

**ONCHEE YU, M.S.**  
Curriculum Vitae

Group Health Research Institute  
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**EDUCATION:**

- Dec 1999            Master of Science, Biostatistics  
University of Washington, Seattle, WA.  
*Master's Thesis:* Effects of Carbon Monoxide and Atmospheric Particles  
on Asthmatic Children in the CAMP Air Pollution Ancillary Study.
- Jun 1997            Bachelor of Science, Biochemistry, with a minor degree in Mathematics  
University of Washington, Seattle, WA.

**PROFESSIONAL EXPERIENCE:**

- May 2010 – present    Biostatistician III  
Group Health Research Institute (formerly Group Health Center for Health  
Studies), Seattle, WA.
- May 2005 – Apr 2010    Biostatistician II  
Group Health Center for Health Studies, Seattle, WA.
- Oct 1999 – Apr 2005    Biostatistician I  
Group Health Center for Health Studies, Seattle, WA.
- Sep 1999 – present    Biostatistician/Consultant  
Seattle Institute for Biomedical and Clinical Research, Seattle, WA.
- Jul 1998 – Sep 1999    Research Health Science Specialist  
VA Puget Sound Health Care System, Seattle, WA.
- Jun 1997 – Jun 1998    Research Assistant  
Seattle Institute for Biomedical and Clinical Research, Seattle, WA.

**CONSULTING EXPERIENCE:**

- 2003 – 2004            Consulting on Master thesis for two students in the Department of  
Epidemiology at the University of Washington.

- 1999 Consulting on Master thesis for a student in the Department of Nutrition at the University of Washington.
- 1998 Statistical analysis of study data for Cross Cultural Health Care Program (CCHCP), Seattle, WA.

### **HONORS and AWARDS:**

- 1998 – 1999 Traineeship Grant from School of Public Health, University of Washington
- 1996 Honored by the 19<sup>th</sup> Annual Edition of the National Dean’s List
- 1996 Member, Phi Eta Sigma honor society
- 1995 Broadway High School Alumni Foundation College Transfer Scholarship
- 1994 – 1995 Career Access Scholarship, Scholarship from Yee Benevolent Associates
- 1993 – 1994 Industrial Kiwanis Scholarship, Academic Excellence Scholarship

### **PUBLICATIONS:**

#### **Published:**

1. **Yu O**, Sheppard L, Lumley T, Koenig JQ, Shapiro GG. Effects of ambient air pollution on symptoms of asthma in Seattle-area children enrolled in the CAMP Study. *Environmental Health Perspectives* 108(12): 1209-14 (2000).
2. Jackson LA, Falls S, **Yu O**, George J, Pietrobon PJ, Rubanowice D, Froeschle J. Diphtheria antitoxin levels among children primed with a diphtheria and tetanus toxoids and acellular pertussis vaccine lot with a subpotent diphtheria toxoid component. *Journal of Infectious Diseases* 183(11): 1698-700 (2001).
3. Jackson LA, Austin G, Chen RT, Stout R, DeStefano F, Gorse GJ, Newman FK, **Yu O**, Weniger BG and the Vaccine Safety Datalink Study Group. Safety and immunogenicity of varying dosages of trivalent inactivated influenza vaccine administered by needle-free jet injectors. *Vaccine* 19(32): 4703-9 (2001).
4. Reiber GE, Smith DG, Wallace C, Sullivan K, Hayes S, Vath C, Maciejewski ML, **Yu O**, Heagerty PJ, LeMaster J. Effect of therapeutic footwear on foot reulceration in patients with diabetes: a randomized controlled trial. *Journal of American Medical Association* 287(19): 2552-8 (2002).
5. Reiber GE, Smith DG, Heagerty PJ, LeMaster J, Wallace C, Hayes SG, Sullivan K, Maciejewski M, **Yu O**. Therapeutic footwear in patients with diabetes (response letter to the editor). *Journal of American Medical Association* 288(10): 1231-3 (2002).

6. Jackson LA, **Yu O**, Heckbert SR, Psaty BM, Malais D, Barlow WE, Thompson WW, and the Vaccine Safety Datalink Study Group. Influenza vaccination is not associated with a reduction in the risk of recurrent coronary events. *American Journal of Epidemiology* 156(7): 634-40 (2002).
7. Reiber GE, Smith DG, Wallace C, Sullivan K, Hayes S, Vath C, Maciejewski ML, **Yu O**, Heagerty PJ, LeMaster J. Two types of therapeutic shoes were no better than usual footwear for preventing foot reulceration. *Journal of Bone & Joint Surgery* 84 A(11): 2107 (2002).
8. Reiber GE, Smith DG, Wallace CM, Vath CA, Sullivan K, Hayes S, **Yu O**, Martin D, Maciejewski M. Footwear used by individuals with diabetes and a history of foot ulcers. *Journal of Rehabilitation Research and Development* 39(5): 615-22 (2002).
9. Reisch LM, Fosse JS, Beverly K, **Yu O**, Barlow WE, Harris E, Rolnick S, Barton MB, Geiger AM, Herrinton LJ, Greene S, Fletcher SW, Elmore JG. Training, quality assurance and assessment of medical record abstraction in a multisite study. *American Journal of Epidemiology* 157(6): 546-51 (2003).
10. Jackson LA, Neuzil KM, **Yu O**, Benson P, Barlow WE, Adams AL, Hanson CA, Mahoney LD, Shay DK, Thompson WW. Effectiveness of pneumococcal polysaccharide vaccine in older adults. *New England Journal of Medicine* 348(18): 1747-55 (2003).
11. Jackson ML, Neuzil KM, Thompson WW, Shay DK, **Yu O**, Hanson CA, Jackson LA. The burden of community-acquired pneumonia in seniors: results of a population-based study. *Clinical Infectious Diseases* 39(11): 1642-50 (2004).
12. Geiger AM, **Yu O**, Herrinton LJ, Barlow WE, Harris EL, Rolnick S, Barton MB, Elmore JG, Fletcher SW. A population-based study of bilateral prophylactic mastectomy efficacy in women at elevated risk for breast cancer in community practices. *Archives of Internal Medicine* 165(5): 516-20 (2005).
13. Jackson LA, Neuzil KM, Whitney CG, Starkovich P, Dunstan M, **Yu O**, Nelson JC, Feikin DR, Shay DK, Baggs J, Carste B, Nahm M, Carlone G. Safety of varying dosages of 7-valent pneumococcal protein conjugate vaccine in seniors previously vaccinated with 23-valent pneumococcal polysaccharide vaccine. *Vaccine* 23(28): 3697-703 (2005).
14. Jumaan AO, **Yu O**, Jackson LA, Bohlke K, Galil K, Seward JF. Incidence of herpes zoster, before and after varicella-vaccination-associated decreases in the incidence of varicella, 1992-2002. *Journal of Infectious Diseases*; 191(12): 2002-7 (2005).
15. Herrinton LJ, Barlow WE, **Yu O**, Geiger AM, Elmore JG, Barton MB, Harris E, Rolnick S, Pardee R, Husson G, Macedo A, Fletcher SW. Efficacy of prophylactic mastectomy in women with unilateral breast cancer. *Journal of Clinical Oncology* 23(19): 4275-86 (2005).
16. Elmore JG, Reisch LM, Barton MB, Barlow WE, Rolnick S, Harris EL, Herrinton LJ, Geiger AM, Kevin B, Hart G, **Yu O**, Greene, SM, Weiss N, Fletcher SW. Efficacy of breast cancer

screening in the community according to risk level. *Journal of National Cancer Institute* 97(14): 1035-43 (2005).

17. Jackson LA, Dunstan M, Starkovich P, Dunn J, **Yu O**, Nelson JC, Rees T, Zavitkovsky A. Prophylaxis with acetaminophen or ibuprofen for prevention of local reactions to the fifth diphtheria-tetanus toxoids-acellular pertussis vaccination. A randomized, controlled trial. *Pediatrics* 117(3): 620-5 (2006).
18. Rutter CM, **Yu O**, Miglioretti D. A hierarchical non-homogenous Poisson model for meta-analysis of adenoma counts. *Statistics in Medicine* 26(1): 98-109 (2007).
19. **Yu O**, Bohlke K, Hanson CA, Delaney K, Rees T, Zavitkovsky A, Ray P, Mullooly J, Black SB, Benson P, Thompson WW, Davis RL, Jackson LA. Hepatitis B vaccine and risk of autoimmune thyroid disease: a Vaccine Safety Datalink study. *Pharmacoepidemiology and Drug Safety* 16(7): 736-45 (2007).
20. Jackson LA, Neuzil KM, Nahm MH, Whitney CG, **Yu O**, Nelson JC, Starkovich PT, Dunstan M, Feikin DR, Carste B, Shay DK, Baggs J, Carlone GM. Immunogenicity of varying dosages of 7-valent pneumococcal polysaccharide-protein conjugate vaccine in seniors previously vaccinated with 23-valent pneumococcal polysaccharide vaccine. *Vaccine* 25(20): 4029-37 (2007).
21. Boudreau DM, **Yu O**, Miglioretti DL, Buist DSM, Heckbert SR, Daling JR. Statin use and breast cancer risk in a large population-based setting. *Cancer Epidemiology, Biomarkers and Prevention* 16(3): 416-21 (2007).
22. Jackson LA, Starkovich P, Dunstan M, **Yu O**, Nelson J, Dunn J, Rees T, Zavitkovsky A, Maus D, Froeschle JE, Decker M. Prospective assessment of the effect of needle length and injection site on the risk of local reactions to the fifth diphtheria-tetanus-acellular pertussis vaccination. *Pediatrics* 121(3): e646-52 (2008).
23. Newton KM, Buist DSM, **Yu O**, Hartsfield CL, Andrade SE, Wei F, Connelly MT, Chan KA. Hormone therapy initiation after the Women's Health Initiative. *Menopause* 15(3):487-93 (2008).
24. Boudreau DM, **Yu O**, Buist DSM, Miglioretti DL. Statin use and prostate cancer risk in a large population-based setting. *Cancer Causes and Control* 19(7): 767-74 (2008).
25. Nelson JC, Jackson M, **Yu O**, Whitney CG, Bounds L, Bittner R, Zavitkovsky A, Jackson LA. Impact of the introduction of pneumococcal conjugate vaccine on rates of community acquired pneumonia in children and adults. *Vaccine* 26(38): 4947-54 (2008).
26. **Yu O**, Boudreau DM, Buist DSM, Miglioretti DL. Statin use and female reproductive organ cancer risk in a large population-based setting. *Cancer Causes and Control* 20(5): 609-616 (2009).
27. Jackson LA, **Yu O**, Belongia EA, Hambidge SJ, Nelson J, Baxter R, Naleway A, Nordin J, Iskander J. Risk of medically attended local reactions following diphtheria toxoid containing

- vaccines in adolescents and young adults: a Vaccine Safety Datalink study. *Vaccine* 27(36): 4912-4916 (2009).
28. Reid RJ, Fishman PA, **Yu O**, Ross TR, Tufano JT, Soman MP, Larson EB. Patient-centered medial home demonstration: a prospective, quasi-experimental, before and after evaluation. *American Journal of Managed Care* 15(9): e71-e87 (2009).
  29. Olson JM, Raugi GJ, Nguyen VQ, **Yu O**, Reiber GE. Guideline concordant venous ulcer care predicts healing in a tertiary care Veterans Affairs Medical Center. *Wound Repair and Regeneration* 17(5): 666-670 (2009).
  30. Jackson LA, **Yu O**, Belongia EA, Hambidge SJ, Nelson J, Baxter R, Naleway A, Gay C, Nordin J, Baggs J, Iskander J. Frequency of medically attended adverse events following tetanus and diphtheria toxoid vaccine in adolescents and young adults: a Vaccine Safety Datalink study. *BMC Infectious Diseases* 9(165) (2009).
  31. Boudreau DM, **Yu O**, Johnson J. Statin use and cancer risk: A comprehensive review. *Expert Opinion on Drug Safety* 9(4): 603-621 (2010).
  32. Jackson LA, **Yu O**, Nelson JC, Dominguez C, Peterson D, Baxter R, Hambidge SJ, Naleway AL, Belongia EA, Nordin JD, Baggs J, for the Vaccine Safety Datalink Team. Injection site and risk of medically attended local reactions to acellular pertussis vaccine. *Pediatrics* 127(3): e581-587 (2011).
  33. Trabert B, Holt VL, **Yu O**, Van Den Eeden SK, Scholes D. Population-based ectopic pregnancy trends, 1993-2007. *American Journal of Preventive Medicine* 40(5): 556-560 (2011). Corrections in 42(1):107-108 (2012).
  34. Jackson LA, Peterson D, Dunn J, Hambidge SJ, Dunstan M, Starkovich P, **Yu O**, Benoit J, Dominguez-Islas CP, Carste B, Benson P, Nelson JC. A randomized placebo-controlled trial of acetaminophen for prevention of post-vaccination fever in infants. *PLoS One* 6(6): e20102 (2011).
  35. **Yu O**, Nelson JC, Bounds L, Jackson LA. Classification algorithms to improve the accuracy of identifying patients hospitalized with community-acquired pneumonia using administrative data. *Epidemiology and Infection* 139(9): 1296-1306 (2011).
  36. Scholes D, **Yu O**, Raebel MA, Trabert B, Holt VL. Improving automated case finding for ectopic pregnancy using a classification algorithm. *Human Reproduction* 26(11): 3163-3168 (2011).
  37. Boudreau DM, **Yu O**, Gray S, Raebel MA, Johnson J, Larson EB. Concomitant use of cholinesterase inhibitors and anticholinergics: prevalence and outcomes. *Journal of the American Geriatrics Society*. 59(11): 2069-2076 (2011).
  38. Scholes D, Raebel M, **Yu O**, Grafton J, Weinstock H, Satterwhile C. HMO Research Network 17<sup>th</sup> annual conference proceedings and abstracts, C-B1-04: Piloting use of the

HMO Research Network virtual data warehouse for pelvic inflammatory disease surveillance and research. *Clinical Medicine and Research*. 9(3-4): 182 (2011).

39. Satterwhite CL, **Yu O**, Raebel MA, Berman SM, Howards PP, Weinstock H, Kleinbaum D, Scholes D. Detection of pelvic inflammatory disease: development of an automated case-finding algorithm using administrative data. *Infectious Diseases in Obstetrics and Gynecology*. Epub ahead of print (2011 November).
40. Scholes D, Satterwhite CL, **Yu O**, Fine D, Weinstock H, Berman S. Long-term trends in *Chlamydia trachomatis* infections and related outcomes in a US managed care population. *Sexually Transmitted Diseases*. 39(2): 81-88 (2012).
41. Nelson JC, Cook AJ, **Yu O**, Dominguez C, Zhao S, Greene SK, Fireman BH, Jacobsen SJ, Weintraub ES, Jackson L. Challenges in the design and analysis of sequentially-monitored postmarket safety surveillance evaluations using electronic observational health care data. *Pharmacoepidemiology and Drug Safety*. 21(S1): 62-71 (2012).
42. Chubak J, **Yu O**, Pocobelli G, Lamerato L, Webster J, Prout MN, Yood MU, Barlow WE, Buist DSM. Algorithms to identify second breast cancer events using administrative data. *Journal of the National Cancer Institute*. 104(12): 931-940 (2012).
43. Bowles EJA, Buist DSM, Chubak J, **Yu O**, Johnson J, Chestnut J, Boudreau DM. Endocrine therapy initiation from 2001 to 2008 varies by age at breast cancer diagnosis and tumor size. *Journal of Oncology Practice*. 8(2): 113-120 (2012).
44. Bowles EJA, Boudreau DM, Chubak J, **Yu O**, Fujii M, Chestnut J, Buist DS. Patient-reported discontinuation of endocrine therapy and related adverse effects among women with early-stage breast cancer. *Journal of Oncology Practice*. 8(6): e149-157 (2012).
45. Boudreau DM, **Yu O**, Spangler L, Do TP, Fujii M, Ott SM, Critchlow CW, Scholes D. Accuracy of ICD-9 codes to identify nonunion and malunion and developing algorithms to improve case-finding of nonunion and malunion. *Bone*. 52(2): 596-601 (2013).
46. Nelson JC, **Yu O**, Dominguez C, Cook AJ, Peterson D, Greene SK, Yih K, Daley MF, Jacobsen SJ, Klein NP, Weintraub ES, Broder KR, Jackson LA. Adapting group sequential methods to observational post-licensure safety surveillance: Results of a pentavalent combination DTaP-IPV-Hib vaccine safety study. *American Journal of Epidemiology*. 177(2): 131-141 (2013).
47. Spangler L, **Yu O**, Loggers E, Boudreau DM. Bone mineral density screening in women with a history of breast cancer treated with aromatase inhibitors. *Journal of Womens Health*. 22(2): 132-140 (2013).
48. Chubak J, **Yu O**, Buist DSM, Wirtz HS, Boudreau DM. Time scale in follow-up studies: considering disease prognosis. *Epidemiology*. 24(4): 628-629 (2013). Erratum in: *Epidemiology* 25(6):939 (2014).

49. Torrone EA, Satterwhite CL, Scholes D, **Yu O**, Berman S, Peterman TA. Estimating chlamydia re-infection rates: an empirical example. *Sexually Transmitted Infections*. 89(5): 388-390 (2013).
50. Wirtz HS, Buist DSM, Gralow JR, Barlow WE, Gray SL, Chubak J, **Yu O**, Bowles EJA, Fujii M, Boudreau DM. Frequent antibiotic use and second breast cancer events. *Cancer Epidemiology, Biomarkers & Prevention*. 22(9):1588-1599 (2013).
51. Jackson ML, **Yu O**, Nelson JC, Naleway A, Belongia EA, Baxter R, Narwaney K, Jacobsen SJ, Shay DK, Jackson LA. Further evidence for bias in observational studies of influenza vaccine effectiveness: the 2009 influenza A (H1N1) pandemic. *American Journal of Epidemiology*. 178(8):1327-1336 (2013).
52. Boudreau DM, **Yu O**, Chubak J, Wirtz HS, Bowles EJA, Fujii M, Buist DSM. Comparative safety of cardiovascular medication use and breast cancer outcomes among women with early stage breast cancer. *Breast Cancer Research and Treatment*. 144(2):405-16 (2014).
53. Nelson JC, Shortreed SM, **Yu O**, Peterson D, Baxter R, Fireman B, Lewis N, McClure D, Weintraub E, Xu S, Jackson LA and on behalf of the Vaccine Safety Datalink project. Integrating database knowledge and epidemiological design to improve the implementation of data mining methods that evaluate vaccine safety in large healthcare databases. *Statistical Analysis and Data Mining*. 7(5): 337–351 (2014).
54. Gray SL, Anderson ML, Dublin S, Hanlon JT, Hubbard R, Walker R, **Yu O**, Crane PK, Larson EB. Cumulative use of strong anticholinergics and incident dementia. *JAMA Internal Medicine*. 175(3): 401-407 (2015).
55. Nelson JC, Cook AJ, **Yu O**, Zhao S, Jackson LA, Psaty BM. Methods for observational post-licensure medical product safety surveillance. *Statistical Methods in Medical Research*. 24(2): 177-193 (2015).
56. Calip GS, **Yu O**, Hoskins KF, Boudreau DM. Association between diabetes medication use and risk of second breast cancer events and mortality. *Cancer Causes Control*. 26(8): 1065-1077 (2015).
57. 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. *Journal of the American Geriatrics Society*, 63(8): 1519-1526 (2015).
58. Bowles EJA, 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. *Journal of the American Geriatrics Society*, in press (2015).

**Submitted:**

1. Gray SL, Dublin S, **Yu O**, Walker R, Anderson M, Hubbard R, Crane P, Larson EB. Benzodiazepine use and incident dementia or cognitive decline. Submitted to *BMJ*.

2. Chubak J, Bowles EA, **Yu O**, Buist DSM, Wirtz H, Fujii M, Boudreau DM. Breast cancer recurrence in relation to antidepressants use. Submitted to *Breast Cancer Research and Treatment*.
3. Calip GS, **Yu O**, Elmore JG, Boudreau DM. Comparative safety of diabetes medications and risk of breast cancer: a population-based cohort study of women with diabetes. Submitted to *Diabetes Care*.

#### **ABSTRACTS & PRESENTATIONS (\* Presenter):**

1. **Yu O\***, Sheppard L, Lumley T, Koenig JQ, Shapiro GG. Effects of ambient carbon monoxide and atmospheric particles on asthma symptoms: results from the camp air pollution ancillary study. Platform and poster presentations at *PM2000: Particulate Matter and Health – The Scientific Basis for Regulatory Decision Making*, Charleston, South Carolina, January 25-28, 2000.
2. Jackson LA, Chen RT, Austin G, Stout R, Gorse GJ, Weniger B, **Yu O**, DeStefano F, and the Vaccine Safety Datalink Study Group. Safety, tolerability, and immunogenicity of varying doses of influenza vaccine administered by jet injector (JI) vs. needle and syringe (N&S). Slide presentation at *the Annual Conference on Vaccine Research*, Washington DC, April 30-May 2, 2000.
3. **Yu O\***, Heffelfinger J, Heckbert SR, Psaty BM, Malais D, Barlow WE, Jackson LA and the Vaccine Safety Datalink Study Group. Association between influenza vaccination and risk of incident myocardial infarction or recurrent cardiac events. Poster presentation at *the Annual Meeting of the Infectious Diseases Society of America*, San Francisco, California, October 25-28, 2001.
4. Reiber GE, Smith DG, Wallace C, Sullivan K, Hayes S, Vath C, Maciejewski ML, **Yu O**, Heagerty PJ, LeMaster J. Clinical trial of footwear in patients with diabetes. Poster presentation at *the National Rehabilitation Research and Development Conference*, Arlington, Virginia, February 10-12, 2002.
5. Jackson LA, Neuzil KM, Adams AL, **Yu O**, Hanson C, Mahoney L, Benson P, Barlow WE, Shay DK, Thompson WW and the Vaccine Safety Datalink Study Group. Does the 23-valent pneumococcal polysaccharide vaccine prevent hospitalizations for pneumonia in the elderly? Oral presentation at *the International Symposium on Pneumococci and Pneumococcal Diseases*, Anchorage, Alaska, May 5-9, 2002.
6. Jackson LA, Neuzil KM, Adams AL, **Yu O**, Hanson C, Mahoney L, Benson P, Barlow WE, Shay DK, Thompson WW and the Vaccine Safety Datalink Study Group. Effectiveness of pneumococcal polysaccharide vaccine (PPV) in the elderly. Poster presentation at *the Interscience Conference on Antimicrobial Agents and Chemotherapy*, San Diego, California, September 27-30, 2002.
7. Jumaan AOA, **Yu O**, Bohlke K, Jackson, LA, Galil K, Seward J. Varicella and herpes zoster incidence before and after varicella vaccine licensure, 1992-2001. Oral presentation at *the*



*Interscience Conference on Antimicrobial Agents and Chemotherapy*, Chicago, Illinois, September 14-17, 2003.

8. Jackson M, **Yu O**, Neuzil K, Thompson W, Shay D, Scott T, Jackson L. Epidemiology of community-acquired pneumonia in a highly vaccinated population of older adults. Poster presentation at *the Annual Meeting of the Infectious Diseases Society of America*, San Diego, California, October 9-12, 2003.
9. Jackson LA, Neuzil K, Whitney C, Feikin D, Nelson J, **Yu O**, Starkovich P, Dunstan M, Carste B, Shay D, Baggs J, Carlone G, Nahm M. Safety of varying dosages of 7-valent pneumococcal conjugate vaccine in adults 70-79 years of age. Poster presentation at *the International Symposium on Pneumococci and Pneumococcal Diseases*, Helsinki, Finland, May 9-13, 2004.
10. Geiger AM, Barton MB, **Yu O**, Herrinton LJ, Barlow WE, Harris EL, Elmore JG, Rolnick S, Fletcher SW. Efficacy of bilateral prophylactic mastectomy in women at moderate risk for breast cancer. Poster presentation at *the Society for General Internal Medicine Annual Meeting*, Chicago, Illinois, May 12-15, 2004.
11. Herrinton LJ, Barlow WE, **Yu O**. Efficacy of prophylactic mastectomy in women with unilateral breast cancer. Poster presentation at *the Annual Meeting of the Society for Epidemiology Research*, Salt Lake City, Utah, June 15-18, 2004.
12. Geiger AM, **Yu O**, Herrinton LJ, Barlow WE. A case-cohort study of bilateral prophylactic mastectomy efficacy in community practices. Poster presentation at *the Annual Meeting of the Society for Epidemiology Research*, Salt Lake City, Utah, June 15-18, 2004.
13. **Yu O\***, Rutter CM, Miglioretti D, Mandelson M. Estimating adenoma risk for micro-simulation modeling. Oral presentation at *the Joint Statistical Meetings*, Toronto, Canada, August 8-12, 2004.
14. Jackson M, Nelson J, Whitney C, **Yu O**, Scott T, Zavitkovsky A, Jackson L. Feasibility of population-based surveillance for outpatient pneumonia using electronically available dictated chest radiograph reports. Poster presentation at *the Annual Meeting of the Infectious Diseases Society of America*, Boston, Massachusetts, September 30-October 3, 2004.
15. **Yu O\***, Bohlke K, Hanson C, Delaney K, Rees T, Zavitkovsky A, Ray P, Mullooly J, Benson P, Jackson L, Thompson W. Hepatitis B vaccination and risk of autoimmune thyroid disease. Poster presentation at *the Annual Meeting of the Infectious Diseases Society of America*, San Francisco, California, October 6-9, 2005.
16. Jackson LA, Dunstan M, Starkovich P, Dunn J, **Yu O**, Nelson JC, Rees T, Zavitkovsky A. A randomized, controlled trial of prophylaxis with acetaminophen or ibuprofen prior to the fifth DTaP vaccination. Poster presentation at *the Annual Meeting of the Infectious Diseases Society of America*, San Francisco, California, October 6-9, 2005.
17. Jackson L, Starkovich P, Dunstan M, **Yu O**, Nelson JC, Dunn J, Rees T, Zavitkovsky A, Maus D, Froeschle J, Decker M. Risk of injection site reactions following the fifth DTaP

vaccination. Poster presentation at *the Annual Meeting of the Infectious Diseases Society of America*, San Francisco, California, October 6-9, 2005.

18. Nelson JC, Whitney CG, **Yu O**, Jackson ML, Scott T, Bounds L, Zavitkovsky A, Jackson LA. Impact of the introduction of pneumococcal conjugate vaccine on rates of community acquired pneumonia. Oral presentation at *the International Symposium on Pneumococci and Pneumococcal Diseases*, Alice Springs, Australia, April 2-6, 2006.
19. Fishman PA, Boudreau DM, Hill A, **Yu O**. The economic impact of managed care enrollees with cardio-metabolic syndrome. Paper presented at *the American Managed Care Pharmacy Annual Meeting*, Seattle, Washington, April 5-8, 2006.
20. Newton KM, Buist DSM, **Yu O**, Hartsfield CL, Andrade SE, Wei F, Connelly MT, Chan KA. Hormone therapy re-initiation and first-time initiation by type, dose and route, after the Women's Health Initiative. Oral presentation at *the European Congress on Menopause*, Istanbul, Turkey, June 4, 2006.
21. Boudreau D, **Yu O**, Miglioretti D, Buist D. Statins and breast cancer risk: is there an association? Oral presentation at *the North American Congress of Epidemiology*, Seattle, Washington, June 21-24, 2006.
22. Buist DSM, Newton KM, **Yu O**, Hartsfield CL, Andrade SE, Wei F, Connelly MT, Chan KA. Hormone therapy re-initiation and first-time initiation by type, dose and route, after the Women's Health Initiative. Oral presentation at *the International Conference on Pharmacoepidemiology & Therapeutic Risk Management*, Lisbon, Portugal, August 24-27, 2006.
23. **Yu O\***, Kovich H, Nelson J, Jackson, LA. Using CART analysis to improve the classification of ICD9-coded pneumonia hospitalizations. Poster presentation at *the International Symposium on Pneumococci & Pneumococcal Diseases*, Reykjavik, Iceland, June 8-12, 2008.
24. **Yu O\***, Jackson L, for the Vaccine Safety Datalink investigators. Risk of medically-attended local reactions following Td, Tdap and Menactra vaccines in adolescents and young adults. Poster presentation at *the Interscience Conference on Antimicrobial Agents and Chemotherapy*, Washington, DC, October 25-28, 2008.
25. **Yu O**, Grafton J, Holt V, Trabert B, Wehnes L, Yarbro P, Scholes D. From chart to CART: Improving automated case-finding for ectopic pregnancy using CART analysis. Oral presentation at *the Annual HMO Research Network Conference*, Danville, PA, April 26-29, 2009.
26. Ross TR, Reid RJ, Fishman P, **Yu O**, Tufano JT, Larson EB. Patient and clinician experience in a patient-centered medical home demonstration. Oral presentation at *the Annual HMO Research Network Conference*, Danville, PA, April 26-29, 2009.
27. Trabert BL, Holt VL, **Yu O**, Grafton J, Yarbro P, Wehnes L, Scholes D. Ectopic pregnancy trends in a large U.S. health maintenance organization – 1993-2007. Poster presentation at

*the Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research (SPER)*, Anaheim, CA, June 22-23, 2009.

28. Scholes D, **Yu O**, Satterwhite CL, Weinstock H, Grafton J, Wehnes L, Berman S. From chart to CART: improving automated case-finding for pelvic inflammatory disease using CART analysis. Oral presentation at the *National STD Prevention Conference*, Atlanta, GA, March 8-11, 2010.
29. Torrone E, Satterwhite C, Peterman TA, Scholes D, **Yu O**, Berman S. A closer look at Chlamydia re-infection rates: denominators are important. Oral presentation at *the National STD Prevention Conference*, Atlanta, GA, March 8-11, 2010.
30. Boudreau D, **Yu O**, Gray S, Raebel M, Larson E. Concomitant use of cholinesterase inhibitors and anticholinergics. Oral presentation at *the Annual HMO Research Network Conference*, Austin, TX, March 21–24, 2010.
31. Nelson JC, Cook AJ, Zhao S, **Yu O**, Jackson LA. Challenges in designing a sequentially-monitored observational study of post-licensure vaccine safety. Oral presentation at *the Western North American Region of the International Biometric Society Annual Meeting*, Seattle, WA, June 20-23, 2010.
32. Bowles EJA, Buist DSM, Chubak J, **Yu O**, Boudreau DM. Uptake of tamoxifen and aromatase inhibitors among women with early stage, invasive breast cancer in a community setting, 2001-2008. Poster presentation at *the American Society of Preventive Oncology Annual Meeting*, Las Vegas, NV, March 5-8, 2011.
33. Scholes D, Raebel M, **Yu O**, Grafton J, Weinstock H, Satterwhite C. Piloting use of the HMO VDW for pelvic inflammatory disease surveillance. Oral presentation at *the HMO Research Network Conference*, Boston, MA, March 23-25, 2011.
34. Boudreau D, **Yu O**, Gray S, Raebel M, Larson E. Concomitant use of cholinesterase inhibitors and anticholinergics. Oral presentation at *the HMO Research Network Conference*, Boston, MA, March 23-25, 2011.
35. Boudreau DM, **Yu O**, Gray SL, Raebel MA, Johnson J, Larson EB. Concomitant use of cholinesterase inhibitors and anticholinergics: prevalence and outcomes. Poster presentation at *the International Conference on Pharmacoepidemiology & Therapeutic Risk Management*, Chicago, IL, August 14-17, 2011.
36. Boudreau D, **Yu O**, Spangler L, Do T, Fujii M, Ott S, Critchlow C, Scholes D. Accuracy of ICD-9 codes to identify malunion and nonunion & developing an algorithm to improve automated case-finding of nonunion and malunion. Poster presentation at *the Annual meeting of the American Society for Bone and Mineral Research*, San Diego, CA, September 16-20, 2011.
37. Nelson JC, **Yu O\***, Dominguez C, Cook AJ, Peterson D, Greene SK, Yih K, Daley MF, Jacobsen SJ, Klein NP, Jackson LA. Adapting group sequential methods to observational post-licensure safety surveillance: Results of a combination DTaP-IPV-Hib vaccine safety

- study. Oral presentation at *the Annual Vaccine and ISV Annual Global Congress*, Seattle, WA, October 2-4, 2011.
38. **Yu O\***. Results of a combination DTaP-IPV-Hib vaccine safety study in the VSD. Oral presentation at *the International Workshop on Pharmacoepidemiology and Biostatistics*, Seattle, WA, December 2, 2011.
  39. **Yu O\***. Algorithms to identify second breast cancer events using administrative healthcare data. Oral presentation at *the Salford Analytics and Data Mining Conference*, San Diego, CA, May 24-25, 2012.
  40. Chubak J, **Yu O**, Pocobelli G, Lamerato L, Webster J, Prout MN, Ulcickas Yood M, Barlow WE, Buist DSM. Algorithms to identify second breast cancer events using administrative data. Oral presentation at *the Society for Epidemiologic Research Annual Meeting*, Minneapolis, MN, June 27-30, 2012.
  41. Shortreed S, Nelson J, **Yu O**, Peterson D. Assessing the feasibility of implementing data mining for post-licensure vaccine safety surveillance within the Vaccine Safety Datalink. Oral presentation at *the Joint Statistical Meetings*, San Diego, CA, July 28-August 2, 2012.
  42. Nelson JC, Zhao S, Cook A, **Yu O**, Jackson L. Performance of group sequential methods for active post-licensure medical product safety surveillance using observational health care databases. Poster presentation at *the International Conference on Pharmacoepidemiology & Therapeutic Risk Management (ICPE)*, Barcelona, Spain, August 23-26, 2012.
  43. Boudreau DM, **Yu O**, Chubak J, Bowles E, Wirtz HS, Fujii M, Buist DSM. Comparative safety of cardiovascular medication use and breast cancer outcomes. Oral presentation at *the International Conference on Pharmacoepidemiology & Therapeutic Management*, Montreal, Canada, August 25-28, 2013.
  44. Dublin S, Walker RL, Gray SL, Hubbard R, Anderson ML, **Yu O**, Crane PK, Larson EB. Use of opioids and risk of dementia in older adults. Oral presentation at *the International Conference on Pharmacoepidemiology & Therapeutic Management*, Montreal, Canada, August 25-28, 2013.
  45. Wirtz HS, Buist DSM, Gralow JR, Barlow WE, Gray S, Chubak J, **Yu O**, Bowles E, Fujii M, Boudreau DM. Frequent antibiotic use and risk of second breast cancer events. Oral presentation at *the International Conference on Pharmacoepidemiology & Therapeutic Management*, Montreal, Canada, August 25-28, 2013.
  46. Dublin S, Walker RL, Gray SL, Hubbard RA, Anderson ML, **Yu O**, Crane PK, Larson EB. Use of opioids and risk of dementia in older adults. Poster presentation at *the HMO Research Network Conference*, Phoenix, AZ, April 1-3, 2014.
  47. Dublin S, **Yu O**, Gray SL, Walker RL, Anderson ML, Hubbard RA, Crane PK, Larson EB. Benzodiazepine use and incident dementia. Oral presentation at *the HMO Research Network Conference*, Phoenix, AZ, April 1-3, 2014.

48. Gray SL, Anderson ML, Dublin S, Hanlon J, **Yu O**, Walker RL, Hubbard R, Crane PK, Larson EB. Anticholinergic medication use and incident dementia. Presentation at *the Annual Scientific Meeting of the American Geriatrics Society*, Orlando, FL, May 15-17, 2014. *Journal of American Geriatric Society*; 62(Supp. 1): S11 (2014).
49. Chubak J, Bowles EA, **Yu O**, Buist DSM, Wirtz H, Fujii M, Boudreau DM. Breast cancer recurrence in relation to antidepressant use in women with early stage breast cancer. Oral presentation at *the Annual Meeting of the Society for Epidemiologic Research*. Seattle, WA, June 24-27, 2014.
50. Denise B, **Yu O**, Chubak J, Bowles E, Wirtz H, Fujii M, Buist D. Breast cancer outcomes by diabetes status and diabetes medication use. Oral presentation at *the Annual Meeting of the Society for Epidemiologic Research*. Seattle, WA, June 24-27, 2014.
51. Gray SL, Dublin S, Anderson M, **Yu O**, Walker R, Hubbard RA, Crane PK, Larson EB. Use of automated pharmacy data to examine cumulative medication exposures and dementia: the Adult Changes in Thought Study (ACT). Oral presentation at *the Alzheimer's Association International Conference*. Copenhagen, Denmark, July 12-17 2014.
52. Scholes D, Balasubramanian A, Malley CO, Saint-Johnson J, Grafton J, **Yu O**, Boudreau D. Factors associated with non-receipt of osteoporosis therapy following an osteoporotic fracture. Poster presentation at *the American Society for Bone and Mineral Research Annual Meeting*, Houston, Texas, September 12-15, 2014.
53. Boudreau DM, **Yu O**, Elmore JG. Diabetes medications and risk of incident breast cancer. Poster presentation at *the San Antonio Breast Cancer Symposium*. San Antonio, TX. December 9-13, 2014.
54. Grafton G, Johnson R, Boudreau D, Saint-Johnson J, **Yu O**, Scholes D. Bridging the gap: evaluating osteoporosis therapy medication orders vs pharmacotherapy prescription fills following an osteoporotic fracture. Poster presentation at *the HMO Research Network Conference*. Long Beach, CA, March 11-15, 2015.
55. Gray SL, Anderson ML, Dublin S, Hanlon JT, Hubbard R, Walker RL, **Yu O**, Crane P, Larson EB. Cumulative use of strong anticholinergic medications and incident dementia. Oral presentation at *the International Conference on Pharmacoepidemiology and Therapeutic Risk Management*. Boston, MA, August 22-26, 2015.
56. Bowles EJA, 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. Poster presentation at *the International Conference on Pharmacoepidemiology and Therapeutic Risk Management*. Boston, MA, August 22-26, 2015.
57. Boudreau DM, **Yu O**, Balasubramanian A, Grafton J, Saint-Johnson J, Wirtz H, Grauer A, Crittenden DB, Scholes D. Awareness and reasons for lack of post-fracture osteoporosis therapy: a survey of post-menopausal women. Poster at *the American Society for Bone and Mineral Research Annual Meeting*. Seattle, WA, October 9-12, 2015.

## **TEACHING EXPERIENCE:**

Invited lecturer, Topics in Epidemiologic Methods, Spring 2000, University of Washington.  
Topic: "Introduction to CART (Classification and Regression Tree)".

Lecturer, "Basic Biostatistics" in Epidemiology 101 courses, November 2007, Group Health Center for Health Studies.

Co-organizer and lecturer (for journal club), Epidemiology 101 courses, September-November 2015, Group Health Research Institute.

## **PROFESSIONAL MEMBERSHIP:**

2003 – present            American Statistical Association

## **SERVICE:**

2003                    Member, Search Committee for Biostatistician  
2009                    Member, Search Committee for 3 Biostatisticians  
2010                    Reviewer, *Pharmacoepidemiology and Drug Safety* (selected as one of the best reviews in 2010 by journal editors)  
2011                    Reviewer, *Epidemiology and Infection*  
2012                    Reviewer, *British Journal of Cancer*  
                            Reviewer, *BMC Cancer*  
2013                    Reviewer, *BMC Cancer*  
                            Reviewer, *Vaccine*  
2014                    Reviewer, *BMC Gastroenterology*  
                            Supervisor (for 2 biostatisticians)  
2015                    Reviewer, *BMC Cancer*  
                            Supervisor (for 2 biostatisticians)  
                            Co-organizer of Epidemiology 101 courses at Group Health Research Institute

## **COMPUTING SKILLS:**

Statistical Package:    SAS, Stata, R, S-Plus, SPSS, CART, Epicure, Egret Siz, nQuery Advisor

## **CONTINUING EDUCATION COURSES:**

1. Data Mining with Decision Trees: An Introduction to CART, San Diego, California, February 3-4, 2000.
2. NetCourse 151 - An Introduction to Stata Programming, September 15, 2000 – October 27, 2000.

3. Analysis of Longitudinal Data & Analysis of Multivariate Failure Time Data, *Second Seattle Symposium in Biostatistics: Analysis of Correlated Data*, Seattle, Washington, November 20-21, 2000.
4. Bootstrap Methods – A Guide for Practitioners, *American Statistical Association*, Seattle, Washington, May 29, 2001.
5. Introduction to Bayesian Statistical Methods, Center for Health Studies, October – December 2002.
6. Treatment of Missing Data via Multiple Imputation and Maximum Likelihood, Seattle, Washington, June 2-3, 2003.
7. *Fifth Annual Seattle Epidemiology & Biostatistics Summer Session*, Seattle, Washington, June 23-27, 2003. Courses taken included clinical trial (WHI) experience, pharmacoepidemiology, and cancer epidemiology.
8. *Sixth Annual Seattle Epidemiology & Biostatistics Summer Session*, Seattle, Washington, June 21-25, 2004. Courses taken included medical diagnostic testing, statistical methods in genetic epidemiology, and advanced epidemiologic methods.
9. NetCourse 152 - Advanced Stata programming, June 10 – July 29, 2005.
10. Multiple comparison and multiple testing, *2006 Joint Statistical Meeting*, Seattle, Washington, August 6-10, 2006.
11. *Second Summer Institute in Statistics and Modeling in Infectious Diseases*, Seattle, Washington, June 14-30, 2010. Courses taken included causal inference, and evaluating immunological correlates of protection.
12. Statistical design of sequential clinical trials in R, *Fourth Seattle Symposium in Biostatistics: Clinical Trials*, Seattle, Washington, November 20, 2010.
13. Advanced CART® and Hybrid Modeling, *Salford Analytics and Data Mining Conference*, San Diego, California, May 21, 2012.
14. *2015 Joint Statistical Meeting*, Seattle, Washington, August 10-13, 2015. Courses taken included state-of-the-art methods to estimate propensity score and inverse probability of treatment weights, introduction to structural equation modeling, data mining analysis, and evolution of classification.