

Curriculum Vitae

9/29/2020

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 26th 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 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

- Oct 2015 "Behavioral Economics and Provider Incentives," Center for Health

- Dec 2015 Incentives and Behavioral Economics (CHIBE) Retreat, Cape May, NJ
"Behavioral Economics and Provider Incentives," Robert Wood Johnson/
CHIBE Symposium, Philadelphia, PA
- 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
- 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
- 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 Operations Panel,” panel moderator, MHCI Seminar: Innovating and Leading in Disruption, Philadelphia, PA

Mentorship:

- 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
- 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
- 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
- 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.

Lectures by Invitation (Last 5 years):

- Apr. 2014 "Delivery Science and the Opportunity for Transforming Health Care," Plenary Session, Arizona State University and Mayo Medical School Symposium on Health Care Delivery Science, Phoenix, AZ
- Apr 2014 "Is Your Organization Ready for Value Based Payment" with Christopher Kalkhof, National Association of Managed Care Physicians (NAMCP) National Meeting, Orlando, FL
- Jan 2015 "Transitioning Our Reimbursement Models," Plenary Address, American

- College of Cardiology Value Summit, Orlando, FL
- 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 \$593,108
- 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. \$2,500,000
- 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. \$1,061,969

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

Pending

2020-2023 Agency for Health Care Research and Quality grant, “The effect of voluntary bundled payments on vulnerable populations” Contact Multi PI. 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. \$1,583,473.00

2020-2024 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. \$513,349

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.
- 2020-2025 National Institutes of Health grant, “BE IMMUNE: Behavioral Economics to Improve and Motivate vaccination Using Nudges through the EHR,” Multi 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)

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**, Clancy C, Glied S: Advancing Research Data Infrastructure for Patient-Centered Outcomes Research. JAMA 2011 Sep 306(11):1254-5
5. **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
6. 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
7. **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
8. **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
9. 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
10. Press MJ, Scanlon DP, **Navathe AS**, Zhu J, Chen W, Mittler JN, Volpp KG: The Importance of Clinical Severity in the Measurement of Hospital Readmission Rates

- for Medicare Beneficiaries, 1997-2007. Medical Care Research Review 2013 Dec 70(6):653-65
11. Powers BW, **Navathe AS**, Jain SH: Medical Education's Authenticity Problem. BMJ 2014 Apr 348:g2651
 12. Rodriguez F, Nathan AS, **Navathe AS**, Ghosh N, Shah PB: Serial Classic and Inverted Pattern Takotsubo Cardiomyopathy in a Middle-aged Woman. Canad J Cardiol 2014 30(11):1462.e7-9
 13. Byrd BF 3rd, Abraham TP, Buxton DB, Coletta AV, Cooper JH, Douglas PS, Gillam LD, Goldstein SA, Graf TR, Horton KD, Isenberg AA, Klein AL, Kreeger J, Martin RP, Nedza SM, **Navathe AS**, Pellikka PA, Picard MH, Pilotte JC, Ryan TJ, Rychik J, Sengupta PP, Thomas JD, Tucker L, Wallace W, Ward RP, Weissman NJ, Wiener DH, Woodruff S: A Summary of the American Society of Echocardiography Foundation Value-Based Healthcare: Summit 2014: The Role of Cardiovascular Ultrasound in the New Paradigm. J Am Soc Echocardiogr 2015 Jul 28(7):755-69
 14. Zhou L, Baughman AW, Lei VJ, Lai KH, **Navathe AS**, Chang F, Sordo M, Topaz M, Zhong F, Murralli M, Navathe S, Rocha RA: Identifying Patients with Depression Using Free-text Clinical Documents. Proceedings of the International Informatics Association Conference MEDINFO - Stud Health Technol Inform 2015 216:629-33
 15. Emanuel EJ, Ubel PA, Kessler JB, Meyer G, Muller RW, **Navathe AS**, Patel P, Pearl R, Rosenthal MB, Sacks L, Sen AP, Sherman P, Volpp KG: Using Behavioral Economics to Design Physician Incentives That Deliver High-Value Care. Annals of Internal Medicine 2016 Jan 164(2):114-119
 16. *Liao JM, **Navathe AS**: Paying for Performance: Money, Motivation, and Uncertainty. Lancet 2016 Mar 387(10022):936-937
 17. *Liao JM, Emanuel EJ, **Navathe AS**: Six Health Care Trends that Will Reshape the Patient-Provider Dynamic. Healthcare 2016 Sep 4(3):148-50.
 18. *Liao JM, Fleisher LA, **Navathe AS**: Increasing the Value of Social Comparisons of Physician Performance Using Norms. JAMA 2016 Sep 316(11):1151-2
 19. **Navathe AS**, Sen AP, Rosenthal MB, Pearl RM, Ubel PA, Emanuel EJ, Volpp KG: New Strategies for Aligning Physicians with Health System Incentives. Am J Manag Care 2016 Sep 22(9):610-12
 20. **Navathe AS**, Emanuel EJ: Physician Peer Comparisons as a Nonfinancial Strategy to Improve the Value of Care. JAMA 2016 Nov 316(17):1759-60
 21. **Navathe AS**, Troxel AB, *Liao JM, Nan N, Zhu J, Zhong W, Emanuel EJ: Cost of Joint Replacement Using Bundled Payment Models. JAMA Intern Med 2017 Feb 177(2):214-222
Media: Wharton Radio, KHN, Politico, LDI Research Brief.media: Perspective in Orthopedics Today by Mike McCaslin <https://tinyurl.com/ybms86xo>
Media: <https://tinyurl.com/NYTimesBP92018>.
 22. **Navathe AS**, Zhong F, Lei VJ, Chang FY, Sordo M, Topaz M, Navathe SB, Rocha RA, Zhou L: Hospital Readmission and Social Risk Factors Identified from Physician Notes. Health Services Research 2017 Mar 53(23):1110-36
doi:10.1111/1475-6773.12670 Epub ahead of print Mar 2017
 23. *Parikh RB, Schwartz JS, **Navathe, AS**: Beyond Genes and Molecules-A Precision Delivery Initiative for Precision Medicine. NEJM 2017 Apr 376(17):1609-12

24. **Navathe AS**, Song Z, Emanuel EJ: The Next Generation of Episode-Based Payments. JAMA 2017 Jun 317(23):2371-2
25. *Liao JM, Schapira MS, **Navathe AS**, Mitra N, Weissman A, Asch DA: The Effect of Emphasizing Patient, Societal and Institutional Harms of Inappropriate Antibiotic Prescribing on Physician Support of Financial Penalties: A Randomized Trial. Annals of Internal Medicine 2017 Aug 167(3):215-16
26. *Liao J, Holdofski A, Whittington GL, Zucker M, Viroslav S, Fox DL, **Navathe AS**: Baptist Health System: Succeeding in Bundled Payments Through Behavioral Principles. Healthcare 2017 Sep 5(3):136-140
doi: 10.1016/j.hjdsi.2016.04.008 Epub ahead of print May 19, 2016.
27. Marcotte L, Hodlofski A, *Bond A, Patel P, Sacks L, **Navathe AS**: Into Practice: How Advocate Health System Uses Behavioral Economics to Motivate Physicians in its Incentive Program. Healthcare 2017 Sep 5(3):129-135
doi: 10.1016/j.hjdsi.2016.04.011 Epub ahead of print May 25, 2016.
28. Powers BW, **Navathe AS**, Chaguturu SR, Ferris TG, Torchiana DF: Aligning Incentives for Value: The Internal Performance Framework at Partners HealthCare. Healthcare 2017 Sep 5(3):141-149
doi: 10.1016/j.hjdsi.2016.04.007 Epub ahead of print May 18, 2016.
29. *Liao JM, Hodlofski A, Moore R, **Navathe AS**: Partnership HealthPlan of California: Addressing opioid overuse with behavioral design principles. Healthcare 2018 Mar 6(1):95-8
doi: 10.1016/j.hjdsi.2017.11.002 Epub ahead of print Nov 2017.
30. *Liao JM, **Navathe AS**, Schapira MM, Weissman A, Mitra N, Asch DA: When Reducing Low-Value Care in Hospital Medicine Saves Money, Who Benefits? Journal of Hospital Medicine 2018 Jan 13(1):45-48
doi: 10.12788/jhm.2878; Epub ahead of print Nov 22, 2017.
31. *Liao JM, **Navathe AS**, Schapira MS, Mitra N, Weissman A, Asch DA: Penalizing Physicians for Low Value Care in Hospital Medicine: A Randomized Survey. Journal of Hospital Medicine 2018 Jan 13(1):412-44
doi: 10.12788/jhm.2879; Epub ahead of print Nov 22, 2017.
32. **Navathe AS**, *Liao JM, Emanuel EJ: Volume Increases and Shared Decision-making in Joint Replacement Bundles. Annals of Surgery 2018 Jan 267(1):35-36
doi: 10.1097/SLA.0000000000002283.
33. *Liao JM, Hodlofski A, Moore R, **Navathe AS**: Partnership HealthPlan of California: Addressing opioid overuse with behavioral design principles. Healthcare 2018 Mar 6(1): 95-8
doi: 10.1016/j.hjdsi.2017.11.002; Epub ahead of print Nov 28, 2017.
34. *Liao JM, **Navathe AS**, Chu D: Reframing the Value Proposition of Coronary Artery Bypass Graft Bundles. JAMA Surgery 2018 Mar 153(3):199-200
doi:10.1001/jamasurg.2017.4903.
35. **Navathe AS**, *Bain AM, Werner RM: Do Changes in Post-acute Care Use at Hospitals Participating in an Accountable Care Organization Spillover to All Medicare Beneficiaries? Journal of General Internal Medicine 2018 Jun 33(6):831-8
doi: 10.1007/s11606-018-4368-z Epub ahead of print Mar 2018

36. **Navathe AS**, *Liao JM, *Shah Y, Lyon Z, Chatterjee P, Polsky D, Emanuel EJ: Characteristics of Hospitals Earning Savings in the First Year of Mandatory Bundled Payment for Hip and Knee Surgery. JAMA 2018 Mar 319(9):930-2
doi: 10.1001/jama.2018.0678;
Media: Knowledge@Wharton Radio interview April 2018;
Media: Knowledge@Wharton Weekend Edition article <https://tinyurl.com/K-WBundleMay2018>.
37. *Parikh RB, Bekelman JE, Hodlofski A, **Navathe AS**, New Mexico Cancer Center: New Mexico Cancer Center and the COME HOME Model: Pathways improving the value of community-based cancer care. Healthcare 2018 Mar 6(1):88-94
doi: 10.1016/j.hjdsi.2017.11.001.
38. Powers BW, Mostashari F, Maxson E, Lynch K, **Navathe AS**: Engaging Small Independent Practices in Value-Based Payment: Building Aledade's Medicare ACOs. Healthcare (Amst) 2018 Mar 6(1):79-87
doi: 10.1016/j.hjdsi.2017.06.003 Epub ahead of print Jun 2017
39. Song Z, **Navathe AS**, Emanuel EJ, Volpp KG: Incorporating value into physician payment and patient cost sharing. American Journal of Managed Care 2018 Mar 24(3): 126-8
40. *Liao JM, Chu D, **Navathe AS**: Succeeding in New Cardiac Bundles: Lessons from History, Directions for the Future. Annals of Surgery 2018 Dec 268(6):938-9
doi: 10.1097/SLA.0000000000002852.
41. *Liao JM, Emanuel EJ, Whittington GL, Small DS, Troxel AB, Zhu J, Zhong W, **Navathe AS**: Physician Practice Variation Under Orthopedic Bundled Payment. American Journal of Managed Care 2018 Jun 24(6):287-93
42. **Navathe AS**, *Liao JM, Polsky D, *Shah Y, Huang Q, Zhu J, Lyon ZM, *Wang R, *Rolnick J, *Martinez JR, Emanuel EJ: Comparison of Hospitals Participating in Medicare's Voluntary and Mandatory Orthopedic Bundle Programs. Health Affairs. Project HOPE, 2018 Jun 37(6):854-63
doi: 10.1377/hlthaff.2017.1358;
Media: <https://www.hcanews.com/news/penn-researchers-continue-to-beat-the-drum-for-bundled-payments> (Healthcare Analytics News, 6/6/2018);
Media: <https://tinyurl.com/MandatoryBPCIOrthoTodayJune18> (Orthopedics Today 6/11/2018).
43. *Liao JM, Shea JA, Weissman A, **Navathe AS**: Physician Perspectives in Year 1 of MACRA and its Merit-Based Payment System: A National Survey. Health Affairs (Project Hope) 2018 Jul 37(7)
doi: <https://doi.org/10.1377/hlthaff.2017.1485>
Media: <https://tinyurl.com/FierceHC-Docs-and-MIPS>
Media: <https://tinyurl.com/UWDaily-Docs-and-MIPS>
Media: <https://ldi.upenn.edu/healthpolicysense/physician-perspectives-towards-medicare-s-new-payment-program>.
44. *Liao JM, Sommers BD, **Navathe AS**: Medicaid's Path to Value-Based Reform. NEJM 2018 Jul 379(2):105-8
doi: 10.1056/NEJMp1801942.

45. **Navathe AS**, *Liao JM, *Dykstra SE, Wang E, Lyon ZM, *Shah Y, *Martinez J, Small DS, Werner RM, *Dinh C, Ma X, Emanuel EJ: Association of Hospital Participation in a Medicare Bundled Payment Program with Volume and Case Mix of Lower Extremity Joint Replacement Episodes. JAMA 2018 Sep 320(9):901-10 doi:10.1001/jama.2018.12345
Media: <https://preview.tinyurl.com/Vox92018ACAunderTrumpBPworking>
Media: <https://tinyurl.com/OrthoTodayBPCIMarketLevelJRVol>
Media: <https://tinyurl.com/NYTimesBP92018>
Media: <https://tinyurl.com/MedicalResearch-com9-9-18intvw>.
46. Volpp, KG, **Navathe AS**, Oshima Lee E, Mugishii M, Troxel AB, Caldarella K, Hodlofski A, Bernheim S, Drye E, Yoshimoto J, Takata K, Stollar MB, Emanuel EJ: Redesigning Provider Payment: Opportunities and Challenges from the Hawaii Experience. Healthcare. Elsevier 2018 Sep 6(3):168-174
doi: 10.1016/j.hjdsi.2018.06.004 Epub ahead of print Jul 2018.
47. **Navathe, AS**, Emanuel EJ, Volpp KG: Aligning Patient and Physician Incentives. JAMA 2018 Oct 320(16):1635-6
doi:10.1001/jama.2018.11245.
48. **Navathe AS**, Emanuel EJ, *Liao JM: Pitfalls and Potential in Medicare's Move Toward Outpatient Care Episodes. Annals of Internal Medicine 2018 Dec 169(11):802-3
doi 10.7326/M18-2563 Epub ahead of print Nov 2018
49. Powers BW, Yan J, Zhu J, Linn KA, Jain SH, Kowalski JL, **Navathe AS**: Subgroups of High-Cost Medicare Advantage Patients: An Observational Study. Journal of General Internal Medicine 2019 Feb 34(2):218-225
doi: 10.1007/s11606-018-4759-1
epub ahead of print Dec 2018
50. Yan J, Linn KA, Powers BW, Zhu J, Jain SH, Kowalski JL, **Navathe AS**: Applying Machine Learning Algorithms to Segment High Cost Patient Populations. Journal of General Internal Medicine 2019 Feb 34(2):211-7
Epub ahead of print Dec 2018
51. **Navathe AS**, Emanuel EJ, *Liao JM: Pitfalls and Potential in Medicare's Move Toward Outpatient Care Episodes. Annals of Internal Medicine 2018 Dec 169(11):802-3
doi 10.7326/M18-2563 Epub ahead of print Nov 2018
52. *Liao JM, Chu D, **Navathe AS**: Succeeding in New Cardiac Bundles: Lessons from History, Directions for the Future. Annals of Surgery 2018 Dec 268(6):938-9
doi: 10.1097/SLA.0000000000002852.
53. *Liao JM, **Navathe AS**: Incentivizing Healthy Behaviors at Scale: Closing the Gap Between Science and Population-Level Implementation. JAMA Network Open 2018 Dec 1(8):e186173
doi: 10.1001/jamanetworkopen.2018.6173
54. *Liao JM, Emanuel EJ, Polsky DE, Huang Q, *Shah Y, Zhu J, Lyon ZM, *Dykstra S, *Dinh C, Cousins D, **Navathe AS**: National Representativeness of Hospitals and Markets in Medicare's Mandatory Bundled Payment Program. Health Affairs 2019 Jan_38(1):44-53

- doi: 10.1377/hlthaff.2018.05177
55. *Liao JM, **Navathe AS**, Press MJ: Medicare's Approach to Paying for Services that Promote Coordinated Care Across the Continuum. JAMA 2019 Jan 321(2):147-8
doi:10.1001/jama.2018.19315.
 56. **Navathe AS**, Volpp KG, Caldarella KL, *Bond A, Troxel AB, Zhu J, Matloubieh S, Lyon ZM, Mishra A, Sacks L, Nelson C, Patel P, Shea J, Calgano D, Vittore S, Sokol K, Weng K, McDowald N, Crawford P, Small D, Emanuel EJ: Effect of Financial Bonus Sizes, Loss Aversion, and Increased Social Pressure on Physician Pay-for-Performance: A Randomized Trial and Cohort Study. JAMA Network Open 2019 Feb 2(2):e187950
Media: <http://www.mdalert.com/news/article/in-physician-pay-for-performance-larger-bonuses-improve-care> Feb 2019;
Media: <https://www.healthleadersmedia.com/clinical-care/bonus-pay-doctors-can-boost-quality-care> Feb 2019;
Media: JNO Network Live Feb 12, 2019;
Media: interviewed for Burroughs Healthcare Consulting Network blog Feb 11, 2019
 57. *Parikh RB, Obermeyer Z, **Navathe AS**: Regulation of predictive analytics in medicine, Science 2019 Feb 363(6429):810-2
doi: 10.1126/science.aaw0029;
Media: <https://ldi.upenn.edu/healthpolicysense/rise-machines-health-care> Feb 22, 2019; Media: <https://tinyurl.com/RulesEvaluatingPredictiveAI> Axios.com 2/21/2019;
Media: Knowledge@Wharton Radio interview 3/22/2019;
Media: <https://tinyurl.com/ManVMachineBetterThanDr> Knowledge@Wharton website; Media: interviewed by Lee Hotz of Wall Street Journal 3/20/2019
 58. *Bain A, Werner RM, Yuan Y, **Navathe AS**: Do Hospitals Participating in Accountable Care Organizations Discharge Patients to Higher Quality Nursing Homes? Journal of Hospital Medicine 2019 May 14(5):288-9
doi 10.12788/jhm.3147 Epub ahead of print Mar 2019
 59. Fishman E, Barron J, Liu Y, Gautam S, Bekelman, JE, **Navathe AS**, Fisch M, Nguyen A, Sylwestrzak G: Using Claims Data to Attribute Patients with Breast, Lung, or Colorectal Cancer to Prescribing Oncologists. Pragmatic and Observational Research 2019 Mar 10:15-22
doi: 10.2147/POR.S197252
 60. *Liao JM, *Martinez JR, *Shan EZ, *Huang JJ, *Dinh CT, Huang EQ, **Navathe AS**: Medicare's New Voluntary Bundled Payment Program: Episode Selection and Participant Characteristics. Healthcare (Amst) 2019 Jun 7(2):26-30
doi: 10.1016/j.hjdsi.2019.04.002 epub ahead of print Apr 2019
 61. *Dinh CT, *Liao JM, **Navathe AS**: Implications of coding and risk-adjustment in primary care payment reform. J Hosp Manag Health Policy 2019 May 3.
doi: 10.21037/jhmhp.2019.05.02
 62. *Isidro U, *Martinez JR, **Navathe AS**: CMS program participation and policy evaluation without administrative data: a case study on Bundled Payments for Care Improvement (BPCI) initiative. Journal of Hospital Management and Health Policy 2019 Jul 3:16
doi: 10.21037/jhmhp.2019.06.03

63. Zhu J, **Navathe AS**, Yuan Y, *Dykstra SE, Werner RM: Medicare's Bundled Payment Did Not Change Skilled Nursing Discharge Patterns. American Journal of Managed Care 2019 Jul 25(7):329-34
64. **Navathe AS**, Emanuel EJ, *Bond A, Linn K, Caldarella K, Troxel A, Zhu J, Yang L, Matloubieh SE, Drye E, Bernheim S, Oshima Lee E, Mugiishi M, Takata Endo K, Yoshimoto J, Yuen I, Okamura S, Stollar M, Tom J, Gold M, Volpp KG: Association Between the Implementation of a Population-Based Primary Care Payment System and Achievement on Quality Measures in Hawaii. JAMA 2019 Jul 322(1):57-68 doi: 10.1001/jama.2019.8113
NIHCM Foundation 26th Annual Health Care Research Award finalist
Media: interview with John Tozzi of Bloomberg News Apr 2020
65. Lei VJ, Kennedy EH, Luong TB, Chen X, Polsky DE, Volpp KG, Neuman MD, Holmes JH, Fleisher LA, **Navathe AS**: Model Performance Metrics in Assessing the Value of Adding Intraoperative Data for Death Prediction: Applications to Noncardiac Surgery. Proceedings of the International Informatics Association Conference MEDINFO. Studies in Health Technology Informatics. 2019 Aug 264:223-7.
doi: 10.3233/SHTI190216
66. **Navathe AS**, *Dinh C, *Dykstra SE, Werner RM, *Liao JM: Overlap Between Medicare's Voluntary Bundled Payment and Accountable Care Organization Programs. Journal of Hospital Medicine epub ahead of print Aug 2019; 14.
doi: 10.12788/jhm.3288
67. *Parikh R, Bekelman J, Huang Q, *Martinez J, Emanuel E, **Navathe AS**: Characteristics of Physicians Participating in Medicare's Oncology Care Model Bundled Payment Program. Journal of Oncology Practice 2019 Oct 15(10):e897-e905.
doi 10.1200/JOP.19.00047 epub ahead of print Aug 2019
68. *Bond AM, Volpp KG, Emanuel EJ, Caldarella K, Hodlofski A, Sacks L, Patel P, Sokol K, Vittore S, Calgano D, Nelson C, Weng K, Troxel A, **Navathe AS**: Real-time feedback in Pay-for-Performance: Does more information lead to improvement? Journal of General Internal Medicine 2019 Sep 34(9):1737-43
doi: 10.1007/s11606-019-05004-8 epub ahead of print Apr 2019
69. *Liao JM, Emanuel EJ, Venkataramani AS, Huang Q, *Dinh CT, *Shan E, Wang E, Zhu J, Cousins DS, **Navathe AS**: Association of Bundled Payments for Joint Replacement Surgery with Simultaneous Hospital Participation in Accountable Care Organizations. JAMA Network Open 2019 Sep 2(9):e1912270.
doi: 10.1001/jamanetworkopen.2019.12270
70. Patel MS, **Navathe AS**, *Liao JM: Using Nudges to Improve Value by Increasing Imaging-Based Cancer Screening Journal of the American College of Radiology 2020 Jan 17(1A):38-41.
doi: 10.1016/j.jacr.2019.08.025 Epub ahead of print Sep 2019
71. *Parikh R, Jain S, **Navathe AS**: The Sociobehavioral Phenotype: Applying a Precision Medicine Framework to Social Determinants of Health. American Journal of Managed Care 2019 Sep 25(9):421-3 Epub ahead of print

72. *Liao JM, Shea JA, Weissman A, **Navathe AS**: US Trainee Perspectives on a National Pay-for-Performance Program. *Journal of Hospital Management and Health Policy* 2019 Sep 3:26
doi: 10.21037/jhmhp.2019.08.05
73. *Parikh RB, Manz C, Chivers C, Regli SH, Braun J, Draugelis ME, Schuchter LM, Shulman LN, **Navathe AS**, Patel MS, O'Connor NR: Machine Learning Approaches to Predict 6-Month Mortality Among Patients With Cancer. *JAMA Network Open* 2019 Oct 2(10):e1915997.
doi: 10.1001/jamanetworkopen.2019.15997
74. *Liao JM, **Navathe AS**: Direct Contracting in Medicare: Opportunity and Risk for Surgeons. *Annals of Surgery*. 2020Apr 271(4):632-4.
.doi: 10.1097/SLA.0000000000003620 Volume Publish Ahead of Print-Issue Oct 9, 2019
75. *Parikh RP, Teeple S, **Navathe AS**: Addressing Bias in Artificial Intelligence in Health Care. *JAMA*. Published online Nov 22, 2019. Epub ahead of print.
doi:<https://doi.org/10.1001/jama.2019.18058>.
Media: JAMA Network Audio interview for podcast Nov 6 2019
76. Wynn-Jones W, Koehlmoos TP, Tompkins C, **Navathe AS**, Lipsitz S, Kwon NK, Learn PA, Madsen C, Schoenfeld A, Weissman JS: Variation in expenditure for common, high cost surgical procedures in a working age population: implications for reimbursement reform. *BMC Health Serv Res* 2019 Nov 19(1):877
doi:10.1186/s12913-019-4729-2
77. Lei VJ, Kennedy EH, Luong TB, Chen X, Polsky DE, Volpp KG, Neuman MD, Holmes JH, Fleisher LA, **Navathe AS**: Risk stratification for postoperative acute kidney injury in major noncardiac surgery using preoperative and intraoperative data. *JAMA Network Open*. 2019 Dec 2(12):e1916921.
doi:10.1001/jamanetworkopen.2019.16921
78. *Dinh CT, Linn KA, *Isidro U, Emanuel EJ, Volpp KG, *Bond AM, Caldarella K, Troxel AB, Zhu J, Yang L, Matloubieh SE, Drye E, Bernheim S, Oshima Lee E, Mugiishi M, Takata Endo K, Yoshimoto J, Yuen I, Okamura S, Tom J, **Navathe AS**: Changes in Outpatient Imaging Utilization and Spending Under a New Population-based Primary Care Payment Model. *Journal of the American College of Radiology* 2020 Jan 17(1):101-9
doi: <https://doi.org/10.1016/j.jacr.2019.08.013>
79. Agarwal R, *Liao JM, Gupta A, **Navathe AS**: The Impact Of Bundled Payments On Health Care Spending, Utilization And Quality: A Systematic Review. *Health Affairs*. 2020 Jan 39 (1):50-7
doi: 10.1377/hlthaff.2019.00784.
Media: *FierceHealthcare* <https://www.fiercehealthcare.com/hospitals-health-systems/study-finds-bundled-payments-for-hip-and-knee-procedures-lowered-costs-but-Jan-2020>.
Media: *Modern Healthcare* <https://www.modernhealthcare.com/payment/bundles-cut-spending-joint-replacements-not-other-conditions-Jan-2020>.
Media: HFMA <https://www.hfma.org/topics/news/2020/01/limits-on-savings-from-bundled-payments-identified-in-new-research.html> Jan 2020

80. **Navathe AS**, Emanuel EJ, Venkataramani AS, Huang Q, Gupta A, *Dinh CT, *Shan EZ, Small DS, Coe NB, Wang E, Ma X, Zhu J, Cousins DS, *Liao JL: Spending and quality after 3 years of Medicare's voluntary bundled payments for joint replacement surgery. Health Affairs 2020 Jan 39(1):58-66
doi: 10.1377/hlthaff.2019.00466.
Media: Modern Healthcare <https://www.modernhealthcare.com/payment/bundles-cut-spending-joint-replacements-not-other-conditions> Jan 2020.
Media: HFMA <https://www.hfma.org/topics/news/2020/01/limits-on-savings-from-bundled-payments-identified-in-new-research.html> Jan 2020
81. *Liao JM, Pauly MV, **Navathe AS**: When Should Medicare Mandate Participation in Alternative Payment Models? Health Affairs 2020 Feb 39(2):305-9
doi: 10.1377/hlthaff.2019.00570
82. *Liao JM, Zhou L, **Navathe AS**: Nationwide Hospital Performance on Publicly Reported Episode Spending Measures. Journal of Hospital Medicine 2020 Mar 15:E1-7.
doi 10.12788/jhm.3377
83. *Liao JM, Zhou L, **Navathe AS**: Physician Group Performance in the First Year of Medicare's Merit-based Incentive Payment System. Healthcare 100421 Epub ahead of print Mar 7, 2020
doi: 10.1016/j.hjdsi.2020.100421
84. Urwin JW, Caldarella KL, Matloubieh SE, Lee E, Mugiishi M, Kohatsu L, Yoshimoto J, Tom J, Okamura S, Wang E, Zhu J, Emanuel EJ, Volpp KG, **Navathe AS**: Designing a Commercial Medical Bundle For Cancer Care: Hawaii Medical Service Association's Cancer Episode Model. Healthcare. Epub ahead of print Apr 6, 2020.
doi <https://doi.org/10.1016/j.hjdsi.2020.100422>
85. **Navathe AS**, Volpp KG, *Bond A, Linn KA, Caldarella K, Troxel A, Zhu J, Yang L, Matloubieh SE, Drye E, Bernheim S, Oshima Lee E, Mugiishi M, Takata Endo K, Yoshimoto J, Emanuel EJ: Assessing the Effectiveness of Peer Comparisons as a Way to Improve Health Care Quality. Health Affairs. 2020 May 39(5).
<https://doi.org/10.1377/hlthaff.2019.01061>
86. Bekelman JE, Emanuel EJ, **Navathe AS**: Outpatient Treatment at Home for Medicare Beneficiaries During, and After, the COVID-19 Pandemic. JAMA online 2020 June
doi: 10.1001/jama.2020.9017
87. *Rolnick JA, *Liao JM, Emanuel EJ, Huang Q, Ma X, *Shan EZ, *Dinh C, Zhu J, Wang E, Cousins D, **Navathe AS**: Spending and Quality after Three Years of Medicare's Bundled Payments for Medical Conditions: Quasi-experimental Difference-in-Differences Study. BMJ. 2020 June 369:m1780. Media: The BMJ Opinion <https://blogs.bmj.com/bmj/2020/06/17/programme-design-matters-lessons-from-bundled-payments-in-the-us/>
doi: 10.1136/bmj.m1780
88. **Navathe AS**, Boyle CW, Emanuel EJ: Alternative Payment Models – Victims of Their Own Success? JAMA 2020 June online
doi: 10.1001/jama.2020.4133

89. *Liao JM, **Navathe AS**: Physician Perspectives About the US Quality Payment Program: MIPS Benefits and Alternative Payment Model. Journal of Hospital Management and Health Policy. 2020 June 4:16
doi: 10.21037/jhmhp.2020.03.04
90. Urwin JW, Shea J, Matloubieh SE, Caldarella KL, Walters M, Mishra A, Emanuel EJ, Volpp KG, **Navathe AS**: A qualitative study of the influence of loss aversion and increased social pressure in physician pay-for-performance. Journal of Hospital Management and Health Policy. 2020 June 4:14
doi: 10.21037/jhmhp.2020.03.03
91. *Liao JM, Pronovost PJ, **Navathe AS**: To Re-Open Health Care, Leaders Should Address Patient Fear. NEJM Catalyst Innovations in Care Delivery. 2020 July
doi: 10.1056/CAT.20.0276
92. *Liao JM, Shan EZ, Zhao Y, Shah Y, Cousins DS, **Navathe AS**: Overlap Between Medicare's Comprehensive Care for Joint Replacement Program and Accountable Care Organizations. Journal of Arthroplasty. Online 2020 July 22
doi: <https://doi.org/10.1016/j.arth.2020.07.039>
93. *Liao JM, **Navathe AS**: After COVID-19, A Payment Policy Reboot: Three Lessons From The Pandemic On How To Improve Value-Based Payment. HealthAffairs. Online August 11, 2020
doi: [10.1377/hblog20200805.905205](https://doi.org/10.1377/hblog20200805.905205)
94. *Powers BW, Yan J, Zhu J, Linn KA, Jain SH, Kowalski J, **Navathe AS**. The Beneficial Effects of Medicare Advantage Special Needs Plans for Patients With End-Stage Renal Disease. 2020 Sep 9(39):1486-94
doi: 10.1377/hlthaff.2019.01793
95. Urwin JW, Pronovost PJ, **Navathe AS**: Zero Defect: a Paradigm Shift in Aspirations for our Health System. NEJM Catalyst Innovations in Care Delivery. Forthcoming
96. **Navathe AS**, Lei VL, Fleisher L, Luong TB, Chen X, Kennedy E, Volpp KG, Polsky D, Groeneveld P, Weiner M, Holmes J, Neuman M: Improving Identification of Patients at Low Risk for Major Cardiac Events After Noncardiac Surgery Using Intraoperative Data. Journal of Hospital Medicine. Forthcoming
97. *Parikh RB, Robinson KW, Chhatre S, Medvedeva E, Cashy JP, Veera S, Bauml JM, **Navathe AS**, Malkowicz SB, Mamtani R, Jayadevappa R: Comparison by Race of Conservative Management for Low- and Intermediate-Risk Prostate Cancers in Veterans: 2004-2018. JAMA Network Open. Forthcoming
98. Nathan A, *Martinez J, Giri J, **Navathe AS**: Observational study assessing changes in timing of readmissions around post-discharge day 30 associated with the introduction of the Hospital Readmissions Reduction Program. BMJ Quality & Safety. Forthcoming
99. Chen XS, Changolkar S, **Navathe AS**, Linn KA, Reh G, Szwartz G, Steier D, Godby S, Balachandran M, Harrison JD, Rareshide CAL, Patel MS: Association between behavioral phenotypes and response to a physical activity intervention using gamification and social incentives: Secondary analysis of the STEP UP randomized clinical trial. PLOS One. Forthcoming
100. Bekelman J, Fish M, Sylwestrzak G, Barron J, Debono D, Liu Y, Fishman E, **Navathe AS**, Gupta A: Association between a National Insurer's Pay-for-

- Performance Program for Oncology and Changes in Prescribing of Evidence-Based Cancer Drugs and Spending. Journal of Clinical Oncology. Forthcoming
101. Nadella P, **Navathe AS**: The media needs to incorporate principles of research communication to improve COVID-19 reporting. Healthcare 2020 Dec 8(4):100473
doi: <https://doi.org/10.1016/j.hjdsi.2020.100473>

Research Publications, non-peer reviewed

1. **Navathe AS**: A Hybrid Algorithm for Point Location Problems. Center for Excellence in Education (CCE) Brief 12, 1996.
2. **Navathe AS**, Jain SH, Jha A, Milstein A, Shannon RP: Introducing you to Healthcare: The Journal of Delivery Science and Innovation. Healthcare 2013 Jun 1(1-2): 1, Jun 2013.
doi: 10.1016/j.hjdsi.201.05.004
3. Curfman G, Shachar C, **Navathe A**: Beyond the Dartmouth Atlas - Regional Variation in Private Health Care Spending. Healthcare 2016 Sep 4(3): 132-134
doi: 10.1016/j.hjdsi.2016.02.001
4. *Liao JM, **Navathe AS**, Press M: Hospital-at-Home Care Programs -- Is the Hospital of the Future at Home? JAMA Internal Medicine 2018 Jun online
doi: 10.1001/jamainternmed.2018.2566
5. *Liao JM, **Navathe AS**: Nudging Physicians to Reduce Quetiapine Prescribing Using Medicare Letters. JAMA Psychiatry 2018 Aug online
https://jamanetwork.com/journals/jamapsychiatry/fullarticle/2694813?utm_source=jpg&utm_medium=email&utm_campaign=author_alert-jamanetwork&utm_content=author-author_engagement&utm_term=1m
doi: 10.1001/jamapsychiatry.2018.1843
6. Glickman A, *Dinh C, **Navathe AS**: The Current State of Evidence on Bundled Payments. Leonard Davis Institute of Health Economics Issue Brief 2018 Sep 22(3)
<https://ldi.upenn.edu/brief/current-state-evidence-bundled-payments>.
7. **Navathe AS**, *Liao JM, Emanuel EJ: Potential Unintended Effects of Medicare's Bundled Payments for Care Improvement Program – Reply. JAMA 2019 Jan 321(1):107-8
doi: 10.1001/jama.2018.18162.
8. **Navathe AS**, Lee VS, *Liao JM: How to Overcome Clinicians' Resistance to Nudges. Harvard Business Review 2019 May <https://hbr.org/2019/05/how-to-overcome-clinicians-resistance-to-nudges>
9. **Navathe AS**, Jain SH, Simpson L, Savitz L: Introducing the AcademyHealth and Healthcare: the Journal of Delivery Science and Innovation Partnership. Healthcare 2019 Jun 7(2): 1-2
doi: 10.1016/j.hjdsi.2019.05.002
10. *Parikh R, Bekelman J, Navathe AS: Response to N.L. Keating et al. Journal of Oncology Practice 2020 Feb 16(2):100 Epub ahead of print Dec 27, 2019.
doi: 10.1200/JOP.19.00681

11. Urwin JW, Pronovost PJ, **Navathe AS**: Response to Wasteful Health Care Spending in the United States by WH Shrank et al Waste in the US Health Care System. JAMA Network 2020 Mar 323(9):895 <https://jamanetwork.com/journals/jama/article-abstract/2762302>
doi: 10.1001/jama.2019.22255.
12. *Liao JM, **Navathe AS**, Werner RM: The Impact of Medicare's Alternative Payment Models on the Value of Care. Annual Review of Public Health 2020 Apr 41:551-565
doi: 10.1146/annurev-publhealth-040119-094327
13. *Liao JM, **Navathe AS**: Does the Merit-Based Incentive Payment System Disproportionately Affect Safety-Net Practices. JAMA Health Forum 2020 May
<https://jamanetwork.com/channels/health-forum/fullarticle/2766082>
14. **Navathe AS**, Grabowski D: Will Medicare's New Patient-Driven Post-Acute Care Payment System be a Step Forward? JAMA Health Forum 2020 June online
https://jamanetwork.com/channels/health-forum/fullarticle/2767735?utm_source=twitter&utm_medium=social_jamaforum&utm_term=3443300741&utm_campaign=article_alert&linkId=91609248

Abstracts (selected)

1. **Navathe AS**, Zhong F, Lei VJ, Chang FY, Sordo M, Topaz M, Navathe SB, Rocha RA, Zhou L: Hospital Readmission and Social Risk Factors Identified from Physician Notes. Presented at Society of General Internal Medicine (SGIM) Annual Meeting Milton Hamolsky Awards Panel May 2016 in Hollywood, FL, Academy Health Annual Research Meeting (ARM) Best of ARM Panel June 2016 in Boston, MA, and the American Society of Health Economists (ASHEcon), June 2016 in Philadelphia, PA. Manuscript published in Health Services Research, Mar 2017.
2. **Navathe AS**, *Bain AM, Werner RM: Do Changes in Post-acute Care Use at Hospitals Participating in an Accountable Care Organization Spillover to All Medicare Beneficiaries? Presented at the Society of General Internal Medicine (SGIM) Annual Meeting Milton Hamolsky Awards Panel April 2017 in Washington, DC and AcademyHealth Annual Research Meeting (ARM) June 2017 in New Orleans, LA. Manuscript published in Journal of General Internal Medicine, Mar 2018.
3. *Bond AM, Volpp KG, Emanuel EJ, Caldarella KL, Hodlofski A, Sacks L, Patel P, Sokol K, Vittore S, Calgano D, Nelson C, Weng K, Troxel A, **Navathe AS**: Real-time Feedback in Pay-for-Performance: Does More Information Lead to Improvement? Presented at the Society of General Internal Medicine (SGIM) Annual Meeting April 2017 in Washington, DC and AcademyHealth Annual Research Meeting (ARM) June 2017 in New Orleans, LA. Manuscript published in Journal of General Internal Medicine, Sep 2019
4. **Navathe AS**, Volpp KG, Caldarella KL, *Bond A, Troxel AB, Zhu J, Matloubieh S, Lyon ZM, Mishra A, Sacks L, Nelson C, Patel P, Shea J, Calgano D, Vittore S, Sokol K, Weng K, McDowald N, Crawford P, Small D, Emanuel EJ: Effect of Financial Bonus Sizes, Loss Aversion, and Increased Social Pressure on Physician Pay-for-Performance: A Randomized Trial and Cohort Study. Presented at the Society of General Internal Medicine Annual Meeting Milton Hamolsky Awards Panel, April

- 2018, Denver, CO and the AcademyHealth Annual Research Meeting (ARM) June 2018 in Seattle, WA, and American Society of Health Economists Annual Conference. Atlanta, GA, June 2018. Manuscript published in JAMA Network Open, Feb 2019.
5. **Navathe AS**, *Liao JM, *Dykstra SE, Wang E, Lyon ZM, *Shah Y, *Martinez J, Small DS, Werner RM, *Dinh C, Ma X, Emanuel EJ: Association of Hospital Participation in a Medicare Bundled Payment Program with Volume and Case Mix of Lower Extremity Joint Replacement Episodes. Presented at the Society of General Internal Medicine (SGIM) Annual Meeting, April 2018 in Denver, CO and AcademyHealth Annual Research Meeting (ARM) June 2018 in Seattle, WA. Manuscript published in JAMA, Sep 2018.
 6. Lei VJ, Neuman MD, Weiner MG, Luong TB, *Bain AM, Polsky DE, Volpp KG, Holmes JH, **Navathe AS**: Applying Predictive Analytics on Perioperative Data to Assess Physician Decision Making and Post-Operative Testing for Acute Myocardial Infarction. Presented at the AMIA Symposium by Victor Lei in November 2018 in San Francisco, CA.
 7. **Navathe AS**, Emanuel EJ, Venkataramani AS, Huang EQ, *Dinh CT, Gupta A, *Shan EZ, Small DS, Zhu J, Wang E, Cousins DS, *Liao JM: Spending and quality after 3 years of Medicare's voluntary bundled payments for joint replacement surgery. Presented at the Society of General Internal Medicine (SGIM) Annual Meeting, May 2019 in Washington, DC, and AcademyHealth Annual Research Meeting, June 2019 in Washington, DC. Manuscript accepted for publication in Health Affairs.
 8. **Navathe AS**, Volpp KG, *Bond A, Linn KA, Caldarella K, Troxel A, Zhu J, Yang L, Matloubieh SE, Drye E, Bernheim S, Oshima Lee E, Mugiishi M, Takata Endo K, Yoshimoto J, Emanuel EJ: Assessing the Effectiveness of Peer Comparisons as a Way to Improve Health care Quality. Presented at Society of General Internal Medicine (SGIM) Annual Meeting, May 2019 in Washington, DC and ASHEcon Annual Meeting, June 2019 in Washington, DC. Manuscript accepted for publication in Health Affairs.
 9. **Navathe AS**, Dinh C, Dykstra SE, Werner RM, Liao JM: Overlap between Medicare's Voluntary Accountable Care Organizations and Bundled Payment and Accountable Care Organization Programs. Presented at the AcademyHealth Annual Research Meeting, June 2019 in Washington, DC.
 10. **Navathe AS**, Emanuel EJ, *Bond A, Linn K, Caldarella K, Troxel A, Zhu J, Yang L, Matloubieh SE, Drye E, Bernheim S, Oshima Lee E, Mugiishi M, Takata Endo K, Yoshimoto J, Yuen I, Okamura S, Stollar M, Tom J, Gold M, Volpp KG: Association Between the Implementation of a Population-Based Primary Care Payment System and Achievement on Quality Measures in Hawaii. Presented at the AcademyHealth Annual Research Meeting, June 2019 in Washington, DC. Manuscript published in JAMA, Jul 2019.

Books/Chapters

1. Emanuel EJ, **Navathe AS**: Delivery-System Reforms: Evaluating the Effectiveness of the ACA's Delivery-System Reforms at Slowing Cost Growth and Improving Quality and Patient Experience. The Trillion Dollar Revolution: How the Affordable Care Act Transformed Politics, Law, and Health Care in America. Jan 2020. pp 225-250.

Alternative Media

1. Powers BS, **Navathe AS**, Jain SH: Patients as Customers: Applying Lessons from Service Industries to Health Care. Harvard Business Review Blog Apr 2013 (reprinted in the Health Care Blog, KevinMD, and other similar pubs).
2. **Navathe, AS**: HEALTH PolicySense - When Compared to Each Other, Doctors Pay Attention. LDI blog Nov 11 2016.
3. **Navathe AS**: Savings through Bundled Payments for Joint Replacements. Knowledge@Wharton Radio January 2017 Notes: aired January 3, 2017.
4. **Navathe AS**, Whittington G, *Liao J, Bajner R: Guest Commentary: A Value-Based Endorsement of Bundled Payments. Modern Healthcare Jan 2017 <http://www.modernhealthcare.com/article/20170113/NEWS/170119946> - Published Jan 3, 2017.
5. **Navathe A**, Whittington G, Stacey RF, Bajner R: Bundled Payments: Value-Based Guidance. hfma.org (Healthcare Financial Management Association) Feb 1 2017 <https://www.hfma.org/Content.aspx?id=52423>.
6. **Navathe AS**: Meaningful Dollars Saved with Bundled Payments. Rheumatology Network Podcast Feb 2017 <http://www.rheumatologynetwork.com/healthcare-policy/meaningful-dollars-saved-bundled-payments>.
7. **Navathe AS**, Troxel AB, *Liao JM, et al: "Bundled payment model linked with reduced Medicare payments for joint replacement" Perspective by Mike McCaslin on "Cost of Joint Replacement Using Bundled Payment Models" published in JAMA Intern Med. 2017. Orthopedics Today Feb 2017 <https://www.healio.com/orthopedics/business-of-orthopedics/news/online/%7be45283ae-befa-46a6-8447-c3c465ca15a7%7d/bundled-payment-model-linked-with-reduced-medicare-payments-for-joint-replacement>.
8. **Navathe AS**: The Part of Obamacare Even Republicans Like. Marketplace Podcast Jul 24, 2017 <https://www.marketplace.org/2017/07/24/health-care/part-obamacare-even-republicans>.
9. **Navathe AS**, *Anastos-Wallen RE, Emanuel EJ, *Liao JM: What's In A Name: Will BPCI-Advanced Hold Back Or Advance Bundled Payment Policy? Health Affairs Blog Feb 2018 <https://www.healthaffairs.org/doi/10.1377/hblog20180131.50449/full/>
10. **Navathe AS**, *Liao JM: Reply to "Study finds Medicare bundled payments inequitable for older, higher-risk patients" Orthopedics Today Mar 2018 <https://www.healio.com/orthopedics/business-of-orthopedics/news/online/%7B25b620ab-1e42-4b1d-82cd-4a7fbb7ad0cf%7D/study-finds-medicare-bundled-payments-inequitable-for-older-higher-risk-patients>.
11. *Liao JM, *Dykstra SE, Werner RM, **Navathe AS**: BPCI Advanced Will Further Emphasize The Need To Address Overlap Between Bundled Payments and Accountable Care Organizations. Health Affairs Blog Apr 2018 <https://www.healthaffairs.org/doi/10.1377/hblog20180409.159181/full/>.

12. McCann A: Best & Worst States for Health Care. Wallet Hub Aug 2018 Interviewed for the article: <https://wallethub.com/edu/states-with-best-health-care/23457/#amol-s-navathe>.
13. **Navathe AS**, *Shan E, *Liao JM: What Have We Learned About Bundling Medical Conditions? Health Affairs Blog Aug 2018
<https://www.healthaffairs.org/doi/10.1377/hblog20180828.844613/full/>
doi: 10.1377/hblog20180828.844613.
14. Scott D: One of Obamacare's Big Experiments to Lower Costs is Working Surprisingly Well. Vox Sep 2018 Notes: Interviewed, with Zeke Emanuel, by the writer for this article and referencing JAMA article: <https://www.vox.com/policy-and-politics/2018/9/4/17806348/obamacare-trump-bundled-payments-hospitals-research>.
15. *Liao JM, Chen A, **Navathe AS**: The Real Opportunities of MIPS Payment Adjustments. HealthAffairs Blog Oct 29 2018 Part 1 of a 3-part series
doi: 10.1377/hblog20181026.940799
16. *Liao JM, **Navathe AS**: Implications of MIPS Scoring on Clinician Engagement in Value-Based Payments. Health Affairs Blog Oct 30 2018 Part 2 of a 3-part series
<https://tinyurl.com/MIPSScoring-Pmts-HABlog10-2018>
Media: Politico Morning eHealth What We're Clicking 10.31.2018
<https://tinyurl.com/MorningHealth10-31-2018>
17. **Navathe AS**, *Liao JM: MIPS APMs in the Quality Payment Program. HealthAffairs Blog Oct 31 2018 Part 3 of 3-part series
doi: 10.1377/hblog20181030.290056.
18. Robert Calandra: Bundled Payments for Joint Replacement Reduce Expenditures, Don't Compromise Quality. Managed Care Nov 2018
Media: Interviewed by the writer who also referenced several of Dr. Navathe's articles previously published in peer-reviewed publications.
<https://www.managedcaremag.com/archives/2018/11/bundled-payments-joint-replacement-reduce-expenditures-don-t-compromise-quality>.
19. **Navathe AS**, *Huang J, *Liao JM: Early Participants and Focus Areas in BPCI-Advanced. Health Affairs Blog Dec 5, 2018.
<https://www.healthaffairs.org/doi/10.1377/hblog20181204.525769/full/>
20. **Navathe AS**, Emanuel EJ, *Liao JM: Policy Trends That May Drive Different Care Redesign For Procedural Versus Nonprocedural Bundles. Health Affairs Blog Apr 2019 <https://tinyurl.com/PolicyTrendsDriveCareRedesign>
doi: 10.1377/hblog20190409.220198;
21. **Navathe AS**, Bekelman JE, *Liao JM: Advancing Bundled Payments Through Radiation Oncology Episodes. HealthAffairs Blog August 2019
doi: [10.1377/hblog20190729.824220](https://doi.org/10.1377/hblog20190729.824220)
22. *Liao JM, Miller SC, **Navathe AS**: To Succeed, MIPS Value Pathways Need More Episodic Cost Measures. Health Affairs Blog. Nov 14, 2019.
<https://www.healthaffairs.org/doi/10.1377/hblog20191107.686469/full/>
doi: 10.1377/hblog20191107.686469

23. Berger L: 60 Seconds With Amol Navathe, MD, PhD. McKnight's Long-Term Care News. Feb 3, 2020. <https://www.mcknights.com/print-news/60-seconds-with-amol-navathe-m-d-ph-d/>
24. *Liao JM, **Navathe AS**: When Site-Of-Service Policy and Payment Reforms Converge: The Case of Joint Replacement Surgery. HealthAffairs Blog. Feb 3, 2020. doi: [10.1377/hblog20200129.860920](https://doi.org/10.1377/hblog20200129.860920)
25. Emanuel EJ, **Navathe AS**: Will 2020 Be the Year That Medicine Was Saved? NY Times Opinion Apr 14, 2020. <https://www.nytimes.com/2020/04/14/opinion/coronavirus-hospitals.html>
Media: interview with John Tozzi of Bloomberg News Apr 2020
Media: How Will COVID-19 Leave its Mark on Health Care? interview with Warren Olney on "To the Point" podcast on KCRW in Los Angeles May 2020
kcrw.com/news/shows/to-the-point/health-care-medicine-covid-19
26. Aledade podcast – interview with Joe Shonkwiler re: behavioral economics and health care system reform Apr 2020 <https://aledade.podbean.com/e/69-behavioral-economics-and-health-care-system-reform/>
27. **Navathe AS**, Emanuel EJ: How Health Insurers Can be Heroes. Really. NY Times Opinion May 6, 2020. <https://www.nytimes.com/2020/05/06/opinion/coronavirus-insurance.html>
28. **Navathe AS**, *Liao, JM: Surgical Care in Accountable Care Organizations. Penn LDI Blog Health PolicySense May 12, 2020 <https://ldi.upenn.edu/healthpolicysense/surgical-care-accountable-care-organizations>
29. Marcotte L, **Navathe AS**, Staloff J, *Liao JM: Medicare's Reliance on Acute Hospitalization Rates Could Undercut the Impact of its Primary Care First Program. HealthAffairs Blog May 13, 2020. doi: [10.1377/hblog20200511.241173](https://doi.org/10.1377/hblog20200511.241173)
30. **Navathe AS**, Venkataramani A, Emanuel EJ: Why Opening the Economy Won't Be the Stimulus We're Hoping For Penn LDI Health PolicySense 2020 May <https://ldi.upenn.edu/healthpolicysense/why-opening-economy-won-t-be-stimulus-we-re-hoping>
31. *Liao JM, **Navathe AS**: Saving the economy means reopening wisely and changing minds Philadelphia Inquirer 2020 May <https://www.inquirer.com/opinion/commentary/coronavirus-state-reopenings-pennsylvania-new-jersey-fear-20200523.html>
32. *Liao JM, **Navathe AS**: Social Determinants Among Communities Receiving Early COVID-19 Relief Funds. Penn LDI Health PolicySense 2020 Aug <https://ldi.upenn.edu/healthpolicysense/social-determinants-among-communities-receiving-early-covid-19-relief-funds>
33. **Navathe AS**, *Liao JM: Barring visitors from hospitals can worsen patient care during COVID. Philadelphia Inquirer Opinion 2020 July <https://www.inquirer.com/opinion/commentary/hospital-visits-coronavirus-philadelphia-pennsylvania-regulations-20200727.html>
34. State of Healthcare podcast: The Future of AI in Healthcare. Aug 2020 https://www.youtube.com/watch?v=bIcQaCoz_Aw
35. West, A: Expert Reveals How the COVID-19 Pandemic Shows the Need for Greater Efficiencies in US Healthcare Delivery (Amol Navathe interviewed for article)

- CardRates.com Sep 2020 <https://www.cardrates.com/news/covid-19-shows-the-need-for-efficient-us-healthcare/>
- Media: LDI In The News <https://ldi.upenn.edu/in-the-news/expert-reveals-how-covid-19-pandemic-shows-need-greater-efficiencies-us-healthcare>
36. *Liao JM, **Navathe AS**: Revise COVID-19 relief-fund decisions to target disparities. The Seattle Times Opinion 2020 Sep <https://www.seattletimes.com/opinion/revise-covid-19-relief-fund-decisions-to-target-disparities/>
- 37.