications in Journal of American College of Cardiology, JAMA Network Open, and PLOS Medicine, as well as Young Investigator Finalist Award at the American College of Cardiology National Meeting (2022).
- 2019- \*Nicholas Chiu M.D., Internal Medicine Resident, Beth Israel Deaconess Medical Center  
Primary research mentor for Dr. Chiu during internal medicine residency, which resulted in a first-author original publication in JAMA Health Forum, and was a featured author interview on the JAMA Network Podcast.
- 2019- \*Andrew Oseran M.D., Cardiology Fellow, Massachusetts General Hospital  
Primary research mentor for Dr. Oseran while he was a cardiology fellow at MGH completing his 2 years of postdoctoral research training under my mentorship with the support of a John S. Ladue Research Grant (HMS), which has resulted in first-author original publications in JAMA Cardiology, JAMA Internal Medicine, Annals of Internal Medicine, and Circulation: CQO as well as several abstract presentations at AHA, ACC, Academy Health National Meetings.
- 2020-2022 Jamie Diamond M.D., Heart Failure Fellow, Duke Medical Center  
I served as the primary research mentor of an American Heart Association Young Investigator Grant for Dr. Diamond, which began during her cardiology fellowship at BIDMC, and has resulted in an abstract presentation at AHA Scientific Sessions and a first-author manuscript in JAMA Cardiology.
- 2021- \*Prihatha Narasimmaraj M.D., Internal Medicine Resident, Brigham and Women's Hospital  
Primary research mentor for work focused on the effects of value-based payment on cardiovascular equity, which has resulted in an abstract presentation at the American College of Cardiology National Meeting (2022) as well as a first-author manuscript in the Journal of the American College of Cardiology.
- 2021- \*Aaron Troy M.D., Internal Medicine Resident, Beth Israel Deaconess Medical Center

Primary research mentor for Dr. Troy, an internal medicine resident at BIDMC, which has resulted in an oral presentation at the American Heart Association Scientific Sessions (2022) and a manuscript currently under review.

2021- \*Jelani Grant M.D., Cardiology Fellow, Johns Hopkins Hospital

Primary research mentor for Dr. Grant, who is a cardiology fellow at JHU performing work exploring disparities in cardiovascular care delivery, with a first-author original manuscript currently under review.

2021- \*Michael Dangle M.D., Internal Medicine Resident, University of Miami

I serve as a research mentor for Dr. Dangle on work exploring how implicit bias impacts the delivery of cardiovascular procedures, with a first-author original manuscript currently under review.

2022- \*Andrew Anderson Ph.D., Assistant Professor, Tulane University School of Public Health and Tropical Medicine

I served as a faculty mentor for Dr. Anderson, an Assistant Professor at Tulane, through the national Health Affairs Health Equity Fellowship for work focused on disparities preventable heart failure admissions.

2022-2023 Chantal Henry B.S., Medical Student, Meharry Medical College

I served as the primary research mentor for Ms. Henry, a Sarnoff Cardiovascular Research Fellow and medical student at Meharry Medical College, who is focusing on inequities in cardiovascular health in young adults.

2022- \*Lucas Marinacci M.D., Cardiology Fellow, Beth Israel Deaconess Medical Center

I am serving as the primary research mentor for Dr. Marinacci, who will be competing a 2-year post-doctoral T32 research fellowship focused on neighborhood inequities in cardiovascular health in Massachusetts under my guidance.

2022- \*Stephen Mein M.D., Pulmonary/Critical Care Fellow, Beth Israel Deaconess Medical Center

I am serving as the primary research mentor for Dr. Mein, who will be competing a 2-year post-doctoral T32 research fellowship focused on the COVID-19 pandemic's long-term effects on health care access, affordability, and cardiopulmonary health inequities.

2023- \*Victoria Bartlett M.D., Internal Medicine Resident at Brigham and Women's Hospital

I am serving as the primary research mentor for Dr. Bartlett, whose work focuses on private equity acquisitions impact health care delivery, spending, and outcomes.

2023- \*Rachel Gardner M.D., Internal Medicine Resident at Brigham and Women's Hospital

I am serving as the primary research mentor for Dr. Gardner, whose work is focusing on value-based care in the post-pandemic era.

2023- \*Sukruth Shashikumar M.D., Internal Medicine Resident, Brigham and Women's Hospital

I am serving as the research mentor for Dr. Shashikumar, whose work focuses on several important domains, including value-based payment models, health care access, spending, and affordability

- 2023-2024     Frederikke Held Berg MPs, Post-Doctoral Fellow (Denmark)  
I served as the primary research mentor for Dr. Berg, whose work focuses on international comparisons of care deliver, health outcomes, and inequities in the US vs Denmark (universal health care system).
- 2023-             \*Eden Engel-Rebitzer M.D., Internal Medicine Resident, Brigham and Women’s Hospital  
I am serving as the research mentor for Dr. Engel-Rebitzer, whose work focuses on cardiovascular health implications of Medicaid.
- 2023-             \*Anjali Bhatla M.D., Internal Medicine Resident, Johns Hopkins Hospital  
I am serving as the research mentor for Dr. Bhatla, whose work focuses on the effects of private equity acquisitions on patient care experience.
- 2023-             \*August Oddleifson M.D., Internal Medicine Resident, Beth Israel Deaconess Medical Center  
I am serving as the research mentor for Dr. Oddleifson, whose work focuses on quality of care and health care costs for patients with cardiovascular risk factors and heart failure.
- 2023-             \*Prabhu Sasankan M.D., Internal Medicine Resident at BIDMC  
I am serving as the Research mentor for Dr. Sasankan.
- 2024-             \*Daniel Johnson B.A., Sarnoff Fellow  
I am serving as the research mentor for Mr. Johnson, a Sarnoff Cardiovascular Research Fellow and a medical student at the Pritzker School of Medicine – University of Chicago, who is focusing on health care access and affordability.
- 2024-             \*Azariah Boyd M.S., Zimetbaum Fellow  
I am serving as the research mentor for Ms. Boyd, a Zimetbaum fellow who is focusing on reproductive health care policy and its implications on mental health.

**Formal Teaching of Peers (e.g., CME and other continuing education courses):**

- No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*  
 *Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.*

- |      |  |             |
|------|--|-------------|
| 2019 | “Hospital Readmissions Reduction Program and Heart Failure Mortality”<br>15 <sup>th</sup> Annual Holiday Heart Failure Symposium (sponsored by Northwestern Feinberg School of Medicine) | Chicago, IL |
| 2019 | “The Affordable Care Act: Readmissions Controversies.”<br>American College of Cardiology Scientific Sessions – Florida (sponsored by ACC-Florida)  | Orlando, FL |

**Local Invited Presentations:**

No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities

Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

- 2015 “Tackling Heart Failure Readmissions.” Cardiovascular Clinical Conference  
Division of Cardiovascular Medicine, Brigham and Women’s Hospital
- 2016 “Diagnosis and Management of Cardiac Sarcoidosis.” Cardiovascular Clinical Conference  
Division of Cardiovascular Medicine, Brigham and Women’s Hospital
- 2016 “A 73 year-old woman with chest pain.” Cardiac Catheterization Conference  
Cardiology Division, Massachusetts General Hospital
- 2016 “Mixed Valvular Disease.” Hemodynamics Conference  
Cardiovascular Division, Massachusetts General Hospital
- 2016 “Severe Mitral Stenosis.” Cardiovascular Imaging Conference  
Cardiovascular Division, West Roxbury Veteran’s Affairs Hospital
- 2017 “Public Reporting of Cardiac Outcomes.” Cardiovascular Clinical Conference  
Division of Cardiovascular Medicine, Brigham and Women’s Hospital
- 2017 “Cardiac Resynchronization Therapy in Patients with LVAD.” Electrophysiology  
Conference, Cardiology Division, Massachusetts General Hospital
- 2018 “Emerging Value-Based Payment Programs: Rational, Evidence, and Consequences.”  
Richard A. and Susan F. Smith Center for Outcomes Seminar Series, Beth Israel  
Deaconess Medical Center
- 2018 “The Hospital Readmissions Reduction Program and Mortality.” Cardiovascular Grand  
Rounds  
Division of Cardiovascular Medicine, Brigham and Women’s Hospital
- 2018 “Toward Evidence-Based Health Policy for Cardiovascular Care.” Management and  
Leadership Pathway Health Policy Series  
Department of Medicine, Brigham and Women’s Hospital
- 2019 “The Affordable Care Act’s Hospital Readmissions Reduction Program: The Emperor’s  
New Clothes?” Cardiovascular Grand Rounds (*Thomas W. Smith Award*)  
Division of Cardiovascular Medicine, Brigham and Women’s Hospital
- 2019 “The Affordable Care Act and Value-Based Care.” Cardiology Grand Rounds  
Cardiovascular Division, Beth Israel Deaconess Medical Center
- 2019 “Value-Based Care in the Era of the Affordable Care Act.” Management and Leadership  
Pathway Health Policy Series  
Department of Medicine, Brigham and Women’s Hospital
- 2019 “The ACA’s Hospital Readmissions Reduction Program: Policy Success or Emperor’s  
New Clothes?” General Medicine Lecture Series  
Division of General and Internal Medicine, Brigham and Women’s Hospital
- 2020 “Evaluating the Hospital Readmissions Reduction Program: Policy Success or Failure?”  
Center for Healthcare Delivery Science Grand Rounds  
Department of Medicine, Beth Israel Deaconess Medical Center
- 2020 “Pay-for-Performance Under the Affordable Care Act: Promise and Pitfalls.” Medicine  
Grand Rounds.  
Department of Medicine, Beth Israel Deaconess Medical Center
- 2020 “The Affordable Care Act and Heart Failure Care: Have We Made Progress?” Heart  
Failure Section Clinical Seminar.  
Division of Cardiovascular Medicine, Brigham and Women’s Hospital
- 2021 “Advancing Health Equity in the United States.” Cardiology Grand Rounds.  
Cardiovascular Division, Beth Israel Deaconess Medical Center



- 2021 “The COVID-19 Pandemic and Cardiovascular Disease: Inequities and Collateral Effects.”  
Vascular Medicine Conference.  
Division of Cardiovascular Medicine, Brigham and Women’s Hospital
- 2021 “Policy Strategies to Advance Cardiovascular Health Equity.” Trustee Advisory Board and Leadership Board Meeting.  
Department of Medicine, Beth Israel Deaconess Medical Center
- 2021 “Value-Based Care Under the Affordable Care Act: Promise and Pitfalls.” Leadership in Health Policy Series.  
Department of Medicine, Brigham and Women’s Hospital
- 2021 “Health Policy Strategies to Reduce Health Inequities in the US.” Cardiovascular Advisory Committee Meeting.  
Cardiovascular Division, Beth Israel Deaconess Medical Center
- 2021 “Cardiovascular Health Equity in the US.” Cardiovascular Fellowship Lecture Sessions.  
Cardiovascular Division, Beth Israel Deaconess Medical Center
- 2022 “Affordable Care Act and Cardiovascular Health Equity.” Management and Leadership Pathway Health Policy Series  
Department of Medicine, Brigham and Women’s Hospital
- 2023 “Causal Inference Methods to Evaluate the Effects of National Health Policies”  
EPI235 Course: Epidemiologic Methods in Health Services Research  
Harvard School of Public Health
- 2024 “Evaluating Policy Reforms Under the Affordable Care Act: Methodological Approaches”  
EPI235 Course: Epidemiologic Methods in Health Services Research  
Harvard School of Public Health
- 2024 “Policy Strategies to Advance Heart Failure Outcomes and Equity”  
Heart Failure/Transplant Lecture Series  
Massachusetts General Hospital
- 2024 “Health Care Reforms Under the Affordable Care Act”  
Harvard Medical School

**Report of Regional, National and International Invited Teaching and Presentations**

- No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities
- Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

**Regional**

- 2019 “The Hospital Readmissions Reduction Program: Policy Success?” Harvard Kennedy School Health Care Policy Leadership Forum  
Harvard John F. Kennedy School of Government, Cambridge, MA
- 2019 “The ACA’s Hospital Readmission Reduction Program – Policy Success or Emperor’s New Clothes?” Cardiology Grand Rounds  
Division of Cardiovascular Medicine, Lahey Hospital, Burlington, MA
- 2022 “Advancing Cardiovascular Health in the ACA Era: Promise, Progress, and Pitfalls.”  
Cardiology Grand Rounds  
West Roxbury VA Healthcare System, West Roxbury, MA

**National**

- 2007 “A Pilot Preoperative Briefing for Cardiac Surgery.” 18<sup>th</sup> Annual Kirklin Lectureship  
Mayo Clinic, Rochester MN
- 2008 “Development and Implementation of a Cardiac Surgery Specific Preoperative Briefing.”  
Academic Surgical Congress 3rd Annual Meeting, Huntington Beach, CA  
\*Selected oral abstract
- 2017 “Thirty-Day Hospital Spending and Acute Myocardial Infarction Outcomes Among  
Medicare Beneficiaries.”  
American Heart Association Scientific Sessions, Anaheim, CA  
\*Best of QCOR sessions (selected oral abstract)
- 2018 “Impact of the Affordable Care Act’s Medicaid Expansion on Care Quality and Outcomes  
for Low-Income Patients Hospitalized with Heart Failure.”  
American Heart Association Quality of Care and Outcomes Scientific Sessions Meeting,  
Arlington, VA  
\*AHA - QCOR Young Investigator Finalist (selected oral abstract)
- 2019 “Neighborhood Disadvantage and Variation in Coronary Artery Disease Care and  
Outcomes Among Outpatient Cardiology Practices.”  
American College of Cardiology Scientific Sessions, New Orleans, LA  
\*ACC Young Investigator Finalist (selected oral abstract)
- 2019 “Explaining Rising Heart Failure Mortality – The Role of Policy.”  
American College of Cardiology Scientific Sessions, New Orleans, LA  
\*ACC Merck Cardiometabolic Research Award Presentation
- 2019 “The Affordable Care Act: Readmissions Controversies.”  
American College of Cardiology Scientific Sessions (Florida), Orlando, FL
- 2019 “Heart Failure Readmissions and Mortality: Misguided Policy Approach?”  
15<sup>th</sup> Annual Holiday Heart Failure Symposium  
Northwestern Medical Center, Chicago, IL
- 2020 “10 Years of the Affordable Care Act: Where Have We Been and Where Are We  
Headed?”  
American Heart Association’s QCOR Scientific Sessions 2020, Invited Discussant  
(*virtual due to COVID-19*)
- 2021 “Value-Based Policies & Cardiovascular Care Under the Affordable Care Act: Promise &  
Pitfalls.” Cardiovascular Medicine Grand Rounds  
Department of Medicine, University of Maryland Medical Center, Baltimore, MD
- 2021 “Cardiovascular Deaths During the COVID-19 Pandemic in the United States.” Invited  
Lecture. Center for Health Economics and Policy Seminar Series  
Institute of Public Health, Washington University in St. Louis, St. Louis, MO
- 2021 “Cardiovascular Deaths During the COVID-19 Pandemic in the United States.” Invited  
Lecture. Stanford Heart Lab Seminar.  
Stanford Medical School, Palo Alto, CA
- 2021 Cardiovascular Science and Clinical Career Development During COVID-19  
Invited Panel Speaker, American Heart Association Scientific Sessions 2021 (*virtual due  
to COVID-19*)
- 2021 Stop the Waste! Eliminating Low-Value Cardiovascular Health Care  
Invited Discussant, American Heart Association Scientific Sessions 2021 (*virtual due to  
COVID-19*)
- 2021 Social Factors Driving Health Status and Health Care Outcomes  
Invited Discussant, American Heart Association Scientific Sessions 2021 (*virtual due to  
COVID-19*)
- 2021 “The Hospital Readmissions Reduction Program: Promise and Pitfalls.” Invited Lecture,  
Health Policy Seminar Series at the Division of Health Policy and Economics, Weill  
Cornell Medical College, New York City, New York

- 2021 “Cardiovascular Deaths During the COVID-19 Pandemic in the US.”  
Invited Speaker, American College of Sports Medicine Annual Meeting and World Congress 2021 (*virtual due to COVID-19*)
- 2022 “Advancing Cardiovascular Health in the ACA Era: Promise, Progress, and Pitfalls.”  
Heart and Vascular Center Grand Rounds  
Dartmouth-Hitchcock Health System, Hanover, New Hampshire
- 2022 Plenary Session: Health Equity in the United States, Invited Panelist and Discussant,  
American Heart Association Quality of Care and Outcomes Research Scientific Sessions 2022. Reston, VA.
- 2022 The Affordable Care Act and Cardiovascular Health Equity: Progress, Pitfalls, and the Path Forward. Invited speaker. American Heart Association Quality of Care and Outcomes Research Scientific Sessions 2022
- 2023 Social Determinants of Health and Health Promotion, Invited Panelist and Discussant.  
American College of Cardiology Scientific Sessions 2023. New Orleans, LA
- 2023 Cardiovascular Deaths during the COVID-19 Pandemic, Invited Speaker  
Division of Heart Disease and Stroke Prevention, Centers for Disease Control and Prevention
- 2023 Hospitals and Health Equity - Translating Measurement into Action, Invited Speaker  
Premier Health Equity Collaborative

### **International**

- 2009 The Relationship Between Occupational Social Class and Type 2 Diabetes,  
11th Symposium of the International Diabetes Epidemiology Group, Quebec City, Canada  
\*Selected oral abstract
- 2021 The Hospital Readmissions Reduction Program, Promise and Pitfalls  
Symposium on Indication Quality, University Hospital Zurich  
Zurich, Switzerland (*virtual due to COVID-19*)  
\*Plenary speaker

### **Report of Clinical Activities and Innovations**

#### **Current Licensure and Certification:**

- 2014 Massachusetts Medical License
- 2014 American Board of Internal Medicine, Internal Medicine
- 2018 American Board of Internal Medicine, Cardiovascular Disease

#### **Practice Activities:**

- |           |   |  |                    |
|-----------|---|--|--------------------|
| 2014-2015 | Hospitalist                               | Brigham and Women’s Hospital,<br>Boston MA         | 96 hours per month |
| 2019-     | Cardiology consult<br>attending           | Beth Israel Deaconess Medical<br>Center, Boston MA | 3 weeks per year   |
| 2019-     | Inpatient cardiology<br>service attending | Beth Israel Deaconess Medical<br>Center, Boston MA | 2 weeks per year   |

2019-	Electrocardiogram interpretation	Beth Israel Deaconess Medical Center, Boston MA	12 sessions per year
2019-	Cardiac direct access care unit attending	Beth Israel Deaconess Medical Center, Boston MA	3 days per month

### **Report of Teaching and Education Innovations**

Richard A. and Susan F. Smith Center Trainee Mentorship Program. Beth Israel Deaconess Medical Center, Boston, MA (2019-Present)

I have co-lead the development of a mentorship training program for medical students, residents, and cardiology fellows from across all 3 Harvard teaching hospitals (and beyond) whom spend 1-2 years of dedicated research training time at the Smith Center. Several key features of the program include 1 on 1 dedicated mentorship, formal trainee work-in-progress seminar talks, research grant “sprints” and workshops, and career development sessions, and many trainees in this program have published high-impact work and successfully secured career development awards. The structure of this training program has been shared with and partially adopted by other prominent health outcomes research centers (e.g., Penn). I am one of 2 program leaders for this mentorship program, which was awarded the Program Award for Culture of Excellence in Mentoring (PACEM) from Harvard Medical School in 2022.

Associate Program Director, Cardiology Fellowship. Beth Israel Deaconess Medical Center, Boston, MA. (2020-Present)

As Associate Program Director of the Cardiology Fellowship at BIDMC, I provide academic guidance and mentorship to fellows pursuing a career in clinical investigation. In this role, I have developed a structured curriculum and didactic series focused on preparing fellows for their post-doctoral research years during fellowship, which covers a range of topics including what to look for in a research mentor, how to excel as a mentee, how to approach and write a research grant or career development award application (e.g., American Heart Association and American College of Cardiology Career Development Awards, Harvard KL2 Award, NIH K08/K23 Award), as well as a grant review series to provide structured “one-on-one” feedback for fellows submitting applications for an award. This structured approach to the career development of aspiring clinician-investigators at the fellowship-stage has been shared with the BWH cardiology fellowship, as well as with several fellowship program leaders nationally (e.g. Stanford).

Joan and Marcel Zimetbaum Fellowship. Beth Israel Deaconess Medical Center, Boston, MA (2020-Present)

I helped develop and now co-lead the Zimetbaum Fellowship at BIDMC, a unique program that supports the research training (health services and outcomes, clinical epidemiology, public health, health equity, or health policy) of medical students from backgrounds traditionally underrepresented in medicine, as part of a programmatic effort to improve diversity in the field of cardiovascular medicine. As part of the Zimetbaum fellowship, medical students receive one-on-one dedicated research mentorship and training over the course of 1-year at the Smith Center, as well as a financial stipend to complete the clinical effectiveness at the Harvard School of Public Health and to support living expenses in Boston. I helped develop the Zimetbaum fellowship, lead the operations of the fellowship, assist with fundraising efforts, and have served as the primary mentor for the first 2 medical students selected for the program (from Meharry Medical College and Harvard Medical School).

## **Report of Education of Patients and Service to the Community**

*No presentations below were sponsored by 3<sup>rd</sup> parties/outside entities*

*Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.*

### **Material for Patients and the Lay Community:**

#### ***Books, articles, and presentations in other media***

2015	28 and Counting: Expanding Medicaid Makes Sense	Authored an opinion piece in the Huffington Post	
2018	Did This Health Care Policy Do Harm?	Authored an opinion piece in the New York Times	<a href="https://www.nytimes.com/2018/12/21/opinion/did-this-health-care-policy-do-harm.html?smid=url-share">https://www.nytimes.com/2018/12/21/opinion/did-this-health-care-policy-do-harm.html?smid=url-share</a>
2019	Hospitals Treat Patients Without Admitting Them, To Avoid Penalties	Contributed to article in Reuters by Will Boggs	<a href="https://www.reuters.com/article/us-health-hospital-readmissions-idUSKCN1VC29X">https://www.reuters.com/article/us-health-hospital-readmissions-idUSKCN1VC29X</a>
2019	The Deadly Consequences of Financial Incentives in Healthcare	Contributed to article in Forbes by Robert Pearl	<a href="https://www.forbes.com/sites/robertpearl/2019/01/28/financial-incentives/?sh=7ebc356b5eb9">https://www.forbes.com/sites/robertpearl/2019/01/28/financial-incentives/?sh=7ebc356b5eb9</a>
2021	How To Pay for Equitable Outcomes	Contributed to article in Modern Healthcare by Nona Tepper	<a href="https://www.modernhealthcare.com/politics-policy/how-pay-equitable-outcomes">https://www.modernhealthcare.com/politics-policy/how-pay-equitable-outcomes</a>
2021	Cardiovascular Deaths Increased Early on in Pandemic	Featured interview on NBC 10 news channel	<a href="https://www.nbcboston.com/on-air/as-seen-on/cardiovascular-deaths-increased-early-on-in-pandemic-study/2277952/">https://www.nbcboston.com/on-air/as-seen-on/cardiovascular-deaths-increased-early-on-in-pandemic-study/2277952/</a>
2021	Second Toll: Study Finds Heart Disease Deaths Shot Up in Early Pandemic, But Not In Mass.	Contributed to article in WBUR by Carey Goldberg	<a href="https://www.wbur.org/inside/staff/carey-goldberg">https://www.wbur.org/inside/staff/carey-goldberg</a>
2021	Fewer Diagnostics Tests, Higher CV Mortality During COVID-19 Pandemic	Contributed to article in TCTMD by Michael O’Riordan	<a href="https://www.tctmd.com/news/fewer-diagnostic-tests-higher-cv-mortality-during-covid-19-pandemic">https://www.tctmd.com/news/fewer-diagnostic-tests-higher-cv-mortality-during-covid-19-pandemic</a>
2022	Optimism, Heart Health, and Longevity: Unraveling the Link for Black Americans	Contributed to article in Harvard Heart Letter by Julie Corliss	<a href="https://www.health.harvard.edu/blog/optimism-heart-health-and-longevity-unraveling-the-link-for-black-americans-202202142689">https://www.health.harvard.edu/blog/optimism-heart-health-and-longevity-unraveling-the-link-for-black-americans-202202142689</a>
2022	Medicaid Expansion: Good First Step, but No Panacea for CV Care	Contributed to article in Medscape by Patrice Wendling	<a href="https://www.medpagetoday.com/publichealthpolicy/healthpolicy/99006">https://www.medpagetoday.com/publichealthpolicy/healthpolicy/99006</a>

2022	Chronic Conditions Require States Do More Than Expand Medicaid, Study Finds	Contributed to article in MedPage Today by Nicole Lou	<a href="https://www.medscape.com/viewarticle/977807">https://www.medscape.com/viewarticle/977807</a>
2022	Cardiovascular-Related Deaths in the U.S. Fall, but Disparities Remain	Contributed to article by National Institutes of Health	<a href="https://www.medscape.com/viewarticle/977807">https://www.medscape.com/viewarticle/977807</a>
2022	Stunning Variation in CV Test, Procedure Costs Revealed at Top US Hospitals	Contributed to article in Medscape by Marilyn Larkin	<a href="https://www.medscape.com/viewarticle/977807">https://www.medscape.com/viewarticle/977807</a>
2022	How one healthcare startup is betting on telemedicine and mobile clinics to remodel patient care in rural America	Contributed to article in Business Insider by Chris Daniels	<a href="https://www.businessinsider.com/health-care-startup-is-remodeling-patient-care-in-rural-america-2022-7">https://www.businessinsider.com/health-care-startup-is-remodeling-patient-care-in-rural-america-2022-7</a>
2023	Diabetes and Obesity Rising in Young Americans, Study Finds	Contributed to article in the Washington Post by Fenit Nirappil	<a href="https://www.washingtonpost.com/health/2023/03/05/diabetes-obesity-young-americans/">https://www.washingtonpost.com/health/2023/03/05/diabetes-obesity-young-americans/</a>
2023	Diabetes and Obesity are on the Rise in Young Adults	Contributed to article in NPR by Emma Bowman	<a href="https://www.npr.org/2023/03/06/1161225855/diabetes-obesity-rising-study-young-adults">https://www.npr.org/2023/03/06/1161225855/diabetes-obesity-rising-study-young-adults</a>
2023	Hospitals with high proportions of Black Patients provide similar HF care vs. other centers	Contributed to article in Healio by Scott Buzby	<a href="https://www.healio.com/news/cardiology/20230419/hospitals-with-high-proportions-of-black-patients-provide-similar-hf-care-vs-other-centers">https://www.healio.com/news/cardiology/20230419/hospitals-with-high-proportions-of-black-patients-provide-similar-hf-care-vs-other-centers</a>
2023	Report on medical access finds one-third of Black Americans live in ‘cardiology deserts’	Contributed to article in STAT by Elaine Chen	<a href="https://www.statnews.com/2023/05/02/black-americans-cardiology-deserts-heart-disease/">https://www.statnews.com/2023/05/02/black-americans-cardiology-deserts-heart-disease/</a>
2023	‘Smoldering Epidemic’ of CVD Risk Factors in Middle-Aged Adults	Contributed to article in tctMD by Michael O’Riordan	<a href="https://www.tctmd.com/news/smoldering-epidemic-cvd-risk-factors-middle-aged-adults">https://www.tctmd.com/news/smoldering-epidemic-cvd-risk-factors-middle-aged-adults</a>
2023	How income disparities drive heart risks for middle-aged adults	Contributed to article in Axios	<a href="https://www.axios.com/2023/11/21/heart-death-stroke-middle-age-income">https://www.axios.com/2023/11/21/heart-death-stroke-middle-age-income</a>
2024	New evidence shows COVID-19 isn’t done with us yet	Contributed to article in the Harvard Gazette	<a href="https://news.harvard.edu/gazette/story/2024/02/new-evidence-shows-covid-19-isnt-done-with-us-yet/">https://news.harvard.edu/gazette/story/2024/02/new-evidence-shows-covid-19-isnt-done-with-us-yet/</a>

## Recognition:

2019	Podcast interview: “Cardiology Health Policy: The Clinicians Strike Back.”	The Accad & Koka Report
2019	NEJM Journal Watch podcast interview: “Hospital readmissions gaming?”	NEJM Journal Watch Clinical Conversations
2021	ACCEL podcast interview: “Cardiovascular Deaths During the COVID-19 Pandemic”	ACCEL Podcast, American College of Cardiology
2021	Podcast interview: “The Unfortunate News about HRRP: With Insights on How to Fix It”	Relentless Health Value
2022	JAMA Health Forum Author Interview: “Association of the Value-Based Purchasing Program with Patient Care Experience at Safety-Net and Non-Safety-Net Hospitals.”	JAMA Network
2022	NEJM Author Interview Podcast: “REACHing for Equity: From Regressive Towards Progressive Payment Models”	New England Journal of Medicine
2022	JAMA Cardiology Audio Interview: “Alerting Clinicians to 1-Year Mortality Risk in Patients Hospitalized with Heart Failure”	JAMA Network
2022	Circulation On The Run Podcast Author Interview: “Disparities in Cardiovascular Mortality Between Black and White Adults in the US”	Circulation Journal
2023	Circulation On The Run Podcast Editor Interview: “Advancing Health Equity in the United States”	Circulation Journal
2024	JAMA Health Forum Author Interview: “Changes in Healthcare Access and Preventive Health Screenings by Race and Ethnicity”	JAMA Network

## **Report of Scholarship**

### **Peer-Reviewed Scholarship in print or other media:**

\* designates formally supervised mentee

### **Research Investigations**

1. Ingham SC, **Wadhwa RK**, Fanslau MA, Buege DR. Growth of Salmonella serovars, Escherichia coli O157:H7, and Staphylococcus aureus during thawing of whole chicken and retail ground beef portions at 22 and 30 degrees C. J Food Prot. 2005;68:1457-1461.
2. Ingham SC, DeVita MD, **Wadhwa RK**, Fanslau MA, Buege DR. Evaluation of small-scale hot-water postpackaging pasteurization treatments for destruction of Listeria monocytogenes on ready-to-eat beef snack sticks and natural-casing wieners. J Food Prot. 2005;68:2059-2067.
3. Ingham SC, **Wadhwa RK**, Chu CH, DeVita MD. Survival of Streptococcus pyogenes on foods and food contact surfaces. J Food Prot. 2006;69:1159-1163.
4. DeVita MD, **Wadhwa RK** (*co-first authors*), Theis ML, Ingham SC, Fanslau MA, Buege DR. Assessing the potential of Streptococcus pyogenes and Staph. aureus transfer to foods and customers via a survey of hands, hand-contact surfaces and food-contact surfaces at foodservice facilities. Journal of Foodservice. 2007;18:76-79.
5. ElBardissi AW, Wiegmann DA, Henrickson S, **Wadhwa RK**, Sundt TM, 3rd. Identifying methods to improve heart surgery: an operative approach and strategy for implementation on an organizational level. Eur J Cardiothorac Surg. 2008;34:1027-1033.
6. Henrickson SE, **Wadhwa RK**, Elbardissi AW, Wiegmann DA, Sundt TM, 3rd. Development and pilot evaluation of a preoperative briefing for cardiovascular surgery. J Am Coll Surg. 2009;208:1115-1123.
7. Parker SH, Laviana AA, **Wadhwa RK**, Wiegmann DA, Sundt TM, 3rd. Development and evaluation of an observational tool for assessing surgical flow disruptions and their impact on surgical performance. World J Surg. 2009;34:353-361.
8. **Wadhwa RK**, Parker SH, Burkhart HM, Greason K, Neal J, Levenick K, Sundt TM, 3rd. Is the "sterile cockpit" concept applicable to cardiovascular surgery critical intervals or events? The impact of protocol-driven communication during cardiopulmonary bypass. J Thorac Cardiovasc Surg. 2010;139:312-319.
9. **Wadhwa RK**, Kyle RA, Larson DR, Dispenzieri A, Kumar S, Lazarus HM, Rajkumar SV. Incidence, clinical course, and prognosis of secondary monoclonal gammopathy of undetermined significance in patients with multiple myeloma. Blood. 2011. Sep 15; 118(11): 2985-7.
10. Bhatia RS, Ivers NM, Yin XC, Myers D, Nesbitt GC, Edwards J, Yared K, **Wadhwa RK**, Wu JC, Kithcart AP, Wong BM, Hansen MS, Weinerman AS, Shadowitz S, Elman D, Farkouh ME, Thavendiranathan P, Udell JA, Johri AM, Chow CM, Hall J, Bouck Z, Cohen A, Thorpe KE, Rakowski H, Picard MH, Weiner RB. Improving the Appropriate Use of Transthoracic Echocardiography: The Echo WISELY Trial. J Am Coll Cardiol. 2017 Aug 29; 70(9):1135-1144. PMID: 28838362.
11. **Wadhwa RK**, Joynt Maddox KE, Wang Y, Shen C, Bhatt DL, Yeh RW. Association Between 30-Day Episode Payments and Acute Myocardial Infarction Outcomes Among Medicare Beneficiaries. Circ Cardiovasc Qual Outcomes. 2018;11(3):e004397.
12. **Wadhwa RK**, Joynt Maddox KE, Wang Y, Shen C, Yeh RW. 30-Day Episode Payments and Heart Failure Outcomes Among Medicare Beneficiaries. JACC Heart Fail. 2018 May; 6(5):379-



387. PMID: 29655827.

13. Eisman AS, Weiner RB, Chen ES, Stey PC, **Wadhwa RK**, Kithcart AP, Sarkar IN. An Automated System for Categorizing Transthoracic Echocardiography Indications According to the Echocardiography Appropriate Use Criteria. *AMIA Annu Symp Proc.* 2017; 2017:670-678. PMID: 29854132.
14. **Wadhwa RK**, Shen C, Secemsky EA, Strom JB, Yeh RW. State Variation in the Use of Non-Acute Coronary Angiograms and Coronary Revascularization Procedures. *JACC Cardiovasc Interv.* 2018;11(9):912-913.
15. **Wadhwa RK**, Joynt Maddox KE, Fonarow GC, Zhao X, Heidenreich PA, DeVore AD, Matsouaka RA, Hernandez AF, Yancy CW, Bhatt DL. Association of the Affordable Care Act's Medicaid Expansion With Care Quality and Outcomes for Low-Income Patients Hospitalized With Heart Failure. *Circ Cardiovasc Qual Outcomes.* 2018 Jul; 11(7):e004729. PMID: 29946015.
  - Presented at the American Heart Association QCOR National Meeting as a Young Investigator Award finalist
16. Wang Y, Li J, Zheng X, Jiang Z, Hu S, **Wadhwa RK**, Bai X, Lu J, Wang Q, Li Y, Wu C, Xing C, Normand SL, Krumholz HM, Jiang L. Risk Factors Associated With Major Cardiovascular Events 1 Year After Acute Myocardial Infarction. *JAMA Network Open.* 2018; 4(1):e181079.
17. Wang DE, **Wadhwa RK**, Bhatt DL. Association of Rankings With Cardiovascular Outcomes at Top-Ranked Hospitals vs Nonranked Hospitals in the United States. *JAMA Cardiol.* 2018 Nov 28. PMID: 30484836.
18. **Wadhwa RK**, Choi E, Shen C, Yeh RW, Joynt Maddox KE. Trends, Causes, and Outcomes of Hospitalizations for Homeless Individuals: A Retrospective Cohort Study. *Med Care.* 2019 Jan; 57(1):21-27. PMID: 30461584.
19. **Wadhwa RK**, Sukul D, Secemsky EA, Shen C, Gurm HS, Boden WE, Yeh RW. Temporal Trends in Unstable Angina Diagnosis Codes for Outpatient Percutaneous Coronary Interventions. *JAMA Intern Med.* 2018 Dec 17. PMID: 30556822.
  - Published in *JAMA Internal Medicine* with an accompanying editorial: McNeely CA, Brown DL. Gaming, Upcoding, Fraud, and the Stubborn Persistence of Unstable Angina. *JAMA Intern Med.* 2019;179(2):261–263.
20. **Wadhwa RK**, Joynt Maddox KE, Wasfy JH, Haneuse S, Shen C, Yeh RW. Association of the Hospital Readmissions Reduction Program With Mortality Among Medicare Beneficiaries Hospitalized for Heart Failure, Acute Myocardial Infarction, and Pneumonia. *JAMA.* 2018 12 25; 320(24):2542-2552. PMID: 30575880.
  - Published in *JAMA* with accompanying editorial: Fonarow GC. Unintended Harm Associated with the Hospital Readmissions Reduction Program. *JAMA.* 2018;320(24):2539–2541.
  - This study was featured in two separate articles in the *New York Times*: “Hospitals Stopped Readmitting So Many Medicare Patients. Did That Cost Lives?” *New York Times.* Jan 18, 2019; “Did This Health Care Policy Do Harm?” *New York Times.* Dec 21, 2018.

- This research study led to the Centers of Medicare and Medicaid Services assembling a working group to re-evaluate this national policy
21. **Wadhwa RK**, Bhatt DL, Wang TY, Lu D, Lucas J, Figueroa JF, Garratt KN, Yeh RW, Joynt Maddox KE. Association of State Medicaid Expansion With Quality of Care and Outcomes for Low-Income Patients Hospitalized With Acute Myocardial Infarction. *JAMA Cardiol.* 2019. doi: 10.1001/jamacardio.2018.4577. PubMed PMID: 30649146.
  22. Ferro EG, Secemsky EA, **Wadhwa RK**, Choi E, Strom JB, Wasfy JH, Wang Y, Shen C, Yeh RW. Patient Readmission Rates For All Insurance Types After Implementation Of The Hospital Readmissions Reduction Program. *Health Aff (Millwood).* 2019;38(4):585-593.
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### **Professional educational materials or reports, in print or other media:**

Co-author of article for ACC.org with Dr. Gregory Piazza on the Cost-Effectiveness of LMWH vs. UFH for VTE Prophylaxis in Critically Ill Patients. December 2014.

### **Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings:**

1. **Wadhwa RK**, Joynt Maddox KE, Fonarow GC, X Zhao, Heidenreich PA, DeVore AD, Matsouka RA, Hernandez AF, Yancy CW, Bhatt DL. Association of the Affordable Care Act's Medicaid Expansion with Care Quality and Outcomes for Low-Income Patients Hospitalized with Heart Failure. American Heart Association Quality of Care and Outcomes Scientific Sessions Meeting, April 2018. Arlington VA. (*AHA QCOR Young Investigator Finalist*)
2. **Wadhwa RK**, Bhatt DL, Kind AJH, Song Y, Williams KA, Maddox TM, Yeh RW, Dong L, Doros G, Turchin A, Joynt Maddox KE. Association of Practice-Level Socioeconomic Disadvantage with Quality of Care and Clinical Outcomes for Patients with Coronary Artery Disease. American College of Cardiology Scientific Sessions, March 2019. New Orleans, LA. (*ACC Young Investigator Finalist*)
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### **Narrative Report**

I am the Section Head of Health Policy and Equity at the Richard A. and Susan F. Smith Center for Outcomes Research, a cardiologist at Beth Israel Deaconess Medical Center (BIDMC), and the Associate Program Director of the Cardiovascular Medicine Fellowship at BIDMC. My investigational work has been devoted to understanding how health care policies can be used to improve quality, outcomes, and equity. This body of work has led to significant changes in research and care, including how health policies are developed, implemented, and evaluated, how federal programs assess and incentivize improvements in quality, and how both can be effectively used to advance cardiovascular health. I currently spend 70% of my time conducting clinical research and 30% of my time dedicated to clinical service and educational activities.

### **Area of Excellence – Investigation**

My investigational activities focus on four inter-related domains as they pertain to cardiovascular care:

- 1) Health care policy evaluation, with a focus on the Affordable Care Act and value-based payment reform,
- 2) health insurance design and expansions,
- 3) quality assessment and improvement, and
- 4) cardiovascular disease epidemiology and inequities.



Health Policy Evaluation: My research has led to seminal contributions at the intersection of cardiology and health policy. In a series of studies published in JAMA, BMJ, and Annals of Internal Medicine, I showed that the Hospital Readmissions Reduction Program (HRRP) - a federal program implemented under the Affordable Care Act (ACA) – was associated with a concerning increase in heart failure deaths (JAMA 2018), and paradoxically, a nationwide increase in total 30-day hospital revisits among adults hospitalized for heart failure or myocardial infarction (BMJ 2019). This work attracted national attention, including two articles in the *New York Times*. In a piece published in New England Journal of Medicine (2019), I proposed ways to improve the HRRP, and more broadly, the Centers for Medicare and Medicaid Services (CMS) approach to value-based reform. These studies ultimately led CMS to assemble a group of experts to re-evaluate this national policy. My work has also examined the impact of other national programs, including the Value-Based Purchasing Program, Hospital Acquired Condition Reduction Program, and Merit Incentive-Based Payment System, on patient care experience, outcomes, and disparities (JAMA 2021, JAMA Health Forum 2022). In addition, I was the senior author on a series of research studies (working with mentees Rahul Aggarwal, Nicholas Chiu, and Zach Hermes) demonstrating that these federal programs are often regressive, and disproportionately penalize hospitals that tend to care for low-income and Black adults (JAMA 2021, JAMA Health Forum 2022), due in part to inadequate risk adjustment for social risk factors (JGIM 2022). More broadly, I have advocated for randomized evaluations of federal health policies that aim to improve quality prior to widespread implementation (NEJM 2017) and described ways that value-based policies can be designed to promote health equity (NEJM 2022), recommendations that CMS has increasingly adopted. Given my expertise in health policy and cardiology, I have served as an expert writing group member of two American Heart Association Policy Statements on value in health care and payment reform, been asked to present my work directly to senior officials at CMS, and have also served as an advisor to the US Department of Health and Human Services.

Health Insurance Design and Expansion: Through the application of quasi-experimental methods for causal inference to national datasets, I have shown that the expansion of Medicaid coverage under the ACA led to significant reduction in uninsured cardiovascular hospitalizations, associated financial strain, and increased use of cardiovascular medications, providing key data that informed the national policy debate about Medicaid expansion shortly after the ACA was passed (JAMA Cardiology 2019, Circulation: CQO 2018). My recent work has shown that large gaps in health care access, as well as in the screening, monitoring, and treatment of cardiovascular risk factors remain for working-age adults (JAMA Cardiology 2022). Because policymakers are debating whether to lower the age eligibility for Medicare (from 65 to 60 years), I have performed studies that have shown that the expansion of Medicare could markedly improve health care access, affordability, and reduce financial strain for both low- and higher-income adults in the US, and also lead to reductions in the burden cardiovascular risk factors (PLOS Medicine 2022). I have also been the senior of a series of studies (working with mentees Rahul Aggarwal, Suhas Gondi, and Andrew Oseran) that have highlighted how the rapid growth of Medicare Advantage plans have influenced on out-of-pocket costs and financial strain for low-income patients (JAMA Network 2022), as well as those with cardiovascular disease (Circulation CQO, in press).

Quality Assessment and Improvement: I have evaluated state and federal initiatives (e.g., public reporting, national quality programs) that aim to assess quality of cardiovascular care (JAMA 2018, JAMA Cardiology 2018). My research has highlighted the large and growing number of quality measures and programs that clinicians and health systems have to deal with across payors in the value-based era (JAMA 2020), which can impose significant administrative and financial burden (JACC 2019). My work has also highlighted that federal quality programs, which rely on claims data, identify high quality cardiovascular care less reliably than more granular registry data from the ACC and AHA (JAMA Cardiology 2020). In part due to this body of work, CMS recently implemented the Meaning Measures 2.0 initiative, which aims to reduce the burden of quality measures, enhance alignment across payors, and promote the use of more granular measures.

Cardiovascular Disease Epidemiology and Disparities: Another area of significant research has focused on the cardiovascular health of socioeconomically disadvantaged, rural, and racial & ethnic minority communities. In a study of more than 71 million Medicare patients, I showed that the gaps in hospitalizations and mortality between low- and higher-income older adults did not narrow in the ACA-era (JAMA 2020). I have been the senior author of several studies (with mentees Ashley Kyalwazi, Rahul Aggarwal, Eméfah Loccoh) showing a reduction in the gap in cardiovascular deaths between Black and White adults over 2 decades in the US (Circulation 2022), persistent racial/ethnic disparities in the prevalence of key cardiovascular risk factors (JAMA 2022), and widening disparities in diabetes and hypertension-related deaths between rural and urban parts of the country (JACC 2021). During the COVID-19 pandemic, I published one of the first studies showing that low-income and minority communities were disproportionately bearing the burden of the pandemic (JAMA 2020, >500 citations), and later showed that the pandemic's collateral effects led to a marked increase in heart disease and stroke deaths (JACC 2021), particularly for minority populations (Circulation 2021).

Overall, I have authored more than 150 peer-reviewed manuscripts, >90 as either first-author or senior corresponding author working with trainees. I am currently the PI of an R01 from the National Heart, Lung and Blood Institute (NHLBI) at the NIH, a K23 award from the NHLBI/NIH, a R01 from the National Institute of Nursing Research (NINR) at the NIH, and am a co-investigator on a U01 (NINR/NIH) and another R01 (NHLBI/NIH), while also receiving research support from other extramural sources. I have been invited to be a Grand Rounds Speaker at institutions across the US and deliver plenary talks internationally, to moderate or speak at sessions during national cardiology and health policy conferences, and have presented my research directly to policymakers while also advising the US Department of Health and Human Services. I have been an expert writing member of American Heart Association (AHA) Policy Statements focused on value-based models in cardiology, helped develop national guidelines for disparities research now used across all AHA journals, and have also served on Technical Expert Panels that assess and improve quality measures used by CMS in federal programs. I am also a Senior Associate Editor at Health Services Research Journal and am on the Editorial Board of Circulation: Cardiovascular Quality & Outcomes.

### **Teaching and Mentorship**

As the Associate Program Director of the Cardiovascular Medicine Fellowship at BIDMC and as an attending on the inpatient and outpatient cardiology services, I work directly with and teach medical students, internal medicine residents, and cardiology fellows, and am a frequent faculty discussant for clinical case conferences and journal clubs. In my role as Associate Program Director, I have implemented a structured curriculum and formal didactic series that prepares cardiology fellows for their post-doctoral research years, grant applications (e.g., KL2, LaDue, K08/K23), and a career as a clinician-researcher.

As the Section Head of Health Policy and Equity at the Smith Center, I lead an independent research program and have served as the primary mentor for more than 30 medical students, residents, and fellows from all three Harvard teaching hospitals institutions across the US, including 3 recipients of the prestigious Sarnoff Cardiovascular Research Fellowship. My mentees have presented their work at national meetings, been selected for Young Investigator Finalist Awards at national meetings, received post-doctoral research grants, and published first-author work with my supervision in high-impact journals (JAMA, NEJM, Circulation, JAMA Internal Medicine). In addition, I helped develop and now served as Director of a fellowship program that recruits medical students from backgrounds underrepresented in medicine and provides financial support to pursue 1-year of dedicated research training at the Smith Center (Ashley Kyalwazi, HMS [2021-2022]; Chantal Henry, Meharry Medical College [2022-2023]; Azariah Boyd [2024-2025]). I developed and serve as co-director of a structured mentorship program within the Smith Center that was recently recognized with a Harvard Medical School Program Award for Culture of Excellence in Mentoring (PACEM). I also teach the Healthcare Quality and Equity course for Masters in Public Health students at the Harvard School of Public Health. In addition, I am a small group instructor for the Essentials of the Profession Health Policy course for first year medical students at Harvard.

**Clinical Expertise**

Clinically, I manage and treat patients with a broad range of cardiovascular conditions as non-invasive cardiologist at Beth Israel Deaconess Medical Center. I currently care for patients as an attending on the inpatient cardiology consult service, the inpatient general cardiology (Zoll) service, and the Cardiac direct access care unit.