

CURRICULUM VITAE

A. BIOGRAPHICAL INFORMATION

Erin Janelle Aiello Bowles, MPH
Kaiser Permanente Washington Health
Research Institute*
Kaiser Foundation Health Plan of Washington
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B. EDUCATION

University of Washington, Seattle, WA. MPH, Epidemiology, 2000-2002.
University of California, Irvine, CA. BS, Applied Ecology, *magna cum laude*, 1996-2000.

C. PROFESSIONAL POSITIONS

Research Associate IV and supervisor, Kaiser Permanente Washington Health Research Institute, Kaiser Foundation Health Plan of Washington*, 2017-present
Research Associate III, Kaiser Permanente Washington Health Research Institute, Kaiser Foundation Health Plan of Washington*, 2010-2017
Research Associate II, Group Health Research Institute,* 2005-2010
Research Associate I, Group Health Research Institute,* 2002-2005
Data Coordinator IV, Fred Hutchinson Cancer Research Center, 2002-2003
Research Assistant, Fred Hutchinson Cancer Research Center, 2000-2002
Intern, Breast and Cervical Health Program (BCHP), Public Health – Seattle & King County, 2001
Research Assistant at the Center for Occupational and Environmental Health, University of California, Irvine, 1999-2000

D. PROFESSIONAL HONORS

Kaiser Permanente Learning University Activate Leadership program graduate, 2021
Exceptional Reviewer for *Medical Care*, 2007
Second Place Poster Award, Society for Epidemiologic Research, 2007
First Place Poster Award, HMO Research Network Conference, 2007
Exceptional Reviewer for *Medical Care*, 2006
Best Poster Award (1st place), American Society of Preventive Oncology, 2006.
Best Poster Award (3rd place), American Society of Preventive Oncology, 2005.
Student-Postdoc Advisory Committee travel award, Fred Hutchinson Cancer Research Center, 2002.

E. MEMBERSHIPS

American Society for Preventive Oncology, 2003 – present
American Association for Cancer Research, 2001 – present
Society for Epidemiological Research, 2007 – present
F1000 faculty member, 2010 – 2017

F. ORGANIZATIONAL SERVICE

Hiring Manager, Qualitative Research Associate Search Committee, Kaiser Permanente Washington, 2021
Hiring Manager, ACT Research Associate Search Committee, Kaiser Permanente Washington, 2021
Chair and Hiring Manager, Pain/Addictions Research Associate Search Committee, Kaiser Permanente Washington, 2020
Executive Director Academic Search Committee, Kaiser Permanente Washington, 2019

**Kaiser Permanente acquired Group Health in February 2017, at which point Group Health Research Institute became Kaiser Permanente Washington Health Research Institute.*

Co-lead, Epidemiology 101, Kaiser Permanente Health Research Institute, 2019
Breast Cancer Screening Guidelines Implementation Committee, Kaiser Permanente Washington, 2017
Cancer Researchers Group Lead, Kaiser Permanente Washington Health Research Institute, 2017-2021
Programmer Supervisor Hiring Committee, Group Health Research Institute, 2015-16
Instructor, Epidemiology 101, Group Health Research Institute, 2015
Partnership for Innovation committee, Group Health Research Institute, 2010-2014
Cancer Researchers Group chair, Group Health Research Institute, 2010-2013
Produce Group Health Radiology Report for mammographers, Group Health, 2003-2013
Promotions review committee, Group Health Research Institute, 2011
Faculty advisor group to Survey, Group Health Research Institute, 2009
Faculty Development working group, Group Health Research Institute, 2009
Faculty Review working group, Group Health Research Institute, 2009
Strategic Direction Setting Committee, Group Health Research Institute, 2008-2009.
Scientific Policy Committee, Group Health Research Institute, 2007-2010. (Chair, 2008-2009)
Instructor, Epidemiology 101, Group Health Research Institute, 2007
Chaired working group to revise Breast Cancer Screening Program Survey, Group Health, 2006
Faculty retreat planning committee, Group Health Research Institute, 2005
Chaired working group to revise Breast Cancer Screening Program Survey, Group Health, 2004

E. OTHER PROFESSIONAL SERVICE

Society for Epidemiological Research Membership Committee co-chair (2018-present)
Society for Epidemiological Research Membership Committee member (2016-2018)
Lake Washington Institute of Technology, Bachelor's in Public Health Advisory Board – 2013-2021
Junior Investigator Session Planning Committee, American Society of Preventive Oncology, 2006-2008

F. SPECIAL NATIONAL RESPONSIBILITIES

Grant Reviews

Cancer Research UK – 2018-2019
Susan G Komen Puget Sound– 2013-2014
Patient Centered Outcomes Research Institute– 2013
ITHS Community Pilots - 2010 – 2012

G. EDITORIAL RESPONSIBILITIES

Editorial Boards: PLOS ONE (Academic Editor)

Manuscript Reviewer

Alzheimer's and Dementia
American Journal of Preventive Medicine
Annals of Oncology
BMC Cancer
Breast Cancer Research
Breast Cancer Research and Treatment
British Journal of Cancer
Cancer Causes & Control
Cancer Detection and Prevention
Cancer Epidemiology, Biomarkers and Prevention
Cancer Research
Clinical Journal of Oncology Nursing
Epidemiology
European Journal of Cancer Care

International Journal of Cancer
JAMA Oncology
JAMA Internal Medicine
Journal of Cancer Epidemiology
Journal of Clinical Epidemiology
Journal of Clinical Oncology
Journal of General Internal Medicine
Journal of the American Board of Family Medicine
Journal of the American Geriatric Society
Journal of the National Cancer Institute
Journal of Women's Health
Medical Care
Preventive Medicine
The Lancet Oncology

H. RESEARCH FUNDING

Ongoing Research Support:

National Cancer Institute R01CA266377 (Lee) 6/1/2021 - 5/31/2026
Racial and Socioeconomic Disparities in Breast Cancer Diagnostic Work Up and Outcomes
Role: Co-Investigator (10% FTE) \$664,471 (total direct)

Centers for Disease Control and Prevention U48DP006398 (Kessler) 9/30/2020-9/29/2024
Multi-modal Study of Validity and Reliability of Cancer Screening Questions for the NHIS
Role: Site PI/Co-Investigator (10% FTE) \$620,884 (total direct)

National Cancer Institute R01CA251566 (Francis) 8/14/2020-4/30/2025
A Novel Micro-Simulation Model Approach to Estimate and Mitigate Thyroid Cancer Overdiagnosis
Role: Site PI/Co-Investigator (10% FTE) \$288,544 (total direct)

National Cancer Institute R37CA222793 (Kantor) 1/1/2018 – 12/31/2022
Obesity, Chemotherapy Dosing, and Breast Cancer Outcomes
Role: Site PI/Co-Investigator (20% FTE) \$776,726 (total direct)

National Cancer Institute 75N91020P00327 (Buist) 4/1/2020-3/31/2022
Breast Cancer Survivors Cohort – Late Effects of Breast Cancer Treatments
Role: Co-Investigator (5% FTE) \$154,797 (total direct)

National Cancer Institute R50CA211115 (Bowles) 2/1/2017-1/31/2022
Group Health Cancer Research Program Research Specialist Award
Role: Principal Investigator (70% FTE, concurrent) \$591,513 (total direct)

National Cancer Institute 2P01CA154292 (Miglioretti) 7/1/2017-5/31/2022
Risk-based Breast Cancer Screening and Surveillance in Community Practice
Role: Co-investigator (15% FTE) \$1,302,816 (total direct)

Completed Research Support:

National Cancer Institute R01CA185687 (Smith-Bindman) 3/1/2015-5/31/2021
Risk of Pediatric and Adolescent Cancer Associated with Medical Imaging (RIC)
Role: Site PI/Co-Investigator

National Cancer Institute R01CA190221 (O'Neill) 8/7/2015-7/31/2020
Applying Breast Density to Risk Counseling (ENGAGED II)
Role: Co-Investigator

National Institute on Aging U01 AG006781 (Larson) 5/1/2015-4/30/2020
Alzheimer's Disease Patient Registry (ADPR/ACT)
Role: Co-Investigator

National Institute on Aging R13AG057087 (Larson) 5/12/2017-4/30/2020
The ACT Annual Symposium: A Living, Learning National Collaboratory to Advance Alzheimer's Disease and Brain Aging Research
Role: Site PI/Co-Investigator

National Cancer Institute 75N91019P00245 (Buist) 5/20/2019-5/19/2020
Mammographic breast density and risk of contralateral breast cancer in Kaiser Permanente Washington Health Research Institute.
Role: Co-Investigator

National Cancer Institute HHSN261201700695P (Bowles) 9/20/2017-3/18/2019
Mammographic Breast Density and Contralateral Breast Cancer Risk: Digitization and Assessment of Mammograms from Kaiser Colorado (KPCO Density)

Role: Principal Investigator

National Cancer Institute HHSN261201700564P (Buist) 9/11/2017-9/10/2018
Risk of New Malignancies Following Breast Cancer (Kaiser Breast Cancer Survivor Cohort)
Role: Co-Investigator

AHRQ HHS-290-2015-000071 (Lin) 9/11/2017-6/30/2019
Evidence Based Practice Center – Screening for Pancreatic Cancer Review
Role: Co-Investigator

National Cancer Institute R01CA172073 (Chubak) 9/13/2013-7/31/2018
Commonly Used Medications and Risk of Colorectal Cancer Recurrence (RECORD)
Role: Co-Investigator

National Cancer Institute 1P01CA154292 (Miglioretti) 9/13/2011-8/31/2017
Risk-based Breast Cancer Screening in Community Settings
Role: Co-investigator

AHRQ HHS-290-2012-00151-I (Lin) 3/1/2013-8/31/2017
Evidence Based Practice Center
Role: Research Associate

National Cancer Institute/Westat 6182-S13-Mod 1 5/11/2015-8/31/2016
Lobular Duct Involution and Breast Density
Role: Principal Investigator

National Cancer Institute HHSN261201100031C (O’Meara) 8/1/2011-7/31/2016
Breast Cancer Surveillance Consortium Research Resource
Role: Associate Director

Branta Foundation None (Dublin) 8/1/2012-7/31/2015
Medication Exposure and Cognitive Decline in Older People
Role: Research Associate

National Cancer Institute 1P20CA137219 (Dearing) 9/30/2008-8/31/2014
CRN Clinical Communication Research Center: Testing an Optimal Model of Patient-Centered Cancer Care
Role: Research Associate

American Cancer Society RSGI-I 00-01-CPHPS (Buist) 7/1/2011-6/30/2014
Effectiveness of Health Care System Outreach for Breast Cancer Screening
Role: Co-investigator

National Cancer Institute HHSN261201100441P (Bowles) 9/1/2011-3/1/2013
Kaiser Tamoxifen and Mammographic Density Study
Role: GH Principal Investigator

National Cancer Institute 1R01CA120562 (Boudreau) 9/1/2007-7/31/2012
Commonly Used Medications and Breast Cancer Recurrence
Role: Research Associate

National Cancer Institute 5U19CA079689 (Wagner) 5/1/2007-4/30/2012
Cancer Research Network Across Health Care Systems: CRN3 – Infrastructure
Role: Research Associate

National Cancer Institute	1RC2CA148185 (Weeks)	9/30/2009-8/31/2011
Building CER Capacity: Aligning CRN, CMS, and State Resources to Map Cancer Care		
Role: Co-investigator		
National Cancer Institute	2U01CA063731 (Buist)	8/1/2005 – 7/31/2010
Breast Cancer Surveillance in a Defined Population		
Role: Research Associate		
National Cancer Institute	1RC1CA145402 (McCahill)	10/1/2009-9/30/2011
Improving breast cancer surgery quality through a collaborative surgery database		
Role: GH Principal Investigator		
National Cancer Institute	5R01CA107623 (Elmore)	7/1/2004 – 4/30/2010
Understanding Variability in Community Mammography		
Role: Research Associate		
National Cancer Institute	5R01CA098415 (Porter)	6/1/2004-5/31/2010
Gene Copy Number Chances and Breast Cancer Survival		
Role: Research Associate		
AMGEN	None (De Roos)	12/11/2006-4/30/2009
Descriptive Epidemiology and Clinical Course of Myelodysplastic Syndromes (MDS) in a Health Maintenance Organization		
Role: GH Principal Investigator		
National Institutes of Health	HHSN261200700389P (Bowles)	9/12/2007-12/30/2007
Radiologist Feedback Reports		
Role: GH Principal Investigator		
National Cancer Institute	Contract-None (Wagner)	10/1/2005-1/31/2007
Patient Centered Communication in Cancer Care		
Role: Research Associate		
Department of Defense	DAMD17-03-1-0447 (Buist)	6/1/2003 – 6/30/2008
A Population-Based Randomized Trial to Assess the Effects of Short-Term Cessation of HRT on Mammography Assessments and Breast Density		
Role: Research Associate		

I. TEACHING AND MENTORING RESPONSIBILITIES

Teaching history

Guest lecturer, Lake Washington Institute of Technology, “Practical and real-life examples of epidemiology”, June 9, 2015

Guest lecturer, University of Washington MEDEX Physician Assistants training program, “Randomized Clinical Trials”, June 26, 2013

Guest lecturer, University of Washington MEDEX Physician Assistants training program, “Randomized Clinical Trials”, June 28, 2012

Teaching Assistant, Environmental Health and Quality class, University of California, Irvine, 2000.

Advising and formal mentoring

Mentor, Arika Wieneke, Bachelor’s Student, Whitman College, 2013-2014.

Mentor, Sarah Lowry, PhD Candidate, University of Washington, 2010-2012.

Mentor, Melissa Romaire, PhD Candidate, University of Washington, 2009-2011.

Mentor, Elana Feldman, Bachelor’s Student, Oberlin, 2007-2008.

Mentor, HeeYon Sohng, Post-doctoral Fellow, Harborview, 2007.

Mentor, Megan Welsh, MPH Student, University of Washington, 2006-2007.
Mentor, Anthony Crest, MPH Student, University of Washington, 2004-2005.

J. PUBLICATIONS

Published papers in refereed (peer-reviewed) journals

*Primary mentor of first listed author

1. Chlebowski RT, **Aiello E**, McTiernan A. Weight Loss in Breast Cancer Patient Management. *Journal of Clinical Oncology*. 2002 Feb 15;20(4):1128-43. doi: 10.1200/JCO.2002.20.4.1128. Review. PubMed PMID: 11844838.
2. Irwin ML, Yasui Y, Ulrich CM, Bowen D, Rudolph RE, Schwartz RS, Yukawa M, **Aiello E**, Potter JD, McTiernan A. Effect of exercise on total and intra-abdominal body fat in postmenopausal women: A randomized controlled trial. *JAMA*. 2003 Jan 15;289(3):323-30. doi: 10.1001/jama.289.3.323. PubMed PMID: 12525233.
3. Tworoger SS, Yasui Y, Vitiello MV, Schwartz RS, Ulrich CM, **Aiello EJ**, Irwin ML, Bowen DB, Potter JD, McTiernan A. Effects of a Yearlong Moderate-Intensity Exercise and a Stretching Intervention on Sleep Quality in Postmenopausal Women. *SLEEP*. 2003 Nov 1;26(7):830-6. doi: 10.1093/sleep/26.7.830. PubMed PMID: 14655916.
4. Tworoger SS, Chubak J, **Aiello EJ**, Yasui Y, Ulrich CM, Farin F, Potter JD, McTiernan A. Associations between CYP17, CYP19, CYP1B1, and COMT polymorphisms with serum and urinary sex hormones in postmenopausal women. *Cancer, Epidemiology, Biomarkers, & Prevention*. 2004 Jan;13(1):94-101. doi: 10.1158/1055-9965.epi-03-0026. PubMed PMID: 14744739.
5. Tworoger SS, Chubak J, **Aiello EJ**, Yasui Y, Ulrich CM, Farin FM, Stapleton PL, Irwin ML, Potter JD, Schwartz RS, McTiernan A. The Effect of CYP19 and COMT Polymorphisms on Exercise-Induced Fat Loss in Postmenopausal Women. *Obesity Research*. 2004 Jun;12(6):972-81. doi: 10.1038/oby.2004.119. PubMed PMID: 15229337.
6. **Aiello EJ**, Yasui Y, Tworoger SS, Ulrich CM, Irwin ML, Bowen D, Schwartz RS, Kumai C, Potter JD, McTiernan A. Effect of a yearlong, moderate-intensity exercise intervention on the occurrence and severity of menopause symptoms in postmenopausal women. *Menopause*. 2004 Jul-Aug;11(4):382-8. doi: 10.1097/01.gme.0000113932.56832.27. PubMed PMID: 15243275.
7. Atkinson C, Newton KM, **Bowles EJA**, Lehman CD, Stanczyk FZ, Westerlind KC, Li L, Lampe JW. Daidzein-metabolizing phenotypes in relation to mammographic breast density among premenopausal women in the United States. *Breast Cancer Res Treat*. 2009 Aug;116(3):587-94. doi: 10.1007/s10549-008-0199-7. Epub 2008 Sep 28. PubMed PMID: 18821061.
8. Sparks R, Ulrich CM, Bigler J, Tworoger SS, Yasui Y, Rajan KB, Porter P, Stanczyk FZ, Ballard-Barbash R, Yuan X, Gang Lin M McVarish L, **Aiello EJ**, McTiernan A. UDP-glucuronosyltransferase and sulfotransferase polymorphisms, sex hormone concentrations, and tumor receptor status in breast cancer patients. *Breast Cancer Research*. 2004;6(5):R488-98. doi: 10.1186/bcr818. Epub 2004 Jun 29. PubMed PMID: 15318931; PubMed Central PMCID: PMC549165.
9. Frankenfeld CL, McTiernan A, **Aiello EJ**, Thomas WK, LaCroix K, Schramm J, Schwartz SM, Holt VL, Lampe JW. Mammographic density in relation to daidzein-metabolizing phenotypes in overweight, postmenopausal women. *Cancer Epidemiol Biomarkers Prev*. 2004 Jul;13(7):1156-62. PubMed PMID: 15247126.
10. **Aiello EJ**, Buist DSM, White E, Seger D, Taplin SH. Rate of breast cancer diagnoses among postmenopausal women with self-reported breast symptoms. *Journal of the American Board of Family Practice*. 2004 Nov-Dec;17(6):408-15. doi: 10.3122/jabfm.17.6.408. PubMed PMID: 15575032.
11. **Aiello EJ**, Buist DSM, White E, Porter P. Association between mammographic breast density and breast cancer tumor characteristics. *Cancer Epidemiology, Biomarkers and Prevention*. 2005 Mar;14(3):662-8. doi: 10.1158/1055-9965.EPI-04-0327. PubMed PMID: 15767347.
12. El-Bastawissi A, **Aiello EJ**, Buist DSM, Taplin SH. Previous pregnancy outcome and breast

- density. *Cancer Causes and Control*. 2005 May;16(4):407-17. doi: 10.1007/s10552-004-5027-8. PubMed PMID: 15953983.
13. **Aiello EJ**, Tworoger SS, Yasui Y, Stanczyk F, Potter J, Ulrich CM, Irwin M, McTiernan A. Associations among circulating sex hormones, insulin-like growth factor, lipids, and mammographic density in postmenopausal women. *Cancer Epidemiology, Biomarkers and Prevention*. 2005 Jun;14(6):1411-7. doi: 10.1158/1055-9965.EPI-04-0920. PubMed PMID: 15941949.
 14. Irwin M, **Aiello EJ**, McTiernan A, Baumgartner RN, Baumgartner KB, Bernstein L, Gilliland FD, Ballard-Barbash R. Pre-diagnosis physical activity and mammographic breast density in pre-and post-menopausal women. *Breast Cancer Research and Treatment*. 2006 Jan;95(2):171-8. doi: 10.1007/s10549-005-9063-1. Epub 2005 Nov 30. PubMed PMID: 16319988; PubMed Central PMCID: PMC3034407.
 15. **Aiello EJ**, Taplin S, Reid R, Hobbs M, Seger D, Kamel H, Tufano J, Ballard-Barbash R. In a randomized controlled trial, patients preferred electronic data collection of breast cancer risk-factor information in a mammography setting. *Journal of Clinical Epidemiology*. 2006 Jan;59(1):77-81. doi: 10.1016/j.jclinepi.2005.07.007. Epub 2005 Oct 13. PubMed PMID: 16360564.
 16. *Crest AB, **Aiello EJ**, Anderson ML, Buist DSM. Varying levels of family history of breast cancer in relation to mammographic breast density (United States). *Cancer Causes and Control*. 2006 Aug;17(6):843-50. doi: 10.1007/s10552-006-0026-6. PubMed PMID: 16783612.
 17. **Aiello EJ**, Buist DSM, White E. Do breast cancer risk factors modify the association between hormone therapy and mammographic breast density? (United States). *Cancer Causes and Control*. doi: 10.1007/s10552-006-0073-z. PubMed PMID: 17111253.
 18. Buist DSM, **Aiello EJ**, Miglioretti DL, White E. Mammographic breast density, dense area, and breast area differences by phase in the menstrual cycle. *Cancer Epidemiology Biomarkers and Prevention*. 2006 Nov;15(11):2303-6. doi: 10.1158/1055-9965.EPI-06-0475. PubMed PMID: 17119062; NIHMSID:NIHMS101005.
 19. Abrahamson PE, Tworoger SS, **Aiello EJ**, Bernstein L, Ulrich CM, Gilliland FD, Stanczyk FZ, Baumgartner R, Baumgartner K, Sorensen B, Ballard-Barbash R, McTiernan A. Associations between the CYP17, CYP1B1, COMT and SHBG polymorphisms and serum sex hormones in post-menopausal breast cancer survivors. *Breast Cancer Res Treat*. 2007 Sep;105(1):45-54. doi: 10.1007/s10549-006-9426-2. Epub 2006 Nov 1. PubMed PMID: 17077994; PubMed Central PMCID: PMC2997631.
 20. Carney PA, Yi J, Abraham LA, Miglioretti DL, **Aiello EJ**, Gerrity MS, Reisch L, Sickles EA, Berns EA, Elmore JG. Reactions to Uncertainty and the Accuracy of Diagnostic Mammography. *J Gen Intern Med*. 2007 Feb;22(2):234-41. doi: 10.1007/s11606-006-0036-9. PubMed PMID: 17356992; PubMed Central PMCID: PMC1824735.
 21. Irwin M, **Aiello EJ**, McTiernan A, Bernstein L, Gilliland FD, Baumgartner RN, Baumgartner KB, Ballard-Barbash R. Physical activity, body mass index, and mammographic density in postmenopausal breast cancer survivors. *J Clin Oncol*. 2007 Mar 20;25(9):1061-6. doi: 10.1200/JCO.2006.07.3965. Epub 2007 Jan 29. PubMed PMID: 17261853; PubMed Central PMCID: PMC3839099.
 22. **Aiello EJ**, Buist DSM, Wagner EH, Tuzzio L, Greene SM, Lamerato L, Field TS, Herrinton LJ, Haque R, Hart G, Bischoff KJ, Geiger AM. Diffusion of Aromatase Inhibitors for Breast Cancer Therapy Between 1996-2003 in the Cancer Research Network. *Breast Cancer Res Treat*. 2008 Feb;107(3):397-403. doi: 10.1007/s10549-007-9558-z. Epub 2007 Mar 28. PubMed PMID: 17393300.
 23. Miglioretti DL, Abraham L, Smith-Bindman R, Carney PA, Osterman LR, Yi JP, **Bowles EJA**, Berns EA, Brenner J, Yankaskas B, Elmore JG. Radiologist characteristics associated with interpretive performance of diagnostic mammography. *JNCI* 2007 Dec 19;99(24):1854-63. doi: 10.1093/jnci/djm238. Epub 2007 Dec 11. PubMed PMID: 18073379; PubMed Central PMCID:

PMC3144707.

24. **Bowles EJA**, Tuzzio L, Wiese C, Kirlin B, Greene SM, Wagner EH. Understanding high-quality cancer care – a summary of expert perspectives. *CANCER*. 2008 Feb 15;112(4):934-42. doi: 10.1002/cncr.23250. PubMed PMID: 18181099.
25. Atkinson C, Newton KM, **Bowles EJA**, Yong M, Lampe JW. Demographic, anthropometric, and lifestyle factors and dietary intakes in relation to daidzein-metabolizing phenotypes among premenopausal women in the United States. *The American Journal of Clinical Nutrition*. 2008 Mar;87(3):679-87. doi: 10.1093/ajcn/87.3.679. PubMed PMID: 18326607.
26. **Bowles EJA**, Miglioretti DL, Sickles E, Abraham L, Carney P, Yankaskas B, Elmore JG. Accuracy of short-interval follow-up mammograms by patient and radiologist characteristics. *American Journal of Roentgenology*. 2008 May;190(5):1200-8. doi: 10.2214/AJR.07.3041. PubMed PMID: 18430832; PubMed Central PMCID: PMC3148073.
27. *Welsh ML, Buist DSM, **Bowles EJA**, Anderson, ML, Elmore JG, Li, Cl. Population-based estimates of the relation between breast cancer risk, tumor subtype, and family history. *Breast Cancer Research and Treatment*. 2009 Apr;114(3):549-58. doi: 10.1007/s10549-008-0026-1. Epub 2008 Apr 25. PubMed PMID: 18437558; PubMed Central PMCID: PMC2692346.
28. Atkinson C, Newton KM, **Bowles EJA**, Lehman CD, Stanczyk FZ, Westerlind KC, Li L, Lampe JW. Daidzein-metabolizing phenotypes in relation to mammographic breast density among premenopausal women in the United States. *Breast Cancer Research and Treatment*. 2008 Sep 28.
29. Geller B, **Bowles EJA**, Sohng HY, Brenner JR, Miglioretti DL, Carney PA, Elmore JG. Radiologists' performance and their enjoyment of interpreting screening mammograms. *American Journal of Roentgenology*. 2009 Feb; 192(2):361-9. doi: 10.2214/AJR.08.1647. PubMed PMID: 19155395; PubMed Central PMCID: PMC2824325.
30. Chubak J, **Bowles EJA**, Terry MB, Trentham-Dietz A, Buist DSM. Antidepressant medications and change in mammographic density in postmenopausal women. *Cancer Epidemiol Biomarkers Prev*. 2009 Feb; 18(2):676-9. doi: 10.1158/1055-9965.EPI-08-1017. Epub 2009 Feb 3. PubMed PMID: 19190163; PubMed Central PMCID: PMC2640441.
31. Yong M, Atkinson C, Newton KM, **Bowles EJA**, Stanczyk FZ, Westerlind KC, Hold VL, Schwartz SM, Leisenring WM, Lampe JW. Associations between endogenous sex hormone levels and mammographic and bone densities in premenopausal women. *Cancer Causes Control*. 2009 Sep;20(7):1039-53. doi: 10.1007/s10552-009-9321-3. Epub 2009 Mar 12. PubMed PMID: 19280356; PubMed Central PMCID: PMC2817944.
32. McTiernan A, Wang CY, Sorensen B, Xiao L, Buist DSM, **Bowles EJA**, White E, Rossing MA, Potter J, Urban N. No effect of aspirin on mammographic density in a randomized controlled clinical trial. *Cancer Epidemiol Biomarkers Prev*. 2009 May; 18(5):1524-30. doi: 10.1158/1055-9965.EPI-08-1088. PubMed PMID: 19423529; PubMed Central PMCID: PMC2689709.
33. **Bowles EJA**, Geller BM. Best ways to provide feedback to radiologists on mammography performance. *American Journal of Roentgenology*. 2009 Jul;193(1):157-64. doi: 10.2214/AJR.08.2051. PubMed PMID: 19542408; PubMed Central PMCID: PMC2714544.
34. Abraham L, Geller BM, Yankaskas BC, **Bowles EJA**, Karliner LS, Taplin SH, Miglioretti DL. Accuracy of self-reported breast cancer among women undergoing mammography. *Breast Cancer Res Treat*. 2009 Dec;118(3):583-92. doi: 10.1007/s10549-009-0375-4. Epub 2009 Mar 20. PubMed PMID: 19301119; PubMed Central PMCID: PMC2784159.
35. **Bowles EJA**, Tuzzio L, Ritzwoller DP, Ross T, Wagner EH, Neslund-Dudas C, Altschuler A, Quinn V, Hornbrook M, Nekhlyudov L. Accuracy and complexities of using automated clinical data for capturing chemotherapy administrations: implications for future research. *Medical Care*. 2009 Oct;47(10):1091-7. doi: 10.1097/MLR.0b013e3181a7e569. PubMed PMID: 19648826; PubMed Central PMCID: PMC2764807.
36. Buist DSM, Anderson ML, Reed SD, **Bowles EJA**, Fitzgibbons ED, Gandara JC, Seger D, Newton KM. Short-term hormone therapy suspension and mammography recall: a randomized trial.

- Annals of Internal Medicine*. 2009 Jun 2; 150(11): 752-65. doi: 10.7326/0003-4819-150-11-200906020-00003. PubMed PMID: 19487710; PubMed Central PMCID: PMC2803099.
37. Reed SD, Buist DSM, Anderson ML, **Bowles EJA**, Fitzgibbons D, Seger D, Newton KM. Short-term (1-2 months) Hormone Therapy Cessation Before Mammography. *Menopause*. 2009 Nov-Dec;16(6):1125-31. doi: 10.1097/gme.0b013e3181a5ce60. PubMed PMID: 19455069; PubMed Central PMCID: PMC2783807.
 38. Carney PA, Kettler M, Cook AJ, Geller BM, Karliner L, Miglioretti DL, **Bowles EJA**, Buist DS, Gallagher TH, Elmore JG. An Assessment of the Likelihood, Frequency, and Content of Verbal Communication Between Radiologists and Women Receiving Screening and Diagnostic Mammography. *Academic Radiology*. 2009 Sep;16(9):1056-63. doi: 10.1016/j.acra.2009.02.023. Epub 2009 May 12. PubMed PMID: 19442539; PubMed Central PMCID: PMC2746626.
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Accepted peer-reviewed papers in press

Non-refereed articles

1. Stern S and **Aiello E**. Success of Environmental Laws Hinges on Public Perception. *The Los Angeles Times.* Oct 22, 2000.

2. Onitilo AA, Engel JM, James TA, **Bowles EJA**, McCahill LE, Feigelson HS. Reply to: Should initial mastectomy rates increase? *J Am Coll Surg*. 2013 Nov;217(5):960-2. doi: 10.1016/j.jamcollsurg.2013.07.396.

Book chapters:

1. Breast Imaging. Eds Lee CI, Lehman CD, Bassett LW. New York, NY: Oxford University Press 2018. Chapter 2: "Breast Cancer Screening: Evidence and Recommendations. Karen J Wernli and **Erin J Bowles**, pp 14-17.

Published technical reports

1. Henrikson NB, **Aiello Bowles EJ**, Blasi PR, Morrison CC, Nguyen M, Pillarisetty VG, Lin JS. Screening for Pancreatic Cancer: An Updated Systematic Evidence Review for the U.S. Preventive Services Task Force. Rockville (MD): Agency for Healthcare Research and Quality (US); 2019. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK563783/>
2. Lin JS, Aiello Bowles EJ, Williams SB, Morrison CC. Screening for Thyroid Cancer: A Systematic Evidence Review for the U.S. Preventive Services Task Force. Rockville (MD): Agency for Healthcare Research and Quality (US); 2017. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK447370/>

Published abstracts from professional conferences

1. Irwin ML, **Aiello E**, Gilliland F, McTiernan A, Baumgartner R, Bernstein L, Ballard-Barbash R. The Association between Physical Activity Levels and Mammographic Breast Density in pre- and post-menopausal women: The Health, Eating, Activity, and Lifestyle (HEAL) Study. *Cancer Epidemiology, Biomarkers and Prevention* 2003; 12(11):1284s-1285s.
2. **Aiello E**, Taplin S, Reid R, Paschall M, Seger D, Kamel H, Tufano J, Ballard-Barbash R. Electronic Data Collection from Patients on Breast Cancer Risk Factor Information in a Mammography Setting. *The American Journal of Managed Care* 2004; 10(9):651.
3. **Aiello EJ**, Buist DS, White E. Association between breast density and hormone therapy modified by breast cancer risk factors. *Cancer Epidemiology, Biomarkers and Prevention* 2004; 13(11):1972s-1978s.
4. Welsh ML, **Aiello EJ**, Anderson ML, Buist DSM. Population-based estimates of the relation between family history and breast cancer risk. *American Journal of Epidemiology* 2007; 165(11):Abstract 227-S.
5. Sprague B, Trentham-Dietz A, Heman C, Hemming J, Hampton J, Buist D, **Bowles EA**, Burnside E, Sisney G. The association of serum phthalates and parabens with mammographic breast density. *Cancer Epidemiol Biomarkers Prev*. 2011 Apr;20(4):718.

K. INVITED PRESENTATIONS

Contributed Oral Presentations

1. "Duration and Type of Symptoms at the Time of a Mammogram". Breast Cancer Surveillance Consortium Meeting, Sugarbush, VT. October 2002.
2. "Group Health Cooperative Survey Automation Project". National Cancer Institute. February 2003.
3. "Developing automated alternatives for eliciting patient information for breast cancer screening surveillance". Breast Cancer Surveillance Consortium meeting, Portsmouth, NH. April 2003.
4. "Rate of breast cancer diagnoses among women with self-reported breast symptoms". Breast Cancer Surveillance Consortium meeting, Portsmouth, NH. April 2003.
5. "Use of Tablet PCs to Automate the Breast Screening Recruitment and Reminders (BSRR) Survey". Breast Cancer Surveillance Consortium meeting, Lake Tahoe, CA. October 2003.
6. "Censoring and cancer incidence: methodology". Breast Cancer Surveillance Consortium

- meeting, Vancouver, BC, Canada. April 2005.
7. "Comparison of ACR and BCSC definitions for screening and diagnostic mammograms." Breast Cancer Surveillance Consortium meeting, Vancouver, BC, Canada. April 2005.
 8. "Mammographic density and phase in the menstrual cycle." Group Health Cooperative, Breast Cancer Surveillance Scientific meeting, March 2005; and Breast Cancer Surveillance Consortium meeting, Vancouver, BC, Canada. April 2005.
 9. "Radiologist feedback project". Breast Cancer Surveillance Consortium Meeting, Seattle, WA. April 2008.
 10. "Patient-centered communication in cancer care: different perspectives on the quality of cancer care". Group Health Research Institute seminar, Seattle, WA July 2008.
 11. "Anesthesia and dementia risk", ACT Symposium, Seattle, WA August 4, 2014.
 12. "Cancer and subsequent dementia risk", ACT Symposium, Seattle, WA August 17, 2015.
 13. "How do we measure resilience to brain aging, dementia, and Alzheimer's disease?" ACT Symposium, Seattle, WA August 2017.
 14. "ACT Data Query Tool." ACT Symposium, Seattle, WA August 2017.

L. OTHER PRESENTATIONS

Oral presentations

1. "The trustworthiness of administrative health plan data in chemotherapy research". HMO Research Network Meeting, Minneapolis, MN. April 2008.
2. "Chemotherapy associated with increased heart failure risk among women with breast cancer in the CRN." HMO Research Network meeting in Boston, MA, 2011.
3. "Anesthesia exposure and risk of dementia and Alzheimer's disease: a prospective study." HCSRN meeting, Atlanta, GA. April 2016.

Poster presentations

1. **Aiello EJ**, Tworoger SS, Ulrich CM, Rajan K, Fay M, McTiernan A. Little Association Between CYP17, CYP1B1, or COMT Polymorphisms and Steroid Sex Hormones in Post-Menopausal Breast Cancer Patients. 2002 Proceedings of the American Association for Cancer Research April 6-10, 2002 San Francisco, CA.
2. Palomares MR, **Aiello E**, Lehman CD, Gralow JR, McTiernan A. Mammographic breast density as a noninvasive surrogate marker of breast cancer risk modification: A comparison of density assessment methods. 2003 Proceedings of the American Association for Cancer Research April 5-9, 2003 Toronto, Ontario, Canada.
3. **Aiello E**, Taplin S, Reid R, Paschall M, Seger D, Kamel H, Tufano J, Ballard-Barbash R. Electronic Data Collection from Patients on Breast Cancer Risk Factor Information in a Mammography Setting. HMO Research Network meeting, Dearborn, MI, May 3-5, 2004.
4. **Aiello EJ**, Buist DSM, White E. Association between hormone therapy and breast density modified by breast cancer risk factors. American Association for Cancer Research: Frontiers in Cancer Prevention Research meeting, Seattle, WA, Oct. 16-19, 2004.
5. Crest AB, **Aiello EJ**, Anderson ML, Buist DSM. Varying levels of family history of breast cancer in relation to mammographic breast density. American Society of Preventive Oncology Annual Meeting, March 13-15, 2005, San Francisco, CA. (Poster presentation; 3rd place award).
6. Buist DSM, Newton KM, Reed S, Anderson ML, **Aiello EJ**, Palmer L, Seger D. Can short-term hormone therapy (HT) cessation before mammography decrease breast density and improve mammography performance? A randomized trial – the READ study. Era of Hope 2005 – Department of Defense Breast Cancer Research Program meeting. June 8-11, 2005, Philadelphia, PA.
7. Buist DSM, **Aiello EJ**, Miglioretti DL, Mahoney L, White E. Mammographic breast density, dense area, and breast area by phase in the menstrual cycle. San Antonio Breast Cancer Symposium, December 8-11, 2005, San Antonio, TX.

8. **Aiello EJ**, Geiger AM, Pardee R, Buist DSM, Hart G, Greene SM, Lamerato L, Field T, Wagner E. Diffusion of Aromatase Inhibitors for Breast Cancer. American Society of Preventive Oncology Annual Meeting, February 27-28, 2006, Bethesda, MD. (Poster presentation, 1st place award).
9. **Aiello EJ**, Geiger AM, Pardee R, Buist DSM, Hart G, Greene SM, Lamerato L, Field T, Wagner E. Diffusion of Aromatase Inhibitors for Breast Cancer. International Society of Pharmacoepidemiology meeting, August 24-26, 2006, Lisbon, Portugal.
10. **Aiello EJ**, Buist, DSM, Haneuse S, Elmore, JG. Reducing Delays in Diagnosis – Characteristics of Women with Timely Follow-up after and Abnormal Mammogram. American Society of Preventive Oncology Annual Meeting, March 1-4, 2007, Houston, TX; and HMO Research Network meeting, Portland, OR, March 19-21, 2007.
11. Buist DSM, **Aiello EJ**, Haneuse S, Elmore JG. Falling through the Cracks – Characteristics of Women without Follow-up after an Abnormal Mammogram. American Society of Preventive Oncology Annual Meeting, March 1-4, 2007, Houston, TX; and HMO Research Network meeting, Portland, OR, March 19-21, 2007.
12. **Aiello EJ**, Tuzzio L, Wiese C, Kirlin B, Greene SM, Wagner EH. Developing a Model for High Quality Cancer Care – Results from Expert Interviews. HMO Research Network meeting, Portland, OR, March 19-21, 2007.
13. **Aiello EJ**, Tuzzio L, Wiese C, Kirlin B, Greene SM, Wagner EH. Developing a Model for High Quality Cancer Care – Results from Community Focus Groups. HMO Research Network meeting, Portland, OR, March 19-21, 2007.
14. Greene SM, Kirlin B, Tuzzio L, **Aiello EJ**, Wagner EH. Developing a Model for High Quality Cancer Care – Results from a Literature Review. HMO Research Network meeting, Portland, OR, March 19-21, 2007.
15. Tuzzio L, Kirlin B, **Aiello EJ**, Greene SM, Wagner EH. Developing a Model for High Quality Cancer Care – Results from Visiting Organizations in Three Communities. HMO Research Network meeting, Portland, OR, March 19-21, 2007.
16. Tuzzio L, **Aiello Bowles EJ**, Altschuler A, Williams AE, Ritzwoller DP, Nekhlyudov L. The Feasibility of a Feasibility Study: Using the VDW to Assess the Diffusion of Ovarian Cancer Treatment. HMO Research Network meeting, Minneapolis, MN, April 13-16, 2008.
17. **Aiello Bowles EJ**, Anderson ML, Reed SD, Newton KM, Fitzgibbons ED, Seger D, Buist DSM. Tolerance for short-term hormone therapy suspension related to mammographic breast density among postmenopausal women. Presented at ASPO, Tampa, FL, March 9-10, 2009.
18. Reed SD, Buist DSM, Anderson ML, **Aiello Bowles EJ**, Fitzgibbons D, Seger D, Newton KM. Short-term (1-2 months) hormone therapy cessation before mammography. Presented at ASPO, Tampa, FL, March 9-10, 2009.
19. Sprague BL, Trentham-Dietz A, Skinner HG, Buist DSM, Burnside ES, **Aiello Bowles EJ**, Gangnon RE, Sisney GS. The vitamin D pathway and mammographic breast density. Presented at ASPO, Washington DC, March 21-23, 2010.
20. Horner K, Wagner E, **Aiello Bowles E**, Kirlin B, Tuzzio L. The benefits of stakeholder involvement in research: experiences from our oncology nurse navigator clinical trial. Presented at HMORN, Austin, TX, March 21-24, 2010.
21. Feigelson HS, Bischoff K, Broecker K, **Bowles EA**, Engel J, James TA, Onitilo A, Single RM, McCahill L. Improving breast cancer surgery quality through a collaborative surgical database. Presented at HMORN, Austin, TX, March 21-24, 2010.
22. Sprague BL, Trentham-Dietz A, Gangnon RE, Buist DSM, Burnside ES, **Aiello Bowles EJ**, Sisney GS. Circulating sex hormones and mammographic breast density. Presented at SER, Seattle, WA, June 23-26, 2010.
23. Romaine MA, Buist DSM, **Aiello Bowles EJ**, Anderson ML. Comparative effectiveness of reminder letters for mammography. Presented at Academy Health, Boston, MA June 27-29, 2010.

24. **Bowles EJA**, Buist DSM, Chubak J, Yu O, Boudreau DM. Uptake of tamoxifen and aromatase inhibitors in women with early stage, invasive breast cancer in a community setting, 2001-2008. Presented at American Society of Preventive Oncology annual meeting, Las Vegas, NV, March 5-8, 2011.
25. Buist DSM, **Aiello Bowles EJ**, Gao H, Brandzel S, Romaine MA, Anderson ML, Rutter C. Transition from mammogram-specific reminders to annual birthday letters for breast cancer prevention. Presented at International Cancer Screening Network Meeting, Sydney, Australia, October 23-25 2012.
26. Nyante SJ, Sherman ME, Pfeiffer RM, Berrington A, Brinton LA, **Aiello Bowles E**, Hoover RN, Glass A, Gierach GL. Patterns of longitudinal change in mammographic density among tamoxifen users. Presented at American Association of Cancer Research Frontiers in Cancer Prevention meeting, National Harbor, MD, October 27-30, 2013
27. Brandzel S, **Bowles E**, Gao H, Wieneke A, Kimbel K, Bradford SC, Buist D. Improving response to cancer screening reminders: one size does not fit all. Presented at Academy Health annual meeting, San Diego, CA, June 8-10, 2014.
28. Larson EB, Crane PK, **Bowles EJ**, Walker R, Anderson ML, White D, Richmire K, LaCroix A, McCurry SM, Teri L, Mukherjee S, Montine TJ. The Group-Health University of Washington Adult Changes in Thought study: A living, learning laboratory for aging and multiple chronic conditions research. HMORN meeting, Long Beach, CA, March 11-13, 2015.
29. **Aiello Bowles EJ**, Larson EB, Pong RP, Walker RL, Anderson M, Yu O, Gray SL, Crane PK, Dublin S. Anesthesia exposure and risk of dementia and Alzheimer's disease: a prospective study. International Conference on Pharmacoepidemiology & Therapeutic Risk Management. Boston, MA. August 22-26, 2015.
30. Larson EB, **Bowles EJ**, Crane PK, Walker R, Anderson ML, White D, Richmire K, LaCroix A, McCurry SM, Teri L, Mukherjee S, Montine TJ. News from the Adult Changes in Thought (ACT) study: A long standing living laboratory of aging funded for five more years. HCSRN meeting, Atlanta, GA, April 13-16, 2016.
31. Marlow EC, Langholz B, Smith-Bindman R, Kwan ML, **Bowles EJ**, Weinmann S, Miglioretti DL. Evaluating Down Syndrome as a potential confounder for pediatric CT exam exposure and leukemia risk. Radiation Research Society and Conference on Radiation and Health meeting, Hawaii, October 2016.
32. D Miglioretti¹, M Kwan, S Weinmann, **E Bowles**, W Bolch, J Duncan, L Kushi, L Yueju, E Marlow, K Theis, K Deosaransingh, M Francisco, J DeVault, M Lakoma, C Manney, J Mor, C Wong, C Jenkins, K Kumar⁹, C Luce, D Multerer, J Munneke, A Uchida, M Troup, R Greenlee, J Pole, A Rahm, N Stout, R Smith-Bindman. Current exposure to computed tomography imaging in US integrated health care systems. Radiation Research Society and Conference on Radiation and Health meeting, Hawaii, October 2016.
33. **Aiello Bowles EJ**, Walker RL, Anderson ML, Dublin S, Crane PK, Larson EB. Risk of Alzheimer's disease following a cancer diagnosis. Alzheimer's Association International Conference, London, July 2017.
34. **Aiello Bowles EJ**, Walker RL, Crane PK, Keene CD, Chubak J, Anderson ML, LaCroix AZ, Larson EB. How do we measure resilience to brain aging, dementia, and Alzheimer's disease? Alzheimer's Association International Conference, London, July 2017.
35. Bradford SC, **Bowles E**. Less is More: Results of a HOS Improvement Study. National Quality Conference, Anaheim, CA June 2017.
36. Brentnall AR, Cuzick J, Buist DSM, **Bowles E**. Evaluation of the Tyrer-Cuzick model of breast cancer risk with BIRADS density in a screening cohort from Washington state. 8th annual Breast Density and Cancer Risk Assessment workshop, San Francisco, CA June 2017.
37. **Bowles EJ**, Yu O, Ziebell R, Chen L, Boudreau D, Ritzwoller DP, Hubbard R, Boggs J, Burnett-Hartman A, Sterrett A, Fujii M, Chubak J. Cardiovascular medication use and risks of colon cancer recurrences and second cancers. American Society for Preventive Oncology, New York, NY,

March 2018; and Kaiser Permanente National Oncology Symposium, San Francisco, CA, April 2018.

38. Wernli KJ, **Bowles EA**, Evans C, Gao H, Hansen K, Knerr S, Leppig K, Schwartz MD, O'Neill S. Patient characteristics associated with participation in a web-based decision support trial for women at increased breast cancer risk: ENGAGED 2 trial. American Society for Preventive Oncology, New York, NY, March 2018.
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