

**Ellen Siobhan O'Meara, PhD**  
***Curriculum Vitae***

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**EDUCATION**

University of Washington, Seattle, Washington  
PhD, Epidemiology, December 1999

University of Washington, Seattle, Washington  
MS, Epidemiology, June 1995

Stanford University, Stanford, California  
AB, Human Biology, June 1991

**PROFESSIONAL POSITIONS**

Principal Collaborative Scientist (formerly Research Associate IV), March 2018-present  
Kaiser Permanente Washington Health Research Institute, Seattle, Washington

Research Associate III, November 2009-March 2018  
Kaiser Permanente Washington Health Research Institute, Seattle, Washington

Research Scientist 4 (Epidemiologist), September 1999-October 2009  
Collaborative Health Studies Coordinating Center, Department of Biostatistics  
University of Washington, Seattle, Washington

Research Associate, September 1996-September 1999  
Weiss-Daling Studies (Cancer Epidemiology)  
Fred Hutchinson Cancer Research Center, Seattle, Washington

Research Assistant, September 1993-September 1996  
Alzheimer's Disease Studies, Department of Epidemiology  
University of Washington, Seattle, Washington

Research Assistant / Project Coordinator, September 1990-August 1993  
Stanford Alzheimer's Center, Department of Psychiatry and Behavioral Sciences  
Stanford University School of Medicine, Stanford, California

## HONORS, AWARDS, SCHOLARSHIPS

National Research Service Award predoctoral trainee, Cancer Epidemiology and Biostatistics Training Program, National Institutes of Health, 1996-1999

Molecular Biology and Pathology of Neoplasia Workshop travel scholarship, American Association for Cancer Research, Keystone, Colorado, 1998

Student Workshop on Epidemiologic Methods presenter, 30th Annual Meeting of the Society for Epidemiologic Research, Edmonton, Alberta, Canada, 1997

New Investigators Workshop presenter, 21st Annual Meeting of the American Society of Preventive Oncology, New Orleans, Louisiana, 1997

Alternate, Howard Hughes Medical Institute Predoctoral Fellowships in Biological Sciences, 1994

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### Peer-reviewed research articles

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2. Kukull WA, Schellenberg GD, Bowen JD, McCormick WC, Yu C-E, Teri L, Thompson JD, **O'Meara ES**, Larson EB. Apolipoprotein E in Alzheimer's disease risk and case detection: A case-control study. *J Clin Epidemiol.* 1996;49:1143-8.
3. Larson EB, Edwards JK, **O'Meara E**, Nochlin D, Sumi SM. Neuropathologic diagnostic outcomes from a cohort of outpatients with suspected dementia. *J Gerontol A Biol Sci Med Sci.* 1996;51A(6):M313-8.
4. **O'Meara ES**, Kukull WA, Schellenberg GD, Bowen JD, McCormick WC, Teri L, Pfanschmidt M, Thompson JD, Larson EB. Alzheimer's disease and history of blood transfusion by apolipoprotein E genotype. *Neuroepidemiology.* 1997;16:86-93.
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9. Elkins JS, **O'Meara ES**, Longstreth WT Jr, Carlson MC, Manolio TA, Johnston SC. Stroke risk factors and loss of high cognitive function. *Neurology.* 2004 Sep 14;63(5):793-9.

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11. Pearte CA, Furberg CD, **O'Meara ES**, Psaty BM, Kuller L, Powe N, Manolio T. Characteristics and baseline clinical predictors of future fatal versus nonfatal coronary heart disease events in older adults: the Cardiovascular Health Study. *Circulation*. 2006 May 9;113(18):2177-85.
12. Sullivan MD, **O'Meara ES**. Heart failure at the end of life: symptoms, function, and medical care in the Cardiovascular Health Study. *Am J Geriatr Cardiol*. 2006 Jul-Aug;15(4):217-25.
13. Van der Hagen PB, Folsom AR, Jenny NS, Heckbert SR, **O'Meara ES**, Reich LM, Rosendaal FR, Cushman M. Subclinical atherosclerosis and the risk of future venous thrombosis in the Cardiovascular Health Study. *J Thromb Haemost*. 2006 Sep;4(9):1903-8.
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16. Diehr P, **O'Meara ES**, Fitzpatrick A, Newman AB, Kuller L, Burke G. Weight, mortality, years of healthy life and active life expectancy in older adults. *J Am Geriatr Soc*. 2008 Jan;56(1):76-83.
17. Olson N, **O'Meara ES**, Jenny NS, Folsom AR, Bovill EG, Furberg C, Heckbert SR, Psaty BM, Cushman M: Lipoprotein-associated phospholipase A<sub>2</sub> and risk of venous thrombosis in older adults. *Am J Hematol* 2008 Jul;83(7):524-7.
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  75. Kerlikowske K, Zhu W, Su YR, Sprague BL, Stout NK, Onega T, **O'Meara ES**, Henderson LM, Tosteson ANA, Wernli K, Miglioretti DL. Supplemental magnetic resonance imaging plus mammography compared with magnetic resonance imaging or mammography by extent of breast density. *J Natl Cancer Inst*. 2023 Oct 27:djad201. doi: 10.1093/jnci/djad201. Epub ahead of print. PMID: 37897090. <https://doi.org/10.1093/jnci/djad201>
  76. Jayasekera J, Stein S, Wilson OWA, Wojcik KM, Kamil D, Røssell EL, Abraham LA, **O'Meara ES**, Schoenborn NL, Schechter CB, Mandelblatt JS, Schonberg MA, Stout NK. Benefits and Harms of Mammography Screening in 75 + Women to Inform Shared Decision-making: a Simulation Modeling Study. *J Gen Intern Med*. 2023 Nov 27. doi: 10.1007/s11606-023-08518-4. Epub ahead of print. PMID: 38010458.
  77. Kerlikowske K, Zhu W, Su YR, Sprague BL, **O'Meara ES**, Tosteson ANA, Wernli KJ, Miglioretti DL. Response to Omoleye, Esserman, Olufunmilayo. *J Natl Cancer Inst*. 2024 Apr 5;116(4):629-630. doi: 10.1093/jnci/djae011. PMID: 38230817; PMCID: PMC10995845. [letter]
  78. Trentham-Dietz A, Chapman CH, Jayasekera J, Lowry KP, Heckman-Stoddard BM, Hampton JM, Caswell-Jin JL, Gangnon RE, Lu Y, Huang H, Stein S, Sun L, Gil Quessep EJ, Yang Y, Lu Y, Song J, Muñoz DF, Li Y, Kurian AW, Kerlikowske K, **O'Meara ES**, Sprague BL, Tosteson ANA, Feuer EJ, Berry D, Plevritis SK, Huang X, de Koning HJ, van Ravesteyn NT, Lee SJ, Alagoz O, Schechter CB, Stout NK, Miglioretti DL, Mandelblatt JS. Collaborative Modeling to Compare Different Breast Cancer Screening Strategies: A Decision Analysis for the US Preventive Services Task Force. *JAMA*. 2024 Apr 30. doi: 10.1001/jama.2023.24766. Epub ahead of print. PMID: 38687505.
  79. Lange J, Gard CC, Miglioretti DL, **O'Meara ES**, Etzioni R. Breast density and risk of breast cancer: masking and detection bias. *Am J Epidemiol*, in press.
  80. Sprague BL, Ichikawa L, Eavey J, Lowry KP, Rauscher GH, **O'Meara ES**, Miglioretti DL, Lee JM, Stout NK, Herschorn SD, Perry H, Weaver DL, Kerlikowske K. Supplemental ultrasound screening performance in women with dense breasts and varying breast cancer risk: results from the Breast Cancer Surveillance Consortium. *Radiology*, in press.

**Manuscripts in review**



## FUNDING HISTORY

### Current projects

National Cancer Institute U01 CA249866 Multifactorial Breast Cancer Risk Prediction Accounting for Ethnic and Tumor Diversity Role: KPWHRI Site PI (Contact PI: Nilanjan Chatterjee)	6/1/2023-5/31/2024 \$49,159 (KPWHRI direct)
National Cancer Institute R01 CA282725 Clinical Breast Cancer Risk Prediction Models for Women with a High-Risk Benign Breast Diagnosis Role: KPWHRI Site PI (PI: Brian Sprague)	9/19/2023-8/31/2028 \$421,023 (KPWHRI direct)
Cancer Institute of New South Wales (Australia) 2022/ECF1420 Screening Outcomes in Women with a Family History of Breast Cancer: Digital Breast Tomosynthesis Versus Digital Mammography Role: KPWHRI Site PI (PI: Tong Li)	1/1/2023-12/31/2024 \$43,903 (KPWHRI direct)
National Cancer Institute P01 CA154292 Advancing Equitable Risk-Based Breast Cancer Screening and Surveillance in Community Practice – SCC Role: KPWHRI Site PI (SCC) (Contact PI: Diana Miglioretti)	9/16/2022-8/31/2027 \$2,060,394 (KPWHRI direct)
National Cancer Institute R01 CA262023 Population-Based Evaluation of Artificial Intelligence for Mammography Prior to Widespread Clinical Translation Role: Co-I (PI: Christoph Lee)	7/1/2022-6/30/2027 \$284,699 (KPWHRI direct)
National Cancer Institute R01 CA266377 Racial and Socioeconomic Disparities in Breast Cancer Diagnostic Work Up and Outcomes Role: KPWHRI Site PI (PI: Christoph Lee)	6/1/2021-5/31/2026 \$580,787 (KPWHRI direct)
National Cancer Institute U01 CA253911 Comparative Modeling of Precision Breast Cancer Control Across the Translational Continuum Role: KPWHRI Site PI (PI: Amy Trentham-Dietz)	9/1/2020-8/31/2025 \$156,433 (KPWHRI direct)
National Cancer Institute R01 CA248068 Identifying Effective Risk-Based Supplemental Ultrasound Screening Strategies for Women with Dense Breasts Role: KPWHRI Site PI (PI: Brian Sprague)	3/1/2020-2/28/2025 \$464,309 (KPWHRI direct)

## Completed projects

National Cancer Institute U01 CA253911 Comparative Modeling of Precision Breast Cancer Control Across the Translational Continuum: Supplement Role: KPWHRI Site PI (PI: Amy Trentham-Dietz)	9/1/2021-8/31/2023 \$10,000 (KPWHRI direct)
Medical Research Future Funds, Australia Dept of Health Performance Measures for Digital Breast Tomosynthesis and Digital Mammography in Cohorts of Patients Previously Diagnosed with Breast Cancer Role: KPWHRI Site PI (PI: Nehmat Houssami)	6/1/2021-12/31/2022 \$88,416 (KPWHRI direct)
National Cancer Institute R01 CA242735 Modeling to Minimize Detection Bias in Cancer Risk Prediction Studies Role: KPWHRI Site PI (PI: Ruth Etzioni)	9/19/2019-8/31/2022 \$161,242 (KPWHRI direct)
Patient-Centered Outcomes Research Institute PCS-1504-30370 Comparative Effectiveness of Breast Cancer Screening and Diagnostic Evaluation by Extent of Breast Density Role: KPWHRI Site PI (SCC) (Contact PI: Diana Miglioretti)	9/1/2016-8/30/2022 \$1,260,996 (KPWHRI (SCC) direct)
National Cancer Institute P01 CA154292 Risk-Based Breast Cancer Screening and Surveillance in Community Practice – SCC Role: KPWHRI Site PI (SCC) (Contact PI: Diana Miglioretti)	7/1/2017 – 5/31/2022 \$2,067,644 (KPWHRI (SCC) direct)
National Cancer Institute, National Institute on Aging R01 AG065311 A Conversation Aid on Mammography Screening to Support Shared Decision Making Between Clinicians and Women Aged 75 and Older Role: KPWHRI Site PI (PI: Mara Schonberg)	2/1/2020-11/30/2021 \$77,502 (KPWHRI direct)
Patient-Centered Outcomes Research Institute PCS-1504-30370 (Enhancement) BCSC ADVANCE: COVID-19 Enhancement Role: KPWHRI Site PI (SCC) (Contact PI: Diana Miglioretti)	6/1/2020-7/31/2021 \$42,197 (KPWHRI (SCC) direct)
National Cancer Institute R01 CA207361 Comorbidity and Screening Outcomes among Older Women Undergoing Mammography Role: Co-I (PI: Dejana Braithwaite)	3/1/2017-12/31/2020 \$414,282 (KPWHRI direct)

National Cancer Institute U01 CA199218 Comparative Modeling: Informing Breast Cancer Control Practice and Policy Role: KPWHRI Site PI (PI: Jeanne Mandelblatt)	9/1/2015-8/31/2020 \$99,909 (KPWHRI direct)
National Cancer Institute R01 CA192402 Estimating Overdiagnosis in Cancer Screening Studies Role: KPWHRI Site PI (PI: Ruth Etzioni)	5/1/2015-4/30/2020 \$125,193 (KPWHRI direct)
National Cancer Institute R21 CA205309 National Trends in End of Life Care for Adolescent and Young Adult Cancer Patients Role: Co-I (PI: Karen Wernli)	5/9/2016-4/30/2019 \$254,298 (total direct)
Agency for Healthcare Research and Quality R18 HS023908 The Northwest Coalition for Primary Care Practice Support Role: Co-I (PI: Michael Parchman)	5/1/2015-4/30/2019 \$11,494,978 (total direct)
Healthwise Incorporated Healthwise Shared Decision Making Skills For Providers: CME Evaluation Role: PI	3/20/2017-6/30/2018 \$61,409 (total direct)
Group Health Research Institute Development Fund 216-192 Optum Clare Opioids Role: Co-I (PI: Karen Wernli)	1/1/2017-12/31/2017 \$30,375 (total direct)
Group Health Foundation 2016.142 Shared Decision Making FFQ in Orthopedics Role: PI	9/1/2016-12/31/2017 \$34,586 (total direct)
National Institute of Environmental Health Sciences HHSN273201700075P Association Between Air Toxics and Breast Density and Breast Cancer Role: KPWHRI Site PI (PI: Alexandra White)	2/28/2017-9/30/2017 \$11,435 (KPWHRI direct)
National Cancer Institute P01 CA154292 Risk-Based Breast Cancer Screening in Community Settings: Biostatistics and Data Management Core Role: Co-I (Contact PI: Diana Miglioretti (contact))	9/27/2011-8/31/2017 \$8,037,238 (KPWHRI direct)
National Cancer Institute P01 CA154292 Risk-Based Breast Cancer Screening in Community Settings: Administrative Core	9/27/2011-8/31/2016 \$973,623 (KPWHRI direct)

Role: Co-I (Contact PI: Diana Miglioretti)	
Group Health Research Institute Development Fund Cancer Researchers Bridge Funding Role: Co-I (PI: Erin Bowles)	1/1/2016-12/31/2016 \$122,997 (total direct)
National Cancer Institute HSN261201100031C Breast Cancer Surveillance Consortium Data Resource Role: PI (from 10/2014; previous PIs Rebecca Hubbard, 1/2013-10/2014, and Diana Miglioretti, 9/2011-12/2012)	9/1/2011-7/31/2016 \$4,750,000 (total direct)
National Cancer Institute R03 CA159080 Mammographic Breast Density and Ovarian Cancer Role: Co-I (PI: Karen Wernli)	4/1/2011-3/31/2014 \$100,000 (total direct)
National Cancer Institute U01 CA086076 Statistical Coordinating Center for the Breast Cancer Surveillance Consortium - APRC Supplement Role: Co-I (PI: Diana Miglioretti)	9/30/2009-9/29/2011 \$403,485 (KPWHRI direct)
National Cancer Institute 1RC2CA148577 Comparative Effectiveness of Breast Cancer Imaging Strategies in Community Practice Role: Co-I (Contact PI: Diana Miglioretti)	9/30/2009-8/31/2011 \$2,700,000 (total direct)
National Cancer Institute U01 CA86076 Statistical Coordinating Center for the Breast Cancer Surveillance Consortium Role: Co-I (PI: Diana Miglioretti)	8/1/2005-7/31/2011 \$2,935,409 (total direct)
National Heart, Lung, and Blood Institute HSN268200800007C Cardiovascular Health Study Coordinating Center – Transition Phase (Renewal) Role: Co-I (Co-PIs: Richard Kronmal and Alice Arnold)	6/1/2008–5/31/2011 \$1,800,000 (total direct)
National Institute of Aging R01 AG27058 Hormonal Trajectories in Aging Role: University of Washington Site PI (PI: Anne Cappola)	2/15/2006-1/31/2010
Unilever Research U.S. 1557-S-MA184 Theanine Rich Beverages, Caffeinated Beverages and Cognitive Function in Older Adults Role: University of Washington Site PI (PI: Lenore Arab)	6/1/2009–11/31/2010
Celera Diagnostics LLC 4700010675 Cardiovascular Health Study – Genetics of Cardiovascular	1/1/2009–12/31/2009

Disease (Renewal)  
Role: University of Washington Site PI (PI: Lance Bare)

National Cancer Institute 5T32CA09168 1996-1999  
Cancer Epidemiology and Biostatistics Training Program  
Role: Trainee (PI: Noel Weiss)

National Cancer Institute PHS N01CN67009 1996-1998  
Hormone Therapy after Breast Cancer (Surveillance,  
Epidemiology and End Results Special Project)  
Role: Student (PI: Mary Anne Rossing)

### **Pending applications**

National Cancer Institute (submitted R01) 7/1/2024-6/30/2029  
Evaluation of Commercial Mammography-Based Artificial  
Intelligence Algorithms for Breast Cancer Risk Prediction  
in U.S. Screening Populations \$742,022 (KPWHRI direct)  
Role: KPWHRI Site PI (PI: Kathryn Lowry)

## **OTHER PROFESSIONAL ACTIVITIES AND SERVICE**

### **Committees**

KPWHRI Strategic Work Group to boost scientist—leadership communication at KPWHRI, formed 2023  
Hiring Committee co-chair, Research Associate position, Kaiser Permanente Washington Health  
Research Institute, 2021-2022  
Hiring Committee, Research Associate positions, Kaiser Permanente Washington Health Research  
Institute, 2020  
Comorbidity and Frailty Indices, Kaiser Permanente Washington Health Research Institute, 2017  
Scientific Excellence and Interdisciplinary Engagement strategic aim, Knowledge Management, Group  
Health Research Institute, 2013-2015  
Industry-sponsored Research, Group Health Research Institute, 2011  
Data Documentation Project, Group Health Research Institute, 2010-2011  
Cancer Epidemiology Colloquy series organizer, Fred Hutchinson Cancer Research Center, 1997-1998

### **Manuscript reviews**

Ad hoc Referee: BMC Cancer, BMC Women's Health, PLOS ONE, Scientific Reports (Nature), Journal of  
Women's Health Issues, The Breast, Breast Cancer Management, Maturitas, Human Genetics,  
Cancer Epidemiology, Respiratory Medicine, Journal of the National Cancer Institute, Preventive  
Medicine Reports, Preventive Medicine

### **Abstract reviews**

American Society of Preventive Oncology Annual Meeting, 2024

Health Care Systems Research Network Conference, 2022-2024

Society for Epidemiologic Research, 2012-2018, 2022

3rd North American Congress of Epidemiology, Society for Epidemiologic Research, 2011

### **Membership in professional organizations**

Member, Society for Epidemiologic Research, 1996-1999, 2010-present

Member, American Society of Preventive Oncology, 2010-present

### **Other**

Breast Cancer Surveillance Consortium representative to the NCI Cohort Consortium, 2014-present

## **CONFERENCES AND SYMPOSIUMS**

### **Contributed presentations**

1. **O'Meara ES**, Marcus PM, Ichikawa L, Buist DSM, Geller BM, Henderson L, Hill DA, Kerlikowske K, Omega T, Sprague BL, Rozjabek H, Miglioretti DL. The Breast Cancer Surveillance Consortium (BCSC) Research Resource: A Source for Data, and Opportunities for Collaboration. Poster presented at the International Cancer Screening Network Biennial Meeting, Sydney, Australia, October 2012.
2. Fitzpatrick AL, **O'Meara ES**, Diehr P, Kuller LH. Obesity, weight, and aging: what do we think we know? Panel presentation at the 2nd North American Congress of Epidemiology, Seattle, Washington, June 2006.
3. **O'Meara ES**, Kukull WA, Sheppard L, Bowen JD, McCormick WC, Teri L, Pfanschmidt M, Thompson JD, Schellenberg GD, Larson EB. Head injury and risk of Alzheimer's disease by apolipoprotein E genotype. Poster presented at the American Academy of Neurology Annual Meeting, Seattle, Washington, May 1995.
4. **O'Meara ES**, Kukull WA, Schellenberg GD, Bowen JD, McCormick WC, Teri L, Pfanschmidt M, Thompson JD, Larson EB. Alzheimer's disease and history of blood transfusion by apolipoprotein E genotype. Poster presented at the Gerontological Society of America 47<sup>th</sup> Annual Meeting, Atlanta, Georgia, November 1994.
5. **O'Meara ES**, Kukull WA, Schellenberg GD, Bowen JD, McCormick WC, Teri L, Pfanschmidt M, Thompson JD, Larson EB. Alzheimer's disease and history of blood transfusion. Poster presented at the the Fourth International Conference on Alzheimer's Disease and Related Disorders, Minneapolis, Minnesota, July-August 1994.

### **Invited presentation**

1. Panelist, How to leverage screening studies for primary prevention. American Society of Preventive Oncology, 37th Annual Meeting, Memphis, Tennessee, March 2013.

## **Other seminar presentation**

1. Presenter, Hormone replacement therapy after breast cancer in relation to recurrence and mortality. Group Health Cooperative Nurses's Seminar, Seattle, Washington, 2001.

## **TEACHING, ADVISING**

### **Courses**

Teaching Assistant, Human Biology (Epidemiology), University of Washington School of Medicine, 1997-1998

Teaching Assistant, Introduction to Epidemiology, Department of Epidemiology, University of Washington, 1996

### **Guest lecturer**

Survival Analysis (lecture), Psychosocial Epidemiology course, University of Washington, 2000

### **KPWHRI Supervisor of External Staff**

Charlotte Gard, PhD (biostatistics contractor; primary appointment as Associate Professor of Economics, Applied Statistics, and International Business at New Mexico State University), Kaiser Permanente Washington Health Research Institute, 2023-present

Marilyn Florero, MPH (student intern; PhD candidate in epidemiology at the University of California, Davis), Kaiser Permanente Washington Health Research Institute, 2023-present

Olivia Sattayapiwat, MS, MPH (student; PhD candidate in epidemiology at the University of California, Davis), Kaiser Permanente Washington Health Research Institute, 2022-present

Marzieh Golmakani, MS (summer intern; PhD candidate in biostatistics at the University of California, Davis), Kaiser Permanente Washington Health Research Institute, summer 2017-2019

### **KPWHRI Sponsor of External Collaborator**

Hong Li, PhD (research fellow; primary appointment as Associate Professor / Associate Professor in Residence in Biostatistics at the University of California, Davis), Kaiser Permanente Washington Health Research Institute, 2023-present

Shuai Chen, PhD (researcher in biostatistics; primary appointment as Associate Professor in the Division of Biostatistics at the University of California, Davis), Kaiser Permanente Washington Health Research Institute, 2019-present

### **Mentorship Committee**

Mikael Anne Greenwood-Hickman, MPH, Collaborative Scientist (formerly Research Associate), Kaiser Permanente Washington Health Research Institute, 2021-present

### **KPWHRI Orientation Mentor**

Annie Picorelli, PhD, Collaborative Biostatistician, Kaiser Permanente Washington Health Research Institute, Jan 2023-present