

CURRICULUM VITAE

Date Prepared: June 2019
Name: Nancy Lynn Keating
Office Address: Department of Health Care Policy
180 Longwood Avenue, Room 201
Boston, MA 02115
Work Phone: (617) 432-3093
Work E-Mail: keating@hcp.med.harvard.edu
Work FAX: (617) 432-0173

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

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

2015-2018	2015- Member Standing Committee on Promotions, Reappointments, and Appointments	Harvard Medical School
2015-2016	2015-2018 Member Faculty Search Committee, Peter L. Goss Chair in General Internal Medicine	Massachusetts General Hospital
2016	2015-2016 Member Harvard Tenure Review Ad Hoc Committee	Harvard University
2016-2017	2016 Member Faculty Search Committee, Department of Health Care Policy	Harvard Medical School
2017-2018	2016-2017 Member Task Force on Promotion Criteria for Clinical Expertise and Innovation and Teaching and Educational Leadership	Harvard Medical School
2017-	2017-2018 Member 2017-2018 Subcommittee Chair External Advisory Committee for NCI T32 “Training Program in Cancer Biology”	Massachusetts General Hospital Cancer Center
2017-2018	2017 Member Faculty Search Committee, Director of the Mongan Institute	Massachusetts General Hospital
2018-	2017-2018 Member Selection Committee, Program Award for Culture of Excellence in Mentoring	Harvard Medical School
2018-	2018- Member Subcommittee of Professors Promotions Committee	Harvard Medical School
2018-	2018- Member Connors Center First-in-Women Precision Medicine Platform	Brigham and Women’s Hospital Connors Center for Women’s Health and Gender Biology
	2018- Expert Consultant	
Regional		
2005-2007	Evaluation Project Expert Panel 2005-2007 Member	Massachusetts Women’s Health Network
2016-	Massachusetts Cancer Registry Advisory Committee 2016- Member	Massachusetts Cancer Registry
National		
2000-2003	Selection Committee 2000-2003 Member	Blue Cross Blue Shield National Awards for Best Practices
2004-2006	Breast Cancer Technical Panel 2004-2006 Member	National Quality Forum
2005	Evidence-Based Practice Center: The Periodic Health Exam 2005 Technical Expert	Johns Hopkins University
2008-	National Comprehensive Cancer Network Senior Oncology Guideline Panel 2008- Panel Member	National Comprehensive Cancer Network

2008	Writing Group for the American Heart Association Scientific Statement on Androgen Deprivation Therapy and Cardiovascular Risk 2008 Panel Member	American Heart Association
2010	NIH State-of-the-Science Conference: <i>Enhancing Use and Quality of Colorectal Cancer Screening</i> 2010 Panel Member	National Institutes of Health
2010-2013	Blue Cross and Blue Shield Association Blue Distinction Cancer Recognition Programs 2010-2013 Consultant Panel Member	Blue Cross and Blue Shield Association
2010-2017	Androgen Deprivation Therapy for Prostate Cancer 2010-2017 Medical Editor	Informed Medical Decisions Foundation
2011-2014	Clinical Practice Guidelines Committee 2011-2014 Panel Member	American Society of Clinical Oncology
2012	Provider Survey Initiative Expert Panel 2012 Panel Member	National Cancer Institute
2013-2017	Cancer Research Network External Advisory Panel 2013-2017 Panel Member	Cancer Research Network
2013-2014	External Scientific Peer Review Committee, Surveillance & Health Services Research Program 2013-2014 Panel Member	American Cancer Society
2013-	Economics of Innovation Workgroup 2013- Panel Member	Leukemia and Lymphoma Society
2014-2015	Review of Clinical Guidance for the Care of Health Conditions Identified by the Camp Lejeune Legislation 2014-2015 Committee Member	Institute of Medicine
2014-	Early Detection & Screening Section for Susan G Komen's consumer education website <i>Understanding Breast Cancer</i> 2014- Faculty Reviewer	Susan G Komen for the Cure Foundation
2014-2015	Advisory Board on Prostate Cancer Survivorship 2014-2015 Member	Prostate Cancer Foundation
2015-2016	Search Committee, National Cancer Institute Associate Director for Healthcare Delivery Research Program 2015- 2016 Member	National Cancer Institute
2015-2017	External Advisory Panel for " <i>The National Survey of Precision Medicine in Cancer Treatment</i> " 2015- 2017 Member	National Cancer Institute
2018	Alumni Awards Committee 2018 Member	University of Chicago
2018-2019	Quality Measure Development National	Tufts Medical Center

Advisory Board
2018-2019 Member

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 2017- Panel Member	International Cancer Benchmarking Partnership

Professional Societies

1993-1999, American Medical Association

2007- 1993-1999 Member
2007- Member

1993- Massachusetts Medical Society

1993- Member

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, 27th 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
 2015- 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, 2005	Scientific Review Committee 2002, 2005 Ad-hoc Grant Reviewer 2003 Grant Reviewer	California Breast Cancer Research Program
2002	Scientific Review Committee 2002 Ad-hoc Grant Reviewer	National Cancer Institute
2005	Special Emphasis Panel 2005 Grant Reviewer	CDC National Center for Chronic Disease Prevention & Health Promotion
2006-2007	Psychosocial and Behavioral Research Review Committee 2006-2007 Member	American Cancer Society
2007-2011	Health Services Research Scientific Review	American Cancer Society

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

Peer Reviewer for Funded Research

Patient-Centered Outcomes Research Institute Final Report: Impact of a patient-centered oncology care model on utilization, patient experiences and quality

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-	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>

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	Academy Health	

2017	End of Life 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

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 Transfer of Information Via Social Networks Survey of primary care physicians at BWH to understand how physicians share information.	\$1,870
2003-2005	PI	Doris Duke Charitable Foundation Doris Duke Charitable Foundation Clinical Scientist Award (T99040C) 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.	\$200,000
2004-2007	PI	SPORC, National Cancer Institute 5 P50 CA090381-03 Cancer Survivorship in Men with Prostate Cancer Examined the association of androgen deprivation therapy for prostate cancer with development of diabetes and cardiovascular disease.	\$109,544
2004-2007	PI	Novartis ZOL446G US94 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.	\$174,164
2005-2009	PI	National Cancer Institute R01 CA104118 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.	\$731,737
2005-2010	Co-PI	Veterans Health Administration Federal Contract 15592/18866 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.	\$554,615

2008-2012	PI	National Cancer Institute R01 CA127652	\$687,690
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	\$895,067
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.			
Current			
2013-2018	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.			
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.
- 2014-2019 PI National Cancer Institute
K24 \$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.
- 2015-2020 Clinical Lead Center for Medicare and Medicaid Services
PI, subcontract No grant number \$2,215,046
Evaluation of the Oncology Care Model
CMS is launching the Oncology Care Model demonstration project, with a goal of improving the effectiveness and efficiency of specialty care. The model will pay oncology practices \$160 enhanced care management payment per 6-month episode of chemotherapy combined with performance-based shared savings if spending targets are reached. We will work with colleagues at Abt Associates and The Lewin Group to assess the impact of the program on utilization, spending, quality, and patient- and provider-reported experiences.
- 2015-2020 Co-investigator Agency for Health Care Research and Quality
U19HS024072 (PI: Cutler, David)
Measuring the Clinical and Economic Outcomes Associated with Delivery Systems
To determine whether differences in the delivery of evidence-based care processes and clinical and economic outcomes can be explained by characteristics of organizations that can be understood and modified, or whether such outcomes are ‘residual’ characteristics of organizations that are hard to transfer.
- 2015-2020 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

2019-2023 Obstetrical and Oncological Outcomes Among Reproductive Age Women with
 Gynecological and Breast Cancer
 National Cancer Institute (K08)
 Mentoring (PI: Alejandro Rauh-Hain)

Current Unfunded Projects

2015- Mentor Effects of breast density legislation on breast imaging
 Assessing changes in utilization of imaging tests following breast density legislation

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) Faculty Tutor	HMS 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) Lecturer	HMS 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) Small Group Discussion Leader	HSPH 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) Tutorial Leader	HMS 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 160 medical/dental students	Essentials of Medicine: Part 1-Introduction to Health Care Policy (HC750) HMS 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- 15 residents	“Counseling patients about breast cancer risk and breast cancer prevention” BWH	1.5 hour lecture given twice per year
1999-2005 15 residents	“Managed care: How do health plans influence the delivery of care?” BWH	1.5 hour lecture given twice per year
1999- 15 residents	“Reading the medical literature: How to read an article about therapy” BWH	1.5 hour lecture given twice per year
2011- 15 post-doctoral fellows	“Writing an Abstract” Harvard General Internal Medicine Fellowship Program	1 hour lecture given once per year
2012- 25 residents	“Breast and Colorectal Cancer Screening” 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 8 third year medical students
 Teaching Resident 1 month per year (15 hours per week)

1996- General Internal Medicine Clinic 4-5 residents
 Attending Physician 12 months per year (4 hours per week)

1997- General Medical Service 2 medical students, 2 interns, 1 resident
 Attending Physician 2-4 weeks per year (20 hours per week)

1998- General Internal Medicine Clinic 4-5 residents
 Attending Physician 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 work 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 Assistant 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 4th 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 Pediatric Oncology Fellow
Member of Fellowship Scholarship Oversight Committee

2010- Alexi Wright, MD Assistant Professor of Medicine, Dana-Farber Cancer Institute
Supervised research as junior faculty member, primary mentor on K application, several manuscripts published, others in progress

2010-2014 Gaby Soriano, MD Instructor in 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 3 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- Stacy Gray, MD Associate Professor, City of Hope
Supervised research as junior faculty, several manuscripts

2011- Stacie Dusetzina, PhD Associate Professor, Vanderbilt University Medical Center
Supervised research during residency, numerous manuscripts published.

2011-2014 Cleo Samuel, PhD Assistant Professor, University of North Carolina Medical School
Doctoral thesis committee member, 2 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 career development 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, several manuscripts, primary mentor for K award.

2013- Robert Griffiths, PhD Senior Health Economist, Health Economics Center of Excellence at
Boston Scientific
Member of dissertation committee, several papers published

2014-2015 Kenneth Kehl, MD Instructor in Medicine, Dana-Farber Cancer Institute
Supervised research in year before oncology fellowship, 5 papers published

2014- Loren Saulsbery Assistant Professor, University of Chicago
Member of dissertation committee, Papers in progress

2015- Alejandro Rauh-Hain Assistant Professor, MD Anderson Cancer Center
Supervised research during Program in Cancer Outcomes Research Training Fellowship, 2 papers published

2015-2018 Katie Greenzang Instructor, Dana-Farber Cancer Institute
Member of Fellowship Scholarship Oversight Committee

2015-2017 Jessica Roydhouse Researcher, Federal Drug Administration
Supervised research as a doctoral student at Brown, several papers published

2015-2017 Lisa Rotenstein Medical Resident, Brigham and Women's Hospital
Supervised research as medical student, Paper published

2015- Aaron Winn Assistant Professor, Medical College Wisconsin
Member of dissertation committee, 2 manuscripts published, others in progress

2016- Gabriel Brooks Assistant Professor, Dartmouth Medical School
Supervised research as junior faculty, Papers in progress

2016-2019 Hyosin Dawn Kim Research Scientist, University of Oregon
Member of dissertation committee, 1 paper published, another in progress

2017- Alex Melamed Fellow, Massachusetts General Hospital
Supervised research, papers in progress

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

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

Formal Teaching of Peers

2006 Lecture: Breast Cancer Treatment of Single presentation

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

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

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
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2014 Racial/Ethnic Disparities in Cancer Care

Global Youth Summit on the
Future of Medicine
Brandeis University, Waltham, MA

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

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/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

	Type of Activity	Setting of Practice	Description
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.
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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. This 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; work that has prompted my current NCI R01 focused on understanding the reasons behind these variations. I also have an NCI-funded R01 to examine the effects of physician networks on adoption of new and existing cancer therapies.

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. I also attend in the outpatient clinic for 2 weeks each year. 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 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 Senior Oncology Guideline Panel.