CURRICULUM VITAE

Haiden A. Huskamp

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Education:

1989 B.A. (Honors)	Public Policy, Duke University
1997 Ph.D.	Health Policy, Economics Concentration, Harvard University

Faculty Academic Appointments:

1997-2004	Assistant Professor of Health Care Policy, Department of Health Care Policy,
	Harvard Medical School
2004-2010	Associate Professor of Health Care Policy, Department of Health Care Policy,
	Harvard Medical School
2010-2017	Professor of Health Care Policy, Department of Health Care Policy,
	Harvard Medical School
2017-2020	30 th Anniversary Professor of Health Care, Department of Health Care Policy,
	Harvard Medical School
2018	Visiting Scholar, Health Policy & Management,
	Johns Hopkins Bloomberg School of Public Health
2020-	Henry J. Kaiser Professor of Health Care Policy, Department of Health Care Policy,
	Harvard Medical School

Other Professional Positions:

- 1988-1989 Research Assistant, National Governors' Association, Washington, DC1989-1990 Program Analyst, U.S. Dept. of Health and Human Services, Washington, DC
- 1990-1992 Associate, Alpha Center for Health Policy, Washington, DC

Harvard Committee Service:

1994-1999	Member, Board of Freshman Advisors, Harvard College
1998-1999	Member, Junior Faculty Search Committees, Harvard Medical School
1999-2001	Member, Committee for Undergraduate Education in Health Policy, Harvard University
2000-2001	Member, Harvard Health Caucus Advisory Board, Harvard Medical School
2000-	Member, Standing Committee on the Degree of Doctor of Health Policy, Harvard University
2005-2006	Member, Education Reform Committee on Fundamentals of Medicine, Harvard Medical School
	Co-Chair, Subcommittee on Health Policy and Managerial Sciences
2006-2007	Member, Center for Population Health Medical Education, Harvard Medical School
	Co- Chair, Subcommittee on Pre-Clinical Education
2007-2008	Member, Strategic Advisory Group on Education, Harvard Medical School
2007-2008	Member, Junior Faculty Search Committee, Harvard Medical School
2009	Member, Curriculum Committee, Harvard Medical School
	Member, Research Compliance Advisory Committee, Harvard Medical School
2010-2011	Member, Liaison Committee on Medical Education (LCME) Review, Harvard Medical School
	Chair, Ph.D. Program in Health Policy Committee on Fellowships, Harvard University
2010-2011	Member, Junior Faculty Search Committee, Harvard Medical School
	Member, Faculty of Arts and Sciences Standing Committee on Health, Harvard University Policy
	Member, Safety Committee, Harvard Medical School
2013-2023	Member, Senior Faculty Search Committee, Harvard Medical School
2014-2015	Member, Pathways Curriculum Design Committee, Harvard Medical School
	Chair, Social and Population Science
2015-2016	Member, Junior Faculty Search Committee, Harvard Medical School
	Member, Executive Committee on Higher Degrees in Health Policy, Harvard University
2017-2020	Member, Advisory Committee on Shareholder Responsibility, Harvard University
2019	Member, Research Rigor and Reproducibility (R3) Committee, Harvard Medical School
2020-	Chair, Standing Committee on Rights and Responsibilities, Harvard Medical School
2020-	Executive Committee Member, Training in Oncology Population Sciences (TOPS) NCI T32
	Fellowship Program

Grant Review Activities:

1998	Ad-hoc Grant Reviewer, The Substance Abuse and Mental Health Services Administration,	
	U.S. department of Health and Human Services	
2002		

- 2002 Ad-hoc Grant Reviewer, Changes in Health Care Financing and Organization (HCFO Program), Robert Wood Johnson Foundation
- 2005 Ad-hoc Reviewer, Study Section Review Panels, National Institute of Mental Health
- 2006 Ad-hoc Reviewer, Health Services Organization and Delivery Study Section, *National Institute of Health*
- 2010 Ad-hoc Reviewer, Special Emphasis Panel Study Section, Agency for Healthcare Research and Quality
- 2012 Ad-hoc Reviewer, Special Emphasis Panel Study Section, National Institute of Mental Health
- 2013 Ad-hoc Reviewer, R24 Planning Grant Study Section, *National Institute of Mental Health*
- 2013 Ad-hoc Reviewer, Special Emphasis Panel Study Section, National Institute of Mental Health

2015	Ad-hoc Reviewer, Contracts Study Section, National Institute of Mental Health
2017	Ad-hoc Reviewer, Fellowships and Dissertation Grants Study Section, National Institute of Mental
	Health
2020	Ad-hoc Reviewer, SERV Conflicts Study Section, National Institute of Mental Health
2020	Ad-hoc Reviewer, T32 Study Section, National Institute of Mental Health
2021	Ad-hoc Reviewer, RFA Review, National Institute on Alcohol Abuse and Alcoholism

Editorial Activities:

1997	Ad-hoc Reviewer
	Journal of Health Economics
	Inquiry
1998-	Ad-hoc Reviewer, Health Affairs
1999	Ad-hoc Reviewer, Health Care Financing Review
2000	Ad-hoc Reviewer, Administration and Policy in Mental Health
2001-	Ad-hoc Reviewer
	Psychiatric Services
	Milbank Quarterly
	Journal of Mental Health Policy and Economics
	Journal of Economics and Management Strategy
2002-	Ad-hoc Reviewer
	Medical Care
	Health Services Research
2003-	Ad-hoc Reviewer, Journal of General Internal Medicine
2004-	Ad-hoc Reviewer
	New England Journal of Medicine
	Journal of Health Politics, Policy and Law
	Archives of General Psychiatry
2004-	Co-Editor, Psychiatric Services, Economic Grand Rounds Column
2006-	Ad-hoc Reviewer
	PharmacoEconomics
	American Journal of Managed Care
2008-	Ad-hoc Reviewer, Journal of the American Medical Association
2008-2013	Editorial Board Member, Medical Care Research and Review
2011	Ad-hoc Reviewer, Quarterly Journal of Economics
2011-2018	Editorial Board Member, Journal of Pain and Symptom Management

Honors and Prizes:

- 1992-1994 Trainee, Agency for Health Care Policy and Research
- 1994-1995 Trainee, National Institute of Mental Health
- 1996-1997 Fellow, Alfred P. Sloan Foundation

1998-1999	Fellow, Prudential Health Services
2002-2007	Recipient, National Institute for Mental Health K01 Career Development Award
2007-2011	Recipient, Robert Wood Johnson Foundation Investigator Award in Health Policy Research
2012	Recipient, AcademyHealth Noteworthy Article of the Year
2012	Nominee, Harvard Medical School Donald O'Hara Faculty Prize for Excellence in Teaching
	(Years I & II)
2012	Recipient, Medical Care Research and Review Best Paper of the Year
2013	Nominee, Harvard Medical School Donald O'Hara Faculty Prize for Excellence in Teaching
	(Years I & II)
2014	Nominee, Harvard Medical School Donald O'Hara Faculty Prize for Excellence in Teaching
	(Years I & II)
2017	Recipient, Barbara J. McNeil Faculty Award for Exceptional Institutional Service to Harvard
	Medical School and Harvard School of Dental Medicine
2023	Co-author, AcademyHealth Publication of the Year

<u>Report of Funded Projects:</u>

Past

1995-2000 Co-Investigator (Richard Frank) Brandeis University / National Institute on Drug Abuse Grant #U1 P50 DA10233

<u>Brandeis/Harvard Center for the Study of Managed Care and Drug Abuse Treatment</u> This project examines the choice of organization and contract structure of managed behavioral health care and estimates the response to contract features for a set of public and private insurance contracts.

1998-1999 Principal Investigator Center for Health Care Strategies, Inc./The Robert Wood Johnson Foundation Grant #ML 375

Procurement Strategies for Medicaid Managed Care Programs Serving Individuals with Chronic and Disabling Conditions

This study examines state and country strategies for the procurement of Medicaid managed care contracts to serve individuals with chronic and disabling conditions.

1998-1999 Research Fellow (Barbara McNeil) Prudential Health Services Research Fellowship

The Effects of Managed Mental Health Care

This project fosters collaboration between Prudential and Harvard and provides an opportunity for postdoctoral fellows and junior faculty to gain experience in health services research, and particularly in issues pertaining to managed care.

1999-2001 Co-Investigator (Richard Frank) Eli Lilly Foundation

Managed Care and Therapeutic Choice

This project examines the impact of benefit design (patient incentives), vendor contract provisions (managed care organization incentives), and provider payment, organization and contract features (provider incentives) on treatment choice for depression, anxiety disorder, and alcohol abuse.

1999-2006 Co-Investigator (Joseph Newhouse) Alfred P. Sloan Foundation Grant #98-12-7

Managed Care Industry Center

This grant funds the core of the Harvard Managed Care Industry Center. The purpose of the center is to train new researchers on the industry and to initiate collaborative studies to improve industry performance and to identify best practices. The Center's research focus is on the effects of risk-sharing on quality and outcomes of care for both managed care and managed behavioral health care.

2000-2002 Principal Investigator Robert Wood Johnson Foundation Grant #036415

The Impact of Medicare Financing Methods on End-of-Life Care

This study examines how different actors involved with providing end-of-life services perceive the strengths and limitations of the current Medicare financing system. In addition, the project explores the implications for future Medicare policy of the issues raised and ways in which the Medicare financing system might be changed to address any problems identified.

Northrop Grumman Corp. / DHHS Grant #S-26027

Evaluation of Parity in the Federal Employees Health Benefits Program

For this study evaluating the effects of requiring parity in coverage of mental health and general medical care services within the Federal Employees Health Benefits Program, the Harvard research team will have lead responsibility for constructing all analysis files based on administrative data for all analyses related to costs, utilization, access and quality. The Harvard team will also have responsibility for analysis of costs and utilization data in both the administrative data sets and for the survey research data. Harvard investigators will also participate in the survey design and analysis of patient satisfaction data. Members of the Harvard team will also work on health plan reviews, focus groups and site visits at OPM and eight health plans. Harvard investigators will be involved in the overall evaluation design, the writing of reports of findings and progress of the research. Harvard will also have responsibility for providing the government with analysis files and detailed documentation.

2000-2005 Co-Investigator (Richard Frank) Robert Wood Johnson Foundation Grant #039960

Organization and Financing of Primary Care Depression

The goal of this activity is to develop a set of economic incentives and organizational arrangements that support recent advances in the understanding of how depression is most effectively treated in a primary care context. Pursuing this overall goal requires engaging in a number of specific activities aimed at developing and specifying the economic model. There are five main activities: 1) Conduct a review of the literature on treating depression in primary care to identify what has been learned about how the economic and organizational context promote or hinder the effective treatment of depression. 2) Examine secondary data sets to identify common treatment patterns for depression in primary care. 3) Identify and familiarize ourselves with innovative treatment programs aimed at depression in the primary care setting. 4) Analyze the incentives and the organizational structures that promote adherence to appropriate clinical choices. 5) Specify a set of economic and organizational principles to be used in developing a demonstration program.

2001-2004 Co-Investigator (Richard Frank) Robert Wood Johnson Foundation Grant #42094

Impact of Incentive Formularies on Prescription Drug and Health Care Costs and Utilization

The fundamental question of how to balance costs, choice of drugs and innovations in the prescription drug area has become one of the more pressing challenges facing the management of health plans. We will trace the diffusion formulary arrangements and analyze factors that influence an employer's or managed care organization's (MCO) decision to use three-tiered formularies and other patient incentive arrangements. Descriptive and multivariate analysis will be used to study the importance of various factors on employer/health plan choices. This study will provide important information for both public and private policymakers on the impacts of one of the new private sector methods of managing pharmaceutical benefits on prescription drug use, pharmacy and total health care spending, and patterns of care.

2000-2005 Co-Investigator (Joseph Newhouse) Agency for Healthcare Research and Quality Grant #5 P01 HS10803

Structuring Markets and Competition in Health Care

This Program Project will develop and apply an overarching conceptual framework, drawn from economic theory, for understanding the roles of purchasers, plans, providers, and patients in a market environment characterized by which payers contract with health plans and plans by capitation. Managed care greatly expands the dimensions upon the market structure itself, which determines how payers, plans, and providers both contract and compete with each other. Alternative market structures have different effects on costs and clinical endpoints. Our Program Project will improve understanding of these effects. The R01 led by Dr. Huskamp examines two types of benefit carve-out arrangements (pharmacy carve-outs and mental health and substance abuse (MHSA) carve-outs) and explores their impacts, including any cost shifting that resulted from use of carve-outs.

2004 Principal Investigator Henry J. Kaiser Family Foundation Grant #02-1237-600

Analysis of the New Medicare Prescription Drug Law

This project analyzes the key features of the Medicare Modernization Act of 2003 and discusses implications of these features for cost, access, and quality of care for Medicare beneficiaries.

2004-2006 Principal Investigator Technical Assistance Collaborative / MacArthur Foundation Grant #03-78360-000-HCD <u>Variations in Quality of Depression Treatment among Specialty Mental Health Providers</u> This study uses claims data from a large managed behavioral health care organization to examine the provision of quality care within a network of specialty mental health providers.

2005-2007 Co-Investigator (Meredith Rosenthal) Robert Wood Johnson Foundation Grant #056107

Uptake and Impact of Health Risk Appraisals

Efforts to inform and motivate consumers to make better health and health care choices have diffused throughout the health care market. One of the central components of these consumer health management programs is the health risk appraisal (HRA). HRAs are structured surveys designed to identify a wide range of health risks, including genetic predispositions to disease, poor health habits, and lack of adherence to recommended care for a chronic condition. In this study, we explore the potential of HRAs to engage consumers in health improvement. In particular, we will examine the overall rates of HRA completion in a privately-insured population, the impact of a consumer financial incentive on HRA completion, the characteristics of consumers who opt to complete an HRA, and early effects of HRAs on utilization and health behavior.

2002-2008 Principal Investigator National Institute of Mental Health Grant #K01 MH66109

Economics of Formulary Design and Mental Health Policy

This Mentored Research Scientist Development Award would allow Dr. Haiden Huskamp, a health economist with expertise in mental health policy and economic institutions, to supplement her economic tools with the knowledge and skills needed to conduct clinically-relevant and policy-significant research on the economics of prescription drugs used in the treatment of mental illnesses. The specific aims of this career development proposal are to: 1) develop a greater understanding of clinical decision making related to the use of psychotropic drugs; 2) acquire basic knowledge of psychopharmacology; and 3) expand knowledge of the important economic institutions influencing the prescription drug market. In this undertaking, Dr. Huskamp will be guided by her sponsor, Richard Frank, PhD, and co-sponsors, Andrew Nierenberg, MD, and Ernst Berndt, PhD.

2008-2009 Principal Investigator Charles H. Farnsworth Trust, \$54,529

Hospice Utilization among Terminally Ill Nursing Home Residents in New England Communities

Using data from a large regional hospice serving nursing home residents in five New England states and data on nursing home characteristics and quality of care, we will document the variation in timing of hospice referral across nursing homes, identify patient characteristics and nursing home characteristics that are associated with earlier referral to hospice, and examine whether nursing homes that provide higher quality nursing care are more likely to make earlier referrals to hospice.

2005-2008 Co-Investigator (Sharon-Lise Normand) National Institute of Mental Health Grant #R01 MH061434

Modeling Treatment Use & Effectiveness in Mental Health

This application seeks continued support for a team of statisticians, economists, and clinicians to collaborate on the development and application of longitudinal hierarchical discrete choice models for understanding diffusion of mental health technologies and for causal inference. Dr. Huskamp does not have any effort budgeted for year two of this project. This project has a no-cost extension thru 7/31/09.

2008-2009 Co-Investigator (John Ayanian) National Cancer Institute Grant #U01 CA093324

Cancer Care Outcomes Research & Surveillance Consortium (CanCORS)

The objectives of the CanCORS initiative are to: 1) enhance monitoring and understanding of the processes of cancer care and patient-centered factors influencing prognosis in population-based cohorts of lung and colorectal cancer patients; 2) establish a system for examining the relationship of the processes of care to clinical and patient-centered outcomes, with emphasis on measuring the dissemination of state-of-the science interventions and their association with better quality outcomes in the general population of cancer patients; and 3) examine disparities in the receipt of state-of-the-science cancer care and factors that contribute to disparities in outcomes and identify ways to lessen those disparities. This project is in a no cost extension phase.

2009-2010 Multiple PI Medicare Payment Advisory Commission, \$43,682 (MedPAC) Contract # E4058946

Medicare Part D, Long-term Care Pharmacies, and Nursing Facilities

To assess the impact of Part D in the nursing home setting, we will conduct interviews of key stakeholders on the impact of Part D on medication access, care delivery, and quality of care outcomes for nursing home residents.

2007- 2011 Principal Investigator Robert Wood Johnson Foundation Investigator, \$252,901 Award in Health Policy Research Program Grant #60468

Has the Revolution Come and Gone? The Societal Value of New Psychotropic Drugs

The past two decades were a period of rapid development of new drug treatments for mental illness. Some believe these new drugs have brought about "revolutionary" changes in the treatment of mental illness. At the same time, the growth in psychotropic drug costs has been explosive. Rapid cost increases combined with high accounting profits have brought increased scrutiny to drug manufacturers over whether the drugs they produce are worth the costs. This project will compare the social costs and benefits of newer psychotropic drugs to assess their social value and then identify ways that the value of psychotropic drug spending can be increased.

2008-2011 Principal Investigator National Institute of Mental Health, \$663,553 Grant #R01 MH080797

Effects of Mental Health Parity on High-Cost and Severely-Ill Individuals

Mental health parity policies aim to protect individuals with severe mental illnesses against the catastrophic costs of seeking treatment, and, in doing so, increase efficiency and fairness in the insurance market. In 2001, all plans participating in the Federal Employees Health Benefits (FEHB) Program were required to offer coverage for MH/SA services on a par with general medical services. This study will: 1) assess whether individuals with high MH/SA expenditures disproportionately benefited from the comprehensive FEHB parity policy, 2) compare characteristics of high spenders before and after parity adoption, and 3) examine how parity affected the composition, intensity, and quality of treatment received

2010-2013 Co-Investigator Agency for HealthCare Research and Quality Grant # R01 HS018960

Assessing the Effect of FDA Advisories on Psychotropic Medications

This project will assess the impact of FDA safety advisories and black box warnings on prescription drug utilization by patients and physician prescribing patterns for three classes of psychotropic medications (antidepressants, antipsychotics, and stimulants).

2010-2013 Co-Investigator National Institutes of Health Grant # 1RC4MH092717

Accounting for Confounding Bias and Heterogeneity in Comparative Effectiveness

This proposal seeks to develop novel and generalizable methods for addressing these problems. Specifically, we will develop novel approaches for combining data from randomized trials, registries and/or claims-based data (taking advantage of the strengths of both RCT and observational data); extend the latest techniques for instrumental variable analysis; and develop novel simultaneous equation models to account for confounding that are less sensitive to assumptions than currently-used methods. In so doing, we will apply these methods to three important clinical examples: treatments for bipolar disorder for patients with psychiatric comorbidity, reformulations of existing psychiatric drug treatments, and the surgical repair for abdominal aortic aneurysm (AAA).

2009-2014 Co-Investigator National Institute on Aging Grant #PO1 AG032952

The Role of Private Plans in Medicare

The Program Project intends to undertake a fundamental examination of the economics of Medicare Part C, or Medicare Advantage (MA) from a framework grounded in economic theory. The Project is organized around five integrated component projects studying: 1) The factors influencing beneficiary choice of MA plan or traditional Medicare (TM); 2) How MA plans decide about entry and choose the overall generosity of benefits, depending upon Medicare payment policy; 3) Plans' choice of the mix or structure of their benefits in light of possible opportunities for efficiencies from integration and incentives for selection due to imperfect risk adjustment; (4) The consequences (spillovers) of plan choices about entry and practice patterns for beneficiaries in TM and non-Medicare populations; and 5) The design optimal payment, regulatory, and informational policies for MA plans.

2009-2014 Principal Investigator National Institute on Aging, \$855,595 Grant #R01 AG034085

Medicare Part D Plan Generosity & Dual-Eligible Nursing Home Residents

This study will examine the effect of Medicare Part D drug plan generosity on medication use and health outcomes for dual-eligible nursing home residents. We will combine drug utilization data from a large long term care pharmacy, data on health outcomes from the Minimum Data Set (MDS), and Medicare Part A hospitalization claims for the period 2005-2008.

2009-2014 Consortium PI Harvard Pilgrim Health Care / AHRQ, \$120,027 Grant #R01 HS018577-01

Drug Cost Containment Changes and Quality of Care for Mentally Ill Dual Enrollees

This study will examine the impact of the shift from Medicaid drug coverage to Medicare Part D among dual eligibles with schizophrenia or bipolar disorder.

2013-2015 Multi-PI Commonwealth Fund, \$178,011 Grant # 20130499

Impact of Accountable Care Organization Models with Risk Based Payments on Individuals with Mental Illness

This study assesses the effect of accountable care organization models on mental health service use and spending, and on total health care spending for individuals diagnosed with a mental illness, including those with multiple co-morbidities.

2013-2014 Co-Investigator Laura and John Arnold Foundation Health Care Markets and Regulation Lab: Seed Funding

Overall objective: To help the U.S. healthcare system move forward by providing critical evidence, analyses and tools necessary to design health care regulations and markets to promote high quality care and innovation at a

sustainable cost. Initial phase (seed) objectives include: (1) establish an organizational and governance structure, (2) set priorities within and between program areas, and (3) identify feasible, transformative projects

2012-2016 Multi-PI National Institute of Mental Health, \$ 1,172,397 Grant #R01 MH093359

Influences on Psychiatrist Prescribing of Antipsychotics

This project examines the factors that influence the speed with which psychiatrists adopt new antipsychotics and respond to new evidence on their comparative effectiveness and safety, including organizational factors, commercial influences, and policy levers.

2014-2016 Co-Investigator DHHS/Office for the Asst. Secretary for Planning and Evaluation (ASPE)

Healthcare Integration in Medicare Accountable Care Organizations

Using both quantitative and qualitative methods, this project will examine the impact of Accountable Care Organizations (ACOs) in Medicare on behavioral health care and outcomes and explore the extent to which ACOs target behavioral health conditions for value-enhancing changes in care management.

2012-2016 Co-Investigator National Cancer Institute Grant # R01CA164021

Explaining Variations in End-of-Life Care Intensity

This study will expand our understanding of the factors contributing to the high expenditures and intensity of end-of-life (EOL) care for individuals with advanced cancer and will help to identify the appropriate targets for strategies to address disparities in EOL care. If differences in EOL care intensity are primarily driven by physicians, local area practice patterns, and availability of services (e.g., intensive care beds), the findings will identify opportunities for interventions to assure that patients obtain care at the EOL that matches their preferences, and it will identify opportunities to decrease intensity of care in areas where such care is not driven by patients' preferences. If high-intensity EOL care is driven by patients' preferences, then it will be important

to assess if these are informed preferences and, if not, whether they can become informed preferences (e.g., preferences that may be modifiable through EOL discussions).

2014-2016 Co-Investigator American Cancer Society/University of North Carolina

Impact of Parity Legislation on Use and Costs of Oral Cancer Medications

Capitalizing on a natural experiment, we will use national health insurance claims data to estimate the impact of oral cancer medication parity legislation on the use and spending for cancer therapies. We will use a differencein-difference-in-difference modeling strategy to examine care before and after parity legislation in states that did and did not adopt parity legislation, and among patients who are or are not enrolled in self-insured plans that are exempt from state-level legislation. Analyses will focus on changes in overall and proportional use of oral cancer therapies (Aim 1); changes in spending on cancer treatment for patients and insurers (Aim 2); and changes in adherence to oral cancer medications (Aim 3).

2015-2016 Co-Investigator Vanderbilt University Sub u/d ASPE, \$43,897

Tracking the Impact of Ownership Changes in Hospice Care Provided to Medicare Beneficiaries

This project will examine hospice ownership and the impact of ownership changes on hospice utilization for Medicare beneficiaries at the end of life.

2012-2017 Co-Investigator National Institute of Mental Health, \$159,671 Grant # R01 MH093414

Implementation of Federal Mental Health Parity

In October 2008, the Paul Wellstone and Pete Domenici Mental Health Parity and Addiction Equity (MHPAE) Act was passed by the U.S. Congress. This law is the culmination of a decades-long effort to achieve comprehensive federal insurance parity. Advocates have raised concern related to how certain diagnoses and treatments will be covered under the law. Also, employers and health plans have indicated apprehensions about extending parity to out-of-network (OON) services. This study examines the effects of these specific provisions of the law.

2014-2017 Principal Investigator National Cancer Institute, \$270,500 Grant # R21 AG047175

Comparative Effectiveness of Treatment Regimens in Lung Cancer

In this study, we compare the morbidity and mortality of elderly Medicare patients with newly diagnosed extensive stage small cell cancer (ES SCC) ES SCL according to which one of the two standard first-line chemotherapy regimens they received. To do this, we apply sophisticated analytic methods (including propensity scores) to a Medicare-based data source to identify and then match elderly Medicare patients with ES SCLC who received the combination of drugs "cisplatin-etoposide" as first-line treatment of their cancer to otherwise similar elderly Medicare patients with ES SCLC who received a different combination of drugs "carboplatin-etoposide" as first-line treatment of their cancer. The results will be important to the field of comparative effectiveness research through our treatment of hospital-based health care (e.g., emergency room visits, hospitalizations, and intensive care use) as morbidity (i.e., a "toxicity" or "burden"). The results will also be immediately relevant to clinical geriatric oncology through provision of estimates of risk and benefit according to treatment and in so doing aid in patient-oncologist decision-making.

2013-2018 Multi-PI National Institute on Drug Abuse, \$1,585,657 Grant #R01 DA035214

Substance Use Disorder Treatment under New Payment and Delivery System Models

This study assesses the effect of global payment and accountable care as implemented through the Blue Cross and Blue Shield of Massachusetts' Alternative Quality Contract (AQC) initiative on changes in use, price, spending, and performance measures for substance use disorder (SUD) and nicotine dependence services.

2013-2018 Co-Investigator University of Pittsburgh / NHLBI, \$103,928 Grant # R01 H1119246

The Role of Physician Networks in the Adoption of New Prescription Drugs

This project would link data from multiple sources to: 1) examine the association at the regional-level between physician adoption of new drugs that treat cardiovascular disease (CVD), and CVD medication use and spending, and non-drug medical spending, and 2) examine the influence of physician characteristics and multiple types of professional networks on physician adoption of new CVD medications.

2014-2017 Co-Investigator Laura and John Arnold Foundation Health Care Markets and Regulation Lab

Overall objectives: (1) Initiate specific, innovative, high impact projects that have the potential to meaningfully support the transformation of the American Health Care system. Research areas include: quality measurement, payment and delivery system reform, consumer behavior, risk adjustment and exchanges. (2) Develop core resources to support the aforementioned projects, move forward on existing work and enhance the visibility and impact of lab activities.

2017-2018 Multi-P.I. Vanderbilt University Medical Center/ASPE, \$57,734 (Contract # HHSP233201700036C) <u>Trends in Nursing Home-Hospice Contracting and Common Ownership between Hospice Agencies and Nursing Homes</u>

This project will explore the dynamics of nursing home-hospice contracting and how it has evolved over time. A key focus of the research is to explore implications of joint ownership between hospice agencies and nursing homes.

2013-2019 Multi-PI NIH/NIMH, \$1,606,288 Grant # U01 MH103018

Technology Diffusion Pathways

This study will conduct an in-depth investigation of the patterns of diffusion of new technologies, including drugs, biologics, and devices, across organizations of different types, and assess the effects of a new model for organizing and financing health care that is encouraged under the Affordable Care Act (ACA) of 2010 – risk-based payments made to accountable care organizations (ACOs) – on spending for new technologies.

2017-2020 Co-Investigator Laura and John Arnold Foundation Health Care Markets and Regulation Lab

Overall objectives: (1) Initiate specific, innovative, high impact projects that have the potential to meaningfully support the transformation of the American Health Care system. Research areas include: quality measurement, payment and delivery system reform, consumer behavior, risk adjustment and exchanges. (2) Develop core resources to support the aforementioned projects, move forward on existing work and enhance the visibility and impact of lab activities

2019-2020 Multi-P.I. March Of Dimes, \$90,866

The Affordable Care Act and Low-Income Women.

This project will assess the impact on low-income women of losing coverage obtained under the Affordable Care Act.

2018-2020 Co-Investigator Vanderbilt University Medical Center Sub u/d Commonwealth Fund

Identifying Cost and Coverage Barriers to Medicare Beneficiary Access to Specialty Drugs

This study will describe recent trends in prices, Medicare Part D plan coverage, and cost sharing requirements for specialty drugs. The study will also identify rates of and factors associated with never filling, or experiencing delays in filling, prescribed specialty medications

2015-2021 Co-Investigator Brandeis University/ National Institute on Drug Abuse (Grant # P30 DA035772) Center to Improve System Performance of Substance Use Disorder Treatment

The Center will use research on payment methods and service delivery approaches to expand the research base on improving substance use disorder (SUD) care quality and reduce the cost of health care services, and to inform policy decisions that will profoundly affect the cost, quality and availability of SUD treatment services.

2017-2020 Multi-P.I. Vanderbilt University Medical Center/ASPE, \$103,709 (Contract # HHSP233201700050C)

Opioid Use in Nursing Homes

This project will examine recent trends in opioid prescribing among nursing home residents.

2018-2020 Co-Investigator Vanderbilt University Medical Center Sub u/d Leukemia and Lymphoma Society

Identifying Cost and Coverage Barriers to Medicare Beneficiary Access to Specialty Drugs

This study will describe recent trends in prices, Medicare Part D plan coverage, and cost sharing requirements for specialty drugs. The study will also identify rates of and factors associated with never filling, or experiencing delays in filling, prescribed specialty medications

2018-2022 Co-Investigator Johns Hopkins University / NIDA, \$61,423 (Grant # R01 DA044201)

Consumer-Directed Health Plans and Substance Use Disorder Treatment

This project will examine the impact of the shift toward consumer-directed health plans on use of substance use disorder treatment services.

2020-2022 Co-Investigator (Grant # 20202697) *co-funded The Commonwealth Fund (via VUMC)

Evaluating the Role of Rebates on Medicare Formulary Coverage, Market Share, and Patient and Plan Spending

We will document drug list and net price trends in Medicare and examine the relationship between average rebate size and Part D formulary placement, beneficiary cost sharing, and product market share within a drug class. We will also assess trends in list and net prices for Part D drugs after generic competition occurs and whether drugs with large rebates have more generous formulary coverage and less use of generic alternatives. Finally, we will explore pricing dynamics and market share for authorized generics (i.e., exact copies of branded drugs that exclude

the brand name from packaging), including their use relative to traditional brands and traditional generics for the same product.

2020-2022 Co-Investigator (Grant # 20-04272) *co-funded Arnold Ventures (via VUMC)

Evaluating the Role of Rebates on Medicare Formulary Coverage, Market Share, and Patient and Plan Spending

We will document drug list and net price trends in Medicare and examine the relationship between average rebate size and Part D formulary placement, beneficiary cost sharing, and product market share within a drug class. We will also assess trends in list and net prices for Part D drugs after generic competition occurs and whether drugs with large rebates have more generous formulary coverage and less use of generic alternatives. Finally, we will explore pricing dynamics and market share for authorized generics (i.e., exact copies of branded drugs that exclude the brand name from packaging), including their use relative to traditional brands and traditional generics for the same product.

Current:

2019-2024 Multi-P.I. NIH/NIDA, \$446,606 (Grant # R01 DA048533)

Telemedicine for Treatment of Opioid Use Disorder

This project is a comprehensive evaluation of telemedicine for opioid use disorder using Medicaid, Medicare, and commercial insurance data as well as a series of qualitative interviews.

2017-2026 Multi-PI National Institute of Mental Health \$514,756 (Grant # R01 MH112829)

Impact of Telemedicine on Medicare Beneficiaries with Mental Illness

Access to mental health specialists is difficult for many patients in the U.S., particularly for the poor and those who live in rural communities. Telemental health is one potential solution for this access problem. In the proposed project we will conduct a series of descriptive analyses to understand how telemental health is being

used and whether communities with greater telemental health penetration have experienced improvements in care for patients with mental illness.

2021-2025 Multi-P.I. NIH/NIAAA \$603,231 (Grant # 1R01AA029267)

Medications for Alcohol Use Disorder: Unfilled Prescriptions and Treatment Trajectories

Many individuals with alcohol use disorder (AUD) receive no treatment, including evidence-based medications. This study, using linked electronic health record data on medication orders and claims data (combined with qualitative methods), will allow more precise identification of where individuals fall off the path of AUD medication use.

2022-2026 Co-Investigator R01DA054601 Arizona State University u/d NIDA Unpacking Disparities in Opioid Use Disorder Treatment Quality

Few studies have undertaken more nuanced approaches to examining the quality of care for opioid use disorder (OUD) that take into account differences that may compound across dimensions such as race, ethnicity, gender, and age groups, referred to as intersectionality. This study will investigate differences in use of OUD treatments and the quality of OUD care by intersectional status and examine key drivers of those differences.

2022-2027 Multi-P.I. NIH/NIDA \$358,439 (Grant # 2P30DA035772) Center to Improve System Performance for Substance Use Disorder Treatment

This Core Center of Excellence (P30) conducts and extends research on substance use disorder (SUD) service delivery and payment methods to synergistically expand the research base – serving as a national resource to inform research as well as policy and practice decisions that will affect the cost, quality, equity, and availability of SUD treatment services – and supporting early career investigators in addiction health services research.

2023-2027 Multi-P.I. NIH/NIAAA \$505,027 (Grant # 1R01AA030539) Telehealth in the Treatment of Alcohol Use Disorders: Impact on Access, Disparities, and Quality of Care

Alcohol use disorder (AUD) is a major cause of illness, disability, and death, and there are longstanding challenges in barriers to and disparities in care. This mixed-methods study will examine how telehealth is being incorporated into AUD treatment and whether its use is associated with improved patient outcomes and equity.

Report of Local Teaching and Training

Teaching of Students in Courses:

1999-2005	HC704 Introduction to Health Care Policy Co-Director
	Approximately 25 first-year medical students Harvard Medical School, 1 two-hour session p/week for 14 weeks
2007-2009	HC750 Health Care Policy Co-Director 140 second-year medical students Harvard Medical School, 1 two-hour session p/week for 14 weeks
2010-2015	HC750 Health Care Policy Co-Director 140 first-year medical students Harvard Medical School, 5 two-hour sessions p/week for 4 weeks
2016-2017	Essentials of the Profession: Evidence, Ethics, Policy, and Social Medicine Co-Director 170 first-year medical and dental students Harvard Medical School, 12 two-hour sessions
2019-2021	Essentials of the Profession Small Group Leader 10-12 first-year medical and dental students Harvard Medical School, 8 one-hour sessions

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

1997-	Doctoral Seminar in Health Care Policy Harvard University Ph.D. Program in Health Policy 20-25 first-year doctoral students in Health Policy 1-4 lectures per year
1997-	Doctoral Seminar in Health Economics Harvard University Ph.D. Program in Health Policy 2-8 second-year doctoral students in Health Economics 1-2 lectures per year
2000-2001	Introduction to Health Care Policy Kennedy School of Government 25-30 masters' students in Public Policy 1 lecture per year
2004-2006	Introduction to the U.S. Health Care System Cambridge Hospital Integrated Clerkship Program 8-10 clerkship students 1 lecture per year
2005-2006	Introduction to Health Care Policy Beth Israel Deaconess Medical Center—Fellowship in Geriatric Medicine 8 fellows 3 lectures per year
2007	Medicare, Medicaid and Rising U.S. Health Care Costs Harvard Medical School/Brigham and Women's Hospital—Patient-Doctor III Tutorial 12-15 third-year medical students 1 lecture
2009-2010	Principal Investigator Ongoing mentoring sessions NIMH Pre- and Post-Doctoral Training Grant #T32MH019733 4 pre-doctoral and 2 post-doctoral trainees
2009	Pre- and Post-doctoral Seminar in Mental Health Policy 10 sessions 4 pre-doctoral and 2 post-doctoral trainees
2011	Private Health Insurance Partners HealthCare 15-30 resident physicians

2016	Mental Health Policy
	Harvard School of Public Health
	1 lecture
	40-50 masters' students
2018-	Principal Investigator
	Ongoing mentoring
	NIMH Pre- and Post-Doctoral Training Grant
	#T32MH019733
	4 pre-doctoral and 2 post-doctoral trainees
2018	Steering Committee Member
	Ongoing mentoring
	NCI Training in Oncology Population Sciences (TOPS)
	#T32CA09220317
	3 post-doctoral trainees
2019	Mental Health Policy (HLTHPOL3002)
2021	Co-Director
2023	Harvard Graduate School of Arts and Sciences
	10 sessions
	10-12 graduate students and post-doctoral fellows

Formally Supervised Trainees and Faculty:

1997-2000	Susan Busch, Ph.D. Professor, Dept. of Health Policy & Management Yale University School of Medicine
	Dissertation Committee Member—Supervised completion of three dissertation essays and two papers in peer reviewed journals
2000-2002	David Auerbach, Ph.D. Policy Researcher, RAND
	Dissertation Committee Member—Supervised completion of three dissertation essays
2001-2004	Colleen Barry, Ph.D. Fred and Julie Soper Professor and Chair Johns Hopkins Bloomberg School of Public Health Dept. of Health Policy and Management

	Dissertation Committee Member—Supervised completion of three dissertation essays and three papers in peer reviewed journals
2001-2002	Andrea Magyera Current position unknown
	Undergraduate Thesis Advisor for Harvard College—Supervised completion of senior thesis
2002-2004	Laura Eselius, Ph.D. Senior Fellow Deloitte Research
	Dissertation Committee Member—Supervised completion of three dissertation essays and one paper in peer reviewed journal
2003-2005	Stephanie Shimada, Ph.D. Research Assistant Professor of Health Policy and Management Boston University
	Dissertation Committee Member—Supervised completion of three dissertation essays and one paper in peer reviewed journal
2004-2007	Yuting Zhang, Ph.D. Associate Professor University of Pittsburgh, School of Public Health
	School of Public Health Dissertation Committee Member—Supervised completion of three dissertation essays and three papers in peer reviewed journals
2007-2009	Katy Backes Kozhimannil, Ph.D. Professor University of Minnesota School of Public Health
	Dissertation Committee Co-Chair—Supervised completion of three dissertation essays and two papers in peer reviewed journals (thus far)
2008	Samuel Kina Associate, Analysis Group
	Dissertation Committee Member
2008-2009	Jennifer Polinski

	Director Foundational Research
	CVS Caremark Corporation Dissertation Committee Member Supervised completion of three dissertation essays (student currently on maternity leave)
2008-2009	Kyle Gibler Partner McKinsey and Company
	Undergraduate Thesis Advisor for Harvard College—Supervised completion of senior thesis and one paper in peer-reviewed journal
2009	Marguerite Burns, Ph.D. Associate Professor University of Wisconsin-Madison School of Medicine and Public Health
	NIH K01 Career Development Award Mentor
2010	Meredith Chace Current Position Unknown
	Dissertation Committee Member
2010-2011	Sara Toomey, M.D. Assistant Professor in Pediatrics Harvard Medical School, Boston Children's Hospital
	NIH K01 Career Development Award Application Mentor
2010-2012	Stacie Dusetzina, Ph.D. Associate Professor Vanderbilt University
	Supervised Post-Doctoral Fellowship in Mental Health Policy Research
2013-2015	Kirstin Scott, M.D., Ph.D. Medical Resident University of Washington
	Dissertation Committee Member

2015-2016	Savannah Berguist, Ph.D. Post Doctoral Fellow Stanford University
	Advisor
2016	Yuhua Bao, Ph.D. Associate Professor Weill Cornell Medicine
	Member of Mentoring Committee
2016	Kelsey Berry, Ph.D. Lecturer in Global Health and Social Medicine Harvard Medical School
	Dissertation Committee Chair
2018-2020	Bryan Buckley, Sc.D. Student Harvard School of Public Health, DrPH Program
	Dissertation Committee Member
2019-	Rebecca Stewart, Ph.D. Research Associate University of Pennsylvania Perelman School of Medicine
	K23 Mentor
2020-	Benjamin Barsky, J.D. Student Harvard University
	Dissertation Committee Member
2022-	Marema Gaye Student Harvard University
	Dissertation Committee Member

Report of Regional, National and International Invited Teaching and Presentations

1996 Atlanta, GA	Managed Behavioral Health Care Carve-outs in the Private Sector	Presented original research Association for Health Services Research Annual Meeting
1996 Bethesda, MD	Risk Sharing Schemes in Managed Behavioral Health Care and the Incentives They Create	Presented original research National Institute of Mental Health Biennial Research Conference of the Economics of Mental Health
1997 Chicago, IL	Empirical Clues about the Consequences of Parity Legislation under Managed Care	Presented original research Association for Health Services Research Annual Meeting
1998 Bethesda, MD	Empirical Clues about the Consequences of Parity Legislation under Managed Care	Presented original research National Institute of Mental Health Biennial Research Conference of the Economics of Mental Health
1998 Washington, DC	Managed Care Incentives and Substance Abuse Treatment	Presented original research American Public Health Association Annual Meeting
1999 Rotterdam, Netherlands	Financial Incentives and the Treatment of Depression	Presented original research International Health Economics Association Biennial Conference
1999 San Francisco, CA	A Partnership to Study Financial Incentives, Mental Health and Substance Abuse Treatment and Workplace Performance	Invited panelist Business for Social Responsibility Annual Conference
2000 Washington, DC	The Medicare Prescription Drug Benefit: How Will the Game Be Played?	Invited panelist National Health Policy Forum
2000 Atlanta, GA	Medicare Financing of End-of-Life Care: Issues Raised by Providers and Suggestions for Change	Presented original research American Academy of Hospice and Palliative Medicine Annual Assembly

2000 Worcester, MA	The Economics of Mental Health	Presented educational lecture Massachusetts State Area Medical Directors
2000 New York, NY	Providing Care at the End of Life: An Assessment of Medicare Coverage and Reimbursement	Invited presenter Project on Death in America Advisory Board Meeting
2000 New York, NY	Providing Care at the End of Life: An Assessment of Medicare Coverage and Reimbursement	Presented original research First International Geriatric Palliative Care Congress
2000 Denver, CO	Economics of Mental Health	Presented educational lecture Harvard University/National Association of State Mental Health Program Directors Executive Training Program
2001 New Orleans, LA	Moving Market Share: Drug Formularies and Demand Elasticity	Presented original research American Economics Association Annual Meeting
2001 York, England	Carve-outs and Cost Shifting	Presented original research International Health Economics Association Biennial Conference
2001 Arlington, VA	Reference Pricing	Presented original research International Society for Pharmacoeconomics and Outcomes Research Annual International Meeting
2001 Bethesda, MD	What is Known about the Economics of End- of-Life Care for Medicare Beneficiaries?	Presented original research National Institutes of Health Integrative Workshop on End-of- Life Research
2002 Bethesda, MD	Economics of Drug Formularies	Presented original research National Institute of Mental Health Pharmacoeconomics Research Workshop
2002	Economics of Three-Tier Formularies	Invited presenter

Cambridge, MA		Harvard Medical School Conference on Health Economics in Managed Care
2002 Charlottesville, VA	Basics of Mental Health Economics	Invited presenter American Psychiatric Association Board of Trustees Retreat
2002 Denver, CO	Economics of Mental Health	Presented educational lecture Harvard University/National Association of State Mental Health Program Directors Executive Training Program
2003 Venice, Italy	The Impact of Three-tier Formularies on Prescription Drugs Used by Patients with Mental Illness	Presented original research International Center of Mental Health Policy and Economics Workshop on Costs and Assessment in Psychiatry
2003 Boston, MA	Economics of Three-tier Formularies	Invited presenter Boston University/Harvard University/Massachusetts Institute of Technology Joint Seminar on Health Economics
2003 Chicago, IL	Impact of Three-tier Formularies on Cost and Utilization Patterns	Invited presenter University of Chicago Harris School of Public Policy
2003 Chicago, IL	Impact of Incentive Formularies on Drug Utilization and Spending	Presented original research American Statistical Association International Conference on Health Policy Research
2003 Phoenix, AZ	Formulary Use in the Treatment of Depression	Invited presenter The Robert Wood Johnson Foundation's Annual Meeting of the Depression in Primary Care Program

2003 York, NY	Future Research Directions in Pediatric Palliative Care: Financing and Economics	Presented original research New New York Academy of Medicine, Initiative for Pediatric Palliative Care National Symposium
2003 Boston, MA	The Impact of Incentive Formularies	Invited presenter Harvard Medical School Conference on Health Economics in Managed Care
2004 New Haven, CT	The Impact of Three-Tier Formularies on Drug Treatment of Attention Deficit/Hyperactivity Disorder (ADHD) in Children	Invited presenter Yale University
2004 Waltham, MA	The Impact of Three-Tier Formularies on Drug Treatment of Attention Deficit/Hyperactivity Disorder (ADHD) in Children	Invited presenter Brandeis University
2004 Washington, DC	The New Medicare Drug Benefit: Potential Effects of Pharmacy Management Tools on Access to Medications	Invited presenter Henry J. Kaiser Family Foundation
2004 Chicago, IL	The Impact of Three-Tier Formularies on Cost and Patient Compliance	Presented original research Institute for International Research Pharmacy Cost Management Conference
2004 Washington, DC	The Impact of Three-Tier Formularies on Drug Treatment of ADHD in Children	Presented original research National Institute of Mental Health Twelfth Biennial Research Conference on the Economics of Mental Health
2004 Philadelphia, PA	Formularies and Cost Sharing Issues for Medicare Part D	Invited presenter The Robert Wood Johnson Foundation's State Coverage Initiatives' Invitational Summit for State Policy Makers on Medicare Part D Implementation Issues
2005	The Effect of Three-Tier Formulary on	Invited presenter

Washington, DC	Medication Continuation and Spending Among Elderly Retirees	RAND Health
2005 Bethesda, MD	Medicare Modernization Act and Prescription Drug Pricing	Presented original research National Institute of Mental Health Third Pharmacoeconomics Workshop
2005 Cambridge, MA	The Impact of Parity Mental Health and Substance Abuse Benefits in the Federal Employees' Health Benefits Program	Invited presenter Mathematica Policy Research
2005 Boston, MA	The Effect of Three-Tier Formulary Adoption on Medication Continuation and Spending Among Elderly Retirees	Presented original research AcademyHealth Annual Research Meeting
2005 Boston, MA	Medicare Modernization Act: The Impact of State Implementation Decisions	Presented original research AcademyHealth Annual Research Meeting
2005 Boston, MA	The Impact of Federal Employees' Health Benefits Program Parity on use and Cost Of Mental Health and Substance Abuse Services	Presented original research Academy Health Annual Research Meeting
2006 Boston, MA	The Effect of Incentive Formularies on Medication Continuation and Spending among Elderly Retirees	Invited presenter Harvard Medical School, Department of Ambulatory Care and Prevention
2006 Boston, MA	Utilization Patterns and Costs for One Large Hospice: Lessons for Medicare per Diem Payment System?	Invited presenter Harvard University, Robert Wood Johnson Foundation Scholars Program
2006 Bethesda, MD	Manufacturer Promotional Strategies for SSRIs	Presented original research National Institute of Mental Health Biennial Conference on the Economics of Mental Health
2006 Boston, MA	Square Peg, Round Hole? Medicare Part D and Nursing Homes	Invited presenter Beth Israel Deaconess Medical

Center, Gerontology Division Ground Rounds

2006 Boston, MA	The Impact of the Federal Employees' Health Benefits Program Mental Health Parity Policy on Use and Costs	Presented original research American Public Health Association Annual Meeting
2007 Washington, DC	Medicare Part D and Pharmacy Services to Residents of Nursing Homes," (joint with David Stevenson, Ph.D.)	Invited presenter Medicare Payment Advisory Commission
2007 Boston, MA	Hospice Decision Making by Advanced Lung Cancer Patients	Invited presenter Dana Farber Cancer Outcomes Research Seminar
2008 Boston, MA	Hospice Care Delivery and Costs: Is There a Better Way?	Invited presenter Boston Bar Association
2008 Washington, DC	Who Uses New Product Formulations of Psychiatric Medications?	Presented original research AcademyHealth Annual Research Meeting
2008 Boston, MA	Discussions about Hospice among Patients with Advanced Lung Cancer	Invited presenter National Cancer Institute Cancer Consortium Meeting
2008 Durham, NC	Who Uses New Product Formulations of Psychiatric Medications?	Presented original research American Society for Health Economists Biennial Conference
2008 Bethesda, MD	New Product Formulations of Antidepressants: What is the Social Value?	Presented original research National Institute of Mental Health Biennial Conference on the Economics of Mental Health
2008 New Haven, CT	New Product Formulations of Antidepressants: What is the Social Value?	Invited presenter Yale University School of Public Health
2009 Lausanne, Switzerland	Antidepressant Reformulations: Who Uses Them and What Are the Benefits?	Invited presenter University of Lausanne

2009 Chicago, IL	Discussions with Physicians about Hospice among Patients with Metastatic Lung Cancer	Presented original research AcademyHealth Annual Research Meeting
2009 Chapel Hill, NC	The Impact of Mental Health and Substance Abuse Parity: Are the Effects the Same for High and Low Spenders?	Invited presenter University of North Carolina, Chapel Hill School of Public Health
2010 Washington, DC	A New Medicare End of Life Benefit for Nursing Home Residents	Invited presenter Health Affairs press briefing
2010 Ithaca, NY	Physician Adoption of New Antipsychotic Medications	Presented original research American Society for Health Economists Biennial Conference
2010 Boston, MA	Physician Adoption of New Psychiatric Medications	Presented original research AcademyHealth Annual Research Meeting
2010 Boston, MA	Health Care Reform and Mental Health	Roundtable presenter AcademyHealth Annual Research Meeting
2010 Boston, MA	Medicare Part D and the Nursing Home Setting	Presented original research AcademyHealth Annual Research Meeting
2011 Ann Arbor, MI	Physician Adoption of New Psychiatric Medications	Invited presenter University of Michigan Department of Psychiatry Grand Rounds
2011 Philadelphia, PA	A New Medicare End of Life Benefit for Nursing Home Residents	Invited presenter National Palliative Care Summit
2011 Toronto, Canada	Part D Plan Generosity and Medication Use among Dually-eligible Nursing Home Residents	Presented original research International Health Economics Association 8 th World Congress
2012	Physician Adoption and Use of Antipsychotic	Presented original research

Orlando, FL	Medications	AcademyHealth Annual Research Meeting
2012 Boston, MA	Physician Prescribing Practices in the 21 st Century: A Case Study of Antipsychotics	Presented original research MGH Mongon Institute for Health Policy
2012 Boston, MA	Physician Prescribing Practices in the 21 st Century: A Case Study of Antipsychotics	Presented original research HMS Department of Population Medicine
2012 Boston, MA	Physician Prescribing Practices in the 21 st Century: A Case Study of Antipsychotics	Presented original research MGH Center for Child and Adolescent
2013 Baltimore, MD	Medicare Part D Plan Generosity and Medication Use among Dual Eligible Nursing Home Residents	Invited presenter AcademyHealth Annual Research Meeting
2013 Portland, OR	Substance Use Disorder Treatment under New Payment and Delivery Models	Presented original research Addiction Health Services Research Annual Meeting
2013 Boston, MA	Impact of Medicare Part D Coverage Restrictions on Nursing Home Resident Outcon	Presented original research nes American Public Health Association Annual Meeting
2013 Boston, MA	Mental Health and Substance Use Disorder Treatment under New Payment and Delivery Models	Presented original research Massachusetts General Hospital Grand Rounds
2014 Boston, MA	Mental Health and Substance Use Disorder Treatment under New Payment and Delivery Models	Presented original research Dartmouth College
2014 Providence, RI	Effects of a Global Payment and Accountable Care Model on Mental Health Service Use and Spending	Presented original research Brown University
2014 Los Angeles, CA	Effects of a Global Payment and Accountable Care Model on Substance Use Disorder Service Use and Spending	Presented original research American Society for Health Economists Biennial Conference

2014 San Diego, CA	Innovations in Hospice, Palliative Care, and Advanced Illness	Invited presenter AcademyHealth Annual Research Meeting
2014 Boston, MA	Effects of a Global Payment and Accountable Care Model on Substance Use Disorder Service Use and Spending	Presented original research Addiction Health Services Research Annual Meeting
2015 Venice, Italy	Physician Prescribing of Antipsychotics to Children and Adolescents	Presented original research Twelfth Workshop on Costs and Assessment for Psychiatry
2015 Boston, MA	Living the Best Life Possible: Doctor and Patient Conversations about Serious Illness and Mortality	Invited presenter The Forum: T.H. Chan School for Public Health
2015 Marina del Rey, CA	Effects of a Global Payment and Accountable Care Model on Tobacco Cessation Treatment Use and Spending	Presented original research Addiction Health Services Research Annual Meeting
2015 Miami, FL	Effects of a Global Payment and Accountable Care Model on Substance Use Disorder Service Use and Spending	Presented original research APPAM Annual Fall Research Conference
2016 Boston, MA	Opportunities and Challenges for Behavioral Health Care after Parity and the ACA	Keynote Speaker AcademyHealth Behavioral Health Services Research Interest Group Meeting
2017 Chicago, IL	Use of Medications for Opioid Use Disorder Among Commercially Insured Individuals,	Presented original research APPAM Annual Fall Research
2018 Rockville, MD	Predictors of Antipsychotic Drug Diffusion among U.S. Practices Treating Medicare Beneficiaries, 2008-2016	Presented original research NIMH Mental Health Services Research Conference
2018 Savannah, GA	Accountable Care Organization Participation Among Hospitals Offering Substance Use Disorder and Mental Health Services in 2016	Presented original research Addiction Health Services Research Conference
2018	How Is Telemedicine Being Used for Opioid	Presented original research

Savannah, GA	and Other Substance Use Disorders?	Addiction Health Services Research Conference
2018 Durham, NC	How is Telemedicine Being Used in Opioid and Other Substance Use Disorder Treatment?	Presented original research Duke University School of Medicine, Department of Population Sciences Seminar
2018 Atlanta, GA	How is Telemedicine Being Used in Opioid and Other Substance Use Disorder Treatment?	Presented original research Emory University School of Public Health Health Economics/ Health Policy Seminar
2018 Washington, DC	Research Update on End-of-Life Care Utilization and Spending	Presented original research National Academies of Science, Engineering and Medicine Roundtable on Quality of Care for People with Serious Illness
2019 Venice, Italy	How is Telemedicine Being Used in Opioid and Other Substance Use Disorder Treatment?	Presented original research Fourteenth Workshop on Costs and Assessment in Psychiatry
2019 Barcelona, Spain	How is Telemedicine Being Used in Opioid and Other Substance Use Disorder Treatment?	Presented original research APPAM International Research Conference
2019 Park City, UT	Medication Utilization for Alcohol Use Disorder in a Commercially-Insured Population	Presented original research Addiction Health Services Research Conference
2019 Cambridge, MA	Medication Utilization for Alcohol Use Disorder in a Commercially-Insured Population	Presented original research Mathematica Policy Research Seminar Series
2020 Providence, RI	Telemedicine Use for Substance Use Disorder Treatment before and during COVID-19	Presented original research Brown University School of Public Health
2020 Virtual	Telemedicine in the Era of COVID-19	Presented original research NIDA Special Interest Group

		on Telemedicine Seminar (joint with Ateev Mehrotra)		
2021 Virtual	Telehealth in Behavioral Health Care: Observations from Before and During the Pandemic	Presented original research Brandeis Harvard NIDA Center Symposium		
2021 Virtual	Key MOUD-related Coverage Provisions of Recent Federal Legislation: Private Coverage	Invited presentation NIDA Meeting on Research Needed to Advance the Impact of Medications for Opioid Use Disorder		
2021 Virtual	Telehealth for Alcohol Use Disorder (AUD) Treatment: Observations from Before and During the Pandemic	Presented original research Friends of NIAAA		
2022 Virtual	Clinical Perspectives for Transitioning SUD Treatment to Virtual Care Environment	Invited presentation National Academies of Medicine Action Collaborative on Countering the U.S. Opioid Epidemic Meeting on Telehealth & Virtual Care		
2023 Venice, Italy	Stimulant Initiation and the Use of Telemedicine for Children and Adults in the U.S.	Presented original research ICMPE Sixteenth Workshop on Costs and Assessment in Psychiatry		
2024 New York, NY	ADHD Medication Treatment in the Era of Telemedicine	Presented original research in Cornell Weill research seminar		
Report of Education of Patients and Service to the Community				
1996	Advisor	State of Arizona, Office of the Auditor General		
1996-1997	Member, Development Team for Technical Assistance Publication	U.S. Public Health Service, Substance Abuse and Mental Health Services Administration		
1997-1998	Member, Technical Advisory Panel	The Robert Wood Johnson		

		Foundation Home Care Research Initiative
1999-2000	Consultant, Veterans Administration Pharmacy Formulary Analysis Committee	Institute of Medicine
1999-2004	Co-Sponsor, Joint Seminar on Health Economics	Boston University, Harvard University, Massachusetts Institute of Technology
2000-2002	Member, Advocacy Committee	Coalition for Health Services Research
2001-2002	Member, Committee on Care for Children Who Die Their Families	Institute of Medicine and
2002-2009	Associate Member	MacArthur Foundation Network on Mental Health Policy
2002-2003	Chair, Behavioral Health Committee	AcademyHealth Annual Research Meeting
2003-	Member, Advisory Board, Policy Synthesis Project	Robert Wood Johnson Foundation
2005-2006	Member, Behavioral Health Committee	AcademyHealth Annual Research Meeting
2006-2007	Commission Member, Special Commission on Ambulatory Surgical Centers and Magnetic Resonance Imaging	Commonwealth of Massachusetts Senate and House of Representatives, Joint Committee on Health Care Financing
2006-2007	Member, Behavioral Health Committee	AcademyHealth Annual Research Meeting
2008	Member, Expert Panel on Evaluating Plan Management of the Medicare Drug Benefit	Medicare Payment Advisory Commission (MedPAC)
2008	Member, Consultation Team on Mental Health, Guide to Community Preventive Services	Centers for Disease Control and Prevention (CDC)
2008-2009	Chair, Behavioral Health Committee	AcademyHealth Annual Research Meeting

2009-2010	Member, Planning Committee	AcademyHealth Annual Research Meeting
2009-2010	Member, Committee on Accelerating Rare Diseases Research and Orphan Products Development	Institute of Medicine
2009-2011	Acting Director/Principal Investigator, Training Program in Mental Health Policy NIMH (T32 MH019733)	Harvard University
2010	Co-Chair, 15 th Biennial NIMH Mental Health and Economics Conference	National Institute of Mental Health
2011-2014	Member, Technical Expert Panel, CMS Hospice Payment Reform Project	Centers for Medicare & Medicaid Services (CMS)
2012-2017	Co-Director, Training Program in Mental Health Policy NIMH (T32 MH019733)	Harvard University
2014-2015	Member, Committee on Developing Evidence-Based Standards for Psychosocial Interventions for Mental Disorders	Institute of Medicine
2015-2016	Chair, Behavioral Health Committee	AcademyHealth Annual Research Meeting
2016-2022	Member, Roundtable on Quality Care for People With Serious Illness	National Academies of Science, Engineering, and Medicine
2017	Co-Chair, Financing and Payment Strategies to Support High-Quality Care for People with Serious Illness: A Workshop	National Academics of Science, Engineering, and Medicine
2017-	Director/Principal Investigator, Training Program in Mental Health Policy NIMH (T32 MH019733)	Harvard University
2021	Member, Medicare Advantage Value-based Insurance Design Hospice Network Adequacy Technical Expert Panel	Centers for Medicare and Medicaid Services (CMS)
2021-2022	Co-Chair, Behavioral Health Theme Leader for Annual Research Meeting	AcademyHealth

National Advisory Council on Alcohol Abuse and Alcoholism, DHHS, NIH, NIAAA

Publications:

- 1. **H.A. Huskamp** and J.P. Newhouse, "Is Health Spending Slowing Down?" *Health Affairs*, 13(5): 32-38, (1994).
- 2. R.G. Frank, **H.A. Huskamp**, T.G. McGuire and J.P. Newhouse, "Some Economics of Mental Health Carveouts," *Archives of General Psychiatry*, 53: 933-937, (1996).
- 3. R.G. Frank and **H.A. Huskamp**, "Shaping National Policy: Delegation and Decentralization of Mental Health Care," *Current Opinion in Psychiatry*, 9: 171-174, (1996).
- 4. **H.A. Huskamp**, V. Azzone and R.G. Frank, "Carve-outs, Women, and the Treatment of Depression," *Women's Health Issues*, 8(5): 267-282, (1998).
- 5. **H.A. Huskamp**, "How A Managed Behavioral Health Care Carve-Out and Benefit Expansion Affected Spending on Treatment Episodes," *Psychiatric Services*, 49(11): 1559-1562, (1998).
- 6. M.B. Rosenthal, R.D. Geraty, R.G. Frank and **H.A. Huskamp**, "Psychiatric Provider Practice Management Companies: Adding Value to Behavioral Health Care?" *Psychiatric Services*, 50(8): 1011-1013, (1999).
- 7. **H.A. Huskamp** and J.P. Newhouse, "Future Directions for the National Health Accounts," *Health Care Financing Review*, 21(2): 5-13, (1999).
- 8. **H.A. Huskamp**, "Episodes of Mental Health and Substance Abuse Treatment under a Managed Behavioral Health Care Carve-out," *Inquiry*, 36(2): 147-161, (1999).
- 9. **H.A. Huskamp**, M.B. Rosenthal, R.G. Frank and J.P. Newhouse, "The Medicare Prescription Drug Benefit: How Will the Game Be Played?" *Health Affairs*, 19(2): 8-23, (2000).
- K.W. Hanson, H.A. Huskamp, "State Health Care Reform: Behavioral Health Services Under Medicaid Managed Care: The Uncertain Implications of State Variation, *Psychiatric Services*, 52(4): 447-456, (2001).
- 11. **H.A. Huskamp**, D.W. Garnick, K.W. Hanson and C. Horgan, "The Impact of Medicaid Managed Care Plan Withdrawals on Behavioral Health Services," *Psychiatric Services*, 52(5): 600-604, (2001).
- 12. H.A. Huskamp, M.B. Buntin, V. Wang and J.P. Newhouse, "Providing Care at the End of Life: Do Medicare Rules Impede Good Care?" *Health Affairs*, 20(3): 204-211, (2001).

- 13. M.B. Rosenthal, B.E. Landon and **H.A. Huskamp**, "Managed Care and Market Power: Physician Organizations in Four Markets," *Health Affairs*, 20(5): 187-193, (2001).
- B.E. Landon, H.A. Huskamp, C. Tobias and A.M. Epstein, "The Evolution of Quality Management by State Medicaid Agencies: A National Survey of States with Comprehensive Managed Care Programs," *Joint Commission Journal on Quality Improvement*, 28(2): 72-82, (2002).
- 15. The Harvard Managed Care Industry Center Group (H. Bailit, D. Blumenthal, J. Buchanan, M. Beeuwkes Buntin, D. Caudry, P. Cleary, A. Epstein, P. Fitzgerald, R. Frank, H. Gorski, H. Huskamp, N. Keating, B. Landon, B. McNeil, J. Newhouse, M. Rosenthal, A. Zaslavsky). "Managed Care: An Industry Snapshot," *Inquiry* 39(3): 207-220, (2002).
- 16. M.B. Buntin and **H.A. Huskamp**, "What is Known About the Economics of End-of-Life Care for Medicare Beneficiaries?" *The Gerontologist*, Vol. 42, Special Issue III, 40-8, (2002).
- 17. H.A. Huskamp, A.M. Epstein and D. Blumenthal, "The Impact of a National Prescription Drug Formulary on Prices, Market Share, and Spending: Lessons for Medicare?" *Health Affairs*, 22(3): 149-158, (2003).
- 18. R.G. Frank, **H.A. Huskamp** and H.A. Pincus, "Aligning Incentives in the Treatment of Depression in Primary Care with Evidence-based Practice," *Psychiatric Services*, 54(5): 682-687, (2003).
- 19. H.A. Huskamp, "Managing Psychotropic Drug Costs: Will Formularies Work?" *Health Affairs*, 22(5): 8496, (2003).
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<u>Report</u>

Haiden Huskamp, Ph.D., is a health economist and the Henry J. Kaiser Professor of Health Care Policy. Dr. Huskamp has three primary areas of research: 1) mental health and substance use disorder policy; 2) prescription drug policy; and 3) the financing and utilization of end-of-life care services. She also serves as Co-Director of Harvard's National Institute of Mental Health (NIMH) T32 Pre- and Post-doctoral Training Program in Mental Health Policy.

Dr. Huskamp is Multi-Principal Investigator (MPI) on R01s funded by the National Institute on Drug Abuse (NIDA), the National Institute of Mental Health (NIMH), and the National Institute on Alcohol Abuse and Alcoholism (NIAAA) assessing the use of telemedicine for the treatment of opioid use disorder, mental illness, and alcohol use disorder. She also serves as MPI on an R01 funded by NIAAA on the prescribing and use of medications that treat alcohol use disorder. Dr. Huskamp serves as Co-director of the Brandeis/Harvard SPIRE Center (SUD Systems Performance Improvement Research and Engagement) Center, a NIDA-funded P30 center. She previously served as MPI for an R01 funded by NIMH focused on factors that influence physician adoption and use of antipsychotic medications and an R01 funded by NIDA assessing the effects of new payment and delivery models on substance use disorder treatment. She has published numerous papers on the impact of managed care for behavioral health services on utilization patterns, costs, and quality of care and on the impact of parity in insurance coverage for behavioral health services. Dr. Huskamp previously served as a

member of the Institute of Medicine Committee on Developing Evidence-Based Standards for Psychosocial Interventions for Mental Disorders. She currently serves as a member of the NIAAA National Advisory Council on Alcohol Abuse and Alcoholism.

Dr. Huskamp is an expert on the impact of pharmacy management tools used to control prescription drug costs on drug utilization, cost, and quality of care. She has conducted a number of studies examining the link between prescription drug benefit design, patient out-of-pocket costs, and medication adherence for individuals who use high-cost medications. Through a Robert Wood Johnson Foundation Investigator Award in Health Policy Research, Dr. Huskamp previously examined the social costs and benefits of newer psychotropic drugs to assess their social value and identify ways that the value of psychotropic drug spending can be increased. She previously served as MPI on a NIMH-funded U01 grant examining characteristics of provider organizations that influence the diffusion of new technologies, including prescription drugs. Dr. Huskamp served as a member of the Institute of Medicine Committee on Accelerating Rare Diseases Research and Orphan Products Development.

Dr. Huskamp's research on end-of-life care has examined the changing characteristics of the hospice industry and the effects of industry changes on the provision of end-of-life care, the timing of discussions about hospice care that occur between physicians and patients with advanced illness, and variation in hospice costs across hospice users. She served as a member of the Institute of Medicine Committee on Care for Children Who Die and Their Families and a member of the National Academy of Medicine Roundtable on Quality Care for People with Serious Illness.