

Curriculum Vitae

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Amol S. Navathe, MD, PhD

Office Address: Department of Medical Ethics and Health Policy
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Philadelphia, PA 19104

Education:

2001 B.S. Stanford University, Magna Cum Laude (Electrical Engineering & Economic Systems)
2008 Ph.D. The Wharton School, University of Pennsylvania (Health Care Management and Economics)
2010 M.D. University of Pennsylvania Perelman School of Medicine

Postgraduate Training and Fellowship Appointments:

2003-2010 Medical Scientist Training Program (MSTP) Fellow, National Institutes of Health (NIH)
2005 National Research Service Award (NRSA) Fellow, Agency for Healthcare Research and Quality (AHRQ)
2007 Public Health Systems Scholar, AcademyHealth
2010-2013 Adjunct Senior Fellow, Leonard Davis Institute of Health Economics (LDI), The Wharton School at The University of Pennsylvania
2011-2012 Intern, Internal Medicine, Brigham and Women's Hospital (BWH) and Harvard Vanguard Medical Associates (HVMA)
2011-2014 Clinical Fellow, Department of Population Medicine, Harvard Medical School
2012-2014 Resident Physician, Brigham & Women's Hospital (BWH) and Harvard Vanguard Medical Associates (HVMA)

Faculty Appointments:

2014-2015 Adjunct Assistant Professor of Medical Ethics and Health Policy, University of Pennsylvania School of Medicine
2015-present Assistant Professor and Core Investigator, Center for Health Equity Research and Promotion (CHERP), Michael J. Cresenz Philadelphia VA Medical Center
2015-present Assistant Professor of Medical Ethics and Health Policy, University of Pennsylvania School of Medicine
2015-present Assistant Professor of Medicine, University of Pennsylvania School of Medicine (Secondary)

Hospital and Administrative Appointments:

- 2014-present Staff Physician, Michael J. Cresencz Philadelphia VA Medical Center
- 2017-present Associate Director, Center for Health Incentives and Behavioral Economics (CHIBE), University of Pennsylvania School of Medicine
- 2018-present Co-Director, Healthcare Transformation Institute, University of Pennsylvania School of Medicine

Other Appointments:

- 2002-2003 Consultant, McKinsey and Company, Palo Alto, CA
- 2008 Regional Dissemination Team Coordinator, The Obama Campaign, Health Policy Advisory Committee
- 2008 Fellow, The White House, council of Economic Advisors (CEA), Washington, DC
- 2009-2011 Medical Officer and Senior Program Manager, Comparative Effectiveness Portfolio, Office of the Secretary, Department of Health and Human Services (DHHS), Washington, DC
- 2012-2013 Project Director and Co-PI, High-Risk Patient Management, BWH and Partners Healthcare, Inc., Boston, MA
- 2012-present Founding Director, Foundation for Healthcare Innovation, Washington, DC
- 2013-2017 Moderator, Global Health Delivery Online (GHDOonline) Innovating Health Delivery Community, Brigham and Women's Hospital, Boston, MA
- 2013-2015 Managing Director, Healthcare Value Transformation, Navigant
- 2015-present Senior Fellow, Leonard Davis Institute of Health Economics
- 2019-present Commissioner, Medicare Payment Advisory Commission (MedPAC), non-partisan federal agency advising US Congress, Washington, DC

Specialty Certification:

- 2014 American Board of Internal Medicine

Licensure:

- 2014-present Pennsylvania State Medical Board

Awards, Honors and Membership in Honorary Societies:

- 1996 Research Science Institute at the Massachusetts Institute of Technology
- 1997 Letters of Recognition from Governor Zell Miller and Senator Paul Coverdell for academic achievement
- 2000 Omicron Delta Epsilon, Economics Honor Society
- 2001 Tau Beta Pi, Engineering Honor Society
- 2001 Mayfield Fellow, Stanford University
- 2007 Mack Lipkin Award finalist, SGIM Annual Meeting, Toronto, Canada
- 2007 Outstanding Student Abstract Panel (one of four students), AcademyHealth Annual Research Meeting (ARM)

2007	Most Outstanding Abstract in Health Care Systems theme, AcademyHealth Annual Research Meeting, Orlando, FL
2007	Holmes Award in Evaluative Research (best resident/student paper), University of Pennsylvania Health System Division of General Internal Medicine Research Day
2009	University of Pennsylvania School of Medicine Research Paper Prize, Philadelphia, PA
2010	Leonard Davis Institute of Health Economics Prize, Philadelphia, PA
2012	The Daniel Ford Award for Achievement in Health Services and Outcomes Research, Johns Hopkins University, Baltimore, MD
2016	Milton W. Hamolsky Junior Faculty Scientific Abstract Award Panel, SGIM Annual Meeting, Hollywood, FL
2016	Best of ARM Research Abstract in Social Determinants of Health theme, AcademyHealth Annual Research Meeting, Boston, MA
2017	Milton W. Hamolsky Junior Faculty Scientific Abstract Award Panel, SGIM Annual Meeting, Washington, DC
2018	Milton W. Hamolsky Junior Faculty Scientific Abstract Award Panel, SGIM Annual Meeting, Denver, CO
2018	Best Abstract Award in Healthcare Delivery Innovation theme, AcademyHealth Annual Research Meeting. Cited for First Study to Apply Behavioral Economics to Physician P4P Programs, Seattle, WA
2020	NIHCM Foundation 26 th Annual Health Care Research Award Finalist

Memberships in Professional & Scientific Societies and Other Professional Activities:

International

2006-present	Member, International Health Economics Association (iHEA)
2018-present	Senior Fellow and Expert Advisor, Singapore Ministry of Health. In 2018, member of 5 person team advising Minister of Health Transformation Dr. Chorh Chuan Tan on the National Polychronic Capitation Model. In 2019, asked to lead and coordinate 3 person team to advise Minister Gan Kim Yong and Director of Finance Dao Song Cham on health care financing. Quarterly teleconferences and one annual trip to Singapore.
2019-present	Expert Advisor on Bundled Payments, Health Financing, and Behavioral Economics, Province of Ontario, Canada. Advise Imtiaz Daniel, Ontario Hospital Association (OHA), and Ontario Ministry of Health on a semi-annual basis. Preparatory work since summer 2019.
2019-present	External Advisor, National Bundled Payments Program, Social Security Program, France. Preparatory work since summer 2019.

National

2005-present	Member, AcademyHealth
	- Student member 2006-2011
	- Graduate Medical Education Trainee member 2011-2015
	- Faculty member 2015-present
	- Reviewer of research abstracts for the Annual Meetings 2016-present

- 2006-present Member, American College of Physicians (ACP)
- 2006-2010 Member, American Medical Students Association (AMSA)
- 2006-present Member, American Society of Health Economists (ASHEcon)
- 2006-present Member, Society of General Internal Medicine (SGIM)
- 2011-2013 Board Member, Multi-Player Claims Database, collaborative between the Department of Health and Human Services and OptumInsight, Washington, DC
- 2013-2016 Advisory Board Member, CareMessage.com, San Francisco, CA
- 2018-present Board Member (uncompensated), Integrated Services Inc., Honolulu, HI
- 2020-present Editorial Board Member, Health Services Research Journal

Local

- 2006-present Member, William Pepper Medical Society (Internal Medicine)

Editorial Positions:

- 2012-present Founding Co-Editor-in-Chief, Health Care: The Journal of Delivery Science and Innovation
- 2015-present Reviewer, Journal of General Internal Medicine, NEJM, Health Services Research, JAMA Internal Medicine, JAMA, Annals of Internal Medicine, Health Affairs
- 2019 Outstanding Reviewer for Health Services Research

Academic and Institutional Committees:

- 2003-2010 Member, University of Pennsylvania School of Medicine Curriculum Committee
- 2003-2015 Founder, Healthcare Policy and Systems Group at University of Pennsylvania School of Medicine
- 2015-present Member, Division of Health Policy Faculty Recruiting Committee
- 2016-present Member, Veterans Affairs High-Risk Patient Aligned Care Teams National Workgroup
- 2017-present Member, Primary Care Service Line Research Committee, University of Pennsylvania Health System

Major Academic and Clinical Teaching Responsibilities:

- 2014-2017 Section leader for University of Pennsylvania Medical Health Care Systems MOD 320
- 2015-present Attending Physician, Teaching Service, Medicine, Philadelphia VAMC
- 2015-present Course Director, "Evaluating Health Policies and Programs," Core course, University of Pennsylvania Master's in Healthcare Innovation
- 2018-present Teaching Faculty, Health Care Reform and the Future of the American Health Care System, University of Pennsylvania

Other Teaching Responsibilities

- 2015-present Research mentor and PhD Committee for Amelia Bond (PhD '18), currently Assistant Professor at Weill College of Medicine, Cornell

- University. She is a co-author of publications in the Bibliography section of this CV
- 2015-present Research mentor for Joshua Liao, MD, MHP, University of Pennsylvania DGIM Fellow, currently Assistant Professor of Medicine at University of Washington. He is a co-author of publications in the Bibliography section of this CV
- 2015-present Research mentor for Alex Bain, MD, currently a Resident at Weill College of Medicine, Cornell University. He is a co-author of publications in the Bibliography section of this CV
- Oct 2015 "Behavioral Economics and Provider Incentives," Center for Health Incentives and Behavioral Economics (CHIBE) Retreat, Cape May, NJ
- Dec 2015 "Behavioral Economics and Provider Incentives," Robert Wood Johnson/CHIBE Symposium, Philadelphia, PA
- 2016-present Research mentor and PhD Committee member for Joseph Martinez, MD, PhD candidate. He is a co-author of publications in the Bibliography section of this CV
- May 2016 "Shifting Physician Behavior Toward Better Care Using Behavioral Economics," Department of Medical Ethics and Health Policy External Advisory Board Meeting, Philadelphia, PA
- Jul 2016 "Financing of Healthcare Delivery," National Clinical Scholars Program, Philadelphia, PA
- Dec 2016 "Shifting Physician Behavior Toward Better Care Using Behavioral Economics," UPHS Center for Innovation, Philadelphia, PA
- Oct 2016 "Big Data and Health Informatics," Wharton e-Health MBA Course
- Oct 2016 "Updates in Health Policy," University of Pennsylvania School of Medicine medX Group Lecture Series, Philadelphia, PA
- Nov 2016 "Overview of US Healthcare Delivery," Janssen Pharmaceuticals Wharton Visit, Philadelphia, PA
- Nov 2016 "Physician Payments," Lecture in Dr. Daniel Polsky's Wharton Health Economics undergraduate course, Philadelphia, PA
- Nov 2016 "Natural Language Process Applied to Health Services Research," Wharton Health Economics PhD course, Philadelphia, PA
- Apr 2017 "ACOs, Bundled Payments and Post-Acute Care," Leonard Davis Institute External Advisory Board Meeting, Philadelphia, PA
- 2017-present Research mentor and PhD committee member for Sarah Dykstra, PhD Candidate. She is a co-author of publications in the Bibliography section of this CV
- 2017-present Research mentor for Robin Wang, 2017 Summer Undergraduate Minority Research scholar (SUMR), currently a medical student at the University of Pennsylvania Perelman School of Medicine. She is a co-author of a publication in the Bibliography section of this CV
- 2017-present Research mentor for Ulysses (Ace) Isidro, 2017 Summer Scholars Program for Students Underrepresented in Medicine, currently University of Pennsylvania Perelman School of Medicine Student. Ace has discussed our research during poster presentations at meetings for Society of General

- Internal Medicine, National Student Research Forum (2nd place Poster Presentation – Public Health Category, AcademyHealth, and American College of Physicians PA Chapter SE Region (1st place Poster Competition in Research Category); and as an abstract and oral presentation at New England Science Symposium. He is a co-author of a publication in the Bibliography section of this CV
- 2017-present Primary research mentor for Yash Shah, University of Pennsylvania undergraduate student, currently a medical student at New Jersey Medical School. He is a co-author of research publications in the Bibliography section of this CV
- 2017-2019 Research mentor for Koushal Rao, University of Pennsylvania undergraduate student
- 2017-2019 Research mentor for Shivani Prakash, University of Pennsylvania undergraduate student
- 2017-present Research mentor for Claire Dinh, Harvard Medical Student. She is a co-author of publications in the Bibliography section of this CV
- 2017-2019 Research mentor for Jessica Dong, graduate student in the Health Care Management Department of The Wharton School
- 2017-present Research mentor for Michael Harhay, MPH, PhD, Fellow in the Center for Health Incentives and Behavioral Economics Research, and Assistant Professor in the Department of Epidemiology and Biostatistics
- 2017-present Research mentor for Josh Rolnick, MD, JD, National Clinical Scholar, currently a Medical Director for Veterans Affairs. He is a co-author of a publication in the Bibliography section of this CV
- 2017-present Research mentor for Rebecca Anastos-Wallen, MD, former medical student, currently a resident physician at University of Pennsylvania Health System
- 2017-2019 Research mentor for Amrita Sehgal, former MBA candidate, currently a Business Development Manager at Clarify, Inc.
- 2017-present Research mentor for Ravi Parikh, MD, Instructor in Health Policy and Hematology/Oncology. Mentored from resident to fellow to faculty status. He is a co-author of publications in the Bibliography section of this CV
- 2017-present Research mentor for Ashwin Nathan, Cardiology Fellow
- Jul 2017 "Financing of Healthcare Delivery," National Clinical Scholars Program, Philadelphia, PA
- Sep 2017 "Physician Payment Models," HCMG 213: Health Care Management and Strategy. Guest lecturer in Drs. Ashley Swanson's and John Kimberly's Wharton class, Philadelphia, PA
- Oct 2017 "Predicting the Future: Transforming Big Data into Smarter Care," Leonard Davis Institute 50th Anniversary Symposium panel, Philadelphia, PA
- Oct. 2017 "Applications of Behavioral Economics to Physicians," CHIBE Roybal Retreat, Skytop, PA

- 2018-present Research mentor for Eric Shan, 2018 Summer Undergraduate Minority Research Scholar (SUMR). He is a co-author of publications in the Bibliography section of this CV
- 2018-present Research mentor for Jack Huang, MD student. He is a co-author of publications in the Bibliography section of this CV
- 2018-present Research mentor for Daniel Herman, MD, PhD, Assistant Professor of Pathology and Laboratory Medicine and Director, Endocrine Laboratory, at the University of Pennsylvania Perelman School of Medicine, including formal mentor for Dr. Herman's recently awarded Doris Duke Career Development Award.
- May 2018 "The Impact of Bundled Payments on the Cost and Quality of Care," Leonard Davis Institute/School of Medicine Health Services Research Seminar Series, Philadelphia, PA
- Jun 2018 "Predicting Undetected Sepsis," Department of Emergency Medicine Research in Progress, Philadelphia, PA
- Jul 2018 "Behavioral Economics and Provider Payment," HP/CHIBE/CHCI Interns and Students. Philadelphia, PA
- Sep 2018 "Bundled Payment as Major Alternative Payment Model," guest lecturer in Rob Burns' Intro to US Healthcare System course, Philadelphia, PA
- Jan 2019 "Moving Forward With Bundled Payments, Starting With The Evidence," Department of Neurosurgery Grand Rounds, Philadelphia, PA
- Feb 2019 "Bundled Payments and Accountable Care Organizations," HCMG 845: Managed Care and Industrial Organization of Health Care, Philadelphia, PA
- Aug 2019 "Behavioral Economics and Provider Payment," HP/CHIBE Intern Seminar, Philadelphia, PA
- Feb 2020 "Bias in Clinical Risk Prediction Algorithms," EHR STAT Method Working Group, Philadelphia, PA
- Feb 2020 "The Evidence on Bundled Payments," HCMG 845: Managed Care and Industrial Organization of Health Care, Philadelphia, PA
- July 2020 "Financing of Healthcare Delivery," HPR 600: Intro to Health Policy and Innovation Science, Philadelphia, PA
- Aug 2020 "Healthcare Innovation and Operations Panel," panel moderator, MHCI Seminar: Innovating and Leading in Disruption, Philadelphia, PA

Lectures by Invitation (Last 5 years):

- Jun 2016 "Transforming Primary Care Payment in Hawaii," Innovation Station presentation, AcademyHealth, Boston, MA
- Oct 2016 "Behavioral Economics and Shifting Behavior of Providers and Consumers Towards Better Health," Centers for Medicare & Medicaid Services Learning Action Summit, Washington, DC
- Mar 2017 "ACOs, Bundled Payments and Post-Acute Care," Independence Blue Cross, Philadelphia, PA
- Jun 2017 Real-time feedback in Pay-for-Performance: Does more information lead to improvement? AcademyHealth, New Orleans, LA
- Oct 2017 "Innovation in Bundled Payments," Cleveland Clinic 2017 Advanced

- Payment Summit, Cleveland, OH
- Oct 2017 "Population Health ACOs," Cleveland Clinic 2017 Advanced Payment Summit, Cleveland, OH
- Feb 2018 "Value Based Care Panel," Quality Cancer Care Alliance Winter Leadership Summit, Las Vegas, NV
- Feb 2018 "Practicing Oncology in the Era of Value Based Care," Quality Cancer Care Alliance Winter Leadership Summit Keynote, Las Vegas, NV
- Apr 2018 "Review of Medicare Episode-Based Payment Programs on Mandatory vs. Voluntary Bundled Payments," Government Accountability Office (GAO) Briefing, Philadelphia, PA
- Jun 2018 "Effects of Major Joint Replacement Bundled Payments on Medicare and Commercial Post-Discharge Spending," Discussant, American Society of Health Economists (ASHEcon) Annual Conference, Atlanta, GA
- Jun 2018 "Predicting Undetected Sepsis," Department of Emergency Medicine Research in Progress, Philadelphia, PA
- Jun 2018 "Publish or Perish: Meet the Editors Part 1," Panelist, AcademyHealth Research Meeting, Seattle, WA
- Aug 2018 "Behavioral Economics and Health," Center for Medicare and Medicaid Innovation, Baltimore, MD
- Sep 2018 "Predicting Undetected Sepsis," Visiting Professor and Hospital Grand Rounds at Weill Cornell Medical Center, New York City, NY
- Oct 2018 "The Future of Bundled Payments," Panel Moderator, Cleveland Clinic's Advanced Payment Summit, Cleveland, OH
- Oct 2018 "Population Health: The Cornerstone of Value-Based Care," Panel Moderator, Cleveland Clinic's Advanced Payment Summit, Cleveland, OH
- Oct 2018 "The Impact of Bundled Payments on the Planning and Delivery of Post-Acute Care," Cleveland Clinic's Advanced Payment Summit, Cleveland, OH
- Nov 2018 "Markers of Success in Bundled Payment Programs," American Hospital Association Webinar, Philadelphia, PA
- Feb 2019 "Segmenting High Need, High Cost Patients into Potentially Actionable Subgroups," VA High Risk Investigator Network, Pittsburgh, PA
- May 2019 "Effects of Financial Bonus Sizes, Loss Aversion, and Increased Social Pressure on Physician Pay-for-Performance: A Randomized Trial and Cohort Study", NIH Collaboratory, Duke University, via Webex
- Jun 2019 "Publish or Perish: Meet the Editors Part Two," Panelist, AcademyHealth Annual Research Meeting, Washington, DC
- Jun 2019 "Publication of the Year – Effect of Peer Comparison Letters for High-Volume Primary Care Prescribers of Quetiapine in Older and Disabled Adults. A Randomized Clinical Trial" Panelist, AcademyHealth Annual Research Meeting, Washington, DC
- Jun 2019 "Forging Effective Collaborations between Researchers and Employers to Promote Healthcare Quality and Value," Panelist, AcademyHealth Annual Research Meeting, Washington, DC

Sep 2019	“Transforming Primary Care Payment,” Speaker, National Institute of Healthcare Management (NIHCM) Meeting, Washington, DC
Oct 2019	“The Crisis of Scalability in Healthcare,” Closing Keynote, Value Based Innovation Summit – Cleveland Clinic, Cleveland, OH
Nov 2019	“Patient Selection and Bundled Payments,” The Dartmouth Institute, Lebanon, NH
Jan 2020	“Bundled Payments – Where Are We Now and Where Are We Going?” Data and Methods Hub Seminar, Institute for Healthcare Policy & Innovation, University of Michigan, Ann Arbor, MI
Jan 2020	“Payment Model Interfaces,” opening remarks, Duke-Margolis Center’s Condition-based Payment Reform meeting, Washington, DC
Sep 2020	“Racial Bias in a VA Algorithm for High-Risk Veterans,” Complexity in Women Veterans meeting, Philadelphia, PA

Organizing Roles in Scientific Meetings:

Oct 2004	Organizer, The Langfitt Symposium on Health Policy: Drug Re-importation: Problem or Panacea? Invited panelists from Wharton Health Care Systems Department, Merck Pharmaceuticals, Consumer's Union, and the AARP. University of Pennsylvania, Philadelphia, PA
Jun 2016	Lead Organizer, "MACRO-economics," Press Briefing, National Press Club, Washington, DC
Nov 2016	Co-Lead Organizer, Roundtable: “Systems Thinking to Improve Healthcare Delivery,” Chicago, IL
Oct 2018	Leader, Forum: “Moving Forward with Bundled Payments,” Press Briefing, National Press Club, Washington, DC

Research Grants (with PI, Co-PI, Contact Multi-PI and annual direct costs):

2007-2008	LDI Pilot Grants, “Formation of Surgeon Peer Reputation and Impact on Technology Adoption,” Co-PI. \$6,600
2014-2015	Partners Siemens Research Council grant, “Utilizing Unstructured Data for Risk Stratification,” Co-PI. \$125,000
2015-2017	The Commonwealth Fund grant, “Using Behavioral Economics to Create Effective Provider Incentives Phase 2,” Co-PI. In this project, we studied how behavioral economic principles can improve the effectiveness of physician incentives to deliver higher quality and lower cost care. We tested the application of specific behavioral economic principles including social pressure and loss aversion in incentive design and implementation. \$207,583
2015-2018	The Robert Wood Johnson Foundation, “Studying Behavioral Economic Principles in Incentivizing Physicians to Deliver Higher-quality, Lower-cost Care and the Impact on Patient Outcomes,” Co-PI. In this project, we studied how behavioral economic principles can improve the effectiveness of physician incentives to deliver higher quality and lower cost care and the resulting impact on patient reported outcomes. We will test the application of specific behavioral economic principles including social

- pressure and loss aversion in incentive design and implementation and looked at the effects on patient outcomes, experiences, and beliefs. \$205,089
- 2015-2019 Pennsylvania Department of Health, “Smarter Big Data for a Healthy Pennsylvania: Changing the Paradigm of Healthcare,” PI for Aim 1. Aim 1: In this project, we study the use of big data methods to combine multi-modal data to study clinical event prediction in the hospital, during transitions to the outpatient setting, and at the community level. \$901,817
- 2015-2020 The Robert Wood Johnson Foundation, “Physician Judgment and Machine Predictions: Improving Medical Decisions Using Machine Learning,” Contact Multi-PI. In this project, we study how machine learning based predictive models can be used to improve emergency room physician decisions for sepsis patients. \$495,775
- 2016-2018 Anthem, Inc. grant, “UPenn-CareMore Research Collaboration on High Need Patients and Care Delivery Management,” PI. In this project, we will utilize CareMore data to identify and categorize high need patients based on their clinical and demographic characteristics as well as utilization patterns. We will then examine the impact of CareMore's ESRD care model on the quality outcomes and cost of care that its patients receive. \$91,975
- 2016-2019 Oscar Insurance grant, “Oscar Health Physician and Member Engagement,” PI. Project Aim 1: Testing the impact of different care team models and enhancements on results for high cost members with at least one chronic condition; Project Aim 2: Social comparisons of provider performance - application to C-sections. \$854,252
- 2016-2018 The Commonwealth Fund, “Evaluating the Impact of Medicare's Joint Replacement Bundled Payment Program on the Cost and Quality of Care,” PI. In this project, we performed a quasi-experimental retrospective evaluation of the effects of the BPCI program on the quality and costs of care for joint replacements, the most common condition in BPCI. \$45,129
- 2016-2020 Hawaii Medical Services Association grant, “Specialist Transformation in Hawaii,” Contact Multi-PI. In this project, we will develop new payment models for specialist care providers, implement randomized controlled trials, and evaluate the impact of incentive design features from classical and behavioral economics. \$1,790,001
- 2017-2018 The Commonwealth Fund grant, “Evaluating the Impact of Bundled Payment for Care Improvement on the Value of Care,” Contact Multi-PI. In this project, we propose a quasi-experimental retrospective evaluation of the effects of the BPCI program on the quality and costs of care for joint replacements, the most common condition in BPCI. \$289,375
- 2017-2020 Cigna Insurance grant, “Provider compensation models workshop facilitation,” PI. Conduct workshop on behavioral economics and review opportunities to enhance product benefit design and episode design to improve value based payments. \$140,000
- 2017-2022 Health Research and Education Trust (HRET) grant, “Penn LDI-AHA

- Bundled Payment Survey,” PI. Conduct a survey to identify key challenges facing HRET member institutions in the evolving payment landscape and derive and disseminate insights from data analysis and member experience on best practices to succeed toward higher quality while lowering costs. \$20,000
- 2018-2019 Hawaii Medical Services Association grant, “PMPM payment for primary care physicians in payment transformation,” PI. In this project, we will design and build a new value-based PMPM. \$55,900
- 2018-2019 The Commonwealth Fund grant, “Examining Overlap Between ACOs and Bundled Payments,” PI. In this project, we propose a description of the extent and time trend in overlap between major Medicare ACO (Pioneer, MSSP, NextGen) and bundled payment (BPCI Model 2, CJR, BPCI-Advanced) programs. \$83,815
- 2018-2019 Health Services Research and Development Service (HSR&D)/VA grant, “Segmenting High-Need, High-Cost Veterans Into Potentially Actionable Subgroups,” PI. The main objective of this study is to apply statistical and machine learning clustering methods to classify high-need, high-cost (HNHC) Veterans into clinically actionable subgroups based on detailed clinical information extending beyond diagnosis codes. \$92,459
- 2018-2020 Donaghue Foundation grant, “The REDUCE Trial: Randomized Trial of EHR Defaults and Using Social Comparison Feedback to Effectively Decrease Opioid Prescription Pill Burden,” Contact Multi-PI. Pragmatic randomized controlled trial to evaluate the effect of physician social comparisons and electronic health record defaults on reducing opioid prescription pill burden. \$381,543
- 2019-2022 Hawaii Medical Services Association grant, “Drivers of medical cost trend and specialty payment model design and testing,” PI. Institution will provide research, analyses and strategic input services for HMSA’s health care delivery strategy. \$1,851,852
- 2019-2023 National Institutes of Health (NIH), R01 grant
 “Comparing the Impact of Voluntary and Mandatory Bundled Payments on Disparities in Surgical Care,” Contact Multi-PI. This study examines how bundled payments implemented via voluntary and mandatory participation impact access and outcomes among vulnerable patients – evidence needed to inform policymakers about the broader policy impact and whether to scale bundled payments through voluntary and/or mandatory participation. \$1,627,348
- 2019-2024 National Institutes of Health (NIH) R01 grant, “Caregiving after discharge from the hospital,” Co-I. Caregiving burden is a large and growing concern in the US, particularly for persons with dementia and, as the use of inpatient post-acute care has been declining, caregiving burden in the post-acute period is expected to grow. This project examines changes in caregiving in the post-acute period, particularly among persons with dementia. The results from this study will provide empirical evidence

- regarding how the declining use of SNF has impacted caregiving in the post-acute period. \$1,429,218
- 2020-2021 University of Pennsylvania/Boettner Center for Pension Security Quartet Pilot Research Program grant, “Estimating the Causal Effects of Managed Care in Medicare,” Co-PI. The federal government is facing intense financial pressure as the Medicare program approaches insolvency in 2026 due to an aging population. In this project, we examine the value generated by a cornerstone Medicare program, Medicare Advantage, the private plan option that has rapidly expanded to cover over 22 million beneficiaries. Our proposed approach to estimating causal effects of MA on patient outcomes (compared to traditional Medicare fee-for-service) improves upon prior work by using a novel instrumental variable that uses predicted out-of-pocket savings from enrolling in MA to mitigate selection. \$14,900
- 2020-2021 Embedded Healthcare grant, “Reduce total cost of care and improve quality outcomes project for United Healthcare,” PI. The objective of this collaboration is to innovate on new provider financial and non-financial incentive models that will reduce total cost of care and improve quality outcomes for members of United Healthcare. \$285,870
- 2020-2021 Embedded Healthcare grant, “BCBS NC Fee schedule rebalancing and simulation modeling,” PI. The hypothesis of the BCBS project is that by incorporating behavioral economics design principles into a novel physician fee schedule, and applying a scientific design-analyze-refine method to the roll-out of their novel Nova insurance project, BCBS can reduce unnecessary spending, develop meaningful analytics to share with their provider partners, and conduct analyses to course-correct and redefine the fee schedule over time to ensure success. \$274,450
- 2020-2021 Hawaii Medical Services Association grant, “HMSA Health Strategy COVID-19 Deliverables,” PI. Institution will provide research, analyses and strategic input services for HMSA’s strategy for the State of Hawaii’s economic recovery of COVID-19. \$27,400
- 2020-2020 VA grant, “Predictive Algorithms,” PI. Bridge funding for 6 months for Pilot program. \$103,504
- 2020-2020 NIHCM grant, “The Impact of COVID-19 on Health Care Spending and Practice Patterns,” Contact Multi-PI. In this study, we will use administrative claims from 2015-2020 to study the short- and intermediate-term impacts of COVID-19 on health care spending, utilization, and outcomes across all lines of business. \$35,000
- 2020-2025 National Institutes of Health grant, “I-SCREEN: Increasing Screening for Cancer using a Randomized Evaluation of EHR-based Nudges,” Contact Multi PI. This project will pilot nudge interventions among older adults and then tailor nudges to overcome screening barriers facing these patient groups. In the R61 phase, we will conduct a pragmatic, multisite trial evaluating the ability for tailored nudges to clinicians and patients to improve vaccination rates and reduce disparities in care. \$2,837,995

2020-2025 National Institutes of Health grant, “BE IMMUNE: Behavioral Economics to Improve and Motivate vaccination Using Nudges through the EHR,” Co-PI. In this study, we will use analytical methods to identify high-risk subgroups, test personalized nudges to address barriers among these groups, and then implement a pragmatic, multisite trial to evaluate the effectiveness of personalized nudges to clinicians and patients to improve vaccination rates among older adults and reduce disparities in care.” (\$2,805,577.00)

Pending

2020-2023 Agency for Health Care Research and Quality grant, “The effect of voluntary bundled payments on vulnerable populations” Contact Multi PI. Research to inform payment policy that promotes parity, this study examines how voluntary bundled payments impact access and outcomes for racial/ethnic minorities and individuals with low socioeconomic status (SES), vulnerable groups that have long faced disparities in health care access and outcomes. \$1,588,795.

2021-2022 Donaghue Foundation grant, “Reducing low value care through a precision approach that tailors interventions to each individual’s behavioral phenotype,” Co-PI. The goal of this project is to develop algorithms that use an individual’s behavioral phenotype to match them to the best intervention to change their health behaviors. \$429,176

2021-2024 VA grant, “Racial Bias in a VA Algorithm for High-Risk Veterans,” PI. In this project, we will systematically examine algorithmic unfairness in the VA CAN algorithm and develop approaches to mitigate it, including testing the incorporation of SDoH metrics. \$862,190

2021-2025 National Institutes of Health grant, “The impact of population and episode-based payment models on surgical disparities,” Contact Multi PI. This study examines how population- and episode-based APMs that extensively cover surgical care affect disparities in surgical access and outcomes for vulnerable patients, and whether effects vary by providers’ ability to manage financial accountability. \$3,105,061

2021-2025 VA grant, “A Randomized Trial of Behaviorally Designed Gamification and Social Incentives to Increase Physical Activity among Overweight and Obese Veterans,” Co-PI. This project seeks to compare the effectiveness of behaviorally designed gamification that encourages Veterans to collaborate or compete on physical activity levels and examine personalizing treatment choice based on Veteran characteristics. \$1,146,277

Bibliography:

*denotes mentee

Research Publications, peer reviewed:

1. **Navathe AS**, Harris JJ, Kotagal M, Parekh A, Bhatt J: Barack Obama's Plan for a Healthy America. The Context Journal 2008 2
2. **Navathe AS**, David G: The Formation of Peer Reputation among Physicians and its Effect on Technology Adoption. Journal of Human Capital 2009 3(4):289-322
3. **Navathe AS**, Conway PH: Optimizing Health Information Technology's Role in Enabling Comparative Effectiveness Research. American Journal of Managed Care 2010 Dec 16(12 Suppl HIT): SP44-7
4. **Navathe AS**, Volpp KG, Konetzka RT, Press MJ, Zhu J, Chen W, Lindrooth RC: A Longitudinal Analysis of the Impact of Hospital Service Line Profitability on the Likelihood of Readmission. Medical Care Research and Review 2012 Aug 69(4):414-31
5. Lindrooth RC, Konetzka RT, **Navathe AS**, Zhu J, Chen W, Volpp KG: The Impact of Profitability of Hospital Admissions on Mortality. Health Services Research 2013 Apr 48(2 Pt 2):792-809
6. **Navathe AS**, Silber JH, Small DS, Rosen AK, Romano PS, Even-Shoshan O, Wang Y, Zhu J, Halenar MJ, Volpp KG: Teaching Hospital Financial Status and Patient Outcomes Following ACGME Duty Hour Reform. Health Services Research 2013 Apr 48(2 Pt 1): 476-98
7. **Navathe AS**, Silber JH, Zhu J, Volpp KG: Does Admission to a Teaching Hospital Affect Acute Myocardial Infarction Survival? Academic Medicine 2013 Apr 88(4):475-82
8. Press MJ, Scanlon DP, Ryan AM, Zhu J, **Navathe AS**, Mittler JN, Volpp KG: Limits of Readmission Rates In Measuring Hospital Quality Suggest the Need for Added Metrics. Health Affairs 2013 Jun 32(6):1083-91
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10. Rodriguez F, Nathan AS, **Navathe AS**, Ghosh N, Shah PB: Serial Classic and Inverted Pattern Takotsubo Cardiomyopathy in a Middle-aged Woman. Canadian Journal of Cardiology 2014 30(11):1462.e7-9
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