

## CURRICULUM VITAE

**Date Prepared:** January 2023  
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### Education

1989	B.S.	Biochemistry, in Honors	Virginia Tech
1993	M.D.	Medicine	University of Chicago Pritzker School of Medicine
1998	M.P.H.	Public Health, Clinical Effectiveness	Harvard School of Public Health

### Postdoctoral Training

#### *Internship and Residencies*

1993-1994	Intern in Medicine	Brigham and Women's Hospital	Boston, MA
1994-1996	Resident in Medicine	Brigham and Women's Hospital	Boston, MA

#### *Clinical and Research Fellowships*

1993-1996	Clinical Fellow in Medicine	Harvard Medical School	Boston, MA
1996-1998	Fellow, Harvard Faculty Development and Fellowship Program in General Internal Medicine	Brigham and Women's Hospital	Boston, MA
1996-1998	Fellow, Department of Health Care Policy	Harvard Medical School	Boston, MA

### Faculty Academic Appointments

1998-2003	Instructor in Health Care Policy	Health Care Policy	Harvard Medical School
1998-2003	Instructor in Medicine	Medicine	Harvard Medical School
2003-2007	Assistant Professor of Health Care Policy	Health Care Policy	Harvard Medical School
2003-2007	Assistant Professor of Medicine	Medicine	Harvard Medical School
2007-2014	Associate Professor of Health Care Policy	Health Care Policy	Harvard Medical School
2007-2014	Associate Professor of Medicine	Medicine	Harvard Medical School
2014-	Professor of Health Care Policy	Health Care Policy	Harvard Medical School
2014-	Professor of Medicine	Medicine	Harvard Medical School

## **Appointments at Hospitals/Affiliated Institutions**

1996-	Associate Physician	Department of Medicine	Brigham and Women's Hospital
1998-	Consulting Staff	Department of Medical Oncology	Dana-Farber Cancer Institute
2002-	Associate Physician	Department of Medicine	Faulkner Hospital
2022-	Associate Faculty	Ariadne Labs	Brigham and Women's Hospital and Harvard TH Chan School of Public Health

## **Major Administrative Leadership Positions**

### **Local**

2012-	Team Leader, Phyllis Jen Center for Primary Care	Harvard Medical School Primary Care Collaborative and Brigham and Women's Hospital
2013-2021	Program Co-Leader, Cancer Care Delivery Research Program	Dana-Farber/Harvard Cancer Center
2021-	Program Leader, Cancer Care Delivery Research Program	Dana-Farber/Harvard Cancer Center
2017-	Program Co-Director, Training in Oncology Population Sciences T32 Program	Dana-Farber/Harvard Cancer Center

## **Committee Service**

### **Local**

1989-1990	Liaison Committee for Medical Education Task Force	University of Chicago Pritzker School of Medicine
1989-1990	Member	
1990-1993	Dean's Council	University of Chicago Pritzker School of Medicine
1990-1993	Class Representative	
1990-1993	Pritzker School of Medicine Committee on Admissions	University of Chicago Pritzker School of Medicine
1990-1993	Interviewer	
1992-1993	Student Member	
1992	Orientation to the Clinical Biennium Committee	University of Chicago Pritzker School of Medicine
1992	Chairman and cofounder	
1993-1996, 2001-	Intern Selection Committee, BWH Residency Program	Brigham and Women's Hospital
1993-1996	Resident Member	
2001-	Member	
1995-1996	Evidence Based Medicine Journal Club	Brigham and Women's Hospital
1995-1996	Coordinator	
1997-	Faculty Discussion Leader	
1996-1998	General Medicine Fellows' Seminar	Brigham and Women's Hospital
1996-1998	Coordinator	
1999-	Division of General Internal Medicine Faculty Journal Club	Brigham and Women's Hospital
1999-	Coordinator	

1999-	Brigham Internal Medicine Associates Study Review Committee	Brigham and Women's Hospital
	1999- Member and Chair	
2000-2003, 2009-2010	Faculty Search Committee, Division of General Medicine	Brigham and Women's Hospital
	2000-2003 Member	
	2009-2010 Member	
2004-2005, 2014-	Harvard Medical School Faculty Council	Harvard Medical School
	2004-2005 Member	
	2014- Member	
2005	Faculty Development Program for Physicians and Scientists	Harvard Medical School
	2005 Participant	
2008-	Longitudinal Medical Record Expert Panel	Brigham and Women's Hospital
	2008- Member	
2008-	Dana-Farber/Harvard Cancer Center Outcomes Research Program	Dana-Farber/Harvard Cancer Center
	2008- Member	
	2013- Co-Program Leader	
2009-2010	BWH Faculty Mentoring Leadership Program	Brigham and Women's Hospital
	2009-2010 Participant	
2010-	Population Sciences Core Scientific Advisory Board	Dana-Farber Cancer Center
	2010- Member	
2010-	Crimson Care Collaborative Scientific Advisory Board	Harvard Medical School
	2010- Member	
2010-2011	Faculty Search Committee, Department of Health Care Policy	Harvard Medical School
2013-2014, 2016-2017		
	2010-2011 Member	
	2013-2014 Member	
	2016-2017 Member	
2011, 2015	Harvard Medical School Honors Committee	Harvard Medical School
	2011, 2015 Expert reader/examiner	
2011-	Joint Committee on the Status of Women	Harvard Medical School
	2011- Member	
2011-	Advisory Committee on Health Policy and Health Services Research, Scholars in Medicine Program	Harvard Medical School
	2011- Member	
2012-2017	Program in Cancer Outcomes Research Training Fellowship Advisory Committee	Dana-Farber/Harvard Cancer Center
	2012-2017 Member	
2012-	Primary Care Collaborative	Phyllis Jen Center, Brigham and Women's and Harvard Medical School
	2012- Team Leader	
2013, 2015, 2016	Student Honors Thesis Committee	Harvard Medical School
	2013 Member	
	2015 Member	
	2016 Member	

2013	Quality of Care Task Force 2013 Member	Dana-Farber/Brigham and Women's Cancer Center
2015-	Committee to Review Interim Title IX Procedures with Respect to the Faculty of Medicine 2015- Member	Harvard Medical School
2015-	Harvard Medical School Council of Mentors 2015- Member	Harvard Medical School
2015-2018	Standing Committee on Promotions, Reappointments, and Appointments 2015-2018 Member	Harvard Medical School
2015-2016	Faculty Search Committee, Peter L. Goss Chair in General Internal Medicine 2015-2016 Member	Massachusetts General Hospital
2016	Harvard Tenure Review Ad Hoc Committee 2016 Member	Harvard University
2016-2017	Faculty Search Committee, Department of Health Care Policy 2016-2017 Member	Harvard Medical School
2017-2018	Task Force on Promotion Criteria for Clinical Expertise and Innovation and Teaching and Educational Leadership 2017-2018 Member	Harvard Medical School
2017-	2017-2018 Subcommittee Chair External Advisory Committee for NCI T32 "Training Program in Cancer Biology" 2017 Member	Massachusetts General Hospital Cancer Center
2017-2018	Faculty Search Committee, Director of the Mongan Institute 2017-2018 Member	Massachusetts General Hospital
2018-	Selection Committee, Program Award for Culture of Excellence in Mentoring 2018- Member	Harvard Medical School
2018-	Subcommittee of Professors Promotions Committee 2018- Member	Harvard Medical School
2018-	Connors Center First-in-Women Precision Medicine Platform 2018- Expert Consultant	Brigham and Women's Hospital Connors Center for Women's Health and Gender Biology
2019	Selection Committee, Program Award for Excellence in Culture of Mentoring Awards 2019 Member	Harvard Medical School
2021	Anti-Bullying Policy Working Group 2021 Member	Harvard University
2021	Breast Program Retreat: Clinical Research in Breast Cancer: Prioritizing Diversity, Maximizing Inclusion, Making it Happen 2021 Co-Chair	Dana-Farber/Harvard Cancer Center

2021-2022	Faculty Search Committee, Director of the Center for Health Equity Research	Beth Israel Deaconess Medical Center
	2021-2022 Member	
2021-2022	Faculty Search Committee, Junior Faculty Member	Dana-Farber Cancer Institute Division of Population Sciences
	2021-2022 Member	
2021-	Equitable Patient Care Change Group	Department of Medicine, Brigham and Women's Hospital
	2021-2022 Member	
<b>Regional</b>		
2005-2007	Evaluation Project Expert Panel	Massachusetts Women's Health Network
	2005-2007 Member	
2016-	Massachusetts Cancer Registry Advisory Committee	Massachusetts Cancer Registry
	2016- Member	
<b>National</b>		
2000-2003	Selection Committee	Blue Cross Blue Shield National Awards for Best Practices
	2000-2003 Member	
2004-2006	Breast Cancer Technical Panel	National Quality Forum
	2004-2006 Member	
2005	Evidence-Based Practice Center: The Periodic Health Exam	Johns Hopkins University
	2005 Technical Expert	
2008-	National Comprehensive Cancer Network Senior Oncology Guideline Panel	National Comprehensive Cancer Network
	2008- Panel Member	
2008	Writing Group for the American Heart Association Scientific Statement on Androgen Deprivation Therapy and Cardiovascular Risk	American Heart Association
	2008 Panel Member	
2010	NIH State-of-the-Science Conference: <i>Enhancing Use and Quality of Colorectal Cancer Screening</i>	National Institutes of Health
	2010 Panel Member	
2010-2013	Blue Cross and Blue Shield Association Blue Distinction Cancer Recognition Programs	Blue Cross and Blue Shield Association
	2010-2013 Consultant Panel Member	
2010-2017	Androgen Deprivation Therapy for Prostate Cancer	Informed Medical Decisions Foundation
	2010-2017 Medical Editor	
2011-2014	Clinical Practice Guidelines Committee	American Society of Clinical Oncology
	2011-2014 Panel Member	
2012	Provider Survey Initiative Expert Panel	National Cancer Institute
	2012 Panel Member	
2013-2017	Cancer Research Network External Advisory Panel	Cancer Research Network
	2013-2017 Panel Member	
2013-2014	External Scientific Peer Review Committee, Surveillance & Health Services Research Program	American Cancer Society

2013	2013-2014 Panel Member Economics of Innovation Workgroup	Leukemia and Lymphoma Society
2014-2015	2013 Panel Member Review of Clinical Guidance for the Care of Health Conditions Identified by the Camp Lejeune Legislation	Institute of Medicine
2014-	2014-2015 Committee Member Early Detection & Screening Section for Susan G Komen’s consumer education website <i>Understanding Breast Cancer</i>	Susan G Komen for the Cure Foundation
2014-2015	2014- Faculty Reviewer Advisory Board on Prostate Cancer Survivorship	Prostate Cancer Foundation
2015-2016	2014-2015 Member Search Committee, National Cancer Institute Associate Director for Healthcare Delivery Research Program	National Cancer Institute
2015-2017	2015- 2016 Member External Advisory Panel for “ <i>The National Survey of Precision Medicine in Cancer Treatment</i> ”	National Cancer Institute
2018	2015- 2017 Member Alumni Awards Committee	University of Chicago
2018-2019	2018 Member Oncology Quality Measure Development National Advisory Board	Tufts Medical Center
2019-	2018-2019 Member Technical Expert Panel on Patient Attribution	Alliance of Dedicated Cancer Centers (ADCC) Quality
2019-2021	2019- Member Data Safety and Monitoring Board	Leveraging the Electronic Health Record to Nudge Clinicians to Prescribe Evidence- Based Statin Medications to Reduce the Risk of Cardiovascular Disease
2019-	2019-2021 Member External Advisory Board	University of Michigan Rogel Cancer Center
2019-2021	2019-2021 Member Committee on Diagnosing and Treating Adult Cancers	National Academies of Sciences, Engineering, and Medicine
2020	2019-2021 Member Economics of Cancer Care: Survivorship/Supportive Care Working Group	National Cancer Institute
2021	2020 Member Systems Science & Design Committee to Expand Blumberg Distinguished Professorships Program	Johns Hopkins University
2021-	2020 Member National Academy of Medicine Workshop Proceedings	National Academy of Medicine
2022	2021 Reviewer PhD external examiner	Dartmouth University

2023- 2023-	Quality Measures Concept Development Panel Member	Society for Immunotherapy of Cancer (SITC)
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**International**

2010-2014	Global Task Force on Expanded Access to Cancer Care and Control in the Developing World	Global Task Force on Expanded Access to Cancer Care and Control in the Developing World
2014-	2010-2014 Technical Advisory Committee Commission on Global Access to Pain Control and Palliative Care	Harvard Global Equity Initiative and the Lancet
2015	2014- Scientific Advisory Committee Expert Panel, Breast Cancer Awareness Initiative in China	Harvard Global Equity Initiative and the Susan G. Komen Foundation
2017-	2015 Panel Member Academic Reference Group Panel	International Cancer Benchmarking Partnership
2021-2024	2017- Panel Member Lancet Commission on Cancer and Health Systems	Lancet
	2021-2024 Commissioner	

**Professional Societies**

**1993-1999, American Medical Association**

2007-	1993-1999 Member
	2007- Member

**1993- Massachusetts Medical Society**

1993-	Member
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**1996- Society of General Internal Medicine**

1996-	Member
1999-	Annual Meeting Scientific Abstract Selection Committee (subcommittee chair or co-chair in 2002, 2004-2005, 2008, 2010-2012, 2014, 2016)
2000-	Annual Meeting Workshop Review Committee
2001-2012, 2014-2017	Judge, Associates Award and Junior Faculty Award
2003-2004	Program Chair, 27 <sup>th</sup> Annual Meeting
2004-2009	Coordinator, ABIM Continuous Professional Development Self-Evaluation Process Session at Annual Meeting
2006, 2014, 2015	SGIM Outstanding Junior Investigator Award Committee
2007-2009	Member, Finance Committee
2008	Member, Elnora Rhodes Award Selection Committee
2008-	Mentor, One-on-One Mentoring Program at Annual Meeting
2009-2012	Elected representative, Council
2009-2011	Member, Capital Campaign Committee
2009-2012	Council Liaison, Evidence Based Medicine Task Force
2009-2010	Council Liaison, Geriatrics Task Force
2010-2012	Council Liaison, Research Committee

2011, 2019 Member, Glaser Award Selection Committee  
 2012- Member, Health Policy Committee  
 2013- Member, Health Policy Executive Committee  
 2013-2015, Co-chair, Research Subcommittee, Health Policy Committee  
 2020-  
 2015-2019 Chair, Research Subcommittee, Health Policy Committee  
 2016- Program Faculty, Leadership in Health Policy (LEAHP) Program

**1996- American College of Physicians**

1996-2006 Member  
 2006- Fellow

**1997- Academy Health (prior Association for Health Services Research)**

1997- Member  
 2006, 2008, Annual Meeting Scientific Abstract Selection Committee  
 2009

**2007- American Society of Clinical Oncology**

2007- Member  
 2011-2014 Clinical Practice Guidelines Committee Member

**2010- American Cancer Society Cancer Action Network**

2010- Member

**2011- American Society for Clinical Investigation**

2011- Member  
 2012- Abstract reviewer

**2017- Association of American Physicians**

2017- Member

**2019- International Society of Geriatric Oncology**

2019- Member

**Grant Review Activities**

2002,2003,	Scientific Review Committee	California Breast Cancer Research
2005	2002, 2005 Ad-hoc Grant Reviewer	Program
	2003 Grant Reviewer	
2002	Scientific Review Committee	National Cancer Institute
	2002 Ad-hoc Grant Reviewer	
2005	Special Emphasis Panel	CDC National Center for Chronic
		Disease
	2005 Grant Reviewer	Prevention & Health Promotion
2006-2007	Psychosocial and Behavioral Research Review	American Cancer Society
	Committee	



	2006-2007	Member	
2007-2011	Health Services Research Scientific Review Committee		American Cancer Society
	2007-2010	Member	
	2010-2011	Ad-hoc Grant Reviewer	
2008	Challenge Award Scientific Review Committee		Prostate Cancer Foundation
	2008	Member	
2010	Special Emphasis Panel “Methodology and Measurement in the Behavioral and Social Sciences”		National Institutes of Health
	2010	Grant Reviewer	
2010	Scientific Review Committee		Dutch Cancer Society
	2010	Ad-hoc Grant Reviewer	
2011-2012	Cancer Risk and Disparities Program Review Panel		Dana-Farber/Harvard Cancer Center
	2011	Co-Chair	
	2012	Grant Reviewer	
2012	Harvard Catalyst Advanced Imaging Pilot Research Grants and Concept Development Awards Program		Harvard Catalyst
	2012	Grant Reviewer	
2012	Scientific Review Committee, “Applying Behavioral Economics to Perplexing Health and Health Care Problems”		Robert Wood Johnson
	2012	Grant reviewer	
2012-	Scientific Review Committee, Dana-Farber/Harvard Cancer Center U54 Partnership Pilot Program		Dana-Farber/Harvard Cancer Center
	2012	Grant reviewer	
	2013	Grant reviewer	
2013	Scientific Review Committee, Young Investigator Award		Prostate Cancer Foundation
	2013	Grant reviewer	
2016	Special Emphasis Panel, NCI Provocative Questions #12		National Cancer Institute
	2016	Grant reviewer	
2019	Scientific Review Committee, RFA-CA-18-017 entitled "NCI Community Oncology Research Program (NCORP) Minority/Underserved Community Sites (UG1 Clinical Trial Required)”		National Cancer Institute
	2019	Grant reviewer	

2020	Scientific Review Committee, Pennsylvania Department of Health Final Performance Reviews (Cycle 19-20A) 2020 Grant reviewer	Pennsylvania Department of Public Health
2021	Scientific Review Committee, RFA-CA-20-048 entitled “The NCI Predoctoral to Postdoctoral Fellow Transition Award (F99/K00)” 2021 Grant reviewer	National Cancer Institute

### **Editorial Activities**

#### **Ad hoc Reviewer (reviews since late 2017 accessible on publons.com)**

*Health Affairs*  
*Western Journal of Medicine*  
*Journal of General Internal Medicine*  
*Cancer*  
*Health Services Research*  
*Medical Care*  
*Journal of Clinical Oncology*  
*American Journal of Medicine*  
*Milbank Quarterly*  
*Journal of the American Medical Association*  
*Annals of Internal Medicine*  
*Annals of Family Medicine*  
*International Journal for Quality in Health Care*  
*JAMA Internal Medicine*  
*Diabetes Care*  
*American Journal of Managed Care*  
*Journal of Palliative Medicine*  
*New England Journal of Medicine*  
*Journal of the National Cancer Institute*  
*Medical Decision Making*  
*Journal of Geriatric Oncology*  
*Urology*  
*Circulation*  
*International Journal of Radiation Oncology, Biology, Physics*  
*Cancer Epidemiology, Biomarkers, and Prevention*  
*JAMA Psychiatry*  
*Healthcare: The Journal of Delivery Science and Innovation*  
*Journal of Pain and Symptom Management*  
*JAMA Oncology*  
*Lancet Oncology*  
*Prostate Cancer and Prostatic Diseases*  
*Annals of Surgical Oncology*  
*Journal of Cancer Survivorship: Research and Practice*  
*PLOS-ONE*  
*JCO Clinical Cancer Informatics*

*Journal of Global Oncology*  
*Journal of Women's Health*  
*The BMJ*  
*Journal of Oncology Practice*  
*PNAS*  
*Annals of Family Medicine*

### **Other Editorial Roles**

2004-2012	Member, Editorial Board	<i>Harvard Health Letter</i>
2007-2010	Member, Editorial Board	<i>Journal of Clinical Oncology</i>
2011-2020	Member, Editorial Board	<i>Journal of Geriatric Oncology</i>
2012-	Member, Advisory Board	<i>Harvard Medical School Newsletters for the Public</i>
2015-	Associate Editor	<i>Journal of the National Cancer Institute</i>
2016-2017	Guest Editor: The Affordable Care Act and Cancer Care	<i>The Cancer Journal</i>
2021-	Member, Advisory Board	<i>Journal of Geriatric Oncology</i>

### **Honors and Prizes**

1988	Phi Beta Kappa	Virginia Tech	
1989	Outstanding Senior in Department of Biochemistry	Virginia Tech	
1989	B.S. Summa Cum Laude	Virginia Tech	
1990	Ciba Geigy Research Award	University of Chicago	
1991	Research Award	International Society for Cardiovascular Surgery	
1992	Alpha Omega Alpha Honor Society	University of Chicago	
1993	Award for Scholastic Achievement	American Medical Women's Association	
1993	Joseph A. Capps Award for Outstanding Proficiency in Clinical Medicine	University of Chicago	Outstanding Clinical Achievement
1997	Mack Lipkin Sr. Associates Award	Society of General Internal Medicine	Outstanding Research Presentation at National Meeting
1999	Clinical Scientist Award	Doris Duke Charitable Foundation	National Research Award
2000	Milton Hamolsky Junior Faculty Award	Society of General Internal Medicine	Outstanding Research Presentation at National Meeting
2002	Author of "Best of JGIM" article	Journal of General Internal Medicine	Recognition of one of most accessed articles
2005	Outstanding Junior Investigator of the Year	Society of General Internal Medicine	
2006	Fellow, American College of Physicians	American College of Physicians	
2010	American Society for Clinical Investigation	American Society for Clinical Investigation	Honor society of young physician-scientists

2011, 2013, 2015, 2017	Excellence in Tutoring Award	Harvard Medical School	Recognition of outstanding tutorial facilitation, Health Policy 750
2015	A. Clifford Barger Excellence in Mentoring Award	Harvard Medical School	Recognition of outstanding mentoring
2015	Nominee, Excellence in Mentoring Award	Brigham and Women's Hospital	Recognition of outstanding mentoring
2016	Visiting Professor in Cancer Outcomes and Health Services Research	Johns Hopkins University	
2016	Author of one of "Top Cited Articles of 2013"	Journal of the National Cancer Institute	Recognition of one of journal's most cited articles
2016	Best Abstract in Aging, Disability, and End of Life	Academy Health	
2017	Top Performing Reviewer for Cancer	Cancer	Top 2% of reviewers in period 9/1/16-8/31/17
2017	Association of American Physicians	Association of American Physicians	Honor society of senior physician-scientists
2018	Nominee, Distinguished Service Award	University of Chicago Alumni Association	Recognition of alumni who has brought honor and distinction to University of Chicago
2019	Top Ten Article of 2018	Health Affairs	Recognition of article as one of 10 best published by Health Affairs in 2018
2022	Charles Donahue Lecture	Boston University School of Public Health	Presentation at endowed annual lectureship
2022	SGIM John M. Eisenberg Award for Career Achievement in Research	Society of General Internal Medicine	
2022	Top Ten Article of 2022	Health Affairs	Recognition of article as one of 10 best published by Health Affairs in 2022

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

### **Funding Information**

#### **Past**

1996-1998	PI	Brigham and Women's Hospital The Primary Care Education Fund	\$3782
		Physicians Experiences and Beliefs Regarding Informal Consultation Survey of a state-wide sample of physicians about use of informal consultation in clinical practice	
1998-1999	Research Fellow	Prudential Health Care Prudential Health Services Research Fellowship	\$50,000
		Patients' experiences with ambulatory care and trust	

Study of how patients' experiences with their physicians are associated with trust in their physician.

1999-2001	Co-investigator	Agency for Health Care Policy and Research and American Association of Health Plans U01 HS09936 and HS 98-005	
Effect of Health Plans on Hypertension and Diabetes Care Survey of patients with diabetes or hypertension and their physicians and medical record abstractions to identify physician and organizational factors associated with quality of care. I began as co-investigator and played a major role in instrument design, then took over as PI after illness of original PI.			
1999-2002	PI	Doris Duke Charitable Foundation Doris Duke Charitable Foundation Clinical Scientist Award (19991079)	\$300,000
Effect of Physician Specialty on Quality of Breast Cancer Care Examined the providers from whom women with breast cancer receive care and assessed the association of providers seen with stage at diagnosis, primary treatment, and surveillance care.			
2001-2005	Acting PI	National Cancer Institute 1 R01 CA92588-01	\$665,935
Managed Care Penetration and Cancer Care Examined the association of increasing managed care penetration and spillover effects on quality of care for patients with cancer and on choice of treatments. I began as co- investigator and played a major role in instrument design, then took over as PI after illness of original PI.			
2001-2013	Co-investigator	National Cancer Institute U01 CA93324-01	
Cancer Care Outcomes Research & Surveillance Consortium (Ayanian, PI) Multiregional study of patients with incident lung or colorectal cancer, including patient survey, physician survey, medical record abstraction, claims analyses. I led development and implementation of a physician survey of more than 7000 physicians across the consortium and participated actively in data collection for our study site. In a second phase of data collection, I led the development and implementation of a survey of more than 700 medical oncologists.			
2002-2004	PI	Brigham and Women's Hospital The Primary Care Education Fund	\$1,870
Transfer of Information Via Social Networks Survey of primary care physicians at BWH to understand how physicians share information.			
2003-2005	PI	Doris Duke Charitable Foundation Doris Duke Charitable Foundation Clinical Scientist Award (T99040C)	\$200,000
Effect of Physician Specialty on Hospice Use in Breast Cancer Examined the providers from whom women with advanced breast cancer receive care and assessed the association of providers seen with hospice use at the end of life.			

2004-2007	PI	SPORE, National Cancer Institute 5 P50 CA090381-03	\$109,544
Cancer Survivorship in Men with Prostate Cancer Examined the association of androgen deprivation therapy for prostate cancer with development of diabetes and cardiovascular disease.			
2004-2007	PI	Novartis ZOL446G US94	\$174,164
Cancer-therapy Induced Bone Loss and Fracture Risk among Men with Prostate Cancer (NL Keating, PI) Examined the association of androgen deprivation therapy and radiation therapy for prostate cancer with development of fracture.			
2005-2009	PI	National Cancer Institute R01 CA104118	\$1,045,476
Long-term Outcomes of Breast Cancer Treatment in Community Populations Assessing long-term survival after primary breast cancer treatments among patients outside of clinical trials.			
2005-2010	Co-PI	Veterans Health Administration Federal Contract 15592/18866	\$554,615
Study of Cancer Care in the Veterans Health Administration (BJ McNeil, PI) Evaluation of quality of care delivered to veterans with cancer in the Veterans Health Administration.			
2008-2012	PI	National Cancer Institute R01 CA127652	\$686,902
Fractures, Heart Disease, and Stroke on Aromatase Inhibitors (NL Keating, PI) Assessing the association of aromatase inhibitor therapy and tamoxifen for breast cancer with myocardial infarction, stroke, and fractures among community populations of women.			
2008-2013	PI	Komen Foundation Foundation Research Grant	\$300,000
Disparities in Breast Cancer and Providers of Care Assessing the role of hospitals and physicians in explaining variations in quality of care for breast cancer.			
2008-2013	Co-investigator	National Institute of Aging P01 AG0309301	
Networks and Neighborhoods (N Christakis, PI) This work will empirically define networks of physicians based on shared patients and will assess whether sharing of information via physician networks is likely to explain local area variations in medical care.			
2010-2011	PI	Harvard Catalyst   The Harvard Clinical and Translational Science Center NIH Award UL1 RR 025758	\$50,000
Improving Breast Cancer Diagnosis and Care in Mexico			

This work will improve awareness of breast health and breast cancer through training of health promoters in the states of Morelos, Jalisco, and Nuevo Leon. It also seeks to improve delivery of cancer care by providing cancer treatment in secondary hospitals with close supervision by physicians at tertiary hospitals.

2010-2012	PI	American Cancer Society Foundation Grant RSGI-09-269-01-CPHPS	\$400,000
Effect of Massachusetts Health Insurance Reform on Breast Cancer Screening and Diagnosis Assessing the influence of health insurance reform in Massachusetts on mammography screening and earlier stage at breast cancer diagnosis for women in Massachusetts.			
2010-2013	Co-investigator	National Cancer Institute R01CA142744	
Use of Geographic Variations to Estimate Effectiveness with Non-Randomized Data (Landrum, PI) Evaluation of effectiveness of many common cancer therapies using advanced statistical methods. The methods developed will be applicable to a broad range of interventions for cancer and other diseases, providing a framework for future analyses of comparative effectiveness needed for the design and implementation of health reforms			
2011-2014	PI	Dana-Farber Cancer Institute Mazzone Disparity Award	\$100,000
Understanding Racial Differences in Prostate Cancer Mortality This study will use SEER-Medicare data and data from the NHANES study to better understand disparities in prostate cancer mortality. We will first decompose the racial gap in prostate cancer mortality into differential incidence and stage-specific survival and to understand reasons for these differences. Then we will explore the consequences of differential intake of vitamin D on prostate cancer incidence and mortality.			
2008-2015	PI	Prostate Cancer Foundation Foundation Research Grant	\$450,000
Prevention of Treatment and Disease-Related Morbidity during Androgen Deprivation Therapy: A Multicenter Proposal Examine the association of androgen deprivation therapy for prostate cancer with development of diabetes and cardiovascular disease in another cohort and identify characteristics of patients at highest risk of disease.			
2010-2015	PI, subcontract	National Cancer Institute R01CA106370	
Black-White Differences in Advanced Cancer Communication, Acceptance and Care (Prigerson, PI) The study will assess how communication processes and communication goals influence racial disparities in EOL care, specifically assessing 1) communication processes; 2) communication goals; and 3) the effect of communication processes and communication goals on clinical outcomes at the EOL.			
2012-2016	PI	National Cancer Institute 1R01CA164021-01A1	\$1,515,715
Explaining Variations in End-of-Life Care Intensity			

Understand the relative contribution of patient, physician, and area-level factors in explaining variations in intensity of end of life care.

2014-2016	PI, subcontract	American Cancer Society Research Scholar Grant	
		Impact of Parity Legislation on Use and Costs of Oral Cancer Medications This proposal will use data from the Health Care Cost Institute and a difference-in-difference-in difference design to understand the effect of state cancer parity legislation on use and spending on oral cancer medications.	
2013-2018	Co-investigator	National Institute of Mental Health U01MH103018 (Normand/Huskamp)	
		Technology Diffusion under New Payment and Delivery Models 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.	
2013-2017	PI, subcontract	National Cancer Institute R21CA172892	
		Linking State Registry and All Payer Claims Data to Study Cancer Care The Massachusetts Executive Office of Health and Human Services and the Massachusetts Health Quality Partners represent key public and private stakeholders, respectively, who are committed to using the results of our analyses to further public health policy goals for improving the value of cancer care. The methods and results of this project can be employed to monitor the quality and costs of cancer care in Massachusetts and to guide efforts by consumers, payers and purchasers to evaluate provider networks or other comparable provider organizations. Our project will also provide a model to guide state policymakers and health-care systems in many other states that are developing comparable all-payer claims databases.	
2013-2019	Multiple PI	National Cancer Institute 1R01CA174468	\$1,834,536
		Social Networks and the Spread of Cancer Care Practices Develop a longitudinal database of physician networks over time and describe physician networks to understand diffusion of cancer care practices across these networks.	
2014-2020	PI	National Cancer Institute K24CA181510	\$816,771
		Behavioral Economics and Improving Chemotherapy Decisions for Advanced Cancer This is a mid-career mentorship award. I will mentor trainees and develop new skills in behavioral economics and intervention research. I will lead a project to improve decisions about chemotherapy for women with advanced breast and ovarian cancers.	
2017-2020	Project PI	Laura and John Arnold Foundation	\$1,037,021
		Improving Feasibility and Efficiency of Quality Measurement in Oncology Practices	



This project will first estimate the extent to which claims-based measures of quality for practices (with and without clinical information about cancer stage and other tumor characteristics from registry data) correlate with practice-reported measures of oncology care quality. Next, for measures of quality for which supplemental clinical data are needed, assess the extent to which adaptive quality measurement strategies that focus primarily on identifying the providers who are delivering the highest- and lowest-quality care would be a more feasible and efficient strategy for assessing (and rewarding) quality of care delivered by oncology providers than measuring quality for all oncology practices.

2018-2020	PI, subcontract	Leukemia and Lymphoma Society/ The Commonwealth Fund (PI: Dusetzina)	Identifying Cost and Coverage Barriers to Medicare Beneficiary Access to Specialty Drugs This study will first describe trends in drug prices, Part D plan coverage, and cost sharing requirements for specialty drugs from 2010 through 2019. Next, it will leverage linked electronic health record networks and fee-for-service Medicare claims to observe both physician prescribing and patient medication filling at the population level, along with clinically relevant outcomes for patients. From this novel data source, we will estimate rates of nonadherence to specialty medications for Part D beneficiaries and whether nonadherence varies by drug price within and across conditions. Finally, we will examine the association between not starting or experiencing delays in starting therapy on key clinical outcomes and Medicare spending.
2019-2021	PI, Subcontract	NCI R21CA227615-01 (PI: Freedman)	Individualizing Surveillance Mammography for Older Breast Cancer Survivors This study will develop consensus on surveillance mammography and follow-up for breast cancer survivors who are age $\geq 75$ years by further developing expert-panel recommendations and examining clinician and patient attitudes towards these recommendations. We will then apply a framework for decisional support to address decisional conflict on mammography decision-making and will test a strategy for communication of expert recommendations on mammography cessation through direct engagement of specialists, PCs, and patients.
2015-2021	Co-investigator	National Institute on Aging 1R01CA189152-01A1 (PI:McWilliams/Graves)	Effects of Expanded Coverage on Access, Health Care and Health in the South This project will provide timely and rigorous analysis of the effect of health insurance coverage expansions on health care use and outcomes among a large cohort of low-income adults in 12 southeastern states (VA, WV, KY, TN, NC, SC, FL, GA, AL, MS, LA, AR). Using a quasi-experimental research design, we aim to quantify the effects of coverage expansion through Medicaid and private health insurance exchanges on access to care, cancer screening and use of preventive clinical services (Aim 1); on self-reported health outcomes, mortality and use of emergent and inpatient care (Aim 2); and on cancer stage at diagnosis and quality of cancer care (Aim 3).
2018-2021	PI	American Cancer Society PEP-17-052-01-PCSM	\$132,800  More Good Days: Improving Goals of Care Discussions for Cancer Patients The goal of this study is to conduct a pilot test of an intervention that seeks to help patients identify and communicate their goals of care and preferences for care with their health care



out-of-pocket spending for products with percentage-based cost sharing. Finally, we will examine the association between not starting or experiencing delays in starting therapy on key clinical outcomes and Medicare spending

2020-2025	PI	NCI R01CA255035	\$2,492,365
<p>The Impact of a Changing Health Care Delivery System on the Quality of Oncology Care  This study will examine changes in the delivery of oncology care over time and the impact of these changes on the quality of care, diffusion of new therapies, health care utilization, and outcomes for cancer patients overall and for vulnerable/disadvantaged subgroups. The findings will provide oncology practitioners, payers, and policy makers valuable information to improve access, quality and outcomes of cancer care. Our results also will inform policies and practices related to the value of integration of oncology care, quality measurement, design of alternative payment models, and development of innovative delivery models to care for vulnerable/disadvantaged populations.</p>			
2021-2022	PI	Harvard/Ariadne Spark Innovation Program No grant number	\$100,000
<p>Improving Equity in the Quality of Oncology Care with Practice Feedback  This study will develop an audit-and-feedback intervention to provide actionable race-specific data to oncology practices about their performance in delivering equitable and high-quality care to Black and White oncology patients relative to other oncology practices. If we demonstrate feasibility and acceptability in this pilot project, we will pursue further funding to ultimately test whether this invention reduces practice-level measures of inequities while improving care overall in a large randomized clinical trial.</p>			

**Training Grants and Mentored Training Grants**

2012-2017	Program in Cancer Outcomes Research Training National Cancer Institute (R25) Advisory Committee Member (PI: G. Scott Gazelle)		
2014-2018	Chemotherapy Near Death: Modifiable Factors and Outcomes in Ovarian Cancer National Cancer Institute (K07) Primary Mentor (PI: Alexi Wright)		
2015-2019	Disparities in Breast Cancer Knowledge and Treatment Adherence American Cancer Society Mentored Research Scholar Grant Primary Mentor (PI: Rachel Freedman)		
2017-	Training Program in Cancer Biology National Cancer Institute (T32) External Advisory Committee Member (PI: Kenneth Tanabe)		
2017-2021	Improving Decisions about Dialysis Initiation in Older Adults with Kidney Disease National Institute on Aging (K23) Primary Mentor (PI: Melissa Wachterman)		

2017-2021	An Assessment of Whether Aspirin and/or Vitamin D Improves Breast Cancer Outcomes in Black Women and the Modifying Effects of Genetic Variants National Cancer Institute (K01) Mentoring Committee (PI: Tracy Belthea)
2018-2022	Evaluating Breast Cancer Care in Rural Rwanda National Cancer Institute (K07) Primary Mentor (PI: Lydia Pace)
2018-	Training in Oncology Population Sciences National Cancer Institute (T32) Principal Investigator (Multiple PI with Jennifer Mack, MD, MPH)
2019-2023	Obstetrical and Oncological Outcomes Among Reproductive Age Women with Gynecological and Breast Cancer National Cancer Institute (K08) Mentoring (PI: Alejandro Rauh-Hain)
2019-2023	Expectations for Pediatric Cancer Treatment (EXPECT): A Family-Centered Intervention to Prepare Parents for Pediatric Leukemia National Cancer Institute (K08) Co-Mentor (PI: Katie Greenzang)
2023-2028	MGH Clinical Oncology Fellowship Program T32CA071345 National Cancer Institute (T32) External Advisory Board Member
2023-2028	University of North Carolina Outcomes Research T32 (Basch/Wheeler) National Cancer Institute (T32) External Advisory Board Member

## **Current Unfunded Projects**

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

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

1996-1997 10 third year medical students	Primary Care Clerkship Faculty Tutor	HMS Preparation time: not applicable; Contact time: 5 hours per month
1996-1998 6 first year medical students	Patient/Doctor I Faculty Tutor	HMS 10 months per year Preparation time: 1 hour per week; Contact time: 2 hours/week

1998-2002 8 first year medical students	Critical Reading of the Medical Literature (AC701.0) HMS Faculty Tutor	5 months per year Preparation time: 1 hour per week; Contact time: 2 hours per week
2001- 200 medical students	Introduction to Health Care Policy (HC750) HMS Lecturer	1-2 lectures per year Preparation time: 6 hours; Contact time: 2-4 hours
2004 8 graduate students	Medical Sociology Reading course Lecturer	Harvard University One lecture per year Preparation time: 2 hours; Contact time: 1.5 hours
2005- 10-15 masters students	Introduction to Epidemiology (EPI 208) HSPH Small Group Discussion Leader	2 months per year (2-4 sessions) Preparation time: 1-2 hours, Contact time 4-8 hours
2010-2015 8-10 medical students	Introduction to Health Care Policy (HC750) HMS Tutorial Leader	One month per year Preparation time: 12 hours, Contact time 12 hours
2010- 100 masters students	Introduction to Epidemiology (EPI 208) HSPH Core Faculty	6 weeks per year Preparation time: 2 hours, Contact time 12 hours
2016- 160 medical students	Essentials of Medicine: Part 1-Introduction to Health Care Policy (HC750) HMS Core Faculty	3 weeks per year Preparation time: 2 hours, Contact time 8 hours
2016- 10 medical students	Essentials of Medicine: Part 1-Introduction to Health Care Policy (HC750) HMS Tutorial Leader	One month per year Preparation time: 12 hours, Contact time 12 hours
2016- 100 medical students	Essentials of Medicine Health Care Policy (HC750) HMS Curriculum Development Board Member	3 weeks per year Preparation time: 10 hours

2018-2020	Essentials of Medicine: Part 1-Introduction to Health Care Policy (HC750) HMS	
160 medical/dental students	Course Director	One month per year Preparation time: 100 hours, Contact time 20 hours

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

1999-	“Counseling patients about breast cancer risk and breast cancer prevention” 15 residents	BWH 1.5 hour lecture given twice per year
1999-2005	“Managed care: How do health plans influence the delivery of care?” 15 residents	BWH 1.5 hour lecture given twice per year
1999-	“Reading the medical literature: How to read an article about therapy” 15 residents	BWH 1.5 hour lecture given twice per year
2011-	“Writing an Abstract” 15 post-doctoral fellows	Harvard General Internal Medicine Fellowship Program 1 hour lecture given once per year
2012-	“Breast and Colorectal Cancer Screening” 25 residents	BWH 1.5 hour lecture given 4 times per year
2013-	“Benefits and Harms of Breast Cancer Screening” 25 residents	BWH 1.5 hour lecture given 4 times per year

### **Clinical Supervisory and Training Responsibilities**

1996	Harvard Medical School Medicine 1 Clerkship, BWH Teaching Resident	8 third year medical students 1 month per year (15 hours per week)
1996-	General Internal Medicine Clinic Attending Physician	4-5 residents 12 months per year (4 hours per week)
1997-	General Medical Service Attending Physician	2 medical students, 2 interns, 1 resident 2-4 weeks per year (20 hours per week)
1998-	General Internal Medicine Clinic Attending Physician	4-5 residents 2 weeks per year (20 hours per week)
2001-	Mentor, BWH Residency Program	Advisor for 1-2 BWH residents per year

## **Laboratory and Other Research Supervisory and Training Responsibilities**

2004- Supervision of medical student, resident, fellow, and/or junior faculty research trainees      Daily mentorship

## **Formally Supervised Trainees**

2004-2008 Marie Norredam, M.D.      Associate Professor, University of Copenhagen, Denmark  
Supervised work as a post-doctoral fellow studying abroad resulting in two publications.

2006-2008 Jim Hu, MD      Professor of Surgery, Cornell Weill Medical College  
Supervised research as a junior faculty member with several publications

2006-2008 Michael Hassett, MD      Assistant Professor of Medicine, Dana-Farber Cancer Institute  
Supervised research employment among cancer survivors resulting in a publication.

2007-2008 Irwin Lee, MD      Staff Physician, Santa Rosa Medical Center, Santa Rosa, CA  
Supervised research during a radiation oncology residency, resulting in a publication.

2007- Rachel Freedman, MD      Associate Professor of Medicine, Dana-Farber Cancer Institute  
Supervised work during fellowship and junior faculty with numerous manuscripts, mentor for career development award.

2009 Signe Smith (Nielsen)      Associate Professor, University of Copenhagen  
Jervelund, PhD  
Supervised work during doctoral program, 1 manuscript.

2009-2010 Vinod Nambudiri, MD      Assistant Professor, Brigham and Women's Hospital  
Supervised work during medical school thesis with 2 manuscripts.

2009-2010 Neal Chatterjee, MD      Research Fellow, Massachusetts General Hospital  
Supervised research during 4<sup>th</sup> year, 1 manuscript.

2008-2010 Christine Chung, MD      Radiation Oncologist  
Supervised research in a co-mentorship role during residency, 1 manuscript.

2009- Elyse Park, PhD      Associate Professor of Psychology, Massachusetts General Hospital  
Supervised research as a junior faculty member with several publications

2010-2012 Selwyn Rogers, Jr. MD      Professor of Surgery, University of Chicago  
Supervised research as a junior faculty member with 2 first-author publications

2010-2012 Jennifer Ligibel, MD      Assistant Professor, Dana-Farber Cancer Institute  
Supervised research as a junior faculty member with 2 first-author publications

2010-2013 Paola Friedrich-Medina, MD      Pediatric Oncology Fellow

## Member of Fellowship Scholarship Oversight Committee

- 2010- Alexi Wright, MD, MPH Associate Professor of Medicine, Dana-Farber Cancer Institute  
Supervised research as junior faculty member, primary mentor on K application, numerous manuscripts published
- 2010-2014 Gaby Soriano Hobbs, MD Assistant Professor of Medicine, Massachusetts General Hospital  
Supervised research during residency, 1 manuscript published.
- 2010-2013 Glen Taksler, PhD Assistant Professor, Case Western Reserve Institute  
Supervised research before and during fellowship resulting in 4 manuscripts
- 2011-2014 Michael Liu, MD, PhD Statistician, Harvard Medical School  
Supervised research during postdoctoral fellowship. 5 manuscripts published.
- 2011-2012 Alicia Morgans, MD Assistant Professor, Vanderbilt Medical School  
Supervised research during fellowship, 1 manuscript published
- 2011-2015 Stacy Gray, MD Associate Professor, City of Hope  
Supervised research as junior faculty, several manuscripts
- 2011-2016 Stacie Dusetzina, PhD Associate Professor, Vanderbilt University Medical Center  
Supervised research during residency, numerous manuscripts published.
- 2011-2014 Cleo Samuel, PhD Associate Professor, University of North Carolina Medical School  
Doctoral thesis committee member, 3 manuscripts published
- 2012- Lydia Pace, MD, MPH Assistant Professor of Medicine, Brigham and Women's Hospital  
Supervised research during fellowship, numerous manuscripts; primary mentor for K07 award
- 2012- Melissa Wachterman, Assistant Professor of Medicine, Brigham and Women's Hospital and  
MD, MPH Boston Veterans Affairs Medical Center  
Supervised research as junior faculty, numerous manuscripts, primary mentor for K23 award
- 2013- Robert Griffiths, PhD Senior Health Economist, Health Economics Center of Excellence at  
Boston Scientific  
Member of dissertation committee, 5 manuscripts published
- 2014-2015 Kenneth Kehl, MD Instructor in Medicine, Dana-Farber Cancer Institute  
Supervised research in year before oncology fellowship, 5 papers published
- 2015-2017 Lisa Rotenstein, MD, Medical Resident, Brigham and Women's Hospital  
MBA  
Supervised research as medical student, 1 paper published
- 2015-2018 Aaron Winn, PhD Assistant Professor, Medical College Wisconsin  
Member of dissertation committee, numerous manuscripts published
- 2014-2019 Loren Saulsbery, PhD Assistant Professor, University of Chicago



Member of dissertation committee and supervisor of T32 predoctoral award, 1 paper published

2015-2019 Jessica Roydhouse, PhD Researcher, Federal Drug Administration  
Supervised research as a doctoral student at Brown, 4 papers published

2015- Alejandro Rauh-Hain, Assistant Professor, MD Anderson Cancer Center  
MD, MPH

Supervised research during Program in Cancer Outcomes Research Training T32 Fellowship, advisor on K08, numerous papers published

2015- Katie Greenzang, MD, Instructor, Dana-Farber Cancer Institute  
MPH

Member of Fellowship Scholarship Oversight Committee 2015-2018; Co-mentor of K award 2019-2023

2016- Gabriel Brooks, MD, MPH Associate Professor, Dartmouth Medical School  
Supervised research as junior faculty, Numerous papers published and in progress

2016-2019 Hyosin Dawn Kim, PhD Research Scientist, University of Oregon  
Member of dissertation committee, Paper published, others in progress

2017- Alex Melamed, MD, Assistant Professor, Columbia University  
MPH

Supervised research, papers in progress

2017- Tracy Belthea Assistant Professor, Boston Medical Center  
Member of K award Mentoring Committee

2018- Christine Gunn, PhD Assistant Professor, Boston Medical Center  
Member of K award Advisory Panel

2020- Miranda Lam, MD, MPH Instructor in Radiation Oncology, Brigham and Women's  
Supervised research as junior faculty member

2020- Micah Aaron, PhD Post-Doctoral Fellow, Harvard Medical School  
Member of dissertation committee

2020- Pragya Kakani Doctoral student, Harvard University  
Member of dissertation committee

2021- Michael Anne Kyle, PhD Post-doctoral Fellow, Harvard Medical School  
Supervised research during fellowship

2021- Spencer Luster MD/PhD student, Harvard University  
Supervised dissertation research

### **Formal Teaching of Peers**

2006	Lecture: Breast Cancer Treatment of Older Women: Are there Disparities? Boston, MA	Single presentation Dana-Farber Cancer Institute
Breast Cancer: Current Challenges and New Horizons		
2012	Lecture: Recent Highlights in Palliative Care Research Cambridge, MA	Single presentation Harvard Medical School
Practical Aspects of Palliative Care		
2014	Lecture: Financial and Employment Issues for Cancer Survivors Boston, MA	Single presentation Brigham and Women's Hospital
Cancer Survivorship: Optimizing Care and Outcomes		
2015	Lecture: Care of the Cancer Survivor Boston, MA	Single presentation Brigham and Women's Hospital
36th Annual Office Practice of Primary Care Medicine CME		
2015	Lecture: Mammographic screening: trends and trade-offs from a public health perspective Boston, MA	Single presentation Dana-Farber Cancer Institute
Update on Breast and Ovarian Cancer		
2016	Lecture: Mammographic screening: trends and trade-offs from a public health perspective Boston, MA	Single presentation Dana-Farber Cancer Institute
Update on Women's Cancers		
2018, 2019	Lecture: Innovation spotlight: Oncology care Boston, MA	Single presentation Harvard Medical School
Executive Education Program for the International Foundation of Employee Benefit Plans		

### **Local Invited Presentations**

No presentations below were sponsored by outside entities.

1997	Physician Beliefs About Informal or 'Curbside' Consultation	Quality of Care Research Seminar Series Harvard School of Public Health, Boston, MA
1999	Surgical Treatment for Early Stage Breast Cancer—Effect of Provider Specialty on Treatment and Satisfaction	Clinical Outcomes and Policy Research Seminar Dana-Farber Cancer Institute, Boston, MA
2000	The State of Our Cancer Care System	National Council for Harvard Medicine Meeting Harvard Medical School, Boston, MA

2001	How is Outpatient Care in the Two Years Before Breast Cancer Diagnosis Associated with Stage at Diagnosis?	Clinical Outcomes and Policy Research Seminar Dana-Farber Cancer Institute, Boston, MA
2002	Consultation with a Medical Oncologist Before Surgery and Type of Surgery among Elderly Women with Early-Stage Breast Cancer	Clinical Outcomes and Policy Research Seminar Dana-Farber Cancer Institute, Boston, MA
2004	Health Status of Older Cancer Survivors	Clinical Outcomes and Policy Research Seminar Dana-Farber Cancer Institute, Boston, MA
2004	Taking Charge: Patient Advocacy for Yourself or a Loved One, “The Patient-Physician Relationship”	Longwood Seminar Harvard Medical School, Boston, MA
2005	Medicare Part D and the Medicare Modernization Act	Council for Harvard Medicine Meeting Harvard Medical School, Boston, MA
2006	Physicians Reports’ of Discussing End-of-Life Options for Terminally Ill Cancer Patients	Clinical Outcomes and Policy Research Seminar Dana-Farber Cancer Institute, Boston, MA
2006	Diabetes and Cardiovascular During Androgen Deprivation Therapy for Prostate Cancer	Massachusetts General Hospital Oncology Grand Rounds Massachusetts General Hospital, Boston, MA
2006	Financial, Insurance, and Employment among Older Long-Term Cancer Survivors	Boston Area Cancer Survivors Meeting Dana-Farber Cancer Institute, Boston, MA
2008	Cancer Patients’ Roles in Treatment Decision Making: Are they Influenced by Characteristics of the Decision?	Clinical Outcomes and Policy Research Seminar Dana-Farber Cancer Institute, Boston, MA
2008	Physicians and Variations in End-of-Life Care for Patients with Cancer	Palliative Care Ground Rounds Massachusetts General Hospital, Boston, MA
2009	Cancer Care in High- versus Low-Spending Areas in the VA and the Private Sector	Clinical Outcomes and Policy Research Seminar Dana-Farber Cancer Institute, Boston, MA
2010	A National Study of the Quality of Cancer Care in the Veterans Health Administration and the Private Sector	Program in Cancer Outcomes Research Training Massachusetts General Hospital, Boston, MA

2010	The Role of Providers in Breast Cancer Treatment Disparities	Clinical Outcomes and Policy Research Seminar Dana-Farber Cancer Institute, Boston, MA
2011	Hospital Choice and Breast Cancer Treatment Disparities	Breast Rounds Massachusetts General Hospital, Boston, MA
2012	Diabetes Control During Androgen Deprivation Therapy Among Diabetic Men with Prostate Cancer	Clinical Outcomes and Policy Research Seminar Dana-Farber Cancer Institute, Boston, MA
2012	Effect of Massachusetts Health Insurance Reform on Mammography Use and Breast Cancer Stage at Diagnosis	Mongan Institute for Health Policy Research Seminar Massachusetts General Hospital, Boston, MA
2013	Understanding of Prognosis Among Patients with Lung and Colorectal Cancer	Clinical Outcomes and Policy Research Seminar Dana-Farber Cancer Institute, Boston, MA
2013	The CanCORS Study: What We Have Learned and What Can We Still Learn About End of Life and Palliative Care?	Radcliffe Seminar in Palliative Care Research The Radcliffe Institute, Cambridge, MA
2014	The Affordable Care Act: The Effects of Health Care Reform on Vulnerable Populations – Session Moderator	Serving the Underserved Retreat  Harvard Medical School, Boston MA
2014	What’s New in Cancer Outcomes Research, Discussant	Dana-Farber/Harvard Cancer Center Dana-Farber and Harvard Medical School, Boston MA
2014	Understanding Variations in Intensity of End of Life Care	Dana-Farber/Harvard Cancer Center Outcomes Seminar Dana-Farber Cancer Institute, Boston, MA
2014	Communicating with Patients about the Benefits and Harms of Breast Cancer Screening	Breast Oncology Seminar Series  Dana-Farber Cancer Institute, Boston MA
2015	Individualizing Breast Cancer Screening Decisions	Department of Medicine Grand Rounds Brigham and Women’s Hospital, Boston MA
2016	Discussant, Pitfalls and Challenges in Diagnosing Breast Cancer	Primary Care Morbidity & Mortality Brigham and Women’s Hospital, Boston MA
2016	Diffusion of Bevacizumab Across Oncology Practices	Dana-Farber/Harvard Cancer Center Outcomes Seminar

		Dana-Farber Cancer Institute, Boston, MA
2016	Trends in Cancer Screening	Cancer 2025 Symposium Harvard Medical School, Boston, MA
2016	Diffusion of Bevacizumab Across Oncology Practices	Mongan Health Policy Institute Seminar Series Massachusetts General Hospital, Boston, MA
2017	Diffusion of Bevacizumab Across Oncology Practices	Oncology Interest Group Harvard Medical School, Boston, MA
2017	Clinical vs. Machine-Learning Algorithms to Predict Cancer Stage Using Claims Data for Patients Undergoing Chemotherapy	Dana-Farber/Harvard Cancer Center Outcomes Seminar  Dana-Farber Cancer Institute, Boston, MA
2017	Research to Promote Health System-Level Change, Panel Moderator	Burke Global Health Fellowship Research Seminar Harvard Global Health Initiative, Cambridge, MA
2017	Clinical and Machine-Learning Algorithms to Predict Cancer Stage Using Claims Data for Cancer Patients	Department of Population Science Research Seminar Harvard Medical School, Boston, MA
2018	Understanding Factors Contributing to Geographic Variation in Intensity of End of Life Care Expenditures	Dana-Farber/Harvard Cancer Center Outcomes Seminar Dana-Farber Cancer Institute, Boston, MA
2018	Celebration of Promotions-A View from the Promotions and Reappointments Committee	Harvard Medical School Promotion Celebration Harvard Medical School, Boston, MA
2018	Keynote Lecture: From Mentor to Mentee: Shaping a Successful Transition	Centers for Faculty Development and Diversity 2018 Mentoring Course Harvard Medical School, Boston, MA
2019	The Oncology Care Model: Evaluation and Early Findings	Dana-Farber/Harvard Cancer Center Outcomes Seminar Dana-Farber Cancer Institute, Boston, MA
2019	SHARE: Sharing Goals of Care	Shared Decision Making Seminar Massachusetts General Hospital, Boston, MA
2020	Measuring Quality of Oncology Care Across Oncology Practices	Dana-Farber/Harvard Cancer Center Outcomes Seminar Dana-Farber Cancer Institute, Boston, MA

2021	Assessing the Impact of the Oncology Care Model on Payments, Spending, and Outcomes	Dana-Farber/Harvard Cancer Center Outcomes Seminar Dana-Farber Cancer Institute, Boston, MA
2021	The Oncology Care Model and Impact on Cancer Care	Urology Grand Rounds Brigham and Women's Hospital, Boston, MA
2022	Measuring Equitable Care Across Oncology Practices	Dana-Farber/Harvard Cancer Center Outcomes Seminar Dana-Farber Cancer Institute, Boston, MA

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

#### **Regional**

No presentations below were sponsored by outside entities.

2000	Quality of Breast Cancer Care—Results from a Study in Massachusetts and Minnesota	Faulkner Hospital Multidisciplinary Breast Cancer Conference Faulkner Hospital, Boston, MA
2014	Racial and Ethnic Disparities in Cancer Care	Global Youth Summit on the Future of Medicine Brandeis University, Waltham, MA
22	Alternative Payment Models in Oncology	Center for Evaluation of Value and Risk in Health Tufts University School of Medicine

#### **National**

No presentations below were sponsored by outside entities.

1997	Use of Hormone Replacement Therapy in a National Sample of Postmenopausal Women Plenary session Society of General Internal Medicine Annual Meeting Washington, D.C.
1997	Use of Hormone Replacement Therapy in a National Sample of Postmenopausal Women Invited Presentation National Research Service Award Trainees' Research Conference Chicago, IL
1998	Physician Beliefs About Informal or 'Curbside' Consultation Invited Presentation National Research Service Award Trainees' Research Conference Washington, D.C.

- 2000      How are Patients' Experiences during the Clinical Encounter Related to Trust and Considering Changing Physicians?  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Boston, MA
- 2000      Surgical Treatment for Early Stage Breast Cancer—Effect of Provider Specialty on Treatment and Satisfaction  
Invited Presentation  
Academy Health Annual Meeting  
Nashville, TN
- 2004      Do Increases in Managed Care Market Share Influence Quality of Cancer Care in the Fee-for-Service Setting?  
Invited Presentation  
Academy Health Annual Meeting  
San Diego, CA
- 2005      Medicare Part D and the Medicare Modernization Act  
Invited Presentation  
Harvard Club of New York Seminar Series  
New York, NY
- 2005      Factors Related to Underuse of Surveillance Mammography  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
New Orleans, LA
- 2005      Surveillance Testing after Breast Cancer Diagnosis  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
New Orleans, LA
- 2006      Physician Factors Associated with Discussions about End-of-Life Care  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Los Angeles, CA
- 2006      Quality of Diabetes Care for Cancer Survivors with Diabetes  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Los Angeles, CA
- 2006      Physician Factors Associated with Discussions about End-of-Life Care  
Invited Presentation  
Academy Health Annual Meeting  
Seattle, WA

- 2007      Physicians and Variations in Cancer Care  
Invited Lecture  
Dartmouth Institute for Health Policy and Clinical Practice Seminar  
Hanover, NH
- 2008      Physicians and Variations in Cancer Care  
Invited Lecture  
Pennsylvania State University Seminar  
University Park, PA
- 2008      Cancer Patients' Roles in Treatment Decision Making: Are They Influenced by  
Characteristics of the Decision?  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Pittsburgh, PA
- 2008      Caring for Breast Cancer Survivors  
Invited Lecture  
Society of General Internal Medicine Annual Meeting  
Pittsburgh, PA
- 2008      Cancer Patients' Roles in Treatment Decision Making: Are they Influenced by  
Characteristics of the Decision?  
Invited Presentation  
Academy Health Annual Meeting  
Washington, D.C.
- 2009      Aggressiveness of End-of-Life Care in the Veterans Health Administration versus the  
Private Sector  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Miami, FL
- 2009      Prevention of Treatment and Disease-Related Morbidity During Androgen Deprivation  
Therapy  
Invited Presentation  
Prostate Cancer Foundation Annual Meeting  
Lake Tahoe, NV
- 2009      Using SEER-Medicare Data for Comparative Effectiveness Research  
Invited Presentation  
Meeting of the Board of Scientific Advisors, National Cancer Institute  
Bethesda, MD
- 2009      Cancer Care in the Veterans Health Administration versus the Private Sector  
Invited Lecture  
Robert Wood Johnson Clinical Scholars Program Seminar, University of Michigan  
Ann Arbor, MI



- 2010 A National Study of the Quality of Cancer Care in the Veterans Health Administration and the Private Sector  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Minneapolis, MN
- 2010 Quality of Care and Patient Safety  
Discussant for Abstract Session  
Society of General Internal Medicine Annual Meeting  
Minneapolis, MN
- 2010 A National Study of the Quality of Cancer Care for Older Cancer Patients in the Veterans Health Administration Versus Fee-for-Service Medicare  
Invited Presentation  
Academy Health Annual Meeting  
Boston, MA
- 2010 Aggressiveness of End-of-Life Care for Older Cancer Patients in the Veterans Health Administration Versus Fee-for-Service Medicare  
Invited Presentation  
Academy Health Annual Meeting  
Boston, MA
- 2010 Variations in Primary Prostate Cancer Treatment in the Veterans Health Administration Versus the Private Sector  
Invited Presentation  
Academy Health Annual Meeting  
Boston, MA
- 2010 Incentives Directed to Physicians  
National Cancer Institute Provider Survey Methods Workshop  
Invited Presentation  
Bethesda, MD
- 2010 The Role of Providers in Breast Cancer Disparities  
Invited Plenary Presentation  
San Antonio Breast Cancer Conference  
San Antonio, TX
- 2011 The Quality of Cancer Care in the Veterans Health Administration  
Invited Lecture  
UNC Lineberger Comprehensive Cancer Center Outcomes Research Seminar  
Raleigh, NC
- 2011 Are Patient Preferences Incorporated into Treatment Decisions?  
Invited Presentation  
National Coalition for Cancer Survivorship and Institute of Medicine National Cancer Policy Forum Workshop: Patient-Centered Cancer Treatment Planning: Improving the Quality of Oncology Care

Washington, DC

- 2011 Importance of Defining Stage for the Purposes of Health Services Research  
Invited Presentation  
American Joint Committee on Cancer and American Cancer Society summit: *Beyond Cancer Staging: Characterizing Cancer for Clinical Practice & Population Surveillance*  
Chicago, IL
- 2011 Racial Disparities in Breast Cancer Stage at Diagnosis in the Mammography Era  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Phoenix, AZ
- 2011 Secondary Data Analysis R01s: A Route to Success  
Invited Workshop  
Society of General Internal Medicine Annual Meeting  
Phoenix, AZ
- 2011 Understanding Delivery of Cancer Care in the Department of Veterans Affairs  
Invited Lecture  
Leonard Davis Institute of Health Economics Research Seminar, University of Pennsylvania  
Philadelphia, PA
- 2011 Measuring Quality of Care: The Case of Cancer in the Veterans Health Administration  
Invited Lecture  
University of Iowa Department of Epidemiology Seminar  
Iowa City, IA
- 2011 Use of Geographic Variation to Infer Treatment Effectiveness: Surgery for Early Stage Lung Cancer  
Panel Discussant  
University of Iowa "Challenges in Comparative Effectiveness Research" Panel  
Iowa City, IA
- 2013 A National Evaluation of the Quality of Cancer Care in the Veterans Health Administration  
Invited Lecture  
The Dartmouth Institute  
Hanover, NH
- 2013 Real World Treatment Patterns and Outcomes  
Poster Discussant  
American Society of Clinical Oncology 2013 Annual Meeting  
Chicago, IL
- 2013 Studying Quality and Outcomes of Cancer Care  
Hematology/Oncology Grand Rounds  
Warren Alpert Medical School

Providence RI

- 2013      Screening for Breast Cancer and the US Preventive Services Task Force Recommendations  
Grand Rounds  
Beth Israel Medical Center  
New York, NY
- 2014      What We Know About Tumor Boards: Research from the U.S  
Invited Presentation  
American Society of Clinical Oncology 2013 Annual Meeting  
Chicago, IL
- 2016      Diffusion of Bevacizumab Across Oncology Practices  
Invited Presentation  
Cancer Outcomes Research Group, Johns Hopkins University School of Medicine  
Baltimore, MD
- 2016      Individualizing Breast Cancer Screening Decisions  
Medicine Grand Rounds  
Johns Hopkins University School of Medicine  
Baltimore, MD
- 2016      Assessing the Impact of Colonoscopy Complications on use of Colonoscopy among  
Primary Care Physicians and Other Connected Physicians  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Hollywood, FL
- 2016      Cancer Research Poster Walk and Talk  
Discussant and Invited Professor of Cancer Research  
Society of General Internal Medicine Annual Meeting  
Hollywood, FL
- 2017      Diffusion of Bevacizumab Across Oncology Practices  
Invited Presentation  
Health Services Research Speaker Seminar Series, Brown University School of Public  
Health Seminar Series  
Providence, RI
- 2017      Understanding Factors Contributing to Geographic Variations in End-of-Life Care  
Intensity  
Invited Presentation  
Palliative Care Research Consortium Investigators Meeting  
Denver, CO
- 2018      Understanding Variations in Intensity of Care at the End of Life  
Invited Presentation and Visiting Professor  
Comprehensive Cancer Center Population Sciences Seminar Series, University of  
Michigan Comprehensive Cancer Center

Ann Arbor, MI

- 2018 An Evaluator's Perspective on the Oncology Care Model  
Invited Presentation for Panel: Innovative Payment Models and Innovations in Cancer Care Delivery  
ASCO Annual Meeting Economics of Cancer Care Precourse  
Chicago, IL
- 2018 Understanding Factors Contributing to Geographic Variations in End-of-Life Care Expenditures  
Invited Presentation  
ASCO Annual Meeting  
Chicago, IL
- 2018 More Good Days: A Pilot Study to Improve Discussions of Goals of Care for Patients with Advanced-Stage Cancer  
Invited Presentation  
National Palliative Care Research Center Annual Meeting  
San Diego, CA
- 2019 Research Using Registries  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Washington, DC
- 2019 Using Administrative Data to Understand Care Delivery  
Invited Presentation  
ASCO Annual Meeting  
Chicago, IL
- 2019 Understanding Area-Level Variations in Cancer Care Delivery  
Invited Presentation  
Alliance of Dedicated Cancer Centers (ADCC) Quality Committee National Meeting  
Boston, MA
- 2019 Application and Measurement of Quality in Cancer Care Delivery Systems: Challenges & Lessons Learned  
Invited Panelist  
National Comprehensive Cancer Center Policy Summit: Defining, Measuring, and Applying Quality in an Evolving Health Policy Landscape and the Implications for Cancer Care  
Washington, DC
- 2020 Key Considerations in Adopting a Value-Based Payment Model  
Invited Speaker  
National Comprehensive Cancer Center Annual Conference [scheduled; converted to virtual presentation by NCCN due to coronavirus related travel restrictions]  
Orlando, FL

- 2020 Measuring Quality Across Oncology Practices  
Invited Speaker, Virtual Presentation  
ASCO Measures Steering Group  
Arlington, VA
- 2020 The Breast Lump and Breast Cancer Screening  
Invited Guest/Audio Podcast  
Curbsiders Internal Medicine Podcast, VCU Health  
Richmond, VA
- 2020 Opportunities for System-level Redesign and Policy Change  
Invited Speaker, Virtual Presentation  
National Cancer Policy Forum Workshop on Addressing the Adverse Consequences of  
Cancer Treatment  
Washington, DC
- 2021 Research Using Registries  
Invited Speaker, Virtual Presentation  
Society of General Internal Medicine Annual Meeting  
Virtual Meeting
- 2022 Measuring Quality and Equity Across Oncology Practices  
Invited Speaker, Seminar Series  
Department Biomedical Data Science, Geisel School of Medicine at Dartmouth  
Hanover, NH
- 2022 Research Using Registries: Discovery, Equity, and Impact  
Invited Speaker  
Society of General Internal Medicine Annual Meeting  
Orlando, FL
- 2022 Cancer Screening and Surveillance Testing for Older Adult Cancer Survivors  
Invited Speaker, Virtual Presentation  
National Comprehensive Cancer Center Annual Conference  
Washington, DC
- 2022 Measuring Quality of Oncology Care  
Invited Speaker, 3rd Charles Donahue Endowed Lecture  
Department of Health Law, Policy, & Management, Boston University School of Public  
Health  
Boston, MA
- 2022 Alternative Payment Models in Oncology: What Have We Learned So Far?  
Invited Speaker Cancer Prevention & Control Grand Rounds (Virtual)  
University of Texas MD Anderson Cancer Center  
Houston, TX
- 2022 Alternative Payment Models in Oncology: Past, Present, Future?

Invited Speaker Cancer Outcomes Research Seminar (Virtual)  
Cancer Outcomes Research Program, University of North Carolina  
Raleigh, NC

- 2022 Evaluating Quality and Equity of Oncology Care  
3<sup>rd</sup> Charles Donahue Endowed Lecture  
Department of Health Law, Policy, & Management, Boston University School of Public Health  
Boston, MA
- 2022 Alternative Payment Models in Oncology: Past, Present, Future  
Invited Speaker, Health Policy Seminar (Virtual)  
Center for the Evaluation of Value and Risk in Health at Tufts Medical Center  
Boston, MA
- 2023 The Value of Hospice Care: Evidence from Facility Openings  
Discussant  
ASHEcon Annual Meeting  
St. Louis, MO
- 2023 New Ways to Pay for High-Cost Drugs  
Panel Member, A Prescription for the Future of Drug Pricing Conference  
Penn Leonard Davis Institute of Health Economics  
Philadelphia, PA

### **International**

One presentation below\* was sponsored by an outside entity and the name of the sponsor is noted.

- 2007 Factors Affecting Influential Discussions Among Physicians: A Social Network Analysis of a Primary Care Practice  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Toronto, Ontario, Canada
- 2007 Primary and Specialty Care before Death and Hospice Enrollment among Women with Advanced Breast Cancer  
Invited Presentation  
Society of General Internal Medicine Annual Meeting  
Toronto, Ontario, Canada
- 2009 Understanding Variations in End-of-Life Care for Cancer Patients  
Invited Presentation  
Oncology Grand Rounds  
Sheba Medical Center Cancer Center  
Tel Hashomer, Israel
- 2013 Cancer Survivors: Key Advocates for a Better Future  
Invited Presentation

Breast Cancer and Survival: Challenges and Responses International Conference  
Mexico National Rehabilitation Institute  
Mexico City, Mexico

2013 Caring for Breast Cancer Survivors: What Can we Learn from the US and Canada?  
Invited Presentation  
Breast Cancer and Survival: Challenges and Responses International Conference  
Mexico National Rehabilitation Institute  
Mexico City, Mexico

2014 Cardiovascular Disease and Diabetes with Androgen Deprivation Therapy—the US  
Perspective  
Invited Presentation and Meeting Chair  
Expert Meeting on Cardiovascular Risk and Androgen Deprivation Therapy  
Ferring Pharmaceuticals (honorarium and travel expenses declined)\*  
Copenhagen, Denmark

2014 Racial and Ethnic Disparities in Cancer Care: Lessons from the U.S. CanCORS study  
Invited Presentation  
Department of Public Health, Section of Health Services Research  
University of Copenhagen  
Copenhagen, Denmark

2014 Understanding Variations in Intensity of End-of-Life Cancer Care  
Invited Presentation  
Institute for Clinical and Evaluative Sciences Research Rounds  
Sunnybrook Health Sciences Center  
Toronto, Canada

2017 Current Practices for Screening and Early Detection of Breast Cancer in the U.S.  
Invited Presentation  
Butaro Cancer Center of Excellence Early Detection Team Meeting  
Kigali, Rwanda

2018 Learning from Research on Cancer Disparities in the U.S.  
Invited Speaker for Plenary Panel: The Burden of Cancer Due to Inequalities and Its  
Likely Causes  
National Cancer Research Institute  
Glasgow, United Kingdom

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

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

1995 State of Massachusetts

1996 Diplomate, American Board of Internal Medicine, recertified 2006, 2016

#### **Practice Activities**

	<b>Type of Activity</b>	<b>Setting of Practice</b>	<b>Description</b>
1993-	Outpatient primary care practice	Brigham Internal Medicine Associates, Brigham and Women's Hospital	1 scheduled session per week and urgent visits throughout the week
1998-	Outpatient primary care preceptor	Brigham Internal Medicine Associates, Brigham and Women's Hospital	Weekly session supervising care for patients of 4-5 residents
1998-2014	Inpatient care attending	General Medical Service, Brigham and Women's Hospital	2-4 weeks per year

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

1996-2006      Volunteer Physician      New England Shelter for Homeless Veterans

### **Report of Scholarship**

#### **Peer reviewed publications in print or other media**

#### **Original Research Investigations**

1. **Keating NL**, Zaslavsky AM, Ayanian JZ. Physicians' experiences and beliefs regarding informal consultation. *JAMA* 1998; 280:900-904.
2. **Keating NL**, Cleary PD, Rossi AS, Zaslavsky AM, Ayanian JZ. Use of hormone replacement therapy by postmenopausal women in the United States. *Ann Intern Med* 1999; 130:545-553.
3. **Keating NL**, Zaslavsky AM, Ayanian JZ. Physicians' reports of expertise in clinical practice. *J Gen Intern Med* 2000; 15:417-420.
4. Dudley RA, Landon BE, Rubin HR, **Keating NL**, Medlin CA, Luft HS. Assessing the relationship between quality of care and the characteristics of health care organizations. *Med Care Res Rev* 2000; 57 (Suppl 2):116-135.
5. **Keating NL**, Weeks JC, Landrum MB, Borbas C, Guadagnoli E. Discussion of treatment options for early-stage breast cancer: effect of provider specialty on type of surgery and satisfaction. *Med Care* 2001; 39:681-691.
6. **Keating NL**, Green D, Kao A, Gazmararian JA, Wu V, Cleary PD. How are patients' specific ambulatory care experiences related to trust, satisfaction, and considering changing physicians? *J Gen Intern Med* 2002;17:29-39.
7. **Keating NL**, Guadagnoli E, Landrum MB, Borbas C, Weeks JC. Treatment decision making in early-stage breast cancer: should surgeons match patients' desired level of involvement? *J Clin Oncol* 2002; 20:1473-1479.
8. Polsky D, **Keating NL**, Weeks JC, Schulman KA. The utility of choice: options for breast cancer treatment. *Med Care* 2002; 40:1068-1079.
9. Newhouse JP, Buchanan JL, Bailit HL, Blumenthal D, Buntin MB, Caudry D, Cleary PD, Epstein AM, Fitzgerald P, Frank RG, Gorski H, Huskamp HA, **Keating NL**, Landon BE, McNeil BJ, Palmer RH, Rosenthal MB, Zaslavsky AM. Managed care: an industry snapshot. *Inquiry* 2002; 39:207-220.



10. **Keating NL**, Weeks JC, Borbas C, Guadagnoli E. Treatment of early stage breast cancer: do surgeons and patients agree regarding whether treatment alternatives were discussed? *Breast Cancer Res Treat* 2003; 79:224-231.
11. **Keating NL**, Landrum MB, Ayanian JZ, Winer EP, Guadagnoli E. Consultation with a medical oncologist before surgery and type of surgery among elderly women with early-stage breast cancer. *J Clin Oncol.* 2003; 21:4532-4539.
12. **Keating NL**, Landrum MB, Landon BE, Ayanian JZ, Borbas C, Guadagnoli E. Measuring the quality of diabetes care—comparison of administrative data and medical record data. *Health Services Res* 2003; 38:1529-1545.
13. **Keating NL**, Landon BE, Ayanian JZ, Borbas C, Guadagnoli E. Practice, clinical management, and financial arrangements of practicing generalists: are they associated with satisfaction? *J Gen Intern Med* 2004; 19:410-418.
14. **Keating NL**, Gandhi TK, Orav EJ, Bates DW, Ayanian JZ. Patient characteristics and experiences associated with trust in specialist physicians. *Arch Intern Med* 2004; 164:1015-1020.
15. **Keating NL**, Landrum MB, Landon BE, Ayanian JZ, Borbas C, Wolf R, Guadagnoli E. The influence of physicians' practice management strategies and financial arrangements on quality of care among patients with diabetes. *Med Care* 2004; 42:829-839.
16. Persell SD, **Keating NL**, Landrum MB, Landon BE, Ayanian JZ, Borbas C, Guadagnoli E. Relationship of diabetes-specific knowledge to self-management activities, ambulatory quality of care, and metabolic outcomes. *Prev Med* 2004; 39:746-752.
17. **Keating NL**, Landrum MB, Ayanian JZ, Winer EP, Guadagnoli E. The association of ambulatory care with breast cancer stage at diagnosis among Medicare beneficiaries. *J Gen Intern Med.* 2005; 20:38-44.
18. **Keating NL**, Landrum MB, Meara E, Ganz PA, Guadagnoli E. Do increases in managed care market share influence quality of care in the fee-for-service sector? *J Natl Cancer Inst.*2005; 97:257-264.
19. Huskamp HA, **Keating NL**. The new Medicare drug benefit: formularies and their potential effects on access to medications. *J Gen Intern Med* 2005; 20:662-665.
20. **Keating NL**, Nørredam M, Landrum MB, Huskamp HA, Meara E. Physical and mental health status of older long-term cancer survivors. *J Am Geriatr Soc* 2005; 53:2145-2152.
21. **Keating NL**, Landrum MB, Guadagnoli E, Winer EP, Ayanian JZ. Factors related to underuse of surveillance mammography among breast cancer survivors. *J Clin Oncol* 2006; 24:85-94.
22. **Keating NL**, Landrum MB, Meara E, Ganz PA, Guadagnoli E. Managed care market share and primary treatment for cancer. *Health Serv Res*, 2006; 41:9-22.
23. **Keating NL**, Herrinton LJ, Zaslavsky AM, Liu L, Ayanian JZ. Variations in hospice use among cancer patients. *J Natl Cancer Inst.* 2006; 98:1053-1059.
24. Grabowski DC, Stevenson DG, Huskamp HA, **Keating NL**. The influence of Medicare home health payment incentives: does payer source matter? *Inquiry* 2006; 43:135-149.
25. **Keating NL**, O'Malley AJ, Smith MR. Diabetes and cardiovascular disease during androgen deprivation therapy for prostate cancer. *J Clin Oncol.* 2006; 24:4448-4456.
26. Huskamp HA, Stevenson DG, Donahue JM, Newhouse JP, **Keating NL**. Coverage and prior authorization of psychotropic drugs under Medicare Part D. *Psych Services* 2007; 58:308-310.
27. **Keating NL**, Landrum MB, Guadagnoli E, Winer EP, Ayanian JZ. Surveillance testing among survivors of early-stage breast cancer. *J Clin Oncol* 2007; 25:1074-1081.

28. **Keating NL**, Landrum MB, Landon BE, Ayanian JZ, Borbas C, Guadagnoli E. The influence of cost containment strategies and physicians' financial arrangements on patients' trust and satisfaction. *J Ambul Care Manage* 2007; 30:92-104.
29. Stevenson DG, Huskamp HA, **Keating NL**, Newhouse JP. Medicare Part D and nursing home residents. *J Am Geriatr Soc* 2007; 55:1115-1125.
30. **Keating NL**, Ayanian JZ, Cleary PD, Marsden PV. Factors affecting influential discussions among physicians: a social network analysis of a primary care practice. *J Gen Intern Med* 2007; 22:794-798.
31. Rosenthal MB, Landrum MB, Huskamp HA, Meara E, Conti RM, **Keating NL**. Using performance data to identify preferred hospitals. *Health Serv Res* 2007. 42:2109-2119.
32. **Keating NL**, Zaslavsky AM, Herrinton LJ, Selby JV, Wolf RE, Ayanian JZ. Quality of diabetes care among cancer survivors with diabetes. *Med Care* 2007; 45:869-875.
33. Stevenson DG, Huskamp HA, Grabowski, DG, **Keating NL**. Differences in hospice care between home and institutional settings. *J Palliat Med* 2007;10:1040-1047.
34. Landrum MB, Meara E, Chandra A, Guadagnoli E, **Keating, NL**. Is spending more always wasteful? The appropriateness of care and outcomes among colorectal cancer patients. *Health Aff* 2008; 27: 159-168.
35. **Keating NL**, Landrum MB, Guadagnoli E, Winer EP, Ayanian JZ. Care in the months before death and hospice enrollment among older women with advanced breast cancer. *J Gen Intern Med* 2008; 23:11-18.
36. **Keating NL**, O'Malley AJ, McNaughton Collins M, Oh WK, Smith MR. Use of androgen deprivation therapy for metastatic prostate cancer in older men. *BJU Int* 2008; 101:1077-1083.
37. Huskamp HA, Newhouse JP, Norcini JC, **Keating NL**. Per diem payment and variation in patient-level hospice costs. *Inquiry* 2008; 45:232-244.
38. Huskamp HA, Stevenson DG, **Keating NL**, Newhouse JP. Prescription drug claim rejections for nursing home residents under Medicare Part D. *Health Aff* 2008; 2:560-567.
39. Hu JC, Wang Q, Pashos CL, Lipsitz S, **Keating NL**. Utilization and outcomes of laparoscopic radical prostatectomy. *J Clin Oncol* 2008; 26:2278-2284.
40. Gandhi TK, **Keating NL**, Ditmore M, Kiernan D, Johnson R, Burdick E, Hamann C. Improving referral communication using a referral tool within an electronic medical record. *AHRQ Advances in Patient Safety* 2008; 3:63-74.
41. **Keating NL**, Zaslavsky AM, Goldstein J, West DW, Ayanian JZ. Randomized trial of \$20 vs. \$50 incentives to increase physician survey response rates. *Med Care* 2008;46:878-81.
42. **Keating NL**, Landrum MB, Klabunde CN, Fletcher RH, Rogers SO, Doucette WR, Tisnado D, Clauser S, Kahn KL. Adjuvant chemotherapy for stage III colon cancer: do physicians agree about the importance of patient age and comorbidity? *J Clin Oncol* 2008; 26:2532-2537.
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44. **Keating NL**, Stoeckert KA, Regan MM, DiGianni L, Garber JE. Physicians' reports about BRCA1/2 testing in community settings. *J Clin Oncol* 2008; 26:5789-5796.
45. Freedman RA, He Y, Winer EP, **Keating NL**. Trends in racial and age disparities in definitive locoregional therapy of early-stage breast cancer. *J Clin Oncol* 2009; 27:713-719.

46. Grabowski DC, Stevenson DG, Huskamp HA, **Keating NL**. Ownership status and length of home health care enrollment. *J Aging Soc Policy* 2009; 21:130-143.
47. Huskamp HA, **Keating NL**, Malin JL, Zaslavsky AM, Weeks JC, Earle CC, Teno JN, Virnig BA, Kahn KL, He Y, Ayanian JZ. Discussions with physicians about hospice among patients with metastatic lung cancer. *Arch Intern Med* 2009; 169:954-962.
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49. **Keating NL**, Kouri E, He Y, Weeks JC, Winer EP. Racial differences in definitive breast cancer surgery: are they explained by the hospitals where patients undergo surgery? *Med Care* 2009; 47:765-73.
50. Lee IH, Hayman JA, Landrum MB, Tepper J, Tao ML, Goodman KA, **Keating NL**. Treatment recommendations for locally advanced, non-small-cell lung cancer: the influence of physician and patient factors. *Int J Radiat Oncol Biol Phys* 2009; 74(5):1376-84.
51. Klabunde C, Ambs A, **Keating NL**, He Y, Doucette W., Tisnado D, Clauser S, Kahn KL. The role of primary care physicians in the management of lung and colorectal cancer patients. *J Gen Intern Med* 2009; 24:1029-1036.
52. Norredam M, Meara E, Landrum MB, Huskamp HA, **Keating NL**. Financial status, employment, and insurance among older cancer survivors. *J Gen Intern Med* 2009; 24 (Suppl 2):S438-S445.
53. Rogers SO, Ayanian JZ, Ko CY, Kahn KL, Zaslavsky AM, Sandler RS, **Keating NL**. Surgeons' volume of colorectal cancer procedures and collaborative decision-making about adjuvant therapies. *Ann Surgery* 2009; 250:895-900.
54. Hu JC, Gu X, Lipsitz SR, Barry MJ, D'Amico A, Fowler FJ, Weinberg AC, **Keating NL**. Comparative effectiveness of minimally invasive versus open radical prostatectomy. *JAMA* 2009; 302:1557-1564.
55. **Keating NL**, O'Malley AJ, Freedland SJ, Smith MR. Diabetes and cardiovascular disease during androgen deprivation therapy: observational study of veterans with prostate cancer. *J Natl Cancer Inst* 2010. 102:39-46.
56. **Keating NL**, Landrum MB, Rogers SO, Baum SK, Virnig BA, Huskamp HA, Earle CC, Kahn KL. Physician factors associated with discussions about end-of-life care. *Cancer* 2010. 116:998-1006.
57. Fang F, **Keating NL**, Mucci L, Adami H-O, Stampfer M, Valdimarsdóttir U, Fall K. Immediate risk of suicide and cardiovascular death following a prostate cancer diagnosis in the Surveillance, Epidemiology, and End Results Program. *J Natl Cancer Inst* 2010. 102:307-314.
58. Lamont EB, Landrum MB, **Keating NL**, Archer L, Lan L, Strauss GM, Lilenbaum R, Niell HB, Maurer LH, Kosty MP, Miller AA, Clamon GH, Elias AD, McClay EF, Vokes EE, and McNeil BJ. Differences in clinical trial patients' attributes and outcomes according to enrollment setting. *J Clin Oncol* 2010. 28:215-21.
59. Oh WK, Landrum MB, Lamont EB, McNeil BJ, **Keating NL**. Does oral antiandrogen use before luteinizing hormone-releasing hormone therapy in patients with metastatic prostate cancer prevent clinical consequences of a testosterone flare? *Urology* 2010; 75:642-647.
60. Earle CC, Chretien Y, Morris C, Ayanian JZ, **Keating NL**, Polgreen LA, Wallace R, Ganz PA, Weeks JC. Employment and insurance coverage among survivors of lung cancer and colorectal cancer. *J Clin Oncol* 2010; 28:1700-1705.

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62. Kouri EM, He Y, Winer EP, **Keating NL**. Influence of birthplace on breast cancer diagnosis and treatment for Hispanic women. *Breast Cancer Res Treat* 2010. 121:743–751.
63. Rogers SR, Gray SW, Landrum MB, Klabunde CN, Fletcher RH, Kahn KL, Clauser S, Tisnado D, Doucette W, **Keating NL**. Variations in surgeon treatment recommendations for lobectomy in early-stage non small cell lung cancer by patient age and comorbidity. *Ann Surg Oncol* 2010; 17:1581-1588.
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68. Smith Nielsen S, He Y, Ayanian JZ, Lin Gomez S, Kahn KL, West DW, **Keating NL**. Quality of cancer care among foreign-born and US-born patients with lung or colorectal cancer. *Cancer* 2010; 116:5497-506.
69. **Keating NL**, Landrum MB, Brooks JM, Chrischilles EA, Winer EP, Wright K, Volya R. Outcomes following surgery for early-stage breast cancer in non-trial populations. *Br Can Res Treat* 2011;125:803-813.
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73. **Keating NL**, Landrum MB, Lamont EB, Bozeman SR, Krasnow SH, Shulman LN, Brown JR, Earle CC, Oh WK, Rabin M, McNeil BJ. Quality of care for older patients with cancer in the Veterans Health Administration versus the private sector. *Ann Intern Med*. 2011; 154: 727-736.
74. **Keating NL**, O’Malley AJ, Murabito JM, Smith KP, Christakis NA. Minimal social networks effects evident in cancer screening behavior. *Cancer* 2011; 117: 3045-3052.
75. Barnett ML, Landon BE, O’Malley AJ, **Keating NL**, Christakis NA. Mapping physician networks with self-reported and administrative data. *Health Serv Res* 2011; 46: 1592-609.
76. Barnett ML, Christakis NA, O’Malley AJ, Onnela JP, **Keating NL**, Landon BE. Physician patient-sharing networks and the cost and intensity of care in US hospitals. *Med Care* 2012. 50:152-60.

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80. Kouri EM, Landrum MB, Lamont EB, Bozeman SR, McNeil BJ, **Keating NL**. Location of care for veterans with cancer. *Health Serv Res* 2012; 47: 783-793.
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### **Other Peer-Reviewed Publications**

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#### **Reviews, Chapters, Monographs and Editorials**

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## **Narrative Report**

As a clinician investigator, I focus 80% of my effort on research, and the remaining time in clinical work and teaching. My health services **research activities** focus on two major areas: 1) provider, patient, and health system factors that influence quality of care and treatment decisions and (2) the effectiveness, and comparative effectiveness, of treatments in non-trial populations. My research, which primarily uses cancer care as a model, is collaborative and uses a variety of methods to address challenges to the receipt of optimal care.

I have conducted numerous studies examining factors influencing the quality of cancer care across the spectrum of disease, including screening and diagnosis, treatment, surveillance care, and end-of-life care. I currently serve as the Clinical Lead of the Centers for Medicare & Medicaid Services' Oncology Care Model (OCM) Evaluation Team. Our team is using mixed methods, including quasi-experimental difference-in-differences analyses to assess the impact of OCM on Medicare payments, utilization, quality, and outcomes. Other work has focused on provider factors (including the types of physicians patients see and the hospitals and organizations (e.g., Veterans Affairs providers), patient factors, such as age, race/ethnicity, insurance, and clinical factors. I also have substantial experience studying end-of-life care, demonstrating sizable variations in the intensity of end-of-life care and assessing the reasons behind these variations. I conducted work under a NCI-funded R01 to examine the effects of physician networks on adoption of new and existing cancer therapies. More recently, I am leading a R01 to assess the impact of financial integration in oncology on care delivery and patient outcomes. I am also working with the National Cancer Institute to develop a program project to explore integration in oncology more deeply.

I have conducted several studies examining effectiveness of treatments frequently used in clinical practice in patients who were not like those in the original clinical trials. In widely-cited work, I identified an association of androgen deprivation therapy for prostate cancer with an increased risk of diabetes and cardiovascular disease. This work has led to new guidelines and an FDA drug safety communication about the risk of GnRH agonists (<http://www.fda.gov/Drugs/DrugSafety/ucm229986.htm>). My research assessing physicians' recommendations for cancer treatment of older patients and those with comorbid illness is stimulating new efforts to enroll these patients in clinical trials.

My **clinical and teaching activities** include seeing patients in my longitudinal primary care clinic one-half day per week and precepting four residents weekly during their afternoon continuity clinic. Remaining clinically active allows me to understand first-hand the challenges that physicians face in delivering of high quality care and the challenges that patients face in accessing affordable, high quality care. I also provide regular lectures to the residents on topics including cancer screening and reading the medical literature. Since 2012, I have served as Team Leader for my clinical team (the Red Team) in the Phyllis Jen Center, leading primary care transformation at the practice, initially as part of the Harvard Medical School Primary Care Collaborative.

Finally, I have been very active nationally in the Society of General Internal Medicine (SGIM). I served as the Program Chair of the Annual Meeting in 2004 and recently completed a 3-year term on the organization's Council. I am currently chair of the Research Subcommittee of the SGIM Health Policy Committee. I have served as an Associate Editor for the Journal of Clinical Oncology and was previously a member of the American Society of Clinical Oncology (ASCO) Clinical Guidelines Committee. I am currently Associate Editor at the Journal of the National Cancer Institute, a member of the editorial board of the Journal of Geriatric Oncology, and a member of the National Comprehensive Cancer Center Older Adult Oncology Guideline Panel.