

Curriculum Vitae
LAURA E. ICHIKAWA

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EDUCATION

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| 2017 | | University of Washington Professional & Continuing Education Certificate program in Data Visualization |
| 1995 | M.S. | University of Washington; Seattle, WA Biostatistics |
| 1987 | B.S. | University of Washington; Seattle, WA Mathematics, concentration in Statistics |
| 1984 | A.A. | Fullerton College; Fullerton, CA |

PROFESSIONAL EXPERIENCE

- Dec 2022 – current *Principal Collaborative Biostatistician, Kaiser Permanente Washington Health Research Institute* (Seattle, WA)*
Continue to provide biostatistical support for the Breast Cancer Surveillance Consortium on grants focusing on screening strategies for women with a personal history of breast cancer and use of screening breast ultrasound; also conduct analyses of colonoscopy screening harms in older patients.
- May 2006 – Dec 2022 *(Collaborative) Biostatistician III, Group Health Research Institute* (Seattle, WA)*
Provided biostatistical support in the areas of cancer research with the Statistical Coordinating Center for the Breast Cancer Surveillance Consortium, multi-site PROSPR study in colorectal cancer screening, and pilot study of timely follow-up after positive lung cancer screening; co-led data collection for study of perforation and expulsion of postpartum IUD; led data management activities; built dashboards as a tool for exploratory analysis or data knowledge.
- Oct 2000 – Apr 2006 *Biostatistician II, Group Health Center for Health Studies* (Seattle, WA)*
Provided biostatistical support on 5-7 projects at a time for investigators in research areas of breast cancer, women's health, complementary alternative medicine, and depression. Breast cancer research was mainly with the Cancer Research Network and National Breast Cancer Surveillance Consortium. Women's health research was mainly with bone mineral density and exposure to hormonal contraception. Analyses of study data include cross-sectional, longitudinal, case-control, and randomized study designs. Other responsibilities included maintenance of study databases and datasets, directing programmers and analysts, and mentoring biostatistics students.
- Dec 1995 - Sep 2000 *Biostatistician I, Group Health Center for Health Studies* (Seattle, WA)*
As part of the Statistical Coordinating Center for a national Breast Cancer Surveillance Consortium project, helped to standardize data collection; provided both biostatistical and programmer support for two studies in women's health research (ECHO, AWARE), and developed a working analysis plan for one of the Cancer Research Network studies.
- Oct 1994 – Dec 1995 *Research Associate II, Group Health Center for Health Studies* (Seattle, WA)*
Worked mainly on a randomized clinical trial of thiazide and bone mineral density in an elderly population. Other work included an analysis of the cost of cancer and assisting lead biostatisticians and investigators on multiple projects.

- Jan 1993 – Oct 1994 *Student Research Associate, Group Health Center for Health Studies* (Seattle, WA)*
Main responsibilities were to build a study database for a double-blind, placebo-control, randomized clinical trial to test the effectiveness of thiazide in the prevention of osteoporosis (TOPAS study) and prepare reports for the Data Safety and Monitoring Committee.
- 1987 - 1992 *Health Actuarial Consultant, Howard Johnson & Company (Seattle, WA)*
Analyzed claims experience and developed pricing manuals (health, dental, vision, organ transplants) for insurance and reinsurance companies.

*Group Health Center for Health Studies became Group Health Research Institute in 2009 and Kaiser Permanente Washington Health Research Institute in 2017.

PUBLICATIONS

1. Lowry KP, **Ichikawa L**, Hubbard RA, Buist DSM, Bowles EJA, Henderson L, Kerlikowske K, Specht JM, Sprague BL, Wernli KJ, Lee JM. Variation in Second Breast Cancer Risk After Primary Invasive Cancer by Time Since Primary Cancer Diagnosis and Estrogen Receptor Status. *Accepted Cancer 2023*
2. Su YR, Buist DS, Lee JM, **Ichikawa L**, Miglioretti DL, Aiello Bowles EJ, Wernli KJ, Kerlikowske K, Tosteson A, Lowry KP, Henderson LM, Sprague BL, Hubbard RA. Performance of statistical and machine learning risk prediction models for surveillance benefits and failures in breast cancer survivors. *Cancer Epidemiol Biomarkers Prev 2023 Jan 25;EPI-22-0677*
3. Anthony MS, Zhou X, Schoendorf J, Reed SD, Getahun D, Armstrong MA, Gatz J, Peipert JF, Raine-Bennett T, Fassett MJ, Saltus CW, Ritchey ME, **Ichikawa L**, Shi JM, Wahdan Y, Wang J, Xie F, Merchant M, Hunter S, Chiu VY, Rothman KJ, Im TM, Takhar HS, Asimwe A, Pisa F. Demographic, reproductive and medical risk factors for intrauterine device expulsion: APEX-IUD study. *Obstet Gynecol. 2022 Nov 3;140(6):1017-30.*
4. Pocobelli G, **Ichikawa L**, Yu O, Green BB, Meyers K, Gray R, Shea M, Chubak J. Validation of International Classification of Diseases, Tenth Revision, Clinical Modification Diagnosis Codes for Heart Failure Subtypes. *Pharmacoepidemiology and Drug Safety (short report) 2022 Sep;31(9):992-997.*
5. Gatz JL, Armstrong MA, Postlethwaite D, Raine-Bennett T, Chillemi G, Alabaster A, Merchant M, Reed SD, **Ichikawa L**, Getahun D, Fassett MF, Shi JM, Xie F, Chiu VY, Im TM, Takhar HS, Wang J, Saltus C, Ritchey ME, Asimwe A, Pisa F, Schoendorf J, Wahdan Y, Zhou X, Hunter S, Anthony MS, Peipert JF. Association between intrauterine device type and risk of perforation and device expulsion: results from the Association of Perforation and Expulsion of Intrauterine Devices study. *Am J Obstet Gynecol 2022 Jul;227(1):57.e1-57.e13. doi: 10.1016/j.ajog.2022.03.062. Epub 2022 Apr 5.*
6. Getahun D, Fassett MJ, Gatz J, Armstrong MA, Peipert JF, Raine-Bennett T, Reed SD, Zhou X, Schoendorf J, Postlethwaite D, Shi JM, Saltus CW, Wang J, Xie F, Chiu VY, Merchant M, Alabaster A, **Ichikawa LE**, Hunter S, Im TM, Takhar HS, Ritchey ME, Chillemi G, Pisa F, Asimwe A, Anthony MS. Association between menorrhagia and risk of intrauterine device-related uterine perforation and device expulsion: results from the Association of Uterine Perforation and Expulsion of Intrauterine Device study. *Am J Obstet Gynecol 2022 Mar 12;S0002-9378(22)00197-1.*
7. Reed SD, Zhou X, **Ichikawa L**, Gatz JL, Peipert JF, Armstrong MA, Raine-Bennett T, Getahun D, Fassett MJ, Postlethwaite DA, Shi JM, Asimwe A, Pisa F, Schoendorf J, Saltus CW, Anthony MS, On behalf of the APEX-IUD Study Team. Intrauterine device-related uterine perforation incidence and risk (APEX-IUD): a large multisite cohort study. *Lancet Volume 399, Issue 10341, 4-10 June 2022, Pages 2103-2112.*

8. Armstrong MA, Raine-Bennett T, Reed SD, Gatz J, Getahun D, Schoendorf J, Postlethwaite D, Fassett MJ, Peipert JF, Saltus CW, Merchant M, Alabaster A, Zhou X, **Ichikawa L**, Shi JM, Chiu VY, Xie F, Hunter S, Wang J, Ritchey ME, Chillemi G, Im TM, Takhar HS, Pisa F, Asimwe A, Anthony MS. Timing of postpartum intrauterine device insertion and breastfeeding and risks of expulsion. *JAMA Network Open* 2022;5(2):e2148474.
9. Lee J, **Ichikawa LE**, Wernli KJ, Bowles E, Specht JM, Kerlikowske K, Miglioretti DL, Lowry KP, Tosteson ANA Stout NK, Houssami N, Onega T, Buist DSM. Digital Mammography and Breast Tomosynthesis Performance in Women with a Personal History of Breast Cancer, 2007-2016. *Radiology* 2021 Aug;300(2):290-300.
10. Anthony MS, Reed SD, Armstrong M, Getahun D, Gatz JL, Saltus CW, Zhou X, Schoendorf J, Postlethwaite DA, Raine-Bennett T, Fassett MJ, Peipert JF, Ritchey ME, **Ichikawa LE**, Lynen R, Alabaster AL, Merchant M, Chiu VY, Shi JM, Xie F, Hui SL, Wang J, Hunter S, Bartsch J, Frenz AK, Chillemi G, Im TM, Takhar HS, Asimwe A. Design of the Association of Uterine Perforation and Expulsion of IUD (APEX-IUD) Study: A Multisite Retrospective Cohort Study. *AJOG* 2021 Jun;224(6):599.e1-599.e18.
11. Buist DM, **Ichikawa L**, Wernli KJ, Lee CI, Henderson LM, Kerlikowske K, Bowles EJ, Miglioretti DL, Specht J, Rauscher G, Sprague B, Onega T, Lee JM. Facility variability in examination indication among women with prior breast cancer: implications and the need for standardization. *J Am Coll Radiol*. 2020 Jan 28. pii: S1546-1440(19)31483-8. doi: 10.1016/j.jacr.2019.12.020.
12. Sullivan MD, Boudreau D, **Ichikawa L**, Cronkite D, Albertson-Junkans L, Salgado G, VonKorff M, Carrell DS. Primary care opioid taper plans are associated with sustained opioid dose reduction. *J Gen Intern Med*. 2020 Jan 6. doi: 10.1007/s11606-019-05445-1.
13. Henderson, LM, **Ichikawa L**, Buist DSM, Lee JM, Bush M, Johnson D, Onega T, Nekhlyudov L, Kerlikowske K, Miglioretti DL, Sprague BL, Wernli KJ. Patterns of Breast Imaging Use among Women with a Personal History of Breast Cancer. *J Gen Intern Med* (2019).
14. Anthony MS, Armstrong M, Getahun D, Scholes D, Gatz J, Schulze-Rath R, Postlethwaite D, Merchant M, Alabaster A, Chillemi G, Raine-Bennett T, Xie F, Chiu VY, Im TM, Takhar HS, Fassett M, Grafton J, Cronkite D, **Ichikawa L**, Reed SD, Hui SL, Ritchey ME, Saltus CW, Andrews EB, Rothman KJ, Asimwe A, Juliane Schoendorf J. Identification and Validation of Uterine Perforation, Intrauterine Device Expulsion, and Breastfeeding in Four Health Care Systems With Electronic Health Records. *Clinical Epidemiology* 2019;11 635–643.
15. Wernli KJ, **Ichikawa L**, Kerlikowske K, Buist DSM, Brandzel SD, Bush M, Johnson D, Henderson LH, Nekhlyudov L, Onega T, Sprague BL, Lee JM, Lehman CD, Miglioretti DL. Surveillance Breast MRI and Mammography: Comparison in Women with a Personal History of Breast Cancer. *Radiology* 2019; 00:1-8.
16. Miglioretti DL, **Ichikawa L**, Smith R, Buist, DSM, Carney PA, Geller B, Monsees B, Onega T, Rosenberg R, Sickles EA, Yankaskas B, Kerlikowske K. Correlation between screening mammography interpretive performance on a test set and performance in clinical practice. *Acad Radiol* 2017 Oct;24(10):1256-1264. doi: 10.1016/j.acra.2017.03.016. Epub 2017 May 24.
17. Lee JM, **Ichikawa L**, Valencia E, Miglioretti DL, Wernli K, Buist DSM, Kerlikowske K, Henderson LM, Sprague BL, Onega T, Rauscher GH, Lehman CD. Performance Benchmarks for Screening Breast MR Imaging in Community Practice. *Radiology* 2017 Oct;285(1):44-52. doi: 10.1148/radiol.2017162033. Epub 2017 Jun 5.
18. Sherman ME, **Ichikawa L**, Pfeiffer RM, Miglioretti DL, Kerlikowske K, Tice J, Vacek PM, Gierach GL. Relationship of Predicted Risk of Developing Invasive Breast Cancer, as Assessed with Three Models, and Breast Cancer Mortality among Breast Cancer Patients. *PLoS One*. 2016 Aug 25;11(8):e0160966.

19. Scholes D, LaCroix AZ, Hubbard RA, **Ichikawa LE**, Spangler L, Operskalski BH, Gell N, Ott SM. Oral contraceptive use and fracture risk around the menopausal transition. *Menopause*. 2016 Feb;23(2):166-74.
20. Lee AY, **Ichikawa L**, Lee JM, Lee CI, DeMartini WB, Joe BN, Wernli KJ, Sprague BL, Herschorn SD, Lehman CD. Concordance of BI-RADS Assessments and Management Recommendations for Breast MRI in Community Practice. *AJR Am J Roentgenol*. 2016 Jan;206(1):211-6.
21. Allison KH, Abraham LA, Weaver DL, Tosteson AN, Nelson HD, Onega T, Geller BM, Kerlikowske K, Carney PA, **Ichikawa LE**, Buist DS, Elmore JG. Trends in breast biopsy pathology diagnoses among women undergoing mammography in the United States: a report from the Breast Cancer Surveillance Consortium. *Cancer*. 2015 May 1;121(9):1369-78.
22. Miglioretti DL, **Ichikawa L**, Smith RA, Bassett LW, Feig SA, Monsees B, Parikh JR, Rosenberg RD, Sickles EA, Carney PA. Criteria for identifying radiologists with acceptable screening mammography interpretive performance on basis of multiple performance measures. *AJR Am J Roentgenol*. 2015 Apr;204(4):W486-91.
23. Spangler L, **Ichikawa LE**, Hubbard RA, Operskalski B, LaCroix AZ, Ott SM, Scholes D. A comparison of self-reported oral contraceptive use and automated pharmacy data in perimenopausal and early postmenopausal women. *Ann Epidemiol*. 2015 Jan;25(1):55-9.
24. Lee CI, **Ichikawa L**, Rochelle MC, Kerlikowske K, Miglioretti DL, Sprague BL, DeMartini WB, Wernli KJ, Joe BN, Yankaskas BC, Lehman CD. Breast MRI BI-RADS Assessments and Abnormal Interpretation Rates by Clinical Indication in US Community Practices. *Acad Radiol*. 2014 Nov;21(11):1370-6.
25. Wernli KJ, DeMartini WB, **Ichikawa L**, Lehman CD, Onega T, Kerlikowske K, Henderson LM, Geller BM, Hofmann M, Yankaskas BC, for the Breast Cancer Surveillance Consortium. Patterns of breast magnetic resonance imaging use in community practice. *JAMA Intern Med*. 2014;174(1):125-132. doi:10.1001/jamainternmed.2013.11963.
26. Carney PA, Parikh J, Sickles EA, Feig SA, Monsees B, Bassett LW, Smith RA, Rosenberg R, **Ichikawa L**, Wallace J, Tran K, Miglioretti DL. Diagnostic mammography: Identifying minimally acceptable interpretive performance criteria. *Radiology* 2013 Jan;266(1). Epub 2013 Jan 7
27. Gierach GL, **Ichikawa L**, Kerlikowske K, Brinton LA, Farhat GN, Vacek PM, Weaver DL, Schairer C, Taplin SH, Sherman ME.; Relationship between mammographic density and breast cancer death in the Breast Cancer Surveillance Consortium.; *J Natl Cancer Inst*. 2012;104(16):1218-27. Epub 2012 Aug 21.
28. Geller BM, **Ichikawa L**, Miglioretti DL, Eastman D. Web-based mammography audit feedback. *Am J Roentgenol* 2012 Jun;198(6):W562-7. PMID: 22623571 [PubMed - in process]
29. Scholes D, Hubbard R, **Ichikawa LE**, LaCroix AZ, Spangler L, Beasley JM, Reed S, Ott SM.; Oral contraceptive use and bone density change in adolescent and young adult women: a prospective study of age, hormone dose, and discontinuation. *J Clin Endocrinol Metab* 2011 Sep 96(9):E1380-7. Epub 2011 Jul 13.
30. DeMartini WB, **Ichikawa L**, Yankaskas BC, Buist D, Kerlikowske K, Geller B, Onega T, Rosenberg RD, Lehman CD.; Breast MRI in community practice: equipment and imaging techniques at facilities in the Breast Cancer Surveillance Consortium. *J Am Coll Radiol* 2010;7(11):878-84.
31. Linde JA, Simon GE, Ludman EJ, **Ichikawa LE**, Operskalski BH, Arterburn D, Rohde P, Finch EA, Jeffery RW.; A randomized controlled trial of behavioral weight loss treatment versus combined weight loss/depression treatment among women with comorbid obesity and depression. ; *Ann Behav Med*. 2011 Feb;41(1):119-30.
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34. Beasley JM, **Ichikawa LE**, Ange, BA, Spangler L, LaCroix AZ, Ott SM, Scholes D. Is protein intake associated with bone mineral density in young women? *Am J Clin Nutr* 2010 May;91(5):1311-6. Epub 2010 Mar 10.
35. Ludman EJ, **Ichikawa LE**, Simon GE, Rohde P, Arterburn D, Operskalski BH, Linde JA, Jeffery RW. Breast and cervical cancer screening specific effects of depression and obesity. *Am J Prev Med* 2010 Mar;38(3):303-10.
36. Sherman KJ, Cherkin DC, **Ichikawa L**, Avins AL, Delaney K, Barlow WE, Khalsa PS, Deyo RA. Treatment expectations and preferences as predictors of outcome of acupuncture for chronic back pain. *Spine* 2010 Jul 1;35(15):1471-7. Epub 2010 Jun.
37. Scholes D, **Ichikawa L**, LaCroix AZ, Spangler L, Beasley JM, Reed S, Ott SM. Oral contraceptive use and bone density in adolescent and young adult women. *Contraception* 2010 Jan;81(1):35-40.
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39. Sherman KJ, Hawkes RJ, **Ichikawa L**, Cherkin DC, Deyo RA, Avins AL, Khalsa PS. Comparing recruitment strategies in a study of acupuncture for chronic back pain. *BMC Med Res Methodol* 2009;9(1):69.
40. Sherman KJ, Cherkin DC, **Ichikawa L**, Avins AL, Barlow WE, Khalsa PS, Deyo RA. Characteristics of patients with chronic back pain who benefit from acupuncture. *BMC Musculoskeletal Disorders* 2009, 10:114.
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42. Jeffery RW, Linde JA, Simon GE, Ludman EJ, Rhode P, **Ichikawa LE**, Finch EA. Reported food choices in older women in relation to body mass index and depressive symptoms. *Appetite* 2009 Feb;52(1):238-240. Epub 2008 Aug 28. (short communication)
43. Ott SM, **Ichikawa LE**, LaCroix AZ, Scholes D. Navel jewelry artifacts and intravertebral variation in spine bone densitometry in adolescents and young women. *J Clin Densitom* 2009 Jan-Mar;12(1):84-8. Epub 2008 Nov 5.
44. Arterburn D, **Ichikawa L**, Ludman, EJ, Operskalski B, Linde JA, Anderson E, Rohde P, Jeffery RW, and Simon GE. Validity of clinical body weight measures as substitutes for missing data in a randomized trial. *Obesity Research & Clinical Practice* 2008;10(4):277-81.
45. Ott SM, LaCroix AZ, Scholes D, **Ichikawa LE**, Wu K. Effects of three years of low-dose thiazides on mineral metabolism in healthy elderly persons. *Osteoporosis International* 2008 Sep;19(9):1315-22.
46. Rhode P, **Ichikawa L**, Simon GE, Ludman EJ, Linde JA, Jeffery RW. Associations of child sexual and physical abuse with obesity and depression in middle-aged women. *Child Abuse & Neglect* 2008 Sep;32(9):878-87.
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51. Buist DS, **Ichikawa L**, Prout NM, Yood MU, Field TS, Owusu C, Geiger AM, Quinn VP, Wei F, Silliman RA. Receipt of appropriate primary breast cancer therapy and adjuvant therapy are not associated with obesity in older women with access to health care. *J Clin Oncol* 2007 Aug 10;25(23):3428-36.
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MEETING ABSTRACTS

1. Validation of Uterine Perforation and Intrauterine Device Expulsion in Electronic Health Records. Catherine W Saltus, Mary S Anthony, Mary Anne Armstrong, Debbie Postlethwaite, Darios Getahun, Fagen Xie, Jennifer

- Gatz, Jane Grafton, Maqdooda Merchant, Laura Ichikawa, Michael J Fassett, Renate Schulze-Rath, Alex Asiimwe. International Conference on Pharmacoepidemiology & Therapeutic Risk Management (ICPE), 2018.
2. M Rochelle, C Lee, L Ichikawa, K Kerlikowske, B Joe, B Sprague, K Wernli, W DeMartini, C Lehman. Variation in Breast MRI BI-RADS Assessments by Clinical Indication in U.S. Community Settings. Association of University Radiologists, 2013.
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