

Curriculum Vitae
LAURA E. ICHIKAWA

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EDUCATION

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| 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

- May 2006 - present *Biostatistician III, Group Health Research Institute (Seattle, WA)*
Continue to provide biostatistical support in the areas of breast cancer, women's health, complementary alternative medicine, and depression research and direct programmers in data management activities.
- 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.

PUBLICATIONS

1. Geller BM, **Ichikawa L**, Miglioretti DL, Eastman D. Web-based mammography audit feedback. *Am J Roentgenol* (accepted 11/1/2011).
2. 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.
3. 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.
4. 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*. 2010 Sep 28 [Epub ahead of print].
5. **Ichikawa LE**, 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. Epub 2010 May 26.
6. 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. Epub 2010 May 21.
7. 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.
8. Ludman EJ, **Ichikawa LE**, Simon GE, Rohde P, Arterburn D, Operskalski BH, Linde JA, Jeffery RW. Depression and obesity have specific effects on screening for breast and cervical cancer. *Am J Prev Med* 2010 Mar;38(3):303-10.
9. 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.
10. 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.
11. Ludman E, Simon GE, **Ichikawa LE**, Operskalski BH, Arterburn D, Linde JA, Jeffery RW, Rohde P, Finch EA. Does depression reduce the effectiveness of behavioral weight loss treatment? *Behav Med* 2010;35(4):126-34.
12. 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.
13. 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.

14. Cherkin DC, Sherman KJ, Avins AL, Erro JH, **Ichikawa L**, Barlow WE, Delaney K, Hawkes R, Hamilton L, Pressman A, Khalsa PS, Deyo RA. A randomized trial comparing acupuncture, simulated acupuncture, and usual care for chronic low back pain. *Arch Intern Med* 2009;169(9):858-66.
15. 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)
16. 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.
17. Arterburn D, Ichikawa L, Ludman EJ, Operskalsk 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.
18. 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.
19. 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.
20. Jeffery RW, Finch EA, Linde JA, Simon GE, Ludman EJ, Operskalski BH, Rhode P, Ichikawa LE. Does clinical depression affect the accuracy of self-reported height and weight in obese women? *Obesity* 2008 Feb;16(2):473-5.
21. Tice JA, Cummings SR, Smith-Bindman R, Ichikawa L, Barlow WE, Kerlikowske K. Using clinical factors and mammographic breast density to estimate breast cancer risk: development and validation of a new predictive model. *Ann Intern Med* 2008 Mar 4;148(5):337-47.
22. Simon GE, Ludman EJ, Linde JA, Operskalski BH, Ichikawa L, Rohde P, Finch EA, Jeffery RW. Association between obesity and depression in middle-aged women. *Gen Hosp Psychiatry* 2008 Jan-Feb;30(1):32-9.
23. Wetmore CM, Ichikawa L, LaCroix AZ, Ott SM, Scholes D. Association between caffeine intake and bone mass among young women: potential effect modification by depot medroxyprogesterone acetate use. *Osteoporos Int* 2008 Apr;19(4):519-27. Epub 2007 Oct 9
24. 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.
25. Linde JA, Jeffery RW, Finch EA, Simon GE, Ludman EJ, Operskalski BH, Ichikawa L, Rhode P. Relation of body mass index to depression and weighing frequency in overweight women. *Prev Med* 2007 Jul;45(1):75-9.
26. Kerlikowske K, Ichikawa L, Miglioretti DL, Buist DS, Vacek PM, Smith-Bindman R, Yankaskas B, Carney P, Ballard-Barbash R. Longitudinal measurement of clinical mammographic breast density improves estimation of breast cancer risk. *J Natl Cancer Inst* 2007 Mar 7;99(5):386-95.
27. Simon GE, Khandler RK, Ichikawa L, Operskalski BH. Recovery from depression predicts lower health services costs. *J Clin Psychiatry* 2006;67(8):1226-31.
28. Weaver DL, Rosenberg, RD, Barlow WE, Ichikawa L, Carney PA, Kerlikowske K, Buist DS, Geller BM, Key CR, Maygarden SJ, Ballard-Barbash R. Pathologic findings from the Breast Cancer

- Surveillance Consortium: population-based outcomes in women undergoing biopsy after screening mammography. *Cancer* 2006;106(4):732-42.
29. Geller BM, Ichikawa L, Buist DS, Sickles EA, Carney PA, Yankaskas BC, Dignan M, Kerlikowske K, Yabroff KR, Barlow WE, Rosenberg R. Improving the concordance of mammography assessment and management recommendations. *Radiology* 2006;241(1):67-75.
 30. Mouchawar J, Taplin SH, Ichikawa L, Barlow WE, Geiger AM, Weinmann S, Gilbert J, Manos MM, Ulcickas Yood M. Late-stage breast cancer among women with recent negative screening mammography: do clinical encounters offer opportunity for earlier detection? *J Natl Cancer Inst Monogr* 2005;(35):39-46.
 31. Yankaskas BC, Taplin SH, Ichikawa L, Geller BM, Rosenberg RD, Carney PA, Kerlikowske K, Ballard-Barbash R, Cutter GR, Barlow WE. Association between mammography timing and measures of screening performance in the United States. *Radiology* 2005 Feb;234(2):363-73.
 32. Scholes D, LaCroix AZ, Ichikawa LE, Barlow WE, Ott SM. Change in bone density among adolescent women using and discontinuing depot medroxyprogesterone acetate contraception. *Arch Pediatr Adolesc Med* 2005 Feb;159(2):139-44.
 33. Taplin SH, Ichikawa L, Yood MU, Manos MM, Geiger AM, Weinmann S, Gilbert J, Mouchawar J, Leyden WA, Altaras R, Beverly RK, Casso D, Westbrook EO, Bischoff K, Zapka JG, Barlow WE. Reason for late-stage breast cancer: absence of screening or detection, or breakdown in follow-up? *J Natl Cancer Inst* 2004 Oct 20;96(20):1518-27.
 34. Scholes D, LaCroix AZ, Ichikawa LE, Barlow WE, Ott SM. The association between depot medroxyprogesterone acetate contraception and bone mineral density in adolescent women. *Contraception* 2004 Feb;69(2):99-104.
 35. Taplin SH, Ichikawa L, Buist D, Seger D, White E. Evaluating organized breast cancer screening implementation: the prevention of late-stage disease? *Cancer Epidemiol Biomarkers Prev* 2004 Feb;13(2):225-34.
 36. Reed SD, Scholes D, LaCroix AZ, Ichikawa LE, Barlow WE, Ott SM. Longitudinal changes in bone density in relation to oral contraceptive use. *Contraception* 2003 Sep;68(3):177-82.
 37. Scholes D, McBride CM, Grothaus L, Civic D, Ichikawa L, Fish L, Yarnall KS. A tailored minimal self-help intervention to promote condom use in young women: results from a randomized trial. *AIDS* 2003 Jul 4;17(10):1547-56.
 38. Ott S, LaCroix AZ, Ichikawa L, Scholes D, Barlow WE. Effect of low-dose thiazide diuretics on plasma lipids: results from a double-blinded, randomized clinical trial in elderly men and women. *JAGS* 2003 Mar;51(3):340-7.
 39. Civic D, Scholes D, Ichikawa L, Grothaus L, McBride CM, Yarnall KSH, Fish L. Ineffective use of condoms among young women in managed care. *AIDS Care* 2002 Dec;14(6):779-88.
 40. Scholes D, LaCroix AZ, Ichikawa L, Barlow WE, Ott SM. Injectable hormone contraception and bone density: results from a prospective study. *Epidemiology* 2002 Sep;13(5):581-7.
 41. Taplin S, Ichikawa L, Kerlikowske K, Ernster V, Rosenberg R, Yankaskas B, Carney A, Geller B, Urban N, Dignan M, Barlow WE, Ballard-Barbash R, Sickles E. Concordance of breast imaging reporting and data systems assessments and management recommendations in screening mammography. *Radiology* 2002 Feb;222(2):529-35.
 42. Ott SM, Scholes D, LaCroix AZ, Ichikawa L, Yoshida CK, Barlow WE. Effects of contraceptive use on biochemical markers in young women. *J Clin Endocrinol Metab* 2001 Jan;86(1):179-85.

43. LaCroix AZ, Ott SM, Ichikawa L, Scholes D, Barlow WE. Low-dose hydrochlorothiazide and preservation of bone mineral density in older adults. *Ann Intern Med* 2000 Oct 3;133(7):516-26.
44. Civic D, Scholes D, Ichikawa L, LaCroix AZ, Yoshida CK, Ott SM, Barlow WE. Depressive symptoms in users and non-users of depot medroxyprogesterone acetate. *Contraception* 2000 Jun;61(6):385-90.
45. Barlow WE, Ichikawa L, Rosner D, Izumi S. Analysis of case-cohort designs. *J Clin Epidemiol* 1999;52(12),1165-72.
46. Scholes D, LaCroix AZ, Ott SM, Ichikawa LE, Barlow WE. Bone mineral density in young women using depo-medroxyprogesterone acetate for contraception. *Obstet Gynecol* 1999;93(2),233-8.
47. Treiman GS, Schneider PA, Lawrence PF, Pevac WC, Bush RL, Ichikawa L. Does stent placement improve the results of ineffective or complicated iliac artery angioplasty? *J Vasc Surg* 1998;28(1),104-12; discussion 113-4.
48. Scholes D, Stergachis A, Ichikawa LE, Heidrich FE, Holmes KK, Stamm WE. Vaginal douching as a risk factor for cervical *Chlamydia trachomatis* infection. *Obstet Gynecol* 1998;91(6),993-7.
49. Keech PM, Ichikawa L, Barlow W. A prospective study of contact lens complications in a managed care setting. *Optom Vis Sci* 1996;73(10),653-8.
50. Ichikawa L and Barlow W. Conducting linear growth curve analysis with the SAS system. *Proceedings of the Twentieth Annual SUGI Conference* 1995,1148-53.
51. Treiman GS, Treiman RL, Ichikawa L, Van-Allan R. Should percutaneous transluminal angioplasty be recommended for treatment of infrageniculate popliteal artery or tibioperoneal trunk stenosis? *J Vasc Surg* 1995;22(4),457-63; discussion 464-5.
52. Taplin SH, Barlow W, Urban N, Mandelson MT, Ichikawa L, Nefcy P. Stage, age, comorbidity and direct costs of colon, prostate, and breast cancer care. *J Natl Cancer Inst* 1995;87(6),417-426.
53. Treiman GS, Ichikawa L, Treiman RL, Kohen JL, Cossman DV, Wagner WH, Levin PM, Foran RF. Treatment of recurrent femoral or popliteal artery stenosis after percutaneous transluminal angioplasty. *J Vasc Surg* 1994;20(4),577-85.

MEETING ABSTRACTS

1. Delia Scholes, Laura Ichikawa, Andrea LaCroix, Thy Do, Puneet Arora, Susan Ott. Circulating Sclerostin Levels in a Cohort of Adolescent and Young Adult Women: Cross-sectional Associations with Age and Bone Mass. American Society for Bone and Mineral Research (poster); San Diego, CA; Sep 2011.
2. B.M. Geller, L. Ichikawa, D.L. Miglioretti, D. Eastman. Web-based Mammography Audit Feedback. European Congress of Radiology 2011.
3. Delia Scholes, Laura Ichikawa, Rebecca Hubbard, Andrea LaCroix, Leslie Spangler, Jeannette Beasley, Susan Ott. Oral Contraceptive Use and Change in Bone Density among Adolescent and Young Adult Women: Results from a Prospective Study. American Society for Bone and Mineral Research (oral presentation); Toronto, Ontario CANADA, Oct 2010.
4. Linde JA, Simon GE, Ludman EJ, Ichikawa L, Operskalski B, Arterburn D, Rhode P, Anderson EA, Jeffery RW. Behavioral Weight Loss vs. Combined Weight Loss/Depression Treatment Among Women with Comorbid Obesity and Depression (Linde oral presentation); Society of Behavioral Medicine Annual Meeting; March 26-29, 2008; San Diego, CA

5. Ludman, EJ, Simon GE, Ichikawa L, Arterburn D, Operskalski B, Linde JA, Jeffery RW, Rhode P, Finch E. The Effect of Major Depression on Behavioral Weight Loss Treatment Success (Ludman oral presentation); Society of Behavioral Medicine Annual Meeting; March 26-29, 2008; San Diego, CA
6. Ludman EJ, Simon GE, Ichikawa L, Operskalski B, Arterburn D, Linde J,2 Jeffery RW, Rohde P, Finch E. The effects of depression and obesity and breast and cervical cancer screening (poster); Society of Behavioral Medicine Annual Meeting; March 26-29, 2008; San Diego, CA
7. Ichikawa L, Scholes D, LaCroix AZ, Spangler L, Ott SM. Low-dose estrogen oral contraceptive use and bone mineral density in adolescents and young adult women. American Society for Bone and Mineral Research (poster); Honolulu, HI; Sep 2007.
8. Scholes D, Ichikawa LE, LaCroix AZ, Spangler L, Ot SM. Does oral contraceptive use adversely impact bone density in young women? American Society for Bone and Mineral Research (poster); Honolulu, HI; Sep 2007.
9. Ott SM, LaCroix AZ, Ichikawa LE, Spangler L, Scholes D. Bone density at age of peak bone mass in women is not associated with history of childhood fractures. American Society for Bone and Mineral Research (poster); Honolulu, HI; Sep 2007.
10. Scholes D, LaCroix AZ, Ichikawa L, Ott SM, Barlow WE. Effects of use and discontinuation of depot medroxyprogesterone acetate on bone density in adolescents: results from a longitudinal study. American Society for Bone and Mineral Research (Scholes oral presentation); Minneapolis, MN; Sep 2003.
11. Scholes D, LaCroix AZ, Ichikawa L, Ott SM, Barlow WE. Lifestyle factors associated with bone mineral density in adolescent women. American Society for Bone and Mineral Research (poster); San Antonio, TX; Oct 2002.
12. Scholes D, LaCroix AZ, Ichikawa L, Barlow WE, Ott SM. Depot medroxyprogesterone acetate contraception and bone mineral density in adolescent women. American Society for Bone and Mineral Research (poster); Phoenix, AZ; Oct 13, 2001.
13. Scholes D, McBride CM, Grothaus L, Ichikawa LE, Civic D, Yarnall K, Fish L, Rebolledo V, Yarbrow P, Albright J, Talenti R. A tailored self-help, safer sex intervention: results from a randomized trial. 2001 National HIV Prevention Conference (poster); Atlanta, GA, Aug 2001.
14. Civic D, Scholes D, Ichikawa L, Grothaus L, McBride CM, Yarnall KSH, Fish L. Effective use of condoms among young women in managed care. Society of Behavioral Medicine 22nd Annual Scientific Meeting (poster); Seattle, WA; Mar 21-24, 2001.
15. Scholes D, McBride C, Civic D, Grothaus L, Yarnall K, Ichikawa L, Fish L, Rebolledo V, Yarbrow P, Albright J, Talenti R. A randomized trial of a tailored self-help STD prevention intervention in two managed care settings. 2000 National STD Prevention Conference (poster); Milwaukee, IL; Dec 4-7, 2000.
16. Scholes D, Ichikawa L, LaCroix AZ, Ott SM, Yoshida C, Barlow WE. The effects of oral contraception on bone density: results from a prospective study. American Society for Bone and Mineral Research (poster); Toronto, Ontario, Canada; Sep 2000.
17. Scholes D, LaCroix AZ, Ichikawa L, Ott SM, Barlow WE. A prospective evaluation of the effects on bone of discontinuing depot medroxyprogesterone acetate contraception. American Society for Bone and Mineral Research (poster); St. Louis, MO; Sep 1999.
18. Barlow W, Guo J, Ichikawa L, Beckord J. Medical care costs for women with breast cancer in the last year of life. Contributed presentation, Joint Statistical Meetings, Baltimore MD, Aug 9, 1999.

19. Guo J, Barlow W, Ichikawa L, Beckord J. Medical care costs for women with breast cancer in the last year of life. Contributed presentation, International Health Economics Conference, Rotterdam, Netherlands, Jun 8, 1999.
20. Barlow W, Guo J, Beckord J, Ichikawa L. Medical care costs of cancer patients on cancer protocols. Contributed poster, International Health Economics Conference, Rotterdam, Netherlands, Jun 7, 1999.
21. Ott SM, LaCroix AZ, Ichikawa L, Scholes D, Barlow WE. Effect of low dose thiazide on serum lipids in a 3-year randomized, double-blind controlled trial of normotensive older adults. 81st Annual Meeting of The Endocrine Society (poster); San Diego, CA; Jun 1999.
22. LaCroix AZ, Ott SM, Ichikawa L, Scholes D, Barlow WE. Does low dose thiazide reduce rates of bone loss in older men and women?: results of a 3-year randomized controlled trial. American Society for Bone and Mineral Research (LaCroix oral presentation); San Francisco, CA; Dec 1998.
23. Scholes D, LaCroix AZ, Ichikawa L, Ott SM, Barlow WE. Two-year rates of bone loss associated with initiation of Depot medroxyprogesterone acetate. American Society for Bone and Mineral Research (Scholes oral presentation); San Francisco, CA; Dec 1998.
24. Ott SM, LaCroix AZ, Ichikawa L, Barlow WE. Effect of contraceptive use on bone biochemical markers in young women. American Society for Bone and Mineral Research (poster); San Francisco, CA; Dec 1998.
25. Scholes D, LaCroix AZ, Ichikawa L, Ott SM, Barlow WE. A prospective evaluation of the effects of Depo-medroxyprogesterone acetate contraception on bone mineral density in young women. American Society for Bone and Mineral Research (poster); Seattle, WA; Sep 1997.
26. Scholes D, LaCroix AZ, Ichikawa L, Ott SM. Depo-medroxyprogesterone acetate exposure and bone mineral density in young women. American Society for Bone and Mineral Research (poster); Seattle, WA; Sep 1996.
27. Scholes D, Stergachis A, Ichikawa L, Heidrich F, Holmes K, Stamm W. Vaginal douching and risk of cervical chlamydial infections in young women, Society for Epidemiological Research; Snowbird, UT; Jun 1995.
28. Ichikawa L and Barlow W. Conducting Linear Growth Curve Analysis using the SAS System, SAS Users Group International 20th Annual Conference; Orlando, FL; Apr 1995.

ACKNOWLEDGMENTS

Duerksen KM, Barlow WE, Stasior OG. Fused eyelids in premature infants. *Ophthalmic Plastic and Reconstructive Surgery* 10(4); 234-240.

CONTINUING EDUCATION COURSES

- SAS/IML Studio: A Programming Environment for High-End Data Analysis – JSM 2010 (Vancouver)
- R for SAS, SPSS & Stata Users – JSM 2010 (Vancouver)
- Multilevel and Mixed Models in Stata (Gutierrez). ASA Continuing Education, Joint Statistical Meetings August 2009.
- Survey Data Analysis with Stata (Pitblado). ASA Continuing Education, Joint Statistical Meetings August 2009.
- Absolute Risk Prediction (Gail & Pfeiffer). ASA Continuing Education, Joint Statistical Meetings August 2009.
- Statistical Evaluation of Biomarkers and Diagnostic Tests (Pepe). University of Washington, Winter 2008.

- Models for Discrete Repeated Measures (Verbeke and Molenberghs). Joint Statistical Meetings, Seattle, WA; Aug 8, 2006
- Treatment of Missing Data Via Multiple Imputation and Maximum Likelihood; Seattle, WA; Jun 2-3, 2003.
- Analysis of longitudinal data; International Conference on Health Policy Research workshop; Dec 7, 2001
- Hierarchical modeling for profiling in health and education; International Conference on Health Policy Research workshop; Dec 8, 2001
- Bootstrap Methods: A Guide for Practitioners; ASA, Puget Sound Chapter; May 29, 2001
- Contemporary Methods for Repeated Measures Analysis; ASA, Puget Sound Chapter; May 1-2, 2000.
- Determining Sample Size and Power in Study Planning; ASA, Puget Sound Chapter (travelling short course); Apr 14, 1999.
- Using the SAS[®] System for Regression Analysis; PNWSUG half-day workshop; Jun 5, 1999
- Using the SAS[®] System for Logistic Regression; PNWSUG half-day workshop; Jun 5, 1999
- S-plus Fundamentals; MathSoft 4; Portland, OR; Jul 12-15, 1999.

MEMBERSHIP

- American Statistical Association and Puget Sound Chapter member