

## Melissa L. Anderson, MS

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Biostatistician III

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### EDUCATION

Masters of Science in Biostatistics, 1996  
University of Washington, Seattle WA

Bachelor of Arts in Mathematics and Physics (double major), 1992  
Pomona College, Claremont, CA

### EMPLOYMENT

Biostatistician III, Apr 2010- present  
Kaiser Permanente Health Research Institute, Seattle WA

Biostatistician II, 2003-Apr 2010  
Kaiser Permanente Health Research Institute, Seattle WA

Research Scientist, 2000-2003  
Multi-Ethnic Study of Atherosclerosis Coordinating Center, Seattle, WA

Research Assistant, 1992-2000  
Cardiovascular Health Study Coordinating Center, Seattle, WA

### PEER-REVIEWED PUBLICATIONS

1. Bhadelia RA, **Anderson M**, Polak JF, Manolio TA, Beauchamp N, Knepper L, O'Leary DH. Prevalence and associations of MRI-demonstrated brain infarcts in elderly subjects with a history of transient ischemic attack. *Stroke*. 1999; 30(3):383-388.
2. Psaty BM, Furberg CD, Kuller LH, Cushman M, Savage PJ, Levine D, O'Leary DH, Bryan RN, **Anderson ML**, Lumley T. Association between blood pressure level and the risk of myocardial infarction, stroke, and total mortality: the cardiovascular health study. *Arch Intern Med*. 2001;161(9):1183-1192.
3. Knopp RH, Retzlaff B, Fish B, Walden C, Wallick S, **Anderson M**, Aikawa K, Kahn SE. Effects of insulin resistance and obesity on lipoproteins and sensitivity to egg feeding. *Arterioscler Thromb Vasc Biol*. 2003;23(8):1437-1443.
4. Li AE, Kamel I, Rando F, **Anderson M**, Kumbasar B, Lima JA, Bluemke DA. Using MRI to assess aortic wall thickness in the multiethnic study of atherosclerosis: distribution by race, sex, and age. *AJR Am J Roentgenol*. 2004;182(3):593-597.

5. Psaty BM, **Anderson M**, Kronmal RA, Tracy RP, Orchard T, Fried LP, Lumley T, Robbins J, Burke G, Newman AB, Furberg CD. The association between lipid levels and the risks of incident myocardial infarction, stroke, and total mortality: The Cardiovascular Health Study. *J Am Geriatr Soc.* 2004;52(10):1639-1647.
6. Buist DS, **Anderson ML**, Taplin SH, LaCroix AZ. The relationship between breast density and bone mineral density in postmenopausal women. *Cancer* 2004;101(9):1968-1976.
7. Detrano RC, **Anderson M**, Nelson J, Wong ND, Carr JJ, McNitt-Gray M, Bild DE. Coronary calcium measurements: effect of CT scanner type and calcium measure on rescan reproducibility – MESA Study. *Radiology* 2005;236(2): 477-484.
8. Bonomi AE, Thompson RS, **Anderson M**, Rivara FP, Holt VL, Carrell D, Martin DP. Ascertainment of intimate partner violence using two abuse measurement frameworks. *Inj Prev.* 2006; 2(2):121-124. PMID: PMC2564437.
9. Thompson RS, Bonomi AE, **Anderson M**, Reid RJ, Dimer JA, Carrell D, Rivara FP. Intimate partner violence: prevalence, types, and chronicity in adult women. *Am J Prev Med.* 2006;30(6):447-457.
10. Bonomi AE, Thompson RS, **Anderson M**, Reid RJ, Carrell D, Dimer JA, Rivara FP. Intimate partner violence and women’s physical, mental and social functioning. *Am J Prev Med* 2006;30(6):458-466.
11. Hirsch C, **Anderson ML**, Newman A, Kop W, Jackson S, Gottdiener J, Tracy R, Fried LP. The association of race with frailty: The Cardiovascular Health Study. *Ann Epidemiol.* 2006;16(7):545-553.
12. Johnston BD, Huebner CE, **Anderson ML**, Tyll LT, Thompson RS. Healthy Steps in an integrated delivery system: child and parent outcomes at 30-Months. *Arch Pediatr Adolesc Med.* 2006;160(8): 793-800.
13. 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 Control* 2006;17(6):843-850.
14. Rivara FP, **Anderson ML**, Fishman P, Bonomi AE, Reid RJ, Carrell D, Thompson RS. Healthcare utilization and costs for women with a history of intimate partner violence. *Am J Prev Med.* 2007;32(2):89-96.
15. Bonomi AE, **Anderson ML**, Thompson RS, Rivara FP. Prevalence of intimate partner violence in older women. *Gerontologist.* 2007;47(1):34-41.
16. Bonomi AE, **Anderson ML**, Rivara FP, Thompson RS. Health outcomes in women with physical and sexual intimate partner violence exposure. *J Women’s Health (Larchmt).* 2007;16(7):987-997.
17. Ralston JD, Carrell D, Reid R, **Anderson M**, Moran M, Hereford J. Patient web services integrated with a shared medical record: Patient use and satisfaction. *J Am Med Inform Assoc.* 2007;14(6):798-806. PMID: PMC 2213480.
18. Rivara FP, **Anderson ML**, Fishman P, Bonomi AE, Reid RJ, Carrell D, Thompson RS. Intimate partner violence and health care costs and utilization for children living in the home. *Pediatrics.* 2007;120(6):1270-1277.

19. Gray SL, **Anderson ML**, Crane PK, Breitner JCS, McCormick W, Bowen JD, Teri L, Larson E. Antioxidant Vitamin Supplement Use and risk of dementia or Alzheimer's disease in older adults. *J Am Geriatr Soc.* 2008;56(2):291-295.
20. Bonomi AE, **Anderson ML**, Rivara FP, Cannon EA, Fishman PA, Carrell D, Reid RJ, Thompson RS. Health care utilization and cost associated with childhood abuse. *J Gen Intern Med.* 2008;23(3):294-299. PMID: PMC2359481.
21. Reid RJ, Bonomi AE, Rivara FP, **Anderson ML**, Fishman PA, Carrell DS, Thompson RS. Intimate partner violence among men prevalence, chronicity, and health effects. *Am J Prev Med.* 2008;34(6):478-485.
22. Bonomi AE, Kernic MA, **Anderson ML**, Cannon EA, Slesnick N. Use of brief tools to measure depressive symptoms in women with a history of intimate partner violence. *Nurs Res.* 2008;57(3):150-156.
23. Gates GA, **Anderson ML**, Feeney MP, McCurry SM, Larson EB. Central auditory dysfunction in older persons with memory impairment or Alzheimer dementia. *Arch Otolaryngol Head Neck Surg.* 2008;134(7):771-777.
24. Bonomi AE, Cannon EA, **Anderson ML**, Rivara FP, Thompson RS. Association between self-reported health and physical and/or sexual abuse experienced before age 18. *Child Abuse Negl.* 2008;32(7):693-701.
25. Grembowski DE, **Anderson ML**, Conrad DA, Fishman PA, Larson EB, Martin DP, Ralston JD, Carrell D, Hecht J. Evaluation of the group health cooperative access initiative: study design challenges in estimating the impact of a large-scale organizational transformation. *Qual Manag Health Care.* 2008;17(4):292-303.
26. Welsh ML, Buist DSM, Bowles EJA, **Anderson ML**, Elmore JG, Li CI. Population-based estimates of the relation between breast cancer risk, tumor subtype and family history. *Breast Cancer Res Treat.* 2009;114(3):549-558. PMID: PMC 2692346.
27. Conrad D, Fishman P, Grembowski D, Ralson J, Reid R, Martin D, Larson E, **Anderson M**. Access intervention in an integrated, prepaid group practice: effects on primary care physician productivity. *Health serv res.* 2008;43(5 Pt 2): 1888-1905. PMID: PMC2654163.
28. Bonomi AE, **Anderson ML**, Cannon EA, Slesnick N, Rodriguez MA. Intimate partner violence in Latina and non-Latina women. *Am J Prev Med.* 2009;36(1):43-48. PMID: PMC2791785.
29. Miglioretti DL, Haneuse SJ, **Anderson ML**. Statistical approaches for modeling radiologists' interpretive performance. *Acad Radiol.* 2009;16(2): 227-238. PMID: PMC2653267
30. Rivara FP, **Anderson ML**, Fishman P, Reid RJ, Bonomi AE, Carrell D, Thompson RS. Age, period, and cohort effects on intimate partner violence. *Violence Vict.* 2009;24(5):627-638.
31. Cannon AE, Bonomi AE, **Anderson ML**, Rivara FP, Thompson RS. The intergenerational transmission of witnessing intimate partner violence. *Arch Pediatr Adolesc Med.* 2009;163(8):706-708.
32. Bonomi AE, **Anderson ML**, Rivara FP, Thompson RS. Health Care Utilization and Costs Associated with Physical and Nonphysical-Only Intimate Partner Violence. *Health Serv Res.* 2009;44(3):1052-1067. PMID: PMC2699921.
33. Buist DSM, **Anderson ML**, Reed SD, Bowles EJA, Fitzgibbons ED, Gandara J, Seger D, Newton KM. Short-term hormone therapy suspension and mammography recall: a randomized trial. *Ann Intern Med.* 2009;150(11):752-765. PMID: PMC2803099.

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35. Ralston JD, Martin DP, **Anderson ML**, Fishman PA, Conrad DA, Larson EB, Grembowski D. Group health cooperative's transformation toward patient centered access. *Med Care Res Rev*. 2009;66(6):703-724
36. Bonomi AE, **Anderson ML**, Reid RJ, Rivara FP, Carrell D, Thompson RS. Medical and psychosocial diagnoses in women with a history of intimate partner violence. *Arch Intern Med*. 2009;169(18):1692-1697.
37. Naumann RB, Dellinger AM, **Anderson ML**, Bonomi AE, Rivara FP, Thompson RS. Preferred modes of travel among older adults: What factors affect the choice to walk instead of drive? *J Safety Res*. 2009;40(5):395-398.
38. Cannon EA, Bonomi AE, **Anderson ML**, Rivara FP, Thompson RS. Adult health and relationship outcomes among women with abuse experiences during childhood. *Violence Vict*. 2010; 25(3):291-305.
39. Ichikawa LE, Barlow WE, **Anderson ML**, Taplin S, Geller B, Brenner RJ. Time trends in radiologists' interpretive performance at screening mammography from the community-based Breast Cancer Surveillance Consortium. 1996-2004. *Radiology*. 2010;256(1): 74-82. PMID: PMC2897687.
40. Fishman PA, Bonomi AE, **Anderson ML**, Rivara FP, Reid RJ. Changes in health care costs over time following the cessation of intimate partner violence. *J Gen Intern Med*. 2010;25(9):920-925. PMID: PMC2917667.
41. Aiello Bowles EJ, **Anderson ML**, Reed SD, Newton KM, Fitzgibbons ED, Seger D, Buist DS. Mammographic breast density and tolerance for short-term postmenopausal hormone therapy suspension. *J Womens Health (Larchmt)*. 2010;19(8):1467-1474. PMID: PMC2941404.
42. Newton KM, **Anderson ML**, Reed SD, Bowles EJA, Buist DSM. Factors associated with noncompliance with hormone therapy cessation before screening mammography. *Climacteric*. 2011;14(2):268-274.
43. Green BB, **Anderson ML**, Ralston JD, Catz S, Fishman PA, Cook AJ. Patient ability and willingness to participate in a web-based intervention to improve hypertension control. *J Med Internet Res*. 2011;13(1):e1. PMID: PMC3217242.
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45. Gates GA, **Anderson ML**, McCurry SM, Feeney MP, Larson EB. Central auditory dysfunction as a harbinger of Alzheimer's dementia. *Arch Otolaryngol Head Neck Surg*. 2011 Apr; 137(4): 390-5.
46. Liss DT, Chubak J, **Anderson ML**, Saunders KW, Tuzzio L, Reid RJ. Patient-reported care coordination: associations with primary care continuity and specialty care use. *Ann Fam Med*. 2011;9(4):323-329. PMID: PMC3133579.

47. Dublin S, **Anderson ML**, Haneuse SJ, Heckbert SR, Crane PK, Breitner JC, McCormick W, Bowen JD, Teri L, McCurry SM, Larson EB. Atrial fibrillation and risk of dementia: a prospective cohort study. *JAGS* 2011; Epub 2011 Aug 1
48. Lowry SJ, Aiello Bowles EJA, **Anderson ML**, Buist DSM. Predictors of breast density change after hormone therapy cessation: results from a randomized trial. *Cancer Epidemiol, Biomarkers Prev.* 2011;20(10):2309-2312. PMID: PMC3189299.
49. Tom SE, **Anderson ML**, Landis CA, Bowles EJA, Woods NF, Reed SD, Newton KM, Buist DSM. Sleep problems after short-term hormone therapy suspension: secondary analysis of a randomized trial. *Menopause.* 2011;18(11):1184-1190. PMID: PMC3203993.
50. Fishman PA, **Anderson ML**, Cook AJ, Ralston JD, Catz SL, Carlson J, Larson EB, Green BB. Accuracy of blood pressure measurements reported in an electronic medical record during routine primary care visits. *J Clin Hypertens (Grrenwich).* 2011;13(11):821-828. PMID: PMC3211104.
51. Haneuse S, Buist DSM, Miglioretti DL, **Anderson ML**, Carney PA, Onega T, Geller BM, Kerlikowske K, Rosenberg RD, Yankaskas BC, Elmore JG, Taplin S, Smith R, Sickles EA. Mammographic interpretative volume and diagnostic mammography interpretation performance in community practice. *Radiology.* 2012;262(1):69-79. PMID: PMC3244665.
52. Green BB, **Anderson ML**, Cook AJ, Catz S, Fishman PA, McClure JB, Reid R. Using body mass index data in the electronic health record to calculate cardiovascular risk. *Am J Prev Med.* 2012;42(4):342-347. PMID: PMC3308122.
53. Naumann RB, Dellinger AM, **Anderson ML**, Bonomi AE, Rivara FP. Healthcare utilization and costs among older adult female drivers and former drivers. *J Safety Res.* 2012;43(2):141-144.
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55. Romaine MA, Bowles EJ, **Anderson ML**, , Buist DS. Comparative effectiveness of mailed reminder letters on mammography screening compliance. *Prev Med.* 2012;55(2):127-1230. PMID: PMC3694128.
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59. Kamineni A, **Anderson ML**, White E, Taplin SH, Porter P, Ballard-Barbash R, Malone K, Buist DS. Body mass index, tumor characteristics, and prognosis following diagnosis of early-stage breast

- cancer in a mammographically screened population. *Cancer Causes Control*. 2013;24(2):305-312. PMID: PMC3557530.
60. Green BB, Wang CY, **Anderson ML**, Chubak J, Meenan RT, Vernon SW, Fuller S. An automated intervention with stepped increases in support to increase uptake of colorectal cancer screening: a randomized trial. *Ann of Intern Med*. 2013;158(5 Pt 1): 301-311.
  61. Gray, SL, **Anderson ML**, Hubbard RA, LaCroix A, Crane PK, McCormick W, Bowen JD, McCurry SM, Larson EB. Frailty and incident dementia. *J Gerontol A Biol Sci Med Sci*. 2013;68(9):1083-1090. PMID: PMC3738027.
  62. Onega T, **Anderson ML**, Buist DSM, Geller B, Bogart A, Sickles EA, Miglioretti DL, Carney PA, Kerilkowske K, Monsees B, Yankaskas BC. Establishing a gold standard for a test set: variation in interpretive agreement of expert mammographers. *Acad Radiol*. 2013;20(6):731-739. PMID: PMC3741406.
  63. Bonomi E, **Anderson ML**, Nemeth J, Rivara FP, Buettner C. History of dating violence and the association with late adolescent health. *BMC Public Health*. 2013;13(1):821.
  64. Green BB, **Anderson ML**, Ralston JD, Catz SL, Cook AJ. Blood pressure 1 year after completion of web-based pharmacist care. *JAMA Intern Med*. 2013;173(13):1250-1252. PMID: PMC3938109
  65. Fishman PA, Cook AJ, Larson EB, Ralston JD, **Anderson ML**, Catz SL, Carrell D, Carlson J, Green BB. Improving BP Control through Electronic Communications: An Economic Evaluation. *Am J Manag Care*. 2013 Sep; 19(9): 709-16.
  66. Dublin S, **Anderson ML**, Heckbert SR, Hubbard RA, Sonnen JA, Crane PK, Montine TJ, Larson EB. Neuropathologic changes associated with atrial fibrillation in a population-based autopsy cohort. *J Gerontol A Biol Sci Med Sci*. 2013 Sep 28 [Epub ahead of print]
  67. Bonomi AE, Trabert B, **Anderson ML**, Kernic MA, Holt VL. Intimate Partner Violence and Neighborhood Income: A Longitudinal Analysis. *Violence Against Women*. 2014 Jan; 20(1): 42-58. Epub 2014 Jan 28.
  68. Green BB, **Anderson ML**, Cook AJ, Catz S, Fishman PA, McClure JB, Reid R. e-Care for Heart Wellness: a feasibility trial to decrease blood pressure and cardiovascular risk. *Am J Prev Med* 2014 Apr; 46(4): 368-377.
  69. Ralston JD, Cook AJ, **Anderson ML**, Catz SL, Fishman PA, Carlson J, Johnson R, Green BB. Home blood pressure monitoring, secure electronic messaging, and medication intensification for improving hypertension control. *Appl Clin Inform*. 2014 Mar 12;5(1): 232-48. PMID: PMC3974258.
  70. Henrikson NB, **Anderson ML**, Hubbard R, Fishman P, Grossman D. Employee knowledge of value-based insurance design benefits. *Am J Prev Med*. 2014 Aug; 47(2): 115-22. Epub 2014 Jun 17.
  71. Buist DSM, **Anderson ML**, Smith RA, Carney PA, Miglioretti DL, Monsees BS, Sickles EA, Taplin SH, Geller BM, Yankaskas BC, Onega TL. Effect of radiologists' diagnostic work-up volume on interpretive performance. *Radiology*. 2014 Nov; 273(2): 351-64. Epub 2014 Jun 24.
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75. Grembowski D, Ralston JD, **Anderson ML**. Hemoglobin A1c, Comorbid Conditions and all-cause mortality in patients with diabetes: A retrospective 9-year cohort study. *Diabetes Res Clin Pract.* 2014 Nov; 106(2): 373-82. Epub 2014 Jul 29.
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78. Meenan RT, **Anderson ML**, Chubak J, Vernon SW, Fuller S, Wang CY, Green BB. An economic evaluation of colorectal cancer screening in primary care practice. *Am J Prev Med.* 2015 Jun; 48(6): 714-21.
79. Reid RJ, **Anderson ML**, Fishman PA, McClure JB, Johnson RL, Catz SL, Green BB. Relationship between cardiovascular risk and lipid testing in one health care system: a retrospective cohort study. *BMC Health Serv Res.* 2015 Jul 23; 15:281.
80. Dublin S, Walker RL, Gray SL, Hubbard RA, **Anderson ML**, Yu O, Crane PK, Larson EB. Prescription opioids and risk of dementia or cognitive decline: a prospective cohort study. *J Am Geriatr Soc.* 2015 Aug; 63(8): 1519-26.
81. Weissman J, Johnson JD, **Anderson M**, Hollender L, Huson T, Paranjpe A, Patel S, Cohenca N. Association between the presence of apical periodontitis and clinical symptoms in endodontic patients using cone-beam computed tomography and periapical radiographs. *J Endod.* 2015 Nov; 41(11): 1824-9. Epub 2015 Sep 5.
82. Green BB, **Anderson ML**, Chubak J, Fuller S, Meenan RT, Vernon SW. Impact of continued mailed fecal tests in the patient-centered medical home: Year 3 of the Systems of Support to Increase Colon Cancer Screening and Follow-up randomized trial. *Cancer* 2016 Jan 15; 122(2): 312-21. Epub 2015 Oct 21.
83. Aiello Bowles EJ, Larson EB, Pong RP, Walker RL, **Anderson ML**, Yu O, Gray SL, Crane PK, Dublin S. Anesthesia exposure and risk of dementia and Alzheimer's disease: a prospective study. *J Am Geriatr Soc.* 2016 Feb 11. [Epub ahead of print]
84. Gray SL, Dublin S, Yu O, Walker R, **Anderson M**, Hubbard RA, Crane PK, Larson EB. Benzodiazepine Use and Risk of Incident Dementia or Cognitive Decline: Prospective Population Based Study. *BMJ.* 2016 Feb 2.
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87. Cherkin DC, Sherman KJ, Balderson BH, Cook AJ, **Anderson ML**, Hawkes RJ, Hansen KE, Turner JA. Effect of Mindfulness-Based Stress Reduction vs Cognitive Behavioral Therapy of Usual Care on Back Pain and Functional Limitations in Adults with Chronic Low Back Pain A Randomized Clinical Trial. *JAMA*. 2016 Mar 22-29; 315(12): 1240-9.
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89. Lozano P, Henrikson N, Dunn J, Morrison C, Nguyen M, Blasi P, **Anderson M**, Whitlock E. Lipid screening in childhood and adolescence for detection of familial hypercholesterolemia: a systematic evidence review for the U.S Preventive Services Task Force. *JAMA* 2016 Aug 9; 316(6): 645-55.
90. Grembowski D, Ralston JD, **Anderson ML**. Health outcomes of population-based pharmacy outreach to increase statin use for primary prevention in patients with diabetes. *J Manag Care Spec Pharm*. 2016 Aug; 22(8): 909-17.
91. Turner JA, **Anderson ML**, Balderson BH, Cook AJ, Sherman KJ, Cherkin DC. Mindfulness-based stress reduction and cognitive behavioral therapy for chronic low back pain: similar effects on mindfulness, catastrophizing, self-efficacy, and acceptance in a randomized controlled trial. *Pain*. 2016 Nov; 157(11): 2434-2444.
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94. Henrikson NB, Chang E, Ulrich K, King D, **Anderson ML**. Communication with physicians about health care costs: survey of an insured population. *Perm J* 2017; 21.
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100. Buist DSM, Gao H, **Anderson ML**, Onega T, Brandzel S, Rabelhofer MA, Bradford SC, Aiello Bowles EJ. Breast cancer screening outreach effectiveness: mammogram-specific reminders vs. comprehensive preventive services birthday letters. *Prev Med.* 2017 Sep; 102: 49-58.
101. Green BB, **Anderson ML**, Cook AJ, Chubak J, Fuller S, Meenan RT, Vernon SW. A centralized mailed program and stepped increases of support increases time in compliance with colorectal cancer screening guidelines over 5 years: a randomized trial. *Cancer.* 2017 Nov 15; 123(22): 4472-4480.
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