

CURRICULUM VITAE

Date Prepared: January 2012
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Place of Birth: Towson, Maryland; U.S. Citizen

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

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	Harvard Medical School Faculty Council		Harvard Medical School
2004-2005	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		

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	Faculty Search Committee, Department of Health Care Policy 2010-2011 Member	Harvard Medical School
2011	Harvard Medical School Honors Committee 2011 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
Regional		
2005-2007	Evaluation Project Expert Panel 2005-2007 Member	Massachusetts Women's Health Network
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- Member	National Comprehensive Cancer Network
2008	Writing Group for the American Heart Association Scientific Statement on Androgen Deprivation Therapy and Cardiovascular Risk 2008 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-	Blue Cross and Blue Shield Association Blue Distinction Cancer Recognition Programs 2010- Consultant Panel Member	Blue Cross and Blue Shield Association
2010-	Androgen Deprivation Therapy for Prostate Cancer 2010- Medical Editor	Foundation for Informed Medical Decision Making

2011-2014	Clinical Practice Guidelines Committee 2011-2014 Member	American Society of Clinical Oncology
2012	Provider Survey Initiative Expert Panel 2012 Member	National Cancer Institute

International

2010-	Global Task Force on Expanded Access to Cancer Care and Control in the Developing World 2010- Technical Advisory Committee	Global Task Force on Expanded Access to Cancer Care and Control in the Developing World
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Professional Societies

1993-1999, American Medical Association

2007-	1993-1999 Member 2007- Member
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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, 2011, 2012)
2000-	Annual Meeting Workshop Review Committee
2001-	Judge, Associates Award and Junior Faculty Award
2003-2004	Program Chair, 27 th Annual Meeting
2004-2009	Coordinator, ABIM Continuous Professional Development Self-Evaluation Process Session at Annual Meeting
2006	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	Member, Council
2009-2011	Member, Capital Campaign Committee
2009-2010	Council Liaison, Geriatrics Task Force
2009-	Council Liaison, Evidence Based Medicine Task Force
2010-	Council Liaison, Research Committee
2011	Member, Glaser Award Selection Committee

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
- 2010-** **American Cancer Society Cancer Action Network**
2007- Member
- 2011-** **American Society for Clinical Investigation**
2011- Member
2012 Abstract reviewer

Grant Review Activities

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| 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 |
| 2008-2011 | Health Services Research Scientific Review
Committee
2007-2010 Member
2010-2011 Ad-hoc Grant Reviewer | American Cancer Society |
| 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 | Cancer Risk and Disparities Program Review Panel
2011 Co-Chair | Dana-Farber/Harvard Cancer Center |
| 2012 | Scientific Review Committee, “Applying Behavioral
Economics to Perplexing Health and Health Care
Problems” | Robert Wood Johnson |

2012

Grant reviewer

Editorial Activities

Ad hoc Reviewer

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
Archives of 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

Other Editorial Roles

2004-	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>

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	
2010	American Society for Clinical Investigation	American Society for Clinical Investigation	Honor society of physician-scientists
2011	Excellence in Tutoring Award	Harvard Medical School	Recognition of outstanding teaching, Health Policy 750

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.	
2003-2005	PI	Doris Duke Charitable Foundation	\$200,000

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.

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.	
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.	
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	\$731,737
		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.	
2001-2009	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 physician survey across the consortium and participated actively in data collection for our study site.	
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.

Current

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	Prostate Cancer Foundation Foundation Research Grant	\$300,000
Prevention of Treatment and Disease-Related Morbidity during Androgen Deprivation Therapy: A Multicenter Proposal Examined 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.			
2008-2012	PI	Komen Foundation Foundation Research Grant	\$246,979
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.			
2009-2012	Co-investigator	National Cancer Institute U01 CA93324-01	
Cancer Care Outcomes Research & Surveillance Consortium Renewal (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 physician survey across the consortium and participated actively in data collection for our study site.			
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

2010-2011 PI Harvard Catalyst | The Harvard Clinical and Translational Science Center \$50,000
NIH Award UL1 RR 025758

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.

2010-2014 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. More specifically, this study will determine whether black-white differences exist regarding: 1) communication processes (prognostic information-seeking and exposure); 2) communication goals (knowledge of terminal illness and treatment options, emotional acceptance, treatment preferences, and therapeutic alliance); and 3) the effect of communication processes and communication goals on clinical outcomes at the EOL (quality of life; receipt of life-prolonging procedures and palliative care in the last month of life; treatment goal attainment).

2011-2013 PI Dana-Farber Cancer Institute Mazzone \$100,000
Disparity Award

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.

Current Unfunded Projects

2008- Mentor Quality of care for patients with inflammatory bowel disease
Assessing bone densitometry testing for patients with inflammatory bowel disease at high risk for bone loss.

2009- Mentor Benefits of mammography over time by race
Assessing benefits of mammography for black vs. white women.

2010- Mentor Calculating benefits of cancer prevention.
Assessing the impact of cancer prevention on life expectancy and costs of care.

Report of Local Teaching and Training

Teaching of Students in Courses

1996-1997 10 third year medical students	Primary Care Clerkship Faculty Tutor	Preparation time: not applicable; Contact time: 5 hours per month
1996-1998 6 first year medical students	Patient/Doctor I Faculty Tutor	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	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	1-2 lectures per year Preparation time: 6 hours; Contact time: 2-4 hours
2004 8 graduate students	Medical Sociology Reading course Lecturer	One lecture per year Preparation time: 2 hours; Contact time: 1.5 hours
2005- 15 masters students	Introduction to Epidemiology (EPI 208) Small Group Discussion Leader	1 month per year Preparation time: 1 hour, Contact time 4-10 hours
2010- 8-10 medical students	Introduction to Health Care Policy (HC750) Tutorial Leader	One month per year Preparation time: 12 hours, Contact time 12 hours
2010- 100 masters students	Introduction to Epidemiology (EPI 208) Core Faculty	6 weeks per year Preparation time: 2 hours, Contact time 12 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	Lecture given twice per year Preparation time: 3 hours; Contact time 2 hours
1999-	“Managed care: How do health plans influence the delivery of care?” 15 residents	Lecture given twice per year Preparation time: 3 hours; Contact time 2 hours
1999-	“Reading the medical literature: How to read an article about therapy” 5 post-doctoral fellows	Lecture given twice per year Preparation time: 3 hours; Contact time 2 hours

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

Formally Supervised Trainees

2004-2008	Marie Norredam, M.D.	Assistant Professor, University of Copenhagen, Denmark Supervised work as a post-doctoral fellow studying abroad resulting in two publications.
2006-2008	Jim Hu, MD	Assistant Professor of Surgery, Brigham and Women’s Hospital 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	Instructor in Medicine, Dana-Farber Cancer Institute

Supervised work during fellowship resulting in a national presentation and publication; continued supervision during early years on faculty with additional manuscripts under review or in progress.

2007-2009 Melissa Minor, MD Staff Physician, North Shore Medical Center
Supervised work during fellowship with a national presentation and manuscript under review.

2009 Signe Smith Neilson Post-doctoral Fellow, University of Copenhagen
Supervised work during doctoral program resulting in a publication.

2009-2010 Vinod Nambudiri Medical Resident, Brigham and Women's Hospital
Supervised work during medical school thesis with a manuscript published and one under review.

2009-2010 Neal Chaterjee Medical Resident, Massachusetts General Hospital
Supervised research during 4th year with a manuscript under review.

2008-2010 Christine Chung Radiation Oncologist
Supervised research in a co-mentorship role during residency with a manuscript in progress.

2009- Elise Park, PhD Assistant Professor of Psychology, Massachusetts General Hospital
Supervised research as a junior faculty member with 1 first-author publication under review; others in progress

2010-2012 Selwyn Rogers, Jr. MD Associate Professor of Surgery, Brigham and Women's Hospital
Supervised research as a junior faculty member with 2 first-author publications

2010-2012 Michael Liu, MD, PhD Post-Doctoral Fellow, supported by Taiwanese government
Supervised research during postdoctoral fellowship. One manuscript under review, 2 in progress.

2010- Paola Friedrich-Medina Pediatric Oncology Fellow
Member of Fellowship Scholarship Oversight Committee

2010- Alexi Wright Instructor in Medicine, Dana-Farber Cancer Institute
Supervised research, co-mentor on K application as junior faculty, 1 manuscript published, several in progress

2010- Gaby Soriano Fellow, Memorial Sloan Kettering Hospital
Supervised research during residency, 1 manuscript in preparation.

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		

Local Invited Presentations

1997	Physician Beliefs About Informal or 'Curbside' Consultation	Quality of Care Research Seminar Series
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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	Quality of Breast Cancer Care—Results from a Study in Massachusetts and Minnesota	Faulkner Hospital Multidisciplinary Breast Cancer Conference Faulkner Hospital, 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: Focus on 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

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

National

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

International

- 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

Report of Clinical Activities and Innovations

Current Licensure and Certification

1995 State of Massachusetts
1996 Diplomate, American Board of Internal Medicine (#167484), recertified 2006

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-	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

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.
43. Prasad SM, **Keating NL**, Wang Q, Pashos CL, Lipsitz S, Hu JC. Variations in surgeon volume and use of pelvic lymph node dissection with open and minimally invasive radical prostatectomy. *Urology* 2008; 72:647-52.
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.

48. Hassett M, O'Malley AJ, **Keating NL**. Factors influencing changes in employment among women with newly diagnosed breast cancer. *Cancer* 2009; 115:2775-82.
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.

61. **Keating NL**, Landrum MB, Lamont EB, Earle CC, Bozeman SR, McNeil BJ. End-of-life care for older cancer patients in the Veterans Health Administration versus the private sector. *Cancer* 2010; 116:3732-9.
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.
64. Cooper Z, Meyers M, **Keating NL**, Gu X, Lipsitz SR, Rogers SO. Resident education and management of end of life care: the resident’s perspective. *J Surg Educat* 2010; 67:79-84.
65. Huskamp HA, Stevenson DG, Grabowski DC, Brennan E, **Keating NL**. Long and short hospice stays among nursing home residents at the end of life. *J Palliat Med* 2010. 13:957-964.
66. **Keating NL**, Landrum MB, Arora NK, Malin JL, Ganz PA, vanRyn M, Weeks JC. Cancer patients’ roles in treatment decisions: do characteristics of the decision influence roles? *J Clin Oncol* 2010. 28:4364-4370.
67. Wright AA, **Keating NL**, Balboni TA, Matulonis UA, Block SD, Prigerson HG. Place of death: associations with patients’ quality of life and bereaved caregivers’ mental health. *J Clin Oncol* 2010. 28:4457-4464.
68. **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.
69. 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.
70. Freedman RA, Virgo KS, He Y, Pavluck AL, Winer EP, Ward EM, **Keating NL**. The association of race/ethnicity, insurance status, and socioeconomic factors with breast cancer care. *Cancer* 2011; 117: 180-9.
71. Klabunde CN, **Keating NL**, Potosky AL, Ambs A, He Y, Hornbrook MC, Ganz PA. A population-based assessment of specialty physicians’ involvement in cancer clinical trials. *J Natl Cancer Inst* 2011; 103:384-397.
72. Lamont EB, Landrum MB, **Keating NL**, Bozeman SR, McNeil BJ. Evaluating colorectal cancer care in the Veterans Health Administration: How good are the data? *J Geriatric Oncol*. 2011; 2: 187-193.
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. Park ER, Japuntich S, Rigotti NA, Traeger L, He Y, Wallace R, Malin J, Pandiscio J, **Keating NL**. Continued smoking among lung and colorectal cancer patients: a population-based study. *Cancer*. In press.
77. Gray SW, Landrum MB, Lamont EB, McNeil BJ, Jaklitsch MT, **Keating NL**. Improved outcomes associated with higher surgery rates for older patients with early-stage non-small cell lung cancer. *Cancer* 2011. In press.
78. Barnett ML, Christakis NA, O'Malley AJ, Onnela JP, **Keating NL**, Landon BE. Physician networks are associated with the cost and intensity of care in US hospitals. *Medical Care*. In press.
79. Kouri EM, Landrum MB, Lamont EB, Bozeman SR, McNeil BJ, **Keating NL**. Location of care for veterans with cancer. *Health Serv Res*. In press.
80. Landrum MB, **Keating NL**, Lamont EB, Bozeman SR, McNeil BJ. Reasons for underuse of recommended therapies for colorectal and lung cancer in the Veterans Health Administration. *Cancer*. In press.
81. Ligibel JA, O'Malley AJ, Fisher M, Daniel GW, Winer EP, **Keating NL**. Risk of myocardial infarction, stroke, and fracture in a cohort of community-based breast cancer patients. *Br Can Res Treat* 2012; 131: 589-597.
82. Barnett ML, **Keating NL**, O'Malley AJ, Christakis NC, Landon BE. Reasons for referral among primary care and specialist physicians. *J Gen Intern Med* 2011. In press.
83. Landrum MB, **Keating NL**, Lamont EB, Bozeman SR, Krasnow SH, Shulman LN, Brown JR, Earle CC, Oh WK, Rabin M, McNeil BJ. Survival of older cancer patients in the Veterans Health Administration versus fee-for-service Medicare. *J Clin Oncol* 2011. In press.
84. Mack JW, Cronin A, Taback N, Huskamp HA, **Keating NL**, Malin JL, Earle CC, Weeks JC. End-of-life discussions among patients with advanced cancer: a cohort study. *Ann Intern Med* 2011. In press.
85. Chatterjee NA, He Y, **Keating NL**. Racial disparities in breast cancer stage at diagnosis in the mammography era. *Am J Pub Health* 2011. In press.
86. McGinty E, Zhang Y, Guallar E, Ford D, Steinwachs D, Dixon L, **Keating NL**, Daumit G. Cancer incidence in a sample of Maryland residents with serious mental illness. *Psych Services* 2011. In press.
87. Taksler G, **Keating NL**, Cutler DC. Explaining racial differences in prostate cancer mortality. *Cancer* 2011. In press.
88. Nambudiri VE, Landrum MB, Lamont EB, McNeil BJ, Bozeman SR, Freedland SJ, **Keating NL**. Primary prostate cancer treatment within the Veterans Health Administration and the private sector. *Urology* 2011. In press.
89. Kiderlen M, Bastiaannet E, Walsh PM, **Keating NL**, Schrodi S, Engel J, van de Water W, Ess SM, van Eycken L, Miranda A, de Munck L, van de Velde CJH, de Craen AJM, Liefers GJ. Surgical

treatment of early-stage breast cancer in elderly: an international comparison. *Br Cancer Res Treat* 2012. In press.

90. **Keating NL**, Landrum MB, Lamont EB, Bozeman SR, McNeil BJ. Area-level variations in cancer care and outcomes. *Med Care* 2012. In press.
91. Hu JC, O'Malley AJ, Williams SB, Smith MR, Nguyen PL, **Keating NL**. Androgen-deprivation therapy for non-metastatic prostate cancer is associated with an increased risk for peripheral arterial disease and venous thromboembolism. *Eur Urol* 2012. In press.

Research Investigations under Review

1. Minor MA, Singh SC, Ghimire S, **Keating NL**. DEXA testing in patients with inflammatory bowel disease who are at risk for osteoporosis: Are we meeting guidelines for osteoporosis screening? Revision under review.
2. Landon BL, **Keating NL**, Barnett ML, Onnela J-P, Paul S, O'Malley AJ, Keegan T, Christakis NA. Variation in patient-sharing networks of physicians across the United States. Submitted.
3. Chung C, York T, K, Xu Y, **Keating NL***, Tarbulla N. Incidence of second malignancies among patients treated with proton versus photon radiation. Submitted. *Shared senior author.
4. Liu P-H, Wang J-D, **Keating NL**. Expected years of life lost for six potentially preventable cancers in the United States. Submitted.
5. Bitton A, Green C, Kouri EK, **Keating NL**. Chronic disease prevention through comprehensive tobacco control in Uruguay. Submitted.
6. Abel GA, Friese CR, Neville BA, Wilson KM, Hastings BT, Earle CC, **Keating NL**, Richardson LC. Primary care referrals for suspected hematologic malignancies. Submitted.
7. Dusetzina SB, Alexander GC, Freedman RA, Huskamp HA, **Keating NL**. Trends in co-prescribing of antidepressants and tamoxifen among women with breast cancer, 2004-2010. Submitted.
8. Weeks JC, Catalano PJ, Cronin A, Finkelman MD, Mack JW, **Keating NL**, Schrag D. Beliefs of patients with advanced lung and colorectal cancer about the effectiveness of chemotherapy: A population-based study. Under review.
9. Mack JW, Cronin A, **Keating NL**, Taback N, Huskamp HA, Malin JL, Earle CC, Weeks JC. Associations between end-of-life discussion characteristics and care received near death: A prospective cohort study. Under review.
10. Freedman RA, Hughs ME, Otteson RA, Weeks JC, He Y, Wong Y-N, Theriault R, **Keating NL**. Use of adjuvant trastuzumab in women with human epidermal growth factor receptor 2 (HER2)-positive breast cancer by race/ethnicity within the National Comprehensive Cancer Network. Under review.

Non-peer reviewed scientific or medical publications/materials in print or other media

Reviews, Chapters, Monographs and Editorials

1. **Keating NL**, Ayanian JZ. Challenges and opportunities for primary care evaluation. *Int J Qual Health Care*. 2003; 15:371-373.
2. Huskamp HA, **Keating NL**. The new Medicare drug benefit: potential effects of pharmacy management tools on access to medications. Report to Kaiser Family Foundation. July 2004. Accessed at <http://www.kff.org/medicare/7120a.cfm>.
3. Malin JL, **Keating NL**. The cost-quality trade-off: need for data quality standards for studies that impact clinical practice and health policy. *J Clin Oncol* 2005; 23:4581-4584.
4. Smith MR, O'Malley AJ, **Keating NL**. GnRH agonists, diabetes, and cardiovascular disease in men with prostate cancer: what metabolic syndrome? *BJU Int* 2008. 101:1335-1336.
5. Saylor PJ, **Keating NL**, Smith MR. Prostate cancer survivorship: prevention and treatment of the adverse effects of androgen deprivation therapy. *J Gen Intern Med* 2009; 2009; 24 Suppl 2:S389-94.
6. Levine GN, D'Amico AV, Berger P, Clark PE, Eckel RH, **Keating NL**, Milani RV, Sagalowsky AI, Smith MR, Zakai N. Scientific advisory: androgen deprivation therapy in prostate cancer and cardiovascular risk. *Circulation* 2010;121:833-840.
7. Levine GN, D'Amico AV, Berger P, Clark PE, Eckel RH, **Keating NL**, Milani RV, Sagalowsky AI, Smith MR, Zakai N. Scientific advisory: androgen deprivation therapy in prostate cancer and cardiovascular risk. *CA Cancer J Clin* 2010; 60:194-201.
8. Nambudiri VE, **Keating NL**. Metabolic and cardiovascular risks of androgen deprivation therapy for prostate cancer. *Expert Rev Endo Metab* 2010; 5:531-537.
9. Steinwachs DM, Allen J, Barlow W, Egede LE, Friedman L, Duncan R, **Keating NL**, Kim P, Virnig BA, Lave J, LaVeist T, Ness R, Optican O. Consensus conference statement on quality of colorectal cancer screening. *Ann Intern Med* 2010; 152:663-667.
10. **Keating NL**. Medicare reimbursement and prescribing of hormone therapy for prostate cancer. *J Natl Cancer Inst* 2010; 102:1814-5.
11. Saylor PJ, **Keating NL**, Freedland SJ, Smith MR. Use of gonadotropin releasing hormone (GnRH) agonists and the risk of diabetes and cardiovascular disease. *Drugs* 2011; 71:255-261.
12. Kouri EM, **Keating NL**. Managing symptoms over time. Book chapter in *Health Services for Cancer Survivors: Practice, Policy, and Research*. Editors: Michael Feuerstein and Patricia A. Ganz. Springer, New York, NY. 2011.
13. **Keating NL**, Malin JL. Providing cancer care: individual or team sport? *J Gen Intern Med* 2012; 27: 3-4.
14. Knaul FM, Arreola-Ornelas H, Adami H-O, **Keating NL**, Hunter D, O'Brien M, Cleary J, Frenk J. The global cancer divide: an equity imperative. Chapter in: *Closing the Cancer Divide: A Blueprint to Expand Access in Low and Middle Income Countries*. Editors: Knaul FM, Frenk J, Shulman L for the Global Task Force on Expanded Access to Cancer Care and Control in Developing Countries. Harvard Global Equity Initiative, Boston MA. October 2011. Accessed at http://ghsm.hms.harvard.edu/uploads/pdf/ccd_report_111027.pdf.

15. **Keating NL**, Knaul FM. Evidence for decision making. Chapter in: Closing the Cancer Divide: A Blueprint to Expand Access in Low and Middle Income Countries. Editors: Knaul FM, Frenk J, Shulman L for the Global Task Force on Expanded Access to Cancer Care and Control in Developing Countries. Harvard Global Equity Initiative, Boston MA. October 2011. Accessed at http://ghsm.hms.harvard.edu/uploads/pdf/ccd_report_111027.pdf.

Books/Textbooks for the Medical or Scientific Community

1. **Keating NL**, contributing editor. Komaroff AL, editor. Harvard Medical School Family Health Guide, 1999. New York: Simon and Schuster.

Letters to the Editor

1. **Keating NL**, Ayanian JZ, Zaslavsky AM. Hormone replacement therapy in postmenopausal U.S. women [letter]. Ann Intern Med 1999; 131:791.
2. **Keating NL**, Herrinton LJ, Zaslavsky AM, Liu L, Ayanian JZ. Understanding variations in hospice enrollment [letter]. J Natl Cancer Inst 2007; 99: 84.
3. **Keating NL**, Kahn KL. Physicians' discussion of end-of-life options. Cancer 2011. In press.
4. Freedman RA, **Keating NL**. The association of race/ethnicity, insurance status, and socioeconomic factors with breast cancer care. Cancer 2011. In press.

Clinical Guidelines and Reports

1. Gallagher PM, Hauser H, Guadagnoli E, **Keating N**. Report of tests of strategies to increase response rates from physicians. Proc Statistics Canada Symposium 2001. Accessed at <http://www.statcan.gc.ca/pub/11-522-x/2001001/session9/6257-eng.pdf>.

Narrative Report

As a clinician investigator, I spend the majority of my time conducting research, and the remainder providing primary care and teaching residents and medical students. My **primary research interest** is in the quality of care delivered to patients with cancer across the care spectrum from diagnosis to treatment to survivorship or death, specifically focusing on (1) quality of care and outcomes for patients with cancer; (2) coordination of care; and (3) communication between providers and patients.

I am currently conducting several studies to understand factors influencing the quality of care delivered to patients with cancer across the spectrum of disease, including screening and diagnosis, treatment, surveillance care, and end-of-life care. I am conducting several studies to understand whether patients with prostate cancer or breast cancer are receiving recommended treatments and examining the impact of various types of treatments on outcomes. As part of this work, I was the first to demonstrate the association of androgen deprivation therapy for prostate cancer with an increased risk of diabetes and cardiovascular disease. This work has already been cited more than 230 times and led to new guidelines and an FDA drug safety communication about the risk of GnRH agonists (<http://www.fda.gov/Drugs/DrugSafety/ucm229986.htm>). I have also published comparative effectiveness studies of emerging surgical technologies for prostate cancer. These studies have

received widespread media attention for their broad implications. 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. As part of the NCI-funded Cancer Care Outcomes Research Consortium (a collaborative effort between investigators at 7 sites to examine patterns of care and outcomes for patients with colorectal and lung cancer), I led the development and data collection for the physician survey component of the project, I am also examining the quality of cancer care delivered to patients with cancer in the Veterans Administration Health System and comparing with cancer care delivered in the private sector.

Work related to understanding coordination of care and the role of different types of providers on care includes examining the contribution of providers of differing specialties to the diagnosis, treatment, surveillance, and hospice enrollment for women with breast cancer. I have also examined the effect of discussing surgical treatment options for breast cancer with a medical oncologist on treatment decision-making and I have examined the use of informal or "curbside" consultation to understand its role in patient care. Work related to communication includes studies of treatment decision making among cancer patients and studies of patients' experiences with their care in the ambulatory setting s.

In addition to my research, my **clinical activities** include seeing patients in my longitudinal primary care clinic one-half day per week and precept four residents weekly during their afternoon continuity clinic. I also attend on the general medical service in the hospital for 2-4 weeks each year and in the outpatient clinic for 2 weeks each year. I greatly enjoy practicing medicine and teaching, and have found that 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.

Finally, I have been very active nationally in the Society of General Internal Medicine. I served as the Program Chair of the Annual Meeting in 2004 and am currently serving a 3-year term on the organization's Council. I have served as an Associate Editor for the Journal of Clinical Oncology, and am currently a member of the National Comprehensive Cancer Network (NCCN) Senior Oncology Guideline Panel and the American Society of Clinical Oncology (ASCO) Clinical Guidelines Committee.