CURRICULUM VITAE
Jennifer Clark Nelson

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1. Biographical Information

Jennifer Clark Nelson, PhD
Director of Biostatistics and Senior Investigator
Biostatistics Division, Kaiser Permanente Washington Health Research Institute
(formerly Group Health Research Institute)
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2. Education

B.A. (*summa cum laude*), Mathematics and Accounting, Luther College, Decorah, IA, 1994
M.S., Biostatistics, University of Washington, Seattle, WA, 1996
Ph.D., Biostatistics, University of Washington, Seattle, WA, 1999 (<u>Advisor</u>: Dr. Margaret Pepe)

3. Licensure (not applicable)

4. Professional Positions

1999-2003	Research Scientist & Deputy Director, Multi-Ethnic Study of Atherosclerosis Department of Biostatistics, University of Washington, Seattle, WA
2003-present	Scientific Investigator (Assistant 2003-2009, Associate 2009-2014, Full 2014+) Kaiser Permanente Washington Health Research Institute, Seattle, WA
2004-present	Affiliate Professor (Assistant 2004-2010, Associate 2011-2015, Full 2016+), Department of Biostatistics, University of Washington, Seattle, WA
2014-present	Director of Biostatistics, Kaiser Permanente Washington Health Research Institute, Seattle, WA

5. Honors, Awards, and Scholarships

1993-1994	CoSIDA GTE Academic All-American (Volleyball), Luther College, Decorah, IA
1994	National Collegiate Athletic Association (NCAA) Postgraduate Scholar, Luther College, Decorah, IA
1994	Pi Mu Epsilon National Mathematics Honor Society, Luther College, Decorah IA
1994	Phi Beta Kappa National Honor Society, Luther College, Decorah, IA
1994-1996	Achievement Rewards for College Scientists (ARCS) Fellowship, University of Washington, Seattle, WA
1994-1999	National Institutes of Health Predoctoral Trainee in Cardiovascular Research, Department of Biostatistics, University of Washington, Seattle, WA
1999	Outstanding Student Award, Department of Biostatistics, University of Washington, Seattle, WA
2009	Margarette Kolczak Award for outstanding contributions in vaccine statistics, Centers for Disease Control & Prevention (CDC), Atlanta, GA

2012	Best poster, Databases Special Interest Group, International Conference on Pharmacoepidemiology, Barcelona, Spain
2013	Paper selected among the 2013 Articles of the Year, *American Journal of Epidemiology* and the Society for Epidemiologic Research
2015	Best reviewer award, *Pharmacoepidemiology and Drug Safety*
2019	Distinguished Alumni Service Award, Luther College, Decorah, IA
2020	Fellow, American Statistical Association (ASA)

6. Other Professional Activities

Statistical Consultancies

1995	Cancer Center, University of Washington Medical Center, Seattle, WA
2003-2004	Department Family and Child Nursing, University of Washington, Seattle, WA
2003-2006	Divisions of Epidemiology and Medicine, Columbia University, New York, NY
2009	Global Clinical Safety & Pharmacovigilance, GlaxoSmithKline, Research Triangle Park, NC

Memberships

1999-present	Member, The American Statistical Association (ASA)
1999-present	Member, The International Biometric Society (WNAR)
2003-present	Member, Methodology Committee, Vaccine Safety Datalink collaboration, Centers for Disease Control and Prevention (CDC)
2005-2007	Member, Executive Committee, ASA's Section in Epidemiology
2004-2007 & 2018-2024	Member, Affiliate Faculty Appointments Committee, Department of Biostatistics University of Washington, Seattle WA
2006-2018	Member, Vaccine Safety Datalink Annual Meeting Planning Committee
2007-2008 & 2012-2013	Member, Scientific Policy Committee, Group Health Research Institute, Seattle WA
2008 & 2011	Member, Strategic Plan Committee, Group Health Research Institute, Seattle WA
2009-2012	Member, International Biometric Society Regional Advisory Board (WNAR)
2010-2014	Invited member, Vaccines Subcommittee, International Society for Clinical Biostatistics (ISCB)
2013-2016	Invited member, Methods Scientific Advisory Committee, Reagan-Udall Foundation's Innovation in Medical Evidence Development and Surveillance (IMEDS) Program for the Food and Drug Administration (FDA)
2017	Invited participant, Roundtable on "Integrating patient-reported health data and electronic health records data for pragmatic health research," Hosted by Duke Clinical Research Institute and the NIH, September 14, Bethesda MD
2018	Invited panelist, Improving the efficiency of outcome validation in the Sentinel System, Duke-Margolis Center for Health Policy, Washington DC, May 17, 2018
2018	Invited panelist, Signal Detection Capabilities in the Sentinel System, Duke-Margolis Center for Health Policy, Bethesda MD, December 3, 2018
2018-2021	Invited member, Data Monitoring Committee, HEPLISAV-B Vaccine Post Marketing Surveillance Study, Southern California Permanente Medical Group
2019-2020	Invited member, Strategic Plan Steering Committee, School of Public Health, University of Washington, Seattle WA
2019-2025	Executive Committee, FDA Sentinel Initiative Innovation Center
2019-2021	Invited member, Advisory Board, Sentinel Site Readiness for Maternal Immunization Active Safety Surveillance in Low & Middle Income Countries, The

Bill & Melinda Gates Foundation, Seattle WA

2020-2022	Council of Sections Representative, ASA Section on Statistics in Epidemiology
2020-4/2021	Invited member, mRNA-1273 (COVID-19 vaccine candidate) External Safety Advisory Board, Moderna's COVID-19 vaccine program
5/2021-2023	Invited member, Advisory Committee on Immunization Practices (ACIP) COVID-19 Vaccine Safety Technical (VaST) Subgroup, CDC, Atlanta GA
2021-2023	Member, International Biometric Society Regional Advisory Board (WNAR)
2022	Invited member, ASA Council of Sections Governing Board Nominations Committee
2023-2025	Invited member, Advisory Committee on Immunization Practices (ACIP) COVID-19 Vaccines Working group, CDC, Atlanta GA
2023-2024	Member, Steering Committee for the 7th Seattle Symposium in Biostatistics, University of Washington, Seattle WA

Leadership

1999-2003	Chair, Quality Control Committee, Multi-Ethnic Study of Atherosclerosis, NHLBI
2006-2007	Chair, Affiliate Faculty Appointments Committee, Department of Biostatistics, University of Washington, Seattle WA
2006-2008	Program Chair, Joint Statistical Meetings, ASA's Section in Epidemiology (chair-elect 2006, chair 2007, past chair 2008)
2008-2014 & 2023-present	Chair, Methodology Committee, CDC's Vaccine Safety Datalink collaboration
2009-2019	Co-Lead, Methods Core, FDA's Sentinel Initiative Coordinating Center
2011-2013	Secretary, Vaccines Subcommittee, ISCB
2011	Co-Organizer, Vaccines Mini-Symposium at 32nd ISCB, Ottawa, Canada
2012	Co-Organizer, Vaccines Mini-Symposium at 33rd ISCB, Bergen, Norway
2013	Co-Organizer, Vaccines Mini-Symposium at 34th ISCB, Munich, Germany
2013-2014	Co-Chair, Vaccines Subcommittee, ISCB
2014	Co-Founder & Moderator, 1st Seattle Symposium on Health Care Data Analytics: Confronting statistical challenges of using electronic health record data to conduct health research, September 28-30, Seattle WA
2015	Invited Moderator, America's Health Insurance Plans (AHIP) Roundtable: From Personalized Medicine to Population Health – Maximizing the Value of Data, December 3, Washington D.C.
2016	Co-Organizer, 2nd Seattle Symposium on Health Care Data Analytics: Learning from electronic data to advance health & health care, October 23-25, Seattle WA.
2016	Organizer, WNAR-invited session on "Statistical methods to improve drug and vaccine safety surveillance using big health care data," XXVIIIth International Biometric Conference (IBC), July 10-15, Victoria B.C.
2018	Organizer, Invited session on "Improving the use of propensity score methods in large health care databases with rare outcomes," ASA's International Conference on Health Policy Statistics, January 10-12, Charleston SC
2018	Mentor, ASA's Statistics in Epidemiology Section Mentoring Program
2018-present	Associate Editor, *Vaccine*

Journal referee

Journal of Computational and Graphical Statistics, Statistics in Medicine, American Journal of Epidemiology, Epidemiology, Journal of Clinical Epidemiology, Pharmacoepidemiology and Drug

Safety, Circulation, Vaccine, American Journal of Preventive Medicine, Journal of Infectious Diseases, Archives of Pediatrics & Adolescent Medicine, BMC Medical Research Methodology

<u>Ad hoc reviewer</u>

2014	Meeting abstracts, International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE)
2012	Analysis plan, Developing and evaluating methods for record linkage and reducing bias in patient registries, Agency for Healthcare Research and Quality
2017	Methodological report, Causal Inference for Effectiveness Research in Using Secondary Data, Patient Centered Outcomes Research Institute (PCORI)
2017	Short course proposal, Statistical Analysis of Large Administrative Health Databases, Banff International Research Station (BIRS)

7. Bibliography

*Denotes mentored work of student

a) Peer-reviewed research articles

1. McBride CM, Curry SJ, Grothaus LC, **Nelson JC**, Lando HL and Pirie PL. Partner smoking status and pregnant smoker's perceptions of support for and likelihood of smoking cessation. *Health Psychol*. 1998;17:63-69.

2. Hellerstedt WL, Pirie PL, Lando HL, Curry SJ, McBride CM, Grothaus LC, and **Nelson JC.** Differences in preconceptional and prenatal behaviors in women with intended and unintended pregnancies. *Am J Public Health*. 1998;88(4):663-666.

3. McBride CM, Curry SJ, Lando HL, Pirie PL, Grothaus LC, and **Nelson JC.** Prevention of relapse in women who quit smoking during pregnancy. *Am J Pub Hlth*. 1999;89(5):706-711.

4. Ludman EJ, McBride CM, **Nelson JC**, Curry SJ, Grothaus LC, Lando HL, and Pirie PL. Stress, depressive symptoms, and smoking cessation among pregnant women. *Health Psychol*. 2000;19(1):21-27.

5. **Nelson JC,** Pepe MS. Statistical description of interrater variability in ordinal ratings. *Stat Methods Med Res*. 2000;9(5):475-496.

6. Rautaharju PM, **Nelson JC**, Kronmal RA, Zhang Z, Robbins J, Gottdiener J, Furberg CD, Manolio T, and Fried L. Usefulness of T-axis deviation as an independent risk indicator for incident cardiac events in older men and women free from coronary heart disease (the Cardiovascular Health Study). *Am J Cardiol*. 2001;88(2):118-123.

7. Yanez ND III, Kronmal RA, **Nelson JC**, Alonzo TA. Analyzing change in clinical trials using quasi-likelihood. *J Applied Stat*. 2002;29(8):1135-1145.

8. Bild DE, Bluemke DA, Burke GL, Detrano R, Diez Roux AV, Folsom AR, Greenland P, Jacobs Jr. DR, Kronmal RA, Liu K, **Nelson JC**, O'leary D, Saad MF, Shea S, Szklo M, Tracy RP. The Multi-Ethnic Study of Atherosclerosis (MESA): Objectives and Design. *Am J Epidemiol*. 2002;156(9):871-881.

9. Robbins J, **Nelson JC**, Rautaharju PM, and Gottdiener J. The association between the length of the QT interval and mortality in the Cardiovascular Health Study. *Am J Med*. 2003;115(9):689–694.

10. Carr JJ, **Nelson JC**, Wong ND, MCNitt-Gray M, Arad Y, Jacobs DR Jr, Sidney S, Bild DE, Williams OD, Detrano RC. Calcified coronary artery plaque measurement with cardiac CT in population-based studies: standardized protocol of the Multi-Ethnic Study of Atherosclerosis (MESA) and Coronary Artery Risk Development in Young Adults (CARDIA). *Radiology*. 2005;234(1):35-43.

11. **Nelson JC**, Kronmal RA, Carr JJ, McNitt-Gray MF, Wong ND, Loria C, Goldin JG, Williams OD, Detrano R. Measuring coronary calcium on CT images adjusted for attenuation differences. *Radiology*. 2005; 235(2): 403-414.

12. Lydon-Rochelle MT, Holt VL, Cardenas V, **Nelson JC**, Easterling TR, Gardella C, Callaghan WM. The reporting of pre-existing maternal medical conditions and complications of pregnancy on birth certificates and in hospital discharge data. *Am J Obstet Gynecol*. 2005;193(1):125-134.

13. Jackson LA, Neuzil KM, Whitney CG, Starkovich P, Dunstan M, Yu O, **Nelson JC**, Feikin DR, Shay DK, Baggs J, Carste B, Nahm MH, Carlone G. Safety of varying dosages of 7-valent pneumococcal protein conjugate vaccine in seniors previously vaccinated with 23-valent pneumococcal polysaccharide vaccine. *Vaccine*. 2005;23(28):3697–3703.

14. Detrano RC, Anderson M, **Nelson JC**, Wong ND, Carr JJ, McNitt-Gray M, Bild DE. Coronary calcium measurements: effect of CT scanner type and calcium measure on rescan reproducibility--MESA study. *Radiology*. 2005;236: 477-484.

15. Lydon-Rochelle MT, Cardenas V, **Nelson JC**, Tomashek KM, Mueller BA, Easterling TR. Validity of maternal and perinatal risk factors reported on fetal death certificates. *Am J Public Health*. 2005;95(11):1948-1951

16. Lydon-Rochelle MT, Holt VL, **Nelson JC**, Cardenas V, Gardella C, Easterling TR, Callaghan WM. Accuracy of reporting maternal in-hospital diagnoses and intrapartum procedures in Washington State linked birth records. *Pediatr Perinat Epidemiol*. 2005;19: 460-471.

17. Jackson LA, **Nelson JC**, Whitney CG, Neuzil KM, Benson P, Malais D, Baggs J, Mullooly J, Black S, Shay DK. Assessment of the safety of a third dose of pneumococcal polysaccharide vaccination in the Vaccine Safety Datalink population. *Vaccine*. 2006;24(2): 151-156.

18. Rautaharju PM, Ge S, **Nelson JC**, Larsen EKM, Psaty BM, Furberg CD, Zhang Z, Robbins J, Gottdiener JS, Chaves PHM. Comparison of mortality risk for electrocardiographic abnormalities in men and women with and without coronary heart disease (from the Cardiovascular Health Study). *Am J Cardiol*. 2006;97:309-315.

19. 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 DTaP vaccination: a randomized, controlled trial. *Pediatrics*. 2006;117: 620-625.

20. Jackson LA, Jackson M, **Nelson JC** Neuzil KM, Weiss NS. Evidence of bias in estimates of influenza vaccine effectiveness in seniors. *Int J Epidemiol*. 2006;35: 337-344.

21. Jackson LA, **Nelson JC**, Benson P, Neuzil KM, Reid RJ, Psaty BM, Heckbert SR, Larson EB, Weiss NS. Functional status is a confounder of the association of influenza vaccine and risk of all cause mortality in seniors. *Int J Epidemiol*. 2006;35:345-352.

22. **Nelson JC**, Jiang X-C, Tabas I, Tall A, Shea S. Plasma sphingomyelin and subclinical atherosclerosis: findings from the Multi-Ethnic Study of Atherosclerosis (MESA). *Am J Epidemiol.* 2006;163(10):903-912.

23. Neuzil KM, Jackson LA, **Nelson JC**, Klimov A, Cox N, Bridges CB, Dunn J, DeStefano F, Shay D. Immunogenicity and reactogenicity of 1 versus 2 doses of trivalent inactivated influenza vaccine in vaccine-naïve 5-8-year-old children. *J Infect Dis*. 2006;194(8):1032-1039.

24. Lydon-Rochelle MT, Holt V, **Nelson JC**, Cardenas V. Induction of labor in the absence of standard medical indication: incidence and correlates. *Med Care*. 2007; 45(6):505-12.

25. Jackson ML, **Nelson JC**, Chen RT, Davis RL, Jackson LA. Vaccines and changes in coagulation parameters in adults on chronic warfarin therapy: a cohort study. *Pharmacoepidemiol Drug Saf.* 2007; 16(7):790-796.

26. Jackson LA, Neuzil KM, Nahm MH, Whitney CG, Yu O, **Nelson JC**, Starkovich PT, Dunstan M, 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*. 2007; 25:4029-4037.

27. Jackson LA, Starkovich P, Dunstan M, Yu O, **Nelson JC**, 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 5th Diphtheria-Tetanus-Acellular Pertyssus vaccination. *Pediatrics*. 2008;121;e646-e652.
28. **Nelson JC**, Jackson ML, 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.* 2008; 26;4947-54.
29. Jackson ML, **Nelson JC**, Weiss NS, Neuzil KM, Barlow W, Jackson LA. Influenza vaccination and risk of community-acquired pneumonia in immunocompetent elderly people: a population-based, nested case-control study. *Lancet.* 2008; 372:398-405.
30. **Nelson JC**, Jackson ML, Weiss NS, and Jackson LA. New strategies are needed to improve the accuracy of influenza vaccine effectiveness estimates among seniors. *J Clin Epidemiol*. 2009; 62:687-94.
31. Jackson ML, **Nelson JC**, Jackson LA. Risk factors for community-acquired pneumonia in immunocompetent seniors. *J Am Geriatrics Society*. 2009; 57:882-8.
32. Dublin S, Jackson ML, **Nelson JC**, Weiss NS, Larson E, Jackson LA. Statin use and risk of community-acquired pneumonia in the elderly: results of a population-based case-control study. *Brit Med J*. 2009; Jun 16;338:b2137.
33. Jackson LA, Yu O, **Nelson JC**, Belongia EA, Hambidge SJ, Baxter R, Naleway A, Nordin J, Baggs 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*. 2009; 27:4912-6.
34. **Nelson JC**, Bittner RCL, Bounds L, Zhao S, Baggs J, Donahue JG, Hambidge SJ, Jacobsen SJ, Klein NP, Naleway AL, Zangwill KM, Jackson LA. Compliance with multiple-dose vaccine schedules among older children, adolescents, and adults: results from a Vaccine Safety Datalink Study. *Am J Public Health* 2009 Oct:99 Suppl 2:S389-97.
35. Jackson LA, Yu O, Belongia EA, Hambidge SJ, **Nelson JC**, 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 Infect Dis*. 2009;9:165.
36. Dublin S, Walker RL, Jackson ML, **Nelson JC**, Weiss N, Jackson LA. Use of proton pump inhibitors and H2 blockers and risk of pneumonia in older adults: a population-based case-control study. *Pharmacoepidemiology and Drug Safety*. 2010 Aug;19(8):792-802.
37. [†]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. *Epidemiol Infect.* 2011;139:1296-1306.
38. Jackson LA, Yu O, **Nelson JC**, Dominguez CP, 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 the acellular pertusiss vaccine. *Pediatrics*. 2011;127(3):e581-e587.
39. Xu S, Zhang L, **Nelson JC**, Zeng C, Mullooly J, McClure D, Glanz J. Identifying optimal risk windows for self-controlled case series studies of vaccine safety. *Statistics in Medicine*. 2011;30(7):742-752.
40. 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*. 2011;6(6): e20102.
41. Jackson ML, **Nelson JC**, Jackson LA. Why do covariates defined by International Classification of Disease codes fail to remove confounding in pharmacoepidemiologic studies among seniors? *Pharmacoepidemiology and Drug Safety*. 2011; 20:858-865.

42. Li L, Kulldorff M, **Nelson JC**, Cook AJ. A propensity score-enhanced sequential analytic method for comparative drug safety surveillance. *Statistics in Biosciences*. 2011;3(1):45-62.
43. Weiner SD, Jin Z, Cushman M, **Nelson JC**, Saad M, Di Tullio MR, Homma S. Brachial artery endothelial function and coagulation factors in the Multi-Ethnic Study of Atherosclerosis (MESA). *J Amer Coll Cardiol*. 2011;57(14s1):E1414-E1414.
44. Dublin S, Walker RL, Jackson ML, **Nelson JC**, Weiss NS, Von Korff M, Jackson LA. Use of opioids or benzodiazepines and risk of pneumonia in older adults: a population-based case-control study. *Journal of the American Geriatrics Society*. 2011; 59(10):1899-907.
45. **Nelson JC**, Cook AJ, Yu O, Zhao S, Dominguez C, Fireman B, Greene S, Jacobsen SJ, Weintraub E, Jackson LA. Challenges in the design and analysis of sequentially-monitored post-licensure safety surveillance studies using observational health care utilization data. *Pharmacoepidemiology and Drug Safety*. 2012; 21 Suppl 1:62-71.
46. Cook AJ, Wellman RD, Marsh T, Li L, Heckbert S, Heagerty P, Tiwari RC, **Nelson JC**. Statistical approaches to group sequential monitoring of post-marketing safety surveillance data: Current state of the art for use in the Mini-Sentinel surveillance project. *Pharmacoepidemiology and Drug Safety.* 2012;21 Suppl 1:72-81.
47. Maclure M, Fireman B, **Nelson JC**, Hua W, Shoaibi A, Paredes A, Madigan D. When should case-only designs be used for safety monitoring of medical products? *Pharmacoepidemiology and Drug Safety.* 2012;21 Suppl 1:50-61.
48. Gagne JJ, Fireman B, Ryan PB, Maclure M, Gerhard T, Toh S, Rassen JA, **Nelson JC**, Schneeweiss S. Design considerations in an active medical product safety monitoring system. *Pharmacoepidemiology and Drug Safety.* 2012;21 Suppl 1:32-40.
49. Fireman B, Toh S, Butler MG, Go AS, Joffe H, Graham D, **Nelson JC**, Daniel GW, Selby JV. A protocol for surveillance of acute myocardial infarction in association with use of a new anti-diabetic pharmaceutical agent. *Pharmacoepidemiology and Drug Safety.* 2012;21 Suppl 1:282-90.
50. Platt R, Carnahan R, Brown JS, Chrischilles E, Curtis L, Hennessy S, **Nelson JC**, Racoosin JA, Robb M, Schneeweiss S, Toh S, Weiner MG. The U.S. Food and Drug Administration's Mini-Sentinel Pilot Program: Status and Direction. *Pharmacoepidemiology and Drug Safety.* 2012;21 Suppl 1:1-8.
51. Wong ND, **Nelson JC**, Granston T, Bertoni AG, Blumenthal RS, Carr JJ, Guerci A, Jacobs DR, Kronmal RA, Liu K, Saad M, Selvin E, Tracy R, Detrano R. Metabolic Syndrome, Diabetes, and Incidence and Progression of Coronary Calcium: The Multiethnic Study of Atherosclerosis (MESA). *Journal of the American College of Cardiology: Cardiovascular Imaging*. 2012;5:358-366.
52. Dublin S, Walker RL, Jackson ML, **Nelson JC**, Weiss NS, Jackson LA. Use of angiotensin-converting enzyme inhibitors and risk of pneumonia in older adults: a population-based case-control study. *Pharmacoepidemiol Drug Saf*. 2012 Nov;21(11):1173-82.
53. *Zhao S, Cook AJ, Jackson LA, **Nelson JC**. Statistical performance of group sequential testing methods for post-licensure medical product safety surveillance: a simulation study. *Statistics and Its Interface.* 2012;5:381-390.
54. Xu S, Zeng C, Newcomer S, **Nelson JC**, Glanz J. Use of fixed effects models to analyze self-controlled case series data in vaccine safety studies. *J Biom Biostat*. 2012 Apr 19;Suppl 7:006.
55. **Nelson JC**, Yu O, Dominguez C, Cook AJ, Peterson D, Greene SK, Yih K, Daley MF, Jacobsen SJ, Klein NP, Weintraub E, Jackson LA. Adapting group sequential methods to observational post-licensure safety surveillance: Results of a pentavalent combination DTaP-IPV-Hib (Pentacel) vaccine safety study. *Am J Epidemiol.* 2013 Jan 15;177(2):131-41.
56. Jackson LA, Peterson D, **Nelson JC**, Marcy SM, Naleway AL, Nordin JD, Donahue JG, Hambidge SJ, Balsbaough C, Baxter R, Marsh T, Madziwa L, Weintraub E. Vaccination site

and risk of local reactions in children one through six years of age. *Pediatrics*. 2013;131(2):283-9.

57. Glanz JM, Newcomer SR, Narwaney KJ, Hambidge SJ, Daley MF, Wagner NM, McClure DL, Xu S, Rowhani-Rahbar A, Lee GM, **Nelson JC**, Donahue JG, Naleway AL, Nordin JD, Lugg MM, Weintraub ES. A population-based cohort study of undervaccination in 8 managed care organizations across the United States. *JAMA Pediatr.* 2013;167(3):274-81.

58. Dublin S, Baldwin E, Walker RL, Christensen LM, Haug PJ, Jackson ML, **Nelson JC**, Ferraro J, Carrell D, Chapman WW. Natural Language Processing to identify pneumonia from radiology reports. *Pharmacoepidemiol Drug Saf*. 2013 Aug;22(8):834-41.

59. Jackson ML, **Nelson JC**. The "test-negative case-control" design for estimating influenza vaccine effectiveness. *Vaccine.* 2013;31(17):2165-8.

60. **Nelson JC**, Marsh T, Bittner RCL, Lumley T, Larson EB, Jackson LA, Jackson ML. Validation sampling can reduce bias in healthcare database studies: an illustration using influenza vaccination effectiveness. *J Clin Epidemiol.* 2013; 66(8):S110-121.

61. Jackson MJ, Yu O, **Nelson JC**, Jackson LA. Further evidence for bias in observational studies of influenza vaccine effectiveness: the 2009 influenza A(H1N1) pandemic. *Vaccine.* 2013 Apr 19;31(17):2165-8.

62. Glanz J. Narwaney KJ, Newcomer SR, Daley MF, Hambidge SJ. Rowhani-Rahbar A, Lee GM, **Nelson JC**, Naleway AL, Nordin JD, Lugg MM, Weintraub ES. Association between undervaccination with diphtheria, tetanus toxoids, and acellular pertussis (DTaP) vaccine and risk of pertussis infection in children 3 to 36 months of age. *JAMA Pediatrics*. 2013 Nov 167(11):1060-4.

63. Xu S, Newcomer SR, **Nelson JC**, Chan L, McClure D, Pan Yi, Zeng C, Glanz J. Signal detection of adverse events with imperfect confirmation rates in vaccine safety studies using self-controlled case series design. *Biometrical Journal*. 2014 May;56(3):513-25.

64. Daley M., Yih WK, Glanz JM, Hambidge SJ, Narwaney KJ, Yin R, Li L, **Nelson JC**, Nordin JD, Klein NP, Jacobsen SJ, and Weintraub E. Safety of diphtheria, tetanus, acellular pertussis and inactivated polio virus (DTaP-IPV) vaccine. *Vaccine*. 2014 May 23;32(25):3019-24.

65. Hambidge SJ. Newcomer SR, Narwaney KJ, Glanz J, Daley MF, Xu S, Shoup JA, Rowhani-Rahbar A, Klein NP, Lee GM, **Nelson JC**, Lugg M, Naleway AL Nordin JD, Weintraub E, DeStefano. Timely versus delayed early childhood vaccination and seizures. *Pediatrics*. 2014 Jun;133(6);e1492-9.

66. **Nelson JC**, Shortreed S, Yu O, Peterson D, Baxter R, Fireman B, Lewis N, McClure D, Weintraub E, Xu S, Jackson LA on behalf of the Vaccine Safety Datalink project. Integrating database knowledge and epidemiological design to improve the implementation of data mining methods to evaluate vaccine safety in large healthcare databases. *Stat Analysis Data Mining*. 2014 Oct;7(5):337-351.

67. Weiner SD, Ahmed HN, Jin Z, Cushman M, Herrington DM, **Nelson JC**, Di Tullio MR, Homma S. Systemic inflammation and brachial artery endothelial function in the Multi-Ethnic Study of Atherosclerosis (MESA). *Heart*. 2014 Jun;100(11):862-6.

68. Bell C, Chakravarty A, Gruber S, Heckbert SR, Levenson M, Martin D, **Nelson JC**, Pinheiro S, Psaty BM, Reich CG, Schneeweiss S, Shoaibi A, Toh S, Walker AM. Characteristics of study design and elements that may contribute to the success of electronic safety monitoring systems. *Pharmacoepidemiol Drug Saf*. 2014 Nov;23(11):1223-5.

69. *Stratton K, Cook AC, Jackson LA, **Nelson JC**. Simulation study comparing exposure matching with regression adjustment in an observational vaccine safety setting with group sequential monitoring. *Statistics in Medicine*. 2015 Mar 30;34(7):1117-33.

70. Jackson ML, Peterson D, **Nelson JC**, Jackson LA. Using the 2009/10 winter to assess the accuracy of methods which estimate influenza-related morbidity and mortality. *Epidemiol and Infection* 2015 Aug;143(11):2399-407.

71. Klein NP, Lewis E, Fireman B, Hambidge SJ, Naleway A, **Nelson JC**, Belongia EA, Yih K, Nordin JD, Hechter RC, Weintraub E, Baxter R. Safety of measles-containing vaccines in 1-year-old children. *Pediatrics.* 2015 Feb;135(2):e321-9.

72. **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.* 2015;24(2):177-193.

73. Henrikson N, Opel D, Grothaus L, **Nelson JC**, Scrol A, Dunn J, Faubion T, Roberts M, Marcuse EK, Grossman DC. Physician communication training and parental vaccine hesitancy: a randomized trial. *Pediatrics*. 2015 Jul;136(1):70-9.

74. Cook AJ, Wellman RD, **Nelson JC**, Jackson LA and Tiwari RC. Group sequential method for observational data by using generalized estimating equations: application to Vaccine Safety Datalink. *Journal of the Royal Statistical Society: Series C (Applied Statistics)*. 2015 Feb;64(2):319-338.

75. **Nelson JC**, Wellman R, Yu O, Cook AJ, Maro JC, Ouellet-Hellstrom R, Boudreau D, Floyd J, Heckbert S, Pinheiro S, Reichman M, Shoabi A. A synthesis of current surveillance planning methods for the sequential monitoring of drug and vaccine adverse events using electronic health care data. *eGEMs (Generating Evidence & Methods to improve patient outcomes)*. 2016: 4(1), Article 17. Available at: http://repository.edm-forum.org/egems/vol4/iss1/17

76. Gruber S, Chakravarty A, Heckbert S, Levenson M, Martin D, **Nelson JC**, Pinheiro S, Psaty B, Reich CG, Toh D, Walker A. Design and analysis choices for safety surveillance evaluations need to be tuned to the specific of the hypothesized drug-outcome association. *Pharmacoepidemiol Drug Saf*. 2016 Sep;25(9):973-81.

77. Glass JE, Rathouz PJ, Gattis M, Joo YS, **Nelson JC**, Williams EC. Intersections of poverty, race/ethnicity, and sex: alcohol consumption and adverse outcomes in the United States. *Soc Psychiatry Psychiatr Epidemiol*. 2017 May;52(5):515-524

78. McClure JB, Blasi PR, Cook AJ, Bush T, Fishman P, **Nelson JC**, Anderson ML, Catz SL. Oral health 4 life: Design and methods of a semi-pragmatic randomized trial to promote oral health care and smoking abstinence among tobacco quitline callers. *Contemporary Clinical Trials*. 2017 Jun;57:90-97.

79. McClure JB, Bush T, Anderson ML, Blasi P, Thompson E, **Nelson JC**, Catz SL. Oral Health 4 Life: A randomized semi-pragmatic trial evaluating a novel oral health promotion and smoking cessation program delivered via tobacco quitlines. *Am J Public Health*. 2018 May;108(5):689-695.

80. Chrischilles E, Gagne J, Fireman B, **Nelson JC**, Toh Sengwee, Shoaibi A, Reichman ME, Wang S, Nguyen M, Zhang R, Izem R, Goulding MR, Southworth MR, Graham DJ, Fuller C, Katcoff H, Woodworth TS, Rogers C, Saliga R, Lin N, McMahill-Walraven CN, Nair VP, Haynes K, Carnahan RM. Prospective surveillance pilot of rivaroxaban safety within the US Food and Drug Administration Sentinel Program. *Pharmacoepidemiol Drug Saf*. 2018 Mar;27(3):263-271.

81. Martin D, Gagne JJ, Gruber S, Izem R, **Nelson JC**, Nguyen MD, Ouellet-Hellstrom R, Schneeweiss S, Toh S, Walker AM. Sequential surveillance for drug safety in a regulatory environment. *Pharmacoepidemiol Drug Saf*. 2018 Jul;27(7):707-712.

82. Jackson ML, Phillips CH, Benoit J, Kiniry E, Madziwa L, **Nelson JC**, Jackson LA. The impact of selection bias on vaccine effectiveness estimates from test-negative studies. *Vaccine*, 2018 Jan 29;35(5):751-757.

83. Li R, Weintraub E, McNeil MM, Kulldorff M, **Nelson JC**, Xu S, Qian L, Klein N, Destefano F. Meningococcal conjugate vaccine safety surveillance in the Vaccine Safety Datalink using a tree-temporal scan data mining method. *Pharmacoepidemiol Drug Saf*. 2018 Apr;27(4):391-397.

84. Tseng HF, Sy LS, Qian L, Liu IA, Mercado C, Lewin B, Tartof SY, **Nelson JC**, Jackson LA, Daley MF, Weintraub E, Klein NP, Belongia E, Liles EG, Jacobsen SJ. Pneumococcal Conjugate Vaccine Safety in Elderly Adults. *Open Forum Infect Dis*. 2018 May 2;5(6):ofy100.
85. Jackson ML, Yu O, **Nelson JC**, Nordin J, Tartof S, Klein N, Donahue J, Irving S, Glanz J, McNeil M, Jackson LA. Safety of repeated doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis vaccine in adults and adolescents. *Pharmacoepidemiol Drug Saf.* 2018 Aug;27(8):921-925.
86. Blasi PR, Krakauer C, Anderson ML, **Nelson JC**, Bush T, Catz SL, and McClure JB. Factors associated with future dental care utilization among low-income smokers overdue for dental visits. *BMC Oral Health*. 2018 Nov 1; 18(1):183-9.
87. Shortreed SM, Cook AJ, Coley RY, Bobb JF and **Nelson JC**. Challenges and opportunities for using big health care data to advance medical science and public health. *Am J Epidemiol*. 2019 May 1;188(5):851-861.
88. **Nelson JC**, Ulloa E, Bobb JF, Maro JC. Leveraging the entire cohort in drug safety monitoring: Part 1 -- Methods for sequential surveillance methods that use regression adjustment or weighting to control confounding in a multisite, rare event, distributed setting. *J Clin Epidemiol*. 2019 Aug;112:77-86.
89. Cook AJ, Wellman RD, Shoaibi A, Tiwari RC, Boudreau D, Marsh TL, Nguyen M, Weintraub E, **Nelson JC**. Applying sequential surveillance methods that use regression adjustment of weighting to control confounding in a multisite, rare-event, distributed setting: Part 2 -- In-depth example of a reanalysis of the measles-mumps-rubella-varicella combination vaccine and seizure risk. *J Clin Epidemiol*. 2019 Sep;113:114-122.
90. Donahue JG, Kieke BA, Lewis EM, Weintraub ES, Hanson KE, McClure DL, Vickers ER, Gee J, Daley MF, DeStefano F, Hechter RC, Jackson LA, Klein NP, Naleway AL, **Nelson JC**, Belongia EA. Near Real-Time Surveillance to Assess the Safety of the 9-Valent Human Papillomavirus Vaccine. *Pediatrics*. 2019 Dec;144(6):e20191808.
91. McClure JB, Anderson ML, Krakauer C, Blasi P, Bush T, **Nelson JC**, Catz SL. Impact of a novel oral health promotion program on routine oral hygiene among socioeconomically disadvantaged smokers: results from a randomized semi-pragmatic trial. *Transl Behav Med*. 2020 May 20;10(2):469-477.
92. Shi X, Wellman R, Heagerty PJ, **Nelson JC**, Cook AJ. Safety surveillance and the estimation of risk in select populations: Flexible methods to control for confounding while targeting marginal comparisons via standardization. *Stat Med*. 2020 Feb 20;39(4):369-386.
93. Shi X, Miao W, **Nelson JC**, Tchetgen EJT. Multiply robust causal inference with double-negative control adjustment for categorical unmeasured confounding. *J R Stat Soc Series B Stat Methodol*. 2020 Apr;82(2):521-540.
94. Fireman B, Gruber S, Zhang Z, Wellman R, **Nelson JC**, Franklin J, Maro J, Murray CR, Toh S, Gagne J, Schneeweiss S, Amsden L, Wyss R. Consequences of Depletion of Susceptibles for Hazard Ratio Estimators Based on Propensity Scores. *Epidemiology*. 2020 Nov;31(6):806-814.
95. Panagiotakopoulos L, McCarthy NL, Tepper NK, Kharbanda EO, Lipkind HS, Vazquez-Benitez G, McClure DL, Greenberg V, Getahun D, Glanz JM, Naleway AL, Klein NP, **Nelson JC**, Weintraub ES. Evaluating the Association of Stillbirths After Maternal Vaccination in the Vaccine Safety Datalink. *Obstet Gynecol*. 2020 Dec;136(6):1086-1094.
96. Bann MA, Carrell DS, Gruber S, Shinde M, Ball R, **Nelson JC**, Floyd JS. Identification and Validation of Anaphylaxis Using Electronic Health Data in a Population-based Setting. *Epidemiology*. 2021 May 1;32(3):439-443.
97. Berrueta M, Ciaponni A, Bardach A, Cairoli FR, Castellano FJ, Xiong X, Stergachis A, Zaraa S, ter Meulen AS, Buekens P, Scoping Review Collaboration Group (including **Nelson JC**). Maternal and neonatal data collection systems in low- and middle-income countries for

maternal vaccine active safety surveillance systems: A scoping review. *BMC Pregnancy and Childbirth*. 2021;21:217.

98. Pingray V, Belizan M, Matthews S, Zaraa S, Berrueta M, Noguchi LM, Xiong X, Gurtman A, Absalon J, **Nelson JC**, Panagiotakopoulos L, Sevene E, Munoz FM, Althabe F, Mwamwitwa KW, Cairoli FR, Anderson SA, McClure EM, Guillard C, Nakimuli A, Stergachis A, Buekens P. Using maternal and neonatal data collection systems for coronavirus disease 2019 (COVID-19) vaccine active safety surveillance in low- and middle-income countries: an international modified Delphi study. *Gates Open Research* 2021;5:99.

99. Klein NP, Lewis N, Goddard K, Fireman B, Zerbo O, Hanson KE, Donahue JG, Kharbanda EO, Naleway A, **Nelson JC**, Xu S, Yih WK, Glanz JM, Williams JTB, Hambidge SJ, Lewin BJ, Shimabukuro TT, DeStefano F, Weintraub ES. Surveillance for adverse events after COVID-19 mRNA vaccination. *JAMA*. 2021 Oct 12;326(14): 1390-1399.

100. Desai RJ, Matheny ME, Johnson K, Marsolo K, Curtis LH, **Nelson JC**, Heagerty PH, Maro J, Brown J, Toh S, Nguyen M, Ball R, Dal Pan G, Wang SV, Gagne JJ, Schneeweiss S. Broadening the reach of the FDA Sentinel System: A roadmap for integrating electronic health record data in a causal analysis framework. *NPJ Digit Med*. 2021 Dec 20;4(1):170.

101. Hanson KE, Goddard K, Lewis E, Myers TR, Bakshi N, Weintraub E, Donahue JG, Glanz JM, **Nelson JC**, Williams JTB, Xu S, Klein NP. Incidence of Guillain-Barré Syndrome after COVID-19 Vaccination in the Vaccine Safety Datalink. *JAMA Network Open.* 2022;Apr 1;5(4):e228879.

102. Kenigsberg TA, Hause AM, McNeil MM, **Nelson JC**, Shoup J, Lou Y, Hanson KE, Glenn SC, Weintraub E. Dashboard development for near real-time visualization of COVID-19 vaccine safety surveillance data. *Vaccine*. 2022 May 11;40(22):3064-3071.

103. Xu S, Hong V, Sy LS, Glenn SC, Ryan DS, Morrissette K, **Nelson JC**, Hambidge SJ, Crane B, Zerbo O, DeSilva MB, Glanz JM, Donahue JG, Liles E, Duffy J, Qian L. Changes in incidence rates of outcomes of interest in vaccine safety studies during the COVID-19 pandemic. *Vaccine*. 2022 May 20;40(23):3150-3158

104. Hause AM, Shay DK, Klein NP, Abara WE, Baggs J, Cortese MM, Fireman B, Gee J, Glanz JM, Goddard K, Hanson KE, Hugueley B, Kenigsberg T, Kharbanda E, Lewin B, Lewis E, Marquez P, Myers T, Naleway A, **Nelson JC**, Su JR, Thompson D, Olubajo B, Oster M, Weintraub ES, Williams JTB, Yousaf AR, Zerbo O, Zhang B, Shimabukuro TT. Safety of BNT162b2 COVID-19 Vaccination in U.S. Children Ages 5–11 Years through February 2022. *Pediatrics*. 2022 Aug 1;150(2):e2022057313.

105. DeSilva M, Haapala J, Vazquez-Benitez G, Vesco K, Daley M, Getahun D, Zerob O, Naleway A, **Nelson JC**, Williams J, Hambidge S, Boyce T, Fuller C, Lipkind HS, Kharbanda E. Evaluation of Acute Adverse Events After COVID-19 Vaccination During Pregnancy. *New England Journal of Medicine*. 2022 Jul 14;387(2):187-189.

106. Tartof SY, Liu IA, Malden DE, Sy L, Lewin B, Hambidge S, Alpern J, Daley M, **Nelson JC**, McClure D, Zerbo O, Henninger M, Fuller C, Weintraub E, Saydah S, Qian L. Health Care Utilization in the 6 Months Following SARS-CoV-2 Infection. *JAMA Network Open.* 2022 Aug 1;5(8):e2225657.

107. Meghani M, Razzaghi H, Crane B, Weintraub ES, Naleway AL, Irving SA, Kauffman TL, Daley MF, DeSilva M, Getahun D, Glenn SC, Hambidge SJ, Hanson KE, Kenigsberg T, Lipkind HS, **Nelson JC**, Vazquez-Benitez G, Zerbo O, Singleton JA, Patel SA. COVID-19 Vaccination Among Pregnant Individuals by Key Demographics, Timing of Vaccination, High-risk Conditions, and Pregnancy Comorbidities — United States, February 2022. MMWR Morb Mortal Wkly Rep. 2021 Jun 18;70(24):895-899.

108. Goddard K, Lewis E, Fireman B, Weintraub E, Shimabukuro T, Zerbo O, Boyce T, Oster M, Hanson K, Donahue J, Ross P, Naleway A, **Nelson JC**, Lewin B, Glanz JM, Williams J, Kharbanda EO, Yih WK, Klein NP. Risk of myocarditis/pericarditis following BNT162b2 and mRNA-1273 COVID-19 Vaccination. *Vaccine*. 2022 Aug 19;40(35):5153-5159.

109. Kamidani S, Panagiotakopoulos L, Licata C, Daley M, Yih WK, Zerbo O, Tseng H, DeSilva MB, Nelson JC, Groom HC, Williams JTB, Hambidge SJ, Donahue JG, Belay ED, Weintraub E. Kawasaki Disease following the 13-valent Pneumococcal Conjugate Vaccine and Rotavirus Vaccines. *Pediatrics*. 2022 Dec 1;150(6):e2022058789.

110. Sundaram ME, Kieke BA, Hanson KE, Belongia EA, Weintraub ES, Daley MF, Hechter RC, Klein NP, Lewis EM, Naleway AL, **Nelson JC**, Donahue JG. Extended surveillance to assess safety of 9-valent human papillomavirus vaccine. *Hum Vaccine Immunother.* 2022 Dec 30;18(7):2159215.

111. Carrell DS, Gruber S, Floyd JS, Bann MA, Cushing-Haugen KL, Johnson RL, Graham V, Cronkite DJ, Hazlehurst BL, Felcher AH, Bejan CA, Kennedy A, Shinde M, Karami S, Ma Y, Stojanovic D, Zhao Y, Ball R, **Nelson JC**. Improving Methods of Identifying Anaphylaxis for Medical Product Safety Surveillance Using Natural Language Processing and Machine Learning. *American Journal of Epidemiology*. 2023 Feb 1;192(2):283-295.

112. **Nelson JC**, Ulloa E, Yu O, Cook AC, Jackson MJ, et al. Active post-licensure safety surveillance for recombinant zoster vaccine. *American Journal of Epidemiology.* 2023; 192(2): 205-216.

113. Vazquez-Benitez G, Haapala J, Lipkind H, DeSilva M, Zhu J, Daley M, Getahun D, Klein NP, Vesco K, Irving S, **Nelson JC**, Williams J, Hambidge S, Donahue J, Fuller C, Weintraub E, Olson C, Kharbanda EO. COVID-19 Vaccine Surveillance Safety in Early Pregnancy in the United States: Design Factors Affecting Association Between Vaccine and Spontaneous Abortion. *American Journal of Epidemiology.* 2023 Aug 4;192(8):1386-1395.

114. Yih WK, Daley MF, Duffy J, Fireman B, McClure D, **Nelson JC**, Qian L, Smith N, Vazquez-Benitez G, Weintraub E, Williams JTB, Xu S, Maro JC. A broad assessment of COVID-19 vaccine safety using tree-based data mining in the Vaccine Safety Datalink. *Vaccine*. 2023 Jan 16;41(3):826-835

115. Yih WK, Daley MF, Duffy J, Fireman B, McClure D, **Nelson JC**, Qian L, Smith N, Vazquez-Benitez G, Weintraub E, Williams JTB, Xu S, Maro JC. Tree-based data mining for safety assessment of first COVID-19 booster doses in the Vaccine Safety Datalink. *Vaccine*. 2023 Jan 9;41(2):460-6.

116. Floyd JS, Bann MA, Felcher AH, Sapp D, Nguyen MD, Ajao A, Carrell DS, **Nelson JC**, Hazlehurst B. Validation of acute pancreatitis among adults in an integrated healthcare system. *Epidemiol*. 2023 Jan 1;34(1):33-37.

117. Kharbanda EO, Haapala J, Lipkind HS, DeSilva M, Zhu J, Vesco KK, Daley MF, Donahue J, Getahun D, Hambidge SJ, Irving SA, Klein NP, **Nelson JC**, Weintraub ES, Williams JTB, Vazquez-Benitez G. COVID-19 booster vaccination in early pregnancy and surveillance for spontaneous abortion. *JAMA Netw Open.* 2023 May 1;6(5):e2314350.

118. Wu Y, Rosenberg DE, Greenwood-Hickman MA, McCurry SM, Proust-Lima C, Nelson JC, Crane PK, LaCroix AZ, Larson EB and Shaw PA. Analysis of the 24-h activity cycle: An illustration examining the association with cognitive function in the Adult Changes in Thought study. *Front Psychol.* 2023 Mar 27;14:1083344

119. DeSilva M, Haapala J, Vazquez-Benitez G, Boyce TG, Fuller CC, Daley MF, Getahun D, Hambidge SJ, Lipkind HS, Naleway A, **Nelson JC**, Vesco KK, Weintraub E, Williams JTB, Zerbo O, Kharbanda EO. Medically attended acute adverse events in pregnant persons following COVID-19 Booster Vaccination. *Obstet Gynecol*. 2023 Jul 1;142(1):125-129.

120. Yih KY, Daley MF, Duffy J, Fireman B, McClure DL, **Nelson JC**, Qian L, Smith N, Vasquez-Benitez G, Weintraub E, Williams TB, Xu S, Maro J. Safety signal identification for COVID-19 bivalent booster vaccination using tree-based scan statistics. *Vaccine.* 2023 Aug 14;41(36):5265-5270.

121. Daley MF, Reifler LM, Shoup JA, Glanz JM, Naleway AL, **Nelson JC**, Williams JTB, McLean HQ, Vazquez-Benitez G, Goddard K, Lewin BJ, Weintraub ES, McNeil MM, Razzaghi H, Singleton JA. Racial and ethnic disparities in influenza vaccination coverage among pregnant

women in the United States: The contribution of vaccine-related attitudes. *Prev Med*. 2023 Dec;177:107751.

122. Qian L, Sy LS, Hing V, Sungching G, Ryan DS, **Nelson JC**, Hambidge SJ, Crane B, Zerbo O, DeSilva MB, Glanz JM, Donahue JG, Lilies EL, Duffy J, Xu S. Impact of the COVID-19 Pandemic on health care utilization in the Vaccine Safety Datalink: Retrospective cohort study. *JMIR Public Health and Surveill*. 2024 Jan;10:e48159.

123. Desai RJ, **Nelson JC** et al. A PRocess guide for INferential studies using secondary data from routine ClinIcal Practice to evaLuate causal Effects of Drugs (PRINCIPLED): A report from the FDA Sentinel Innovation Center. *BMJ*. 2024 Feb;384:e076460

124. Markowitz LE, Hopkins RH, Broder KR, Lee GM, Edwards KM, Daley MF, Jackson LA, **Nelson JC**, Riley LE, McNally VV, Schechter R, Whitley-Williams PN, Cunningham F, Clark M, Ryan M, Farizo KM, Wong H, Kelman J, Beresnev T, Marshall V, Shay DK, Gee J, Woo J, McNeil MM, Su JR, Shimabukuro TT, Wharton M, Talbot HK. COVID-19 Vaccine safety technical (VaST) work group: Enhancing vaccine safety monitoring during the pandemic. *Vaccine*. 2024 Feb;S0264-410X(23)01505-0. Online ahead of print.

125. Mossa-Basha M, Andre JB, Yuh EL, Hunt D, LaPiana N, Howlett B, Krakauer C, Crane PK, **Nelson JC**, DeZelar M, Meyers K, Larson EB, Ralston J, Mac Donald CL. Comparison of brain imaging and physical health between research and clinical neuroimaging cohorts of aging. *Br J Radiol.* 2024 Feb;97(1155):614-621.

126. Wyss R, van der Laan M, Gruber S, Shi X, Lee H, Dutcher SK, **Nelson JC**, Toh S, Wang SV, Desai RJ, Lin KJ. Targeted Learning with an Undersmoothed Lasso Propensity Score Model for Large-Scale. *Am J Epidemiol*. 2024 Mar;kwae023. Online ahead of print.

127. Williams JTB, Kurlandsky K, Breslin K, Durfee J, Stein A, Shoup JA, Reifler LM, Daley MF, Lewin B, Goddard K, Henninger ML, **Nelson JC**, Vazquez-Benitez G, Hanson KE, Fuller CC, Weintraub E, McNeil MM, Hambidge SJ. Attitudes toward COVID-19 Vaccines Among Pregnant and Recently Pregnant Individuals. *JAMA Netw Open*. 2024 Apr;7(4):e245479.

128. Daley MF, Reifler LM, Shoup J, Glanz JM, Lewin BJ, Klein NP, Kharbanda EO, McLean HQ, Hambidge SJ, **Nelson JC**, Naleway AL, Weintraub ES, McNeil MM, Razzaghi H, Singleton JA. Influenza vaccination accuracy among adults: self-report compared with electronic health record. *Vaccine*. 2024 Apr;42(11):2740-2746.

129. Hazlehurst B, Carrell D, Bann M, **Nelson JC**, Gruber S, Slaughter M, Cronkite D, Ball R, Floyd J. Finding uncoded anaphylaxis in electronic health records to estimate the sensitivity of International Classification of Diseases, Tenth revision, Clinical Modification codes. *Am J Epidemiol*. 2024 Oct 7;193(10):1494-1496.

130. Malden DE, Liu AI, Qian L, Sy LS, Lewin BJ, Asamura DT, Ryan DS, Bezi CE, Williams JTB, Kaiser R, Daley MF, **Nelson JC**, McClure DL, Zerbo O, Henninger ML, Fuller CC, Weintraub ES, Saydah S, Tartof SY. Post-COVID conditions following COVID-19 vaccination: a retrospective matched cohort study of patients with SARS-CoV-2 infection. *Nature Communications*. 2024 May 22;15(1):4101.

131. Carrell DS, Floyd JS, Gruber S, Hazlehurst BL, Heagerty PJ, Nelson JC, Williamson BD, Ball R. A general framework for developing computable clinical phenotype algorithms. *Journal of the American Medical Informatics Association*. 2024;31(8):1785-1796.

132. Yih WK, Duffy J, Su JR, Bazel S, Fireman B, Hurley L, Maro JC, Marquez P, Moro P, Nair N, **Nelson JC**, Smith N, Sundaram M, Vasquez-Benitez G, Weintraub E, Xu S, Shimabukuro T. Tinnitus after COVID-19 vaccination: Findings from the vaccine adverse event reporting system and the Vaccine Safety Datalink. *American Journal of Otolaryngology*. 2024 Nov-Dec;45(6):104448.

133. Getahun D, Liu IA, Sy LS, Glanz JM, Zerbo O, Vazquez-Benitez G, **Nelson JC**, Williams JTB, Hambidge SJ, McLean HQ, Irving SA, Weintraub E, Qian L. Safety of the seasonal influenza vaccine in two successive pregnancies. *JAMA Network Open*. 2024;7(9):e2434857.

134. Gatto N, Renz A, Tom S, Lyon M, Macuiba J, Dodd T, Lind B, Gray S, Meyers K, Larson E, **Nelson JC**, McEvoy L, Sankaran S, Key D, Litondo J, Crane P. The Adult Changes in Thought (ACT) medical records abstraction project: A resource for research on the aging brain and Alzheimer's disease and related dementias. *Brain Sciences*. 2024;14(11):1075.

135. Li K, Emerman I, Cook AJ, Fireman B, Sundaram M, Tseng H, Weintraub ES, Yu O, **Nelson JC**, Shi X. Using Double Negative Controls to Adjust for Healthy User Bias in a Recombinant Zoster Vaccine Safety Study. *American Journal of Epidemiology.* 2025;194(9):2641-2649.

136. Li K, Krakauer C, **Nelson JC**, Crane P, Andre, JB, Curl P, Yuh E, Ralston J, MacDonald C, Gray SL. Association Between Anticholinergic Use and Neuroimaging Outcomes. *Journal of the American Geriatrics Society*. 2025;20(57):e084407.

137. Sheth SS, Vazquez-Benitez G, DeSilva MB, Zhu J, Seburg E, Denoble AE, Daley MF, Getahun D, Klein NP, Vesco KK, Irving SA, **Nelson JC**, Williams JTB, Hambidge SJ, Donahue JG, Weintraub ES, Lipkind HS, Kharbanda EO. COVID-19 Vaccination and Spontaneous Abortion in the Vaccine Safety Datalink: A Case-Control Study. *Obstetrics and Gynecology*. 2025;146(1):129-137.

138. Zerbo O, Modaressi S, Fireman B, Ross P, Goddard K, **Nelson JC**, Glanz J, Irving SA, Lewin B, DeSilva M, Hambidge SJ, Sundaram ME, Klein NP. Risk of immune thrombocytopenic purpura recurrence following second measles-containing vaccine. *Pediatrics*. 2025;156(2):e2025070931.

139. Hurley L, Kurlandsky K, Breslin K, Stein A, Hambidge SJ, Shoup JA, Reifler LM, Daley MF, Lewin B, Goddard K, Henninger ML, **Nelson JC**, Vazquez-Benitez G, Hanson KE, Fuller CC, Williams JTB. Attitudes and Beliefs Regarding COVID-19 and COVID-19 Omicron Booster Vaccine Among Adults in the Vaccine Safety Datalink, 2022-2023. *Human Vaccines & Immunotherapeutics.* 2025 Dec;21(1):2467548.

140. Stein AB, Williams JTB, Hurley LP, Breslin K, Kurlandsky K, **Nelson JC**, Fuller CC, Crane B, Hanson KE, Glenn SC, Jazwa Am, Reifler LM. Accuracy of COVID-19 Vaccination Self-report compared with Data from VSD Electronic Health Records for Pregnant Women and Non-pregnant Adults, 2021-2022. *American Journal of Epidemiology*. 2025;kwaf112. Online ahead of print.

141. Williams JTB, Kurlandsky K, Breslin K, Durfee J, Stein A, Shoup J, Reifler LM, Daley MF, Lewin B, Goddard K, Henninger ML, **Nelson JC**, Vasquez-Benitez G, Hanson KE, Fuller CC, Weintraub E, McNeil MM, Hambidge SJ. Religious service attendance, and COVID-19 attitutes & self-reported vaccination within the VSD. *AJPM Focus*. 2025;4(5):100404.

142. McClure D, Hanson KE, Sundaram ME, Kieke BA, Duffy J, McNeil MM, Glanz JM, Irving S, Kharbanda EO, Williams JTB, Xu S, Zerbo O, **Nelson JC**, Belongia EA, Weintraub EW. Incident epilepsy and vaccination status or vaccine aluminum exposure in children under four years. *Journal of Pediatrics.* 2026;115004. Online ahead of print.

143. Cook AJ, Wellman RD, Marsh T, Tiwari RC, Nguyen MD, Russek-Cohen E, Peng Y, **Nelson JC.** (in press) Estimating risk differences using large healthcare data networks for medical product postmarket safety outcomes in a distributed data setting and allowing for active postmarket surveillance. *Statistics in Medicine.*

144. Williamson B, Krakauer C, Johnson E, Gruber S, Shepherd B, van der Laan M, Lumley T, Lee H, Hernandez Munoz J, Zhao F, Dutcher S, Desai R, Simon G, Shortreed S, **Nelson JC**, Shaw P. (in press) Assessing treatment effects in observational data with missing confounders: A comparative study of practical doubly-robust and traditional missing data methods. *Statistics in Medicine.*

b) Other peer-reviewed scholarly publications

1. Dublin S, Weiss NS, **Nelson JC**, and Jackson ML. Statins and outcomes in patients with pneumonia: potential sources of bias. *British Medical Journal.* A response to Majumdar SR et

al, "Statins and outcomes in patients admitted to hospital with community acquired pneumonia: population based prospective cohort study." *BMJ* 2006; 333:999

2. Jackson ML, Weiss NS, **Nelson JC**, Jackson LA. To rule out confounding, observational studies of influenza vaccine need to include analyses during the 'preinfluenza' period. *Archives Internal Medicine* 2007; 167(14):1553-4; author reply 1554-5. A response to Spaude KA et al, "Influenza vaccination and risk of mortality among adults hospitalized with community-acquired pneumonia." Arch Int Med 2007; 167(1):53-9.

3. **Nelson JC**, Jackson ML, and Jackson LA. Effectiveness of influenza vaccine: To the editor. *N Engl J Med 2007;* 357(26):2728-9. A response to Nichol KL et al, "Effectiveness of influenza vaccine in the community-dwelling elderly." *N Engl J Med 2007;* 357(14):1373-81.

4. Jackson LA, **Nelson JC.** Association between statins and mortality: To the editor. *Journal of Infectious Diseases*.

5. Gruber S, Carrell DS, Floyd JS, **Nelson JC**, Hazlehurst BL, Heagerty PJ. Letter to the editor re: Beachler et al., 2021; *Pharmacoepidemiology and Drug Safety.*

6. Larson EB, **Nelson JC**. Commentary: In older adults, use of recombinant zoster vaccine was associated with Guillain-Barre syndrome. *Annals of Internal Medicine*. 2021 Mar 1;

c) **Books and book chapters** (Not applicable)

d) **Other non-peer-reviewed scholarly publications**

1. Gagne J, Fireman B, Ryan P, Maclure M, Gerhard T, Toh D, Rassen JA, **Nelson JC**, and Schneeweiss S. (2010) Taxonomy for monitoring methods within a medical product safety surveillance system: Year 1 report of the Mini-Sentinel Taxonomy Project Workgroup. Available at http://www.mini-sentinel.org/methods/methods_development.

2. Cook AJ, Wellman RD, Tiwari RC, Li L, Heckbert S, Marsh T, Heagerty P and **Nelson JC**. (2011) Statistical approaches for group sequential monitoring of postmarketing safety surveillance data. An Overview and simulation evaluation of methods applicable to the Mini-Sentinel surveillance pilot: Report of the Mini-Sentinel Sequential Methods Project Workgroup*. Available at http://www.mini-sentinel.org/methods/methods_development.

3. Madigan D, Fireman B, Maclure M, Simpson S, Hua W, Paredes A, **Nelson JC**, and Shoaibi A. Case-based methods: Report of the Mini-Sentinel Case-Based Methods Project Workgroup*. Available at http://www.mini-sentinel.org/methods/methods_development

4. Cook AJ, Wellman RD, Marsh T, Tiwari RC, Nguyen MD, Russek-Cohen E, Jiang Z and **Nelson JC**. (2012) Statistical methods for estimating causal risk differences in the distributed data setting for postmarket safety outcomes: Report of the Mini-Sentinel Sequential Monitoring with Causal Inference Project Workgroup. Available at http://www.mini-sentinel.org/methods/methods_development.

5. Gagne J, **Nelson JC**, Fireman B, Seeger JD, Toh D, Gerhard T, Rassen JA, Shaoibi A, Reichman M, and Schneeweiss S. (2012) Taxonomy for monitoring methods within a medical product safety surveillance system: Year 2 report of the Mini-Sentinel Taxonomy Workgroup. Available at http://www.mini-sentinel.org/methods/methods_development

6. Cook AJ, Wellman RD, Shaoibi A, Tiwari RC, Boudreau D, Goonesekera S, Marsh TL, and **Nelson JC.** (2013) Demonstrate feasibility of new Mini-Sentinel group sequential monitoring methods in a distributed setting by implementing them in practice: Report of the Mini-Sentinel Group Sequential Methods Development Workgroup. Available at http://www.mini-sentinel.org/methods/methods_development.

7. Dublin S, Walker R, Rutter C, **Nelson JC**, Fireman B, Graham D, Psaty B, Setoguchi S, and Shoaibi A. (2014) Collecting Supplemental Information via Two-Phase Study Designs to Investigate Signals Arising from Medication Safety Surveillance Activities: Report of the Mini-

Sentinel 2-phase Methods Development Workgroup. Available at http://www.mini-sentinel.org/methods/methods_development.

8. Cook AJ, Wellman RD, Shoaibi A, Tiwari RC, Heckbert SR, Li L, Izem R, Zhang R, and **Nelson JC**. (2014) Safety signaling methods for survival outcomes to control for confounding in the Mini-Sentinel Distributed Database: Report of the Mini-Sentinel Survival Methods Workgroup. Available at http://www.mini-sentinel.org/methods/methods_development

9. Carnahan RC, Gagne JJ, **Nelson JC**, Fireman B, Wang S, Shoaibi A, Reichman M, Zhang R, Levenson M, Graham D, Tiwari R, Southworth MR, Archdeacon P, Chakravarty A, Goulding M, Brown J, Fuller C, Toh D, Chrischilles E. Mini-Sentinel Prospective Routine Observational Monitoring Program Tools (PROMPT): Rivaroxaban Surveillance: Report of the Rivaroxaban Surveillance Wokrgroup. Available at: http://www.mini-sentinel.org/work_products/Assessments/Mini-Sentinel_PROMPT_Rivaroxaban-Surveillance-Plan.pdf.

10. **Nelson JC**, Boudreau D, Wellman R, Yu O, Cook AJ, Maro J, Ouellet-Hellstrom R, Floyd J, Heckbert S, Pinheiro S, Reichman R, Shoaibi A. (2015) Improving surveillance planning methods for routine assessments that use regression adjustment or weighting to control confounding: Report of the Working on Mini-Sentinel Prospective Routine Observational Monitoring Program Tools for Regression and Weighting Methods. Available at: http://www.mini-sentinel.org/methods/methods_development.

11. Razzaghi H, Meghani M, Pingali C, Crane B, Naleway A, Weintraub E, Kenigsberg TA, Lamias MJ, Irving SA, Kauffman TL, Vesco KK, Daley MF, DeSilva M, Donahue J, Getahun D, Glenn S, Hambidge SJ, Jackson L, Lipkind HS, **Nelson JC**, Zerbo O, Oduyebo T, Singleton JA, Patel SA. COVID-19 Vaccination Coverage Among Pregnant Women During Pregnancy - Eight Integrated Health Care Organizations, United States, December 14, 2020-May 8, 2021. *MMWR Morb Mortal Wkly Rep*. 2021 Jun 18;70(24): 895-899. PMID: 34138834; PMCID: PMC8220952.

12. Pingali C, Meghani M, Razzaghi H, Lamias MJ, Weintraub E, Kenigsberg TA, Klein NP, Lewis N, Fireman B, Zerbo O, Bartlett, J, Goddard K, Donahue J, Hanson K, Naleway A, Kharbanda EO, Yih WK, **Nelson JC**, Lewin BJ, Williams JTB, Glanz JM, Singleton JA, Patel SA (2021). COVID-19 Vaccination Coverage Among Insured Persons Aged ≥16 Years, by Race/Ethnicity and Other Selected Characteristics - Eight Integrated Health Care Organizations, United States, December 14, 2020-May 15, 2021. *MMWR. Morb Mortal Wkly Rep.* 2021 Jul 16;70(28), 985–990.

e) Submitted manuscripts

1. Bann M, Hazlehurst B, Carrell D, Bann M, Slaughter M, Cronkite D, Gruber S, **Nelson JC**, Ball R, Floyd J. A comparison of manual and automated approaches to developing computable algorithms for identifying acute pancreatitis.

2. Yu X, Zhai Y, Hazlehurst B, Williamson BD, Cai T, **Nelson JC**, Heagerty PJ, Shi X. Comparing medical code endorsement between healthcare systems using privacy-enhancing tests.

3. Shi X, Zhai Y, Yu X, Li X, Hazlehurst BL, Nyongesa DB, Sapp DS, Williamson BD, Carrell DS, Healy L, Cushing-Haugen KL, Wong J, Wang SV, Floyd JS, Shattuck K, McGown S, Alam S, Bright P, Hernández-Muñoz JJ, Li J, Ma Y, Stojanovic D, Raman SR, Davis SE, Cai T, **Nelson JC**, Heagerty PJ. Harmonizing Electronic Health Record Data Across FDA Sentinel Initiative Data Partners Using Privacy-Protecting Unsupervised Learning: Case Study and Lessons Learned

4. Denoble AE, Vazquez-Benitez G, Sheth SS, Ackerman CM, DeSilva MB, Zhu J, Daley MF, Getahun D, Klein NP, Vesco KK, Irving SA, **Nelson JC**, Williams JTB, Hambidge SJ, Donahue JG, Weintraub ES, Kharbanda EO, Lipkind HS. COVID-19 Vaccination and Stillbirth in the Vaccine Safety Datalink: A Case-Control Study.

5. Williams JTB, Kurlandsky K, Breslin K, Durfee J, Stein A, Shoup J, Reifler LM, Daley MF, Lewin B, Goddard K, Henninger ML, **Nelson JC**, Vasquez-Benitez G, Hanson KE, Fuller CC, Weintraub E, McNeil MM, Hambidge SJ. COVID-19 Vaccination Status and Attitudes among Pregnant and Recently Pregnant Vaccine Safety Datalink Members during the first Omicron Wave
6. Shaw PS, Gruber S, Williamson BD, Desai R, Shortreed SM, **Nelson JC**, van der laan MJ. A cautionary note for plasmode simulation studies in the setting of causal inference.
7. Hong Y, Williamson BD, **Nelson JC**. Performance of weakly-supervised electronic health record-based phenotyping methods in rare outcome settings.
8. Zhang G, Yu X, Li X, Williamson B, Wu Z, Mukherjee B, Cai T, Nelson JC, Heagerty P, Shi Z. Statistical methods to improve transportability of risk prediction models across heterogeneous electronic health record systems.
9. Gatto N, Dublin S, Ball R, Carrell DS, Cronkite DJ, Eniafe R, Desai R, Floyd JS, Lee T, Nelson JC, Shebl FM, Schoeplein R, Toh S, Wartko PD, Zhang M, Hernández-Muñoz JJ. A Systematic Process for Assessing Fitness-for-Purpose of Health Outcomes for Computable Phenotyping with Electronic Health Record Data.

8. Patents and Other Intellectual Property (not applicable)

9. Funding History

a) Funded projects

1. Multiple Principal Investigator (0.10 FTE): Sentinel Innovation Center Master Plan and Maintenance, 2019-2023. Funded by the FDA (Principal Investigator, Darren Toh, PhD; Harvard Medical School). Direct costs: $249,935.
2. Co-Investigator (0.35 FTE): Vaccine Safety Datalink Infrastructure Task Order, 2017-2022. Funded by the CDC (Principal Investigator, Lisa Jackson, MD, MPH). Direct costs: $2.3M.
3. Co-Investigator (0.10 FTE): Adult Changes in Thought (ACT) U19 Program, 2021-2026. Funded by the National Institute on Aging (Multiple Principal Investigators: Linda McEvoy, PhD; Paul Crane, MD; Andrea LaCroix PhD). Direct costs: $55M.
4. Task Order Co-Investigator (0.03 FTE): Empirical Application of the Sentinel EHR and Claims Data Partner Network to Address Active Risk Identification and Analysis (ARIA) Insufficient Inferential Requests, 2023-2024. Funded by the FDA (Task Order Principal Investigator, Sascha Dublin, MD, PhD; Sentinel Contract Principal Investigator: Darren Toh, PhD; Harvard Medical School). Direct costs: $420,000.
5. Task Order Co-Investigator (0.05 FTE): Sentinel Innovation Center Subset Calibration Methods, 2023-2024. Funded by the FDA (Task Order Principal Investigator, Pamela Shaw, PhD; Sentinel Contract Principal Investigator: Darren Toh, PhD; Harvard Medical School). Direct costs: $393,087.

b) Completed projects

1. Senior Statistician and Co-Investigator (0.25 FTE from 8/99-8/03): Cardiovascular Health Study Morbidity and Mortality Follow-up - Coordinating Center, 1/1/88-5/31/05. Funded by the National Heart Lung and Blood Institute (Principal Investigator, Richard Kronmal, PhD). Direct costs: $18,576,105.
2. Deputy Director and Co-Investigator (0.75 FTE 8/99-8/03): Subclinical Cardiovascular Disease Study – Coordinating Center (alternate name: Multi-Ethnic Study of Atherosclerosis, MESA), 1/15/99-8/14/09. Funded by the National Heart Lung and Blood Institute (Principal Investigator, Richard Kronmal, PhD). Direct costs: $11,699,997.

3. Co-Investigator (0.10 FTE): Impact of Introduction of Pneumococcal Conjugate Vaccine on Pneumonia in Adults, 10/1/2003-09/30/2005. Funded by the CDC (Principal Investigator, Lisa Jackson, MD, MPH). Direct costs: $169,763.
4. Principal Investigator (0.20 FTE): Review of Statistical Methods for Post-Marketing Medical Product Safety Surveillance, 9/19/2008-3/18/2009. Funded by the FDA. (Principal Investigator, Jennifer Nelson, PhD). Direct costs: $98,000.
5. Co-Investigator (0.10 FTE): Prospective Drug Safety Surveillance using Sequential Analytic Methods: Two Approaches for Confounding Adjustment, 8/1/09-12/31/09. Funded by Observational Medical Outcomes Partnership and the Foundation for the National Institutes of Health (Principal Investigator, Lingling Li, PhD; Harvard Medical School). Direct costs: $27,269.
6. Co-Investigator (0.05 FTE): Efforts to Develop the Sentinel Initiative (Protocol for Active Surveillance of Medical Product-Related Acute Myocardial Infarction task order), 4/1/2010-7/31/2011. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $14, 092.
7. Co-Investigator (0.20 FTE): Efforts to Develop the Sentinel Initiative (Sequential Testing Methods Development task order), 4/1/2010-7/31/2011. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $177,642.
8. Co-Investigator (0.05 FTE): Efforts to Develop the Sentinel Initiative (Case-Based Methods Development task order), 2/1/2010-2/28/2011. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School).
9. Co-Investigator (0.20 FTE): Efforts to Develop the Sentinel Initiative (Causal Inference and Sequential testing Methods Development task order), 1/1/2011-12/31/2011. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $170,000.
10. Consultant/Mentorship Advisory Committee (0.00 FTE): Pharmacoepidemiology in the elderly -- medications, pneumonia risk, and confounding. Career Development Award (9/15/2007-8/31/2013). Funded by the National Institute on Aging (Principal Investigator, Sascha Dublin, MD, PhD; Mentor, Eric Larson, MD, PhD). Direct costs: $800,000.
11. Co-Investigator and Methodology Chair (0.70 FTE): Vaccine Safety Datalink Project, 10/1/02-9/30/12. Funded by the CDC (Principal Investigator, Lisa Jackson, MD, MPH). Direct costs: $13,011,994
12. Co-Investigator (0.20 FTE): Efforts to Develop the Sentinel Initiative (Application of new sequential testing methods task order), 6/1/2012-5/31/2013. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $231,062.
13. Co-Investigator (0.10 FTE): Efforts to Develop the Sentinel Initiative (Two-phase sampling methods development task order), 9/1/2012-8/31/2013. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $148,157.
14. Co-Investigator (0.05 FTE): Vaccine Hesitancy Intervention—Provider, 7/2011-7/2013. Funded by the Group Health Foundation, Gates Foundation (Principal Investigator, David Grossman MD). Direct Costs: $799,871.
15. Task Order Principal Investigator (0.20 FTE): Efforts to Develop the Sentinel Initiative (Improvements to Prospective Routine Observational Monitoring Program Tools--PROMPT), 2/1/2014-8/31/2015. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $493,089.
16. Co-Investigator (0.10 FTE): Efforts to Develop the Sentinel Initiative (Safety signaling follow-up methods task order), 5/1/2015-10/31/2015. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $8,038.
17. Site Principal Investigator (0.05 FTE): Efforts to Develop the Sentinel Initiative (Joint IMEDS-Mini Sentinel methods task order), 9/30/2013-10/31/2014. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $33,381.

18. Site Principal Investigator (0.05 FTE): Efforts to Develop the Sentinel Initiative (Protocol for active surveillance of rivaroxaban task order), 9/23/2013-3/15/2015. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $13,732.
19. Site Principal Investigator and Methods Core Co-lead (0.25 FTE): Efforts to Develop the Sentinel Initiative (Mini-Sentinel Coordinating Center): 9/23/09-9/22/15. Funded by the FDA (Principal Investigator, Richard Platt, MD, MSc; Harvard Medical School). Direct costs: $1,143,180.
20. Co-Investigator (0.10 FTE): Efforts to Develop the Sentinel Initiative (Safety signaling methods for survival outcomes to control for confounding), 9/1/2013-1/31/2015. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $216,053.
21. Site PI and Co-Investigator (0.10 FTE): Efforts to Develop the Sentinel Initiative (Roadmap to evaluating the performance of Sentinel analytic modules using simulation experiments), 6/1/2015-12/31/2015. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $29,698.
22. Co-Investigator (0.10 FTE): Efforts to Develop the Sentinel Initiative (Protocol for Selected Medications and Sudden Death), 10/22/2013-2/21/2016. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $334,947.
23. Co-Investigator (0.10 FTE): Efforts to Develop the Sentinel Initiative (Comparison of safety signaling methods for survival outcomes to control for confounding, Phase 2), 5/1/2015-11/30/2016. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $281,486.
24. Site PI and Co-Investigator (0.10 FTE): Efforts to Develop the Sentinel Initiative (Evaluating the performance of Mini-Sentinel analytic modules using simulation experiments), 12/1/2015-6/30/2016. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $87,769.
25. Site PI and Co-Investigator (0.05 FTE): Efforts to Develop the Sentinel Initiative (FDA/Mini-Sentinel/IMEDS Sequential Surveillance White Paper), 4/2016-3/2017. Funded by the FDA (Principal Investigator, Richard Platt MD, MSc; Harvard Medical School). Direct costs: $150,000.
26. Co-Investigator (0.03 FTE): Racial/ethnic disparities in alcohol outcomes and health services, 9/2015 - 8/2017. Funded by the National Institute on Alcohol Abuse and Alcoholism (Principal Investigator: Joseph Glass, PhD; 1R03AA023639-01A1). Direct annual costs: $50,000.

27. Co-Investigator (0.10 FTE): Oral Health 4 Life: Integrating Oral Health Promotion & Tobacco Quitline Counseling, 8/1/2014-6/30/2018. Funded by the National Institute of Dental and Craniofacial Research (Principal Investigator: Jennifer McClure, PhD; 1U01DE024462-01) Direct costs: $1,692,537.
28. Co-Investigator (0.05 FTE): Vaccine Therapy and Evaluation Unit (VTEU), 2007-2017. Funded by the National Institute of Allergy and Infectious Diseases (Principal Investigator: Lisa Jackson, MD, MPH; HHSN272200800004C). Direct Costs: $19,180,401.
29. Site Principal Investigator (0.25 FTE): Coordinating Center for Opioids Post-Marketing Requirement Observational Study 1B, 9/1/16-1/31/19. Funded by the Campbell Alliance, Ltd (Principal Investigator, Mary Ann McBurnie, PhD; Kaiser Permanente Center for Health Research). Direct costs: $2.35M.
30. Site Principal Investigator and Methods Core Co-Lead (0.10 FTE): The Sentinel Initiative Coordinating Center: 9/23/15-9/22/19. Funded by the FDA (Principal Investigator, Richard Platt, MD, MSc; Harvard Medical School). Direct annual costs: ~$65,000.
31. Site Principal investigator (0.05 FTE): Shingrix vaccine surveillance, 2018-2019. Funded by GlaxoSmithKline (Principal Investigator, Jeff Brown ScD). Direct costs: $16,105.

32. Co-Investigator (0.05 FTE): Influenza Vaccine Effectiveness Center, 2016-2021. Funded by the CDC (Principal Investigator: Michael Jackson, PhD; U01IP001037). Direct Costs: $3,161,462.
33. Task Order Co-Principal Investigator (0.10 FTE): The Sentinel Operations Center Learning Phenotype Laboratory, Phase 1, 2018-2020. Funded by the FDA (Principal Investigator, Richard Platt, MD, MSc; Harvard Medical School). Direct costs: $424,991.
34. Task Order Co-Principal Investigator (0.10 FTE): The Sentinel Operations Center Learning Phenotype Laboratory, Phase 2: 2019-2021. Funded by the FDA (Principal Investigator, Richard Platt, MD, MSc; Harvard Medical School). Direct costs: $528,484.
35. Co-investigator (0.03 FTE): Adult Changes in Thought (ACT) U01 study. Funded by the National Institute on Aging (Principal Investigators, Eric Larson, MD and Paul Crane, MD). Direct costs: $10.3M.
36. Site Principal investigator (0.05 FTE): Enhancing Causal Inference in the Sentinel system: An Evaluation of Targeted Learning and Propensity Scores for Confounding Control in Drug Safety, 2020-2022. Funded by the FDA (Principal Investigator, Richard Platt, MD, MSc; Harvard Medical School). Direct costs: $21,692.
37. Task Order Co-Principal Investigator (0.10 FTE): The Sentinel Operations Center Learning Phenotype Laboratory, Phase 3, 2021-2023. Funded by the FDA (Principal Investigator, Richard Platt, MD, MSc; Harvard Medical School). Direct costs: $424,991.

c) Pending applications

Not applicable at this time.

10. Conferences and Symposiums

Like presentations grouped. *Denotes invited presentation

1. **Nelson JC.** A new descriptive method for exploring interrater variability in ordinal ratings. International Biometric Society (WNAR) Annual Meeting, San Diego, CA, July 1998.
2. **Nelson JC** and Pepe MS. Describing interrater variability in ordinal ratings. International Biometric Society (ENAR) Annual Meeting, Atlanta, GA, March 1999.
3. ***Nelson JC** and Pepe MS. A graphical methodology for describing interrater variability in ordinal assessments among many raters. Southern Methodist University, Dallas, TX, April 1999.
4. **Nelson JC**. Graphical description of interrater variability in ordinal data. Group Health Research Institute, Seattle, WA, June 2003.
5. **Nelson JC** and Pepe MS**.** Modeling and Estimating Interrater Variability in Ordinal Assessments Among Many Raters. International Biometric Society (WNAR) Annual Meeting, Fairbanks, AK, June 2005.
6. **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. 5th International Symposium on Pneumococci and Pneumococcal Diseases, Alice Springs, Central Australia, April 2006.
7. **Nelson, JC**, Jackson LA, Jackson ML, Weiss NS. Methodological issues and strategies to reduce bias in observational studies of influenza vaccination effectiveness in the elderly. Conference on Statistical Methods in Epidemiology and Observational Studies In Honor of Norman E. Breslow, Seattle, WA, August 2006.

8. **Nelson, JC**, Jackson ML, Weiss NS, Jackson LA. A method to assess bias in observational studies of influenza vaccination effectiveness in the elderly. Joint Statistical Meetings, Salt Lake City, UT July 2007.
9. Bittner RCL, **Nelson JC**. Use of propensity score calibration to reduce unmeasured confounding bias. University of Washington Biostatistics Retreat, Bainbridge Island, WA. September 2007.
10. **Nelson JC**. Strategies to reduce bias in estimates of influenza vaccine effectiveness in observational studies. Seattle Influenza Meetings, Seattle, WA, March 2008.
11. Zhao S, Cook AJ, **Nelson JC**. Statistical performance of group sequential methods for evaluating vaccine and drug safety. Joint Statistical Meetings, Denver, CO Aug 2008.
12. **Nelson JC**. Performance of Group Sequential Methods for Active Post-Licensure Medical Product Safety Surveillance Using Observational Health Care Databases. Poster presentation and Databases Special Interest Group award-winner at 28th International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Barcelona, Spain, August 23-26, 2012.
13. **Nelson JC**, Cook AC, Zhao S**.** Extending group sequential methods to observational medical product safety surveillance. Eastern North American Region of the International Biometrics Society Meetings, San Antonio TX; March 18, 2009.
14. ***Nelson, JC.** Design and analysis considerations for post-marketing vaccine safety surveillance studies. Pediatric Academic Societies Annual Meeting, Baltimore MD; May 2-5, 2009.
15. ***Nelson, JC.** Evaluation of existing methods for safety signal identification for the Sentinel Initiative. Food and Drug Administration CBER/CDER/CDRH Joint Rounds, Silver Spring MD; May 6, 2009.
16. ***Nelson JC**. Evaluation of existing methods for safety signal identification for the Sentinel Initiative. 2nd Annual Sentinel Initiative Public Workshop hosted by the Engelberg Center for Health Care Reform at Brookings. Washington D.C.; January 11, 2010.
17. ***Nelson JC**. Signal Detection Methods for Active Post-Licensure Safety Surveillance. Think Tank: Methods, Tools, and Scientific Operations for The Sentinel Network, Engelberg Center for Health Care Reform at Brookings (convened in collaboration with the Centers for Educations and Research on Therapeutics (CERTs); Washington D.C.; May 7, 2009.
18. ***Nelson JC.** Discussion of Statistical Methods for Drug Safety Surveillance Using Electronic Health Care Databases. Joint Statistical Meetings, Vancouver BC; August 1, 2010**.**
19. ***Nelson JC.** Sequential methods for observational post-licensure medical product safety surveillance. Third International Workshop in Sequential Methodologies, Stanford University, Palo Alto, CA; June 13-15, 2011.
20. **Nelson JC**, Cook AC, Yu O, Zhao S, Jackson LA**.** Challenges in designing a sequentially-monitored observational study of post-licensure vaccine safety. Western North American Region of the International Biometrics Society Meetings, Seattle WA; June 21, 2010.
21. **Nelson JC**, Cook AC, Yu O, Zhao S, Jackson LA**.** Challenges in designing a sequentially-monitored observational study of post-licensure vaccine safety. International Biometrics Society Meetings, Florianopolis, Santa Catarina, Brazil; December 10, 2010.
22. **Nelson JC**. Challenges in conducting sequentially monitored medical product safety studies using electronic health care utilization data. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Chicago IL; August 16, 2011.
23. ***Nelson JC.** The Vaccine Safety Datalink's near real-time safety surveillance system and challenges in designing sequentially-monitored vaccine safety studies. International Workshop in Pharmacoepidemiology and Biostatistics sponsored by the University of Washington, Group Health Research Institute, Institute of Basic Research in Clinical Medicine, China Academy of Chinese Medical Sciences, and VA Seattle Medical Center; Seattle, WA; December 2-4, 2011.

24. ***Nelson JC.** An overview of methodological challenges in the U.S. FDA and CDC postmarket active surveillance systems. The First International Workshop on Safety Surveillance of Post-market Chinese Medicine Injection. China Academy of Chinese Medical Sciences, Bejing, China; April 7-8, 2012.

25. ***Nelson JC**. Challenges in the design and analysis of sequentially-monitored postmarket safety surveillance evaluations using electronic observational health care data. Presentation at the 33rd International Society for Clinical Biostatistics, Bergen, Norway, August 19-23, 2012

26. ***Nelson JC.** Methodological challenges for sequential medical product safety surveillance using observational healthcare data. Department of Biostatistics and Epidemiology, Perelman School of Medicine, University of Pennsylvania. Philadelphia, PA. May 9, 2013.

27. ***Nelson JC** and Cook AJ**.** Methodological challenges in conducting post-licensure drug and vaccine safety surveillance using large electronic healthcare databases. Biostatistics and Biomathematics Program, Public Health Sciences Division, Fred Hutchinson Cancer Research Center. Seattle, WA, January 29, 2014.

28. ***Nelson JC.** Methodological challenges in conducting post-licensure drug and vaccine safety surveillance using large electronic healthcare databases. Department of Statistics, University of Washington. Seattle, WA, April 14, 2014.

29. ***Nelson JC.** Challenges in using large electronic healthcare databases to conduct post-licensure drug and vaccine safety surveillance. Data Management Association of Puget Sound Spring 2014 Conference, Seattle, WA, May 14, 2014.

30. ***Nelson JC.** Methodological challenges in conducting post-licensure drug and vaccine safety surveillance using large electronic healthcare databases. DIA (Develop, Innovate, Advance)/FDA Statistics 2015 Forum, Bethesda, MD, April 20, 2015.

31. ***Nelson JC**. Statistical challenges in post-market drug and vaccine safety surveillance using electronic health records. Central European Network of the International Biometric Society's (CEN-IBS) Joint Conference on Biometrics & Biopharmaceutical Statistics, Vienna, Austria, August 28 – September 1, 2017.

32. ***Nelson JC**, Schneeweiss S. Expert Workshop: Setting priorities for methods research and development for active medical product surveillance hosted by the Engelberg Center for Health Care Reform at Brookings. Washington D.C.; June 3, 2011.

33. **Nelson JC**. Developing better evidence on medical product safety: FDA's Mini-Sentinel Program, Methodological Activities and Highlights. AcademyHealth Annual Research Meeting, Seattle WA; June 13, 2011.

34. ***Nelson JC**. Exploring the use of validation sample methods to reduce confounding bias in health care database estimates of influenza vaccination effectiveness in seniors. 4th Comparative Effectiveness Research Symposium "From Efficacy to Effectiveness". Presentation at the AHRQ DEcIDE Methods Symposium. Rockville, MD. June 12-13, 2012.

35. ***Marsh T, Nelson JC**. Validation sampling to reduce bias in healthcare database studies. 29th International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Montreal, Canada, August 25-28, 2013.

36. ***Nelson JC**. Expert Workshop: "Overcoming the Statistical Challenges to the Reuse of Data within the Mini-Sentinel Distributed Database" hosted by the Engelberg Center for Health Care Reform at Brookings. Washington D.C.; September 5, 2012.

37. ***Nelson JC** and Madigan D. Collaborations supporting active surveillance research. Fifth Annual Sentinel Initiative Public Workshop hosted by the Engelberg Center for Health Care Reform at Brookings. Washington D.C.; January 31, 2013.

38. ***Nelson JC** and Cook AJ. Overview of distributed data methods and analyses within the HMO Research Network. Patient Centered Outcomes Research Institute (PCORI) Workshop: Distributed Analysis in Healthcare Data Networks. Washington D.C.; December 4, 2014.

39. ***Nelson JC**. Group sequential methods for vaccine pharmacovigilance. Methods for evaluating vaccine effectiveness and safety satellite workshop. Sydney, Australia; October 28, 2014.
40. ***Nelson JC**. Overview of systems for active post-marketing medical product surveillance in the USA. Keynote address at the Vaccine safety seminar on active surveillance for adverse events following immunization, hosted by the National Centre for Immunisation Research & Surveillance, Sydney, Australia; October 29, 2014.
41. ***Nelson JC**. Using large healthcare databases in the USA to assess vaccine safety. Keynote address at the Vaccine safety seminar on active surveillance for adverse events following immunization, hosted by the National Centre for Immunisation Research & Surveillance, Sydney, Australia; October 29, 2014.
42. ***Nelson JC**, Cook AJ, and Heagerty P. The role of health care data analytics in health policy decision-making. Invited Speaker Luncheon, Section on Health Policy Statistics, Joint Statistical Meetings, Seattle WA, August 13, 2015.
43. **Nelson JC**. Adapting group sequential methods to observational drug and vaccine safety surveillance studies that use large electronic healthcare databases. Joint Statistical Meetings, Seattle WA, August 13, 2015.
44. ***Nelson JC.** Precision medicine and the role of big data. Roundtable: From personalized medicine to population health – maximizing the value of data, America's Health Insurance Plans, Washington D.C., December 3, 2015.
45. ***Nelson JC.** Generating policy-relevant statistical evidence in sequentially monitored vaccine and drug safety evaluations using electronic health record data. Joint Statistical Meetings, Chicago, IL, August 4, 2016.
46. ***Nelson JC.** Connecting the data to the science: A biostatistician's role in advancing drug safety knowledge. 2nd Seattle Symposium in Health Care Data Analytics, Seattle WA, October 25, 2016.
47. ***Nelson JC.** Timely quantification of policy-relevant vaccine and drug safety evidence: What can we achieve using electronic health care data networks? Conference on risk modeling, management, and mitigation in health sciences, Centre de recherches mathématiques, Université de Montréal, December 11-13, 2017
48. ***Nelson JC**. Use of propensity score methods in multi-site safety data networks: current practice and challenges. ASA's International Conference on Health Policy Statistics, Charleston SC, January 10-12, 2018.
49. ***Nelson JC**. The role of electronic health record data in vaccine policy decisions. Clinical Trials Affinity Group (CTAG), Fred Hutchinson Cancer Research Center, Seattle WA, March 26, 2018.
50. ***Nelson JC.** Statistical considerations in multi-site vaccine safety evaluations. Stakeholder meeting on Maternal Interventions Vigilance Harmonization in Low & Middle income countries (Bill & Melinda Gates foundation), Amsterdam, The Netherlands, May 1-2, 2018.
51. ***Nelson JC.** Real-world biostatics: perspectives from an alum. University of Washington, Department of Biostatistics Colloquium, Seattle WA, November 8, 2018.
52. ***Nelson JC.** Sequential surveillance in the Vaccine Safety Datalink: Interim analysis results for a recombinant Zoster vaccine. Advisory Committee on Immunization Practices, Zoster Working Group, February 11, 2019.
53. ***Nelson JC.** How big data can lead to safer drugs and vaccines. World Vaccine Congress 2019, Washington DC, April 14-15, 2019.
54. ***Nelson JC.** Challenges for randomized trial-based sequential methods in real-world settings. American College of Epidemiology Annual Meeting, Pasadena CA, September 9, 2019.
55. ***Nelson JC.** Sequential design and analysis considerations when using electronic health care data to rapidly quantify new vaccine safety evidence. 13th Vaccine Congress, Bangkok, Thailand, September 15-18, 2019.

56. ***Nelson JC.** University of Washington biostatistics students and alums making an impact in drug and vaccine safety science. University of Washington, Department of Biostatistics Seminar (for prospective student visit days), Seattle WA, February 27, 2020.
57. ***Nelson JC.** Precision health in the age of data science: Learning from observational data (invited panelist). Sixth Seattle Symposium in Biostatistics, University of Washington, Department of Biostatistics, Seattle WA, November 21-23, 2020.
58. ***Nelson JC**. Real-World Evidence (RWE) study estimands (invited discussant). Forum on the Integration of Observational and Randomized Data (FIORD), Washington D.C., November 6-7, 2023.
59. ***Nelson JC.** Linked-claims EHR data: Sentinel System's efforts at improving causal inference & broadening queries. 15th Annual Sentinel Initiative Public Workshop, Washington D.C., November 8, 2023.
60. ***Nelson JC**. Statistical methods for improving post-licensure vaccine safety surveillance. FDA-CBER Biologics Effectiveness and Safety (BEST) virtual seminar series, November 20, 2024.
61. ***Nelson JC**. Statistical methods for improving post-licensure vaccine safety surveillance. Department of Biostatistics and Medical Informatics at UW-Madison, November 22, 2024.

11. Professionally-Related Community Service (not applicable)

12. Teaching History

a) Formal courses

Biostatistics 511: Medical Biometry I, Department of Biostatistics, University of Washington, Seattle, WA, Teaching Assistant, Summer 1996.
Biostatistics 511: Medical Biometry I, Department of Biostatistics, University of Washington, Seattle, WA, Teaching Assistant, Summer 1997.
Using Electronic Healthcare Data for Comparative Safety and Effectiveness Research, Summer Institute in Statistics for Clinical Research, Department of Biostatistics, University of Washington, Seattle, WA, Instructor, June 27, 2014.

b) Other teaching

Epidemiology 533: Pharmacoepidemiology, Department of Epidemiology, University of Washington, Seattle, WA, Guest Lecturer on Methods for post-licensure medical product safety surveillance, May 17, 2010.
Epidemiology 533: Pharmacoepidemiology, Department of Epidemiology, University of Washington, Seattle, WA, Guest Lecturer on Methods for post-licensure medical product safety surveillance, April 30, 2012.
Epidemiology 533: Pharmacoepidemiology, Department of Epidemiology, University of Washington, Seattle, WA, Guest Lecturer on Methods for post-licensure medical product safety surveillance, April 21, 2014.
Epidemiology 533: Pharmacoepidemiology, Department of Epidemiology, University of Washington, Seattle, WA, Guest Lecturer on Methods for post-licensure medical product safety surveillance, April 20, 2016.

Epidemiology 533: Pharmacoepidemiology, Department of Epidemiology, University of Washington, Seattle, WA, Guest Lecturer on Methods for post-licensure medical product safety surveillance, May 9, 2018.

Epidemiology 533: Pharmacoepidemiology, Department of Epidemiology, University of Washington, Seattle, WA, Guest Lecturer on Methods for post-licensure medical product safety surveillance, April 1, 2020.

Epidemiology 533: Pharmacoepidemiology, Department of Epidemiology, University of Washington, Seattle, WA, Guest Lecturer on Methods for post-licensure medical product safety surveillance, March 30, 2022.

Epidemiology 533: Pharmacoepidemiology, Department of Epidemiology, University of Washington, Seattle, WA, Guest Lecturer on Methods for post-licensure medical product safety surveillance, April 4, 2024.

c) Independent study and reading

2006	Rachel Bittner, Department of Biostatistics, University of Washington, Seattle WA
2011	Kelly Stratton, Department of Biostatistics, University of Washington, Seattle WA
2020	Iris Emerman, Department of Biostatistics, University of Washington, Seattle WA
2024	Matthew Peng, Department of Statistics, University of Washington, Seattle WA
2024	Charlotte Hong, Department of Biostatistics, University of Washington, Seattle WA

13. Advising and Formal Mentoring

a) Master's theses, chair

2006-2007   Rachel Bittner, Chair Master's Thesis Committee
Department of Biostatistics, University of Washington, Seattle WA
2011-2012   Kelly Stratton, Co-Chair Master's Thesis Committee
Department of Biostatistics, University of Washington, Seattle WA
2020-2021   Iris Emerman, Chair Master's Thesis Committee
Department of Biostatistics, University of Washington, Seattle WA

b) Mentored scientists and postdocs

2004-2007   Sascha Dublin, Member of K-award Postdoctoral Fellowship Advisory Board
Health Services Research & Development, VA Puget Sound, Seattle, WA
2000-2003   Melissa Anderson, Research Scientist Supervisor
Department of Biostatistics, University of Washington, Seattle, WA
2001-2003   Do Peterson, Research Scientist Supervisor
Department of Biostatistics, University of Washington, Seattle, WA
2003-2017   Onchee Yu, MS Collaborative Biostatistician Supervisor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA
2009-2017   Laura Ichikawa, MS Collaborative Biostatistician Supervisor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA
2009-2014   Do Peterson, MS Collaborative Biostatistician Supervisor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA

2014-2018   Melissa Anderson, MS Collaborative Biostatistician Supervisor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA

2015-present   Jennifer Bobb, PhD Investigator Biostatistician Supervisor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA

2015-2016   Fei Wan, PhD Investigator Biostatistician Supervisor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA

2016-2020   Yates Coley, PhD Investigator Biostatistician Supervisor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA

2018-2019   Roberta De Vito, PhD Postdoctoral Research Fellow, Princeton University, Princeton NJ (part of ASA's Statistics in Epidemiology Mentoring Program)

2018-2020   Eric Johnson, MS Collaborative Biostatistician Supervisor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA

2019-present   Maricela Cruz, PhD Investigator Biostatistician Primary Mentor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA

2019-present   Yu-Ru Su, PhD Investigator Biostatistician Supervisor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA

2020-present   Rod Walker, MS Collaborative Biostatistician Supervisor
Biostatistics Unit, Kaiser Permanente Washington Health Research Institute, Seattle, WA

c) Master's and PhD committee in non-chair role

2004-2007   Michael Jackson, Member of Doctoral Dissertation Committee
Department of Epidemiology, University of Washington, Seattle, WA

2017-2018   Katherine Tan, Reading Committee Member for Doctoral Dissertation
Department of Biostatistics, University of Washington, Seattle, WA

2019-2022   Ernesto Ulloa, Reading Committee Member for Doctoral Dissertation
Department of Biostatistics, University of Washington, Seattle, WA

2020-present   Lola Arakaki, Committee Member for Doctoral Dissertation
Department of Epidemiology, University of Washington, Seattle, WA

2023-present   Graham Crawbuck, Committee Member for Doctoral Dissertation
Department of Epidemiology, University of Washington, Seattle, WA

d) Other mentoring

2005-2006   Kenneth Wu, Graduate Research Assistantship Supervisor
Department of Biostatistics, University of Washington, Seattle, WA

2006-2007   Rachel Bittner, Graduate Research Assistantship Supervisor
Department of Biostatistics, University of Washington, Seattle, WA

2007   Tanya Granston, Graduate Research Assistantship Supervisor
Department of Biostatistics, University of Washington, Seattle, WA

2007-2010   Shanshan Zhao, Graduate Research Assistantship Supervisor
Department of Biostatistics, University of Washington, Seattle, WA

2009-2011   Clara Dominguez-Islas, Graduate Research Assistantship Supervisor

Department of Biostatistics, University of Washington, Seattle, WA
2011-2013   Kelly Stratton, Graduate Research Assistantship Supervisor
Department of Biostatistics, University of Washington, Seattle, WA
2015-2022   Ernesto Ulloa, Graduate Research Assistantship Supervisor
Department of Biostatistics, University of Washington, Seattle, WA
2017-2019   Chloe Krakauer, Graduate Research Assistantship Supervisor
Department of Biostatistics, University of Washington, Seattle, WA

e) Academic Advising

2008-2009   Karen Liu, Graduate Academic Advisor
Department of Biostatistics, University of Washington, Seattle, WA
2009-2013   Alison Kosel, Graduate Academic Advisor
Department of Biostatistics, University of Washington, Seattle, WA
2010-2014   Tracey Marsh, Graduate Academic Advisor
Department of Biostatistics, University of Washington, Seattle, WA