

Curriculum Vitae
LAURA E. ICHIKAWA

Kaiser Permanente Washington Health Research Institute
1730 Minor Avenue, Suite 1360
Seattle, WA 98101

E-mail: Laura.E.Ichikawa@kp.org

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 supplemental imaging; also conduct analyses in areas of colorectal and lung cancer research.
- 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. Lee JM, **Ichikawa L**, Su Y, Noguchi N, Hubbard RA, Kerlikowske K, Specht JM, O’Meara ES, Henderson LM, Houssami N. Comparative accuracy of digital breast tomosynthesis and digital mammography for surveillance after breast cancer treatment. *J Natl Compr Canc Netw* 2025 Oct 16;23(11):445-452.
2. Chubak J, **Ichikawa L**, Merchant SA, Dalmat RR, Ziebell RA, Jensen CD, Lee JK, Corley DA, Ghai NR, Green BB, Skinner CS, Schottinger JE, Breslau ES, Levin TR. Incidence of serious complications following screening colonoscopy in adults aged 76 to 85 years old. *Cancer Epidemiol Biomarkers Prev* 2025 Feb 6;34(2):281-289.
3. Lee, JM, **Ichikawa L**, Kerlikowske K, Buist DSM, Lee CI, Sprague BL, Henderson LM, Onega T, Wernli KJ, Lowry KP, Stout NK, Tosteson ANA, Miglioretti DL. Relative timing of mammography and MRI for breast cancer screening: Impact on performance evaluation. *J Am Coll Radiol* 2024 Nov;21(11):1722-1732.
4. Hubbard RA, Su Y, Bowles EJA, **Ichikawa L**, Kerlikowske K, Lowry KP, Miglioretti DL, Tosteson ANA, Wernli KJ, Lee JM. Predicting five-year interval second breast cancer risk in women with prior breast cancer. *J Natl Cancer Inst* 2024 Jun 7;116(6):929-937.
5. Foster VM, Trentham-Dietz A, Stout NK, Lee CI, **Ichikawa L**, Eavey J, Henderson L, Miglioretti DL, Tosteson ANA, Bowles EA, Kerlikowske K, Sprague BL. Supplemental breast cancer screening after negative mammography in US women with dense breasts. Brief communication *J Natl Cancer Inst* 2025 Jun 1;117(6):1271-1275.
6. 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. Performance of supplemental US screening in women with dense breasts and varying breast cancer risk: Results from the Breast Cancer Surveillance Consortium. *Radiology* 2024 Aug; 312(2):e232380.
7. White LL, Burnett-Hartman AN, **Ichikawa L**, Goldberg SR, Chubak J, Feigelson HS, Kamineni A. SARS-CoV-2 infection and related hospitalization among cancer survivors. *Cancer Epidemiol Biomarkers Prev* 2024 Mar 1;33(3):442-444.
8. Lee JM, **Ichikawa L**, Wernli KJ, Bowles EAJ, Specht JM, Kerlikowske K, Miglioretti DL, Lowry KP, Tosteson ANA, Stout NK, Houssami N, Onega T, Buist DSM. Impact of surveillance mammography intervals less than one year on performance measures in women with a personal history of breast cancer. *Korean J Radiol* 2023 Aug;24(8):729-738.
9. Sprague BL, **Ichikawa L**, Eavey J, Lowry KP, Rauscher G, O’Meara ES, Miglioretti DL, Chen S, Lee JM, Stout NK, Mandelblatt JS, Alsheik N, Herschorn SD, Perry H, Weaver DL, Kerlikowske K. Breast cancer

risk characteristics of women undergoing whole breast ultrasound screening versus mammography alone. *Cancer* 2023 Aug 15;129(16):2456-2468.

10. 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. *Cancer* 2023 Apr 15;129(8):1173-1182.
11. 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 Apr 3;32(4):561-571.
12. 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.
13. 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. *Pharmacoepidemiol Drug Saf* 2022 Sep;31(9):992-997.
14. 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.
15. 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 L**, 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 Jul;227(1):59.e1-59.e9.
16. 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* 2022 Jun 4;399(10341):2103-2112.
17. 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 Netw Open* 2022 Feb 1;5(2):e2148474.
18. Lee J, **Ichikawa L**, 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.
19. 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 L**, 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. *Am J Obstet Gynecol* 2021 Jun;224(6):599.e1-599.e18.

20. 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 Jun;17(6):755-764.
21. 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 Mar;35(3):687-695.
22. 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 Oct;34(10):2098-2106.
23. 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, Asiimwe A, Juliane Schoendorf J. Identification and validation of uterine perforation, intrauterine device expulsion, and breastfeeding in four health care systems with electronic health records. *Clin Epidemiol* 2019 Jul 23;11:635-643.
24. 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 Aug; 292(2):311-318.
25. 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.
26. 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.
27. 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.
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29. 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.
30. Allison KH, Abraham LA, Weaver DL, Tosteson AN, Nelson HD, Onega T, Geller BM, Kerlikowske K, Carney PA, **Ichikawa L**, 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.
31. 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.

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33. 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.
34. 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.
35. 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 May;267(2):359-67.
36. 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 Aug 22;104(16):1218-27.
37. Geller BM, **Ichikawa L**, Miglioretti DL, Eastman D. Web-based mammography audit feedback. *Am J Roentgenol* 2012 Jun;198(6):W562-7.
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41. **Ichikawa L**, Barlow WE, Anderson, ML, Taplin SH, Geller BM, Brenner RJ. Time trends in radiologists' interpretive performance at screening mammography from the community-based Breast Cancer Surveillance Consortium, 1996-2004. *Radiology* 2010 Jul;256(1):74-82.
42. Phipps AI, **Ichikawa L**, Bowles EJ, Carney PA, Kerlikowske K, Miglioretti DL, Buist DS. Defining menopausal status in epidemiologic studies: A comparison of multiple approaches and their effects on breast cancer rates. *Maturitas* 2010 Sep;67(1):60-6.
43. Beasley JM, **Ichikawa L**, 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.
44. Ludman EJ, **Ichikawa L**, 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.
45. 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.
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