

Michael L. Jackson, PhD, MPH

Curriculum Vitae

10th June 2019

Associate Scientific Investigator
Kaiser Permanente Washington Health Research Institute
1730 Minor Ave, Suite 1600, Seattle WA, 98101
(206) 287-2220
Michael.L.Jackson@kp.org

Education

PhD Epidemiology. University of Washington, School of Public Health and Community Medicine 2007

MPH Epidemiology. University of Washington, School of Public Health and Community Medicine. 2004

BA Biological Sciences. Cornell University College of Arts and Sciences. 1998

Professional Positions

2015-present	Associate Scientific Investigator Kaiser Permanente Washington Health Research Institute
2012-present	Affiliate Assistant Professor University of Washington, School of Public Health
2010-2015	Assistant Scientific Investigator Kaiser Permanente Washington Health Research Institute
2008-2010	Epidemic Intelligence Service Officer Centers for Disease Control and Prevention
2007-2008	Postdoctoral Fellow Group Health Center for Health Studies
2002-2007	Graduate Research Associate Group Health Center for Health Studies
2004-2006	Epidemiologist, Public Health- Seattle & King County
2003	Intern, Public Health- Seattle & King County
1999-2002	Laboratory Technician, Baker Institute, Cornell University

Honors and Awards

2015 Nakano Citation: "Childhood vaccines and Kawasaki disease, Vaccine Safety Datalink, 1996-2006." Abrams JY et al; Vaccine 2015;33:382-7

2009 J. Virgil Peavy Award, innovative use of statistics in an epidemiologic investigation. Epidemic Intelligence Service Annual Conference, Atlanta 2009

2004 Outstanding Student in Epidemiology, School of Public Health and Community Medicine, University of Washington

1998 Graduated with distinction in all subjects, College of Arts and Sciences, Cornell University

Professional Society Memberships

Society for Epidemiologic Research

International Society for Influenza and other Respiratory Virus Diseases

Papers Published in Peer-Reviewed Journals

1. Burton-Wurster N, Chen H, Gendelman R, **Jackson ML**, Gagliardo LF, Gu da N, Zelko RR, Lust G, and MacLeod JN. "Specific immunological detection of the (V+C)(-) fibronectin isoform." *Matrix Biology* 2002; 21(5):393-8.
2. **Jackson ML**, Neuzil KM, Thompson WW, Shay DK, Yu O, Hanson CA, Jackson LA. "The burden of community-acquired pneumonia in seniors: results of a population based study." *Clin Infect Dis* 2004. 39(11):1642-50.
3. Jackson LA, **Jackson ML**, Nelson JC, Neuzil KM, Weiss NS. "Evidence of bias in estimates of influenza vaccine effectiveness in seniors." *Int J Epidem* 2006; 35(2):337-44
4. **Jackson ML**, Baer A, Painter I, Duchin J. "A simulation study comparing aberration detection algorithms for syndromic surveillance." *BMC Med Inform Decision Making* 2007; 7:6
5. **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." *Pharmacoepepi Drug Safety* 2007; 16:790-6
6. **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(9639):398-405
7. 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(38): 4947-54
8. Nelson JC, **Jackson ML**, Weiss NS, Jackson LA. "New strategies are needed to improve the accuracy of influenza vaccine effectiveness estimates among seniors." *J Clin Epidem* 2009; 62(7):687-94
9. **Jackson ML**, Nelson JC, Jackson LA. "Risk Factors for Community-Acquired Pneumonia in Immunocompetent Seniors." *J Am Geriat Soc* 2009; 57(5): 882-8
10. **Jackson ML**. "Confounding by season in ecologic studies of seasonal exposures and outcomes: examples from estimates of mortality due to influenza." *Ann Epidem* 2009; 19(10): 681-91

Papers Published in Peer-Reviewed Journals, continued

11. Dublin S, **Jackson ML**, Nelson JC, Weiss NS, Larson E, Jackson L. "Statin use and risk of community-acquired pneumonia in the elderly: results of a population-based case-control study." *BMJ* 2009; 338: b2137
12. France AM, **Jackson M**, Schrag S, Lynch M, Zimmerman C, Biggerstaff M, Hadler J. "Household transmission of 2009 influenza A (H1N1) virus after a school-based outbreak in New York City, April–May 2009." *J Infect Dis* 2010; 201(7): 984-92
13. Dublin S, Walker RL, **Jackson ML**, Nelson JC, Weiss NS, Jackson LA. "Use of proton pump inhibitors and H2 blockers and risk of pneumonia in older adults: a population-based case-control study." *Pharmacoepi Drug Safety* 2010; 19(8):792-802
14. Donnelly CA, Finelli L, Cauchemez S, Olsen SJ, Doshi S, **Jackson ML**, et al. "Serial intervals and the temporal distribution of secondary infections within households of 2009 pandemic influenza A (H1N1) — Implications for influenza control recommendations." *Clin Infect Dis* 2011; 52(S1):S123-30
15. Iuliano AD, Dawood FS, Silk BJ, Bhattarai A, Copeland D, Doshi S, Fagan R, Hoffman AMF, **Jackson ML**, Kennedy E, Loustalot F, Mitchell T, Finnelli L. "Investigating 2009 pandemic influenza A (H1N1) in US schools: what have we learned?" *Clin Infect Dis* 2011; 52(S1): S161-7
16. **Jackson ML**, Nelson JC, Jackson LA. "Why Do Covariates Defined by International Classification of Diseases (ICD) Codes Fail to Remove Confounding in Pharmacoepidemiologic Studies Among Seniors?" *Pharmacoepi Drug Safety* 2011; 20(8):858-65
17. Lowther SA, Shindoa N, Juni BA, Theodore MJ, Wang X, Jawahir SL, **Jackson ML**, et al. "*Haemophilus influenzae* type b infection, vaccination, and *H. influenzae* carriage among children in Minnesota, 2008–2009." *Epidem Infect* 2011; 18:1-9
18. **Jackson ML**, France AM, Hancock K, Lu X, Veguilla V, Sun H, Liu F, Hadler J, Harcourt BH, Esposito DH, Zimmerman CM, Katz JM, Fry AM, Schrag SJ. "Serologically confirmed household transmission of 2009 pandemic influenza A (H1N1) virus during the first pandemic wave — New York City, April–May 2009." *Clin Infect Dis* 2011; 53(5):455-62
19. Dublin S, Walker RL, **Jackson ML**, Nelson JC, Von Korff M, Weiss NS, Jackson LA. "Use of Opioids or Benzodiazepines and Risk of Pneumonia in Older Adults: a Population-Based Case-Control Study". *J Am Geriatr Soc* 2011; 59(10):1899-907
20. Thomas JD, **Jackson ML**, Sharma D, Mair R, Bach MC, Castillo D, et al. "*Haemophilus influenzae* type b carriage among young children in Metropolitan Atlanta in the context of a vaccine shortage and booster dose deferral". *Clin Vaccine Immunol* 2011; 18(12):2178-80

Papers Published in Peer-Reviewed Journals, continued

21. **Jackson ML**, Rose CD, Cohn A, Coronado F, Clark TA, Wenger JD, et al. "Modeling insights into *Haemophilus influenzae* type b disease, transmission, and vaccine programs." *Emerg Infect Dis* 2012; 18(1): 13-20
22. Mandal S, Tatti K, Woods-Stout D, Cassiday P, Faulkner A, Griffith M, **Jackson ML**, et al. "Pertussis pseudo-outbreak linked to specimens contaminated by *Bordatella pertussis* DNA from clinic surfaces". *Pediatr* 2012; 129(2):e424-30
23. Green SK, Shay DK, Yin R, McCarthy NL, Baxter R, **Jackson ML**, et al. "Patterns in influenza antiviral medication use before and during the 2009 H1N1 pandemic, Vaccine Safety Datalink Project, 2000–2010". *Influenza Other Resp Viruses* 2012; 6(6):e143-51
24. Dublin S, Walker RL, **Jackson ML**, Nelson JC, Weiss NS, Jackson LA. "Angiotensin-converting enzyme inhibitor use and pneumonia risk in community-dwelling older adults: results from a population-based case-control study." *Pharmacoepi Drug Safety* 2012; 21(11):1173-82
25. Briere EC, **Jackson ML**, Shah SG, Cohn AC, Anderson RD, MacNeil JR, et al. "*Haemophilus influenzae* type b disease and vaccine booster dose deferral, United States, 1998–2009." *Pediatr* 2012; 130(3):414-20
26. Greene SK, Li L, Shay DK, Fry AM, Lee GM, Jacobsen SJ, Baxter R, Irving SA, **Jackson ML**, et al. "Risk of adverse events following oseltamivir treatment in influenza outpatients, Vaccine Safety Datalink Project, 2007–2010. *Pharmacoepi Drug Safety* 2013; 22(4):335-44
27. Hwang M, Shrestha A, Yazzie S, **Jackson M**. "Preterm birth among American Indian/Alaskan Natives in Washington and Montana: Comparison with Non-Hispanic Whites." *Mat Child Health J* 2013; 17(10):1908-12
28. Dublin S, Baldwin E, Walker RL, Christensen LM, Huang PJ, **Jackson ML**, et al. "Natural language processing to identify pneumonia from radiology reports." *Pharmacoepi Drug Safety* 2013; 22(8):834-41
29. Nelson JC, Marsh T, 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 Suppl):S110-21
30. McCarthy NL, Weintraub E, Vellozzi C, Duffy J, Gee J, Donahue JG, **Jackson ML**, et al. "Mortality rates and cause of death patterns in a vaccinated population." *Am J Prev Med* 2013; 45(1): 91-97
31. **Jackson ML**, Nelson JC. "The test-negative design for estimating influenza vaccine effectiveness." *Vaccine* 2013; 31(17):2165-8
32. **Jackson ML**. "Challenges in comparing the safety of different vaccination schedules." *Vaccine* 2013; 31(17):2126-9

Papers Published in Peer-Reviewed Journals, continued

33. Tartof S, Cohn A, Tarbangdo F, Djingarey MH, Messonnier N, Clark TA, Kambou JL, Novak R, Diomande FVK, Medah I, **Jackson ML**. "Identifying optimal vaccination strategies for serogroup A *Neisseria meningitidis* conjugate vaccine in the African meningitis belt." *PLoS One* 2013; 8(5):e63605
34. **Jackson ML**, Yu O, Nelson JC, Naleway A, Belongia EA, Baxter R, et al. "Further evidence for bias in observational studies of influenza vaccine effectiveness: the 2009 influenza A(H1N1) pandemic". *Am J Epidemiol* 2013; 178(8):1327-36
35. Green SK, Rett MD, Vellozzi C, Kulldorff M, Marcy SM, Daley MF, Belongia EA, Baxter R, Fireman BH, **Jackson ML**, et al. "Guillain-Barré Syndrome, influenza vaccination, and antecedent respiratory and gastrointestinal infections: a case-centered analysis in the Vaccine Safety Datalink, 2009-2011." *PLoS One* 2013; 8(6):e67185
36. **Jackson ML**, Henrikson NB, Grossman DC. "Evaluating Washington State's Immunization Information System as a research tool." *Academ Pediatr* 2014; 14(1):71-6
37. Ohmit SE, Thompson MG, Petrie JG, Thaker SN, **Jackson ML**, Belongia EA, et al. "Influenza vaccine effectiveness in the 2011-2012 season: protection against each circulating virus and the effect of prior vaccination on estimates." *Clin Infect Dis* 2014; 58(3):319-27
38. Havers F, Thaker S, Clippard JR, **Jackson M**, Mclean H, Monto AM, et al. "Use of influenza antiviral agents by ambulatory care clinicians during the 2012-13 influenza season." *Clin Infect Dis* 2014; 59(6):774-82
39. Kharbanda EO, Vazquez-Benitez G, Lipkind HS, Klein NP, Cheetham TC, Naleway A, Omer SB, Hambidge SJ, Lee GM, **Jackson ML**, et al. "Association of maternal pertussis vaccination with obstetric events and birth outcomes." *JAMA* 2014; 312(18):1897-904
40. McLean HQ, Thompson MG, Sundaram ME, Kieke BA, Gaglani M, Zimmerman RK, Norwalk MP, **Jackson ML**, et al. "Influenza vaccine effectiveness in the United States during 2012-13: Variable protection by age and virus type." *J Infect Dis* 2015; 211(10):1529-40
41. Abrams JY, Weintraub ES, Baggs JM, McCarthy NL, Schonberger LB, Lee GM, Klein NP, Belongia EA, **Jackson ML**, et al. "Childhood vaccines and Kawasaki disease, Vaccine Safety Datalink, 1996-2006." *Vaccine* 2015; 33(2):382-7 [**Charles C. Shepard Science Award for Data Methods and Study Design, CDC**]
42. **Jackson ML**, Peterson D, Nelson JC, Greene SK, Jacobsen SJ, Belongia EA, et al. "Using winter 2009-2010 to assess the accuracy of methods which estimate influenza-related morbidity and mortality." *Epidemiol Infect* 2015; 143(11):2399-407

Papers Published in Peer-Reviewed Journals, continued

43. **Jackson ML**, Rothman KJ. "Effects of imperfect test sensitivity and specificity on observational studies of influenza vaccine effectiveness." *Vaccine* 2015; 33(11):1313-6
44. Havers FP, Flannery B, Clippard JR, Gaglani M, Zimmerman RK, Jackson LA, Petrie JG, McLean HQ, Nowalk MP, **Jackson ML**, et al. "Use of antiviral medications among outpatients at high risk for influenza-associated complications during the 2013-14 influenza season." *Clin Infect Dis* 2015; 60(11):1677-80
45. **Jackson ML**, Jackson LA, Kieke B, McClure D, Gaglani M, Murthy K, et al. "Incidence of medically attended influenza infection and cases averted by vaccination, 2011/2012 and 2012/2013 influenza seasons." *Vaccine* 2015; 33(39):5181-7
46. Sukumaran L, McCarthy NL, Kharbanda EO, McNeil MM, Naleway AL, Klein NP, **Jackson ML**, et al. "Association of tetanus, diphtheria, and acellular pertussis (Tdap) vaccination with acute events and adverse birth outcomes among pregnant women with prior tetanus-containing immunizations." *JAMA* 2015; 314(15):1581-7
47. Glanz JM, Newcomer SR, Daley MF, McClure DL, Baxter RP, **Jackson ML**, et al. "Cumulative and episodic vaccine aluminum exposure in a population-based cohort of young children." *Vaccine* 2015; 33(48):6736-44
48. **Jackson ML**, Nguyen M, Kirilin B, Madziwa L. "Self-collected nasal swabs for respiratory virus surveillance." *Open Forum Infect Dis* 2015; 2(4):ofv152
49. Sukumaran L, McCarthy NL, Kharbanda EO, Weintraub E, Vazquez-Benitez G, McNeil MM, Li R, Klein NP, Hambidge SJ, Naleway AL, Lugg MM, **Jackson ML**, et al. "Safety of tetanus, diphtheria, and acellular pertussis and influenza vaccination in pregnancy." *Obstet Gynec* 2015; 126(5):1069-74
50. **Jackson ML**, Bellamy A, Wolff M, Hill H, Jackson LA. "Low-dose aspirin use does not diminish the immune response to monovalent H1N1 influenza vaccine in older adults." *Epidem Infect* 2016; 144(4):768-71
51. Spencer S, Clippard J, Thompson M, Piedra T, Jewell A, Avadhanula V, Mei M, **Jackson ML**, et al. "Factors associated with real time RT-PCR cycle threshold values among medically attended influenza episodes." *J Med Virol* 2016; 88:719-23
52. Gaglani M, Pruszynski J, Murthy K, Clipper L, Robertson A, Reis M, Chung JR, Piedra PA, Avadhanula V, Nowalk MP, Zimmerman RK, **Jackson ML**, et al. "Influenza vaccine effectiveness against the 2009 pandemic A (H1N1) virus differed by vaccine type during 2013-14 in the United States." *J Infect Dis* 2016; 213(10):1546-56
53. Chung JR, Flannery B, Thompson MG, Gaglani M, **Jackson ML**, Monto AS, et al. "Seasonal effectiveness of live attenuated and inactivated influenza vaccine." *Pediatr* 2016; 137(2):e20153279

Papers Published in Peer-Reviewed Journals, continued

54. Thompson MG, Clippard J, Petrie JG, **Jackson ML**, McLean HQ, Gaglani M, et al. "Influenza vaccine effectiveness for fully and partially vaccinated children 6 months to 8 years old during 2011-12 and 2012-13: The importance of two priming doses." *Ped Infect Dis J* 2016; 35(3):299-308
55. Petrie JG, Cheng C, Malosh RE, VanWormer JJ, Flannery B, Zimmerman RK, Gaglani M, **Jackson ML**, et al. "Illness severity and work productivity loss among working adults with medically-attended acute respiratory illnesses: US Influenza Vaccine Effectiveness Network 2012-2013." *Clin Infect Dis* 2016; 62(4):448-55
56. **Jackson ML**, Walker R, Lee S, Larson E, Dublin S. "Predicting two-year risk of developing pneumonia in older adults without dementia." *J Am Geriatr Soc* 2016; 64(7):1439-47
57. Kharbanda EO, Vazquez-Benitez G, Lipkind HS, Klein NP, Cheetham C, Naleway AL, Lee GM, Hambidge S, **Jackson ML**, et al. "Maternal Tdap vaccination: Coverage and acute safety outcomes in the Vaccine Safety Datalink, 2007-2013." *Vaccine* 2016; 34(7):L968-73
58. Glanz JM, Newcomer SR, **Jackson ML**, Omer SB, Bednarczyk RA, Shoup JA, et al. "White Paper on studying the safety of the childhood immunization schedule in the Vaccine Safety Datalink." *Vaccine* 2016; 34S:A1-A29
59. Vazquez-Benitez G, Kharbanda EO, Naleway AL, Lipkind H, Sukumaran L, McCarthy NL, Omer SB, Qian L, Xu S, **Jackson ML**, et al. "Risk of preterm birth or small for gestational age after influenza vaccination during pregnancy: caveats when conducting retrospective observational studies." *Am J Epidemiol* 2016; 184(3):176-86 [**one of AJE's ten "2016 Articles of the Year"**]
60. Texier G, Farouh M, Pellegrin L, **Jackson ML**, Meynard J, Deparis X, Chaudet H. "Outbreak definition by change point analysis: a tool for public health decision?" *BMC Med Inform Decision Making* 2016; 16:33
61. Flannery B, Zimmerman RK, Gubereva LV, Garten RJ, Chung JR, Nowalk MP, **Jackson ML**, et al. "Enhanced genetic characterization of influenza A(H3N2) viruses and vaccine effectiveness by genetic group, 2014-15." *J Infect Dis* 2016; 214:1010-9 [**Larry J. Anderson Award for Outstanding Public Health Science, 2107**][**Charles C. Shepard Science Award Nominee, 2017**]
62. Hutcheon JA, Fell DB, **Jackson ML**, Kramer MS, Ortiz JR, Savitz DA, Platt RW. "Detectable risks in studies of the fetal benefits of maternal influenza vaccination." *Am J Epidemiol* 2016; 184(3):227-32 [**one of AJE's ten "2016 Articles of the Year"**]
63. Zimmerman RK, Nowalk MP, Chung J, **Jackson ML**, Jackson LA, Petrie JG, et al. "2014-15 Influenza vaccine effectiveness in the United States by vaccine type." *Clin Infect Dis* 2016; 63(12):1564-73

Papers Published in Peer-Reviewed Journals, continued

64. Zimmerman RK, Balasubramani GK, Nowalk MP, Eng H, Urbanski L, **Jackson ML**, et al. "Classification and Regression Tree (CART) analysis to predict influenza in primary care patients." *BMC Infect Dis* 2016; 16(1):503
65. Ferdinands JM, Fry AM, Reynolds S, Petrie J, Flannery B, **Jackson ML**, Belongia EA. "Intraseason waning of influenza vaccine protection: Evidence from the US Influenza Vaccine Effectiveness Network, 2011-12 through 2014-15." *Clin Infect Dis* 2017; 64(5):544-50 [**Editor's choice article**]
66. Kharbanda EO, Vazquez-Benitez G, Romitti PA, Naleway AL, Cheetham TC, Lipkind HS, Sivanandam S, Klein NP, Lee GM, **Jackson ML**, et al. "Identifying birth defects in automated data sources in the Vaccine Safety Datalink." *Pharmacoepi Drug Safety* 2017; 26(4):412-20
67. Daley MF, Glanz JM, Newcomer SR, **Jackson ML**, Groom HC, Lugg ML et al. "Assessing Misclassification of Vaccination Status: Implications for Studies of the Safety of the Childhood Immunization Schedule." *Vaccine* 2017; 35(15):1873-8
68. Kharbanda EO, Vazquez-Benitez G, Romitti PA, Naleway AL, Cheetham TC, Lipkind HS, Klein NP, Lee G, **Jackson ML**, et al. "First trimester influenza vaccination and risks for major structural birth defects in offspring." *J Pediatr* (in press)
69. **Jackson ML**, Chung JR, Jackson LA, Phillips CH, Benoit J, Monto AS, et al. "Influenza vaccine effectiveness in the United States during the 2015-2016 season." *NEJM* 2017; 37(6):534-43
70. DeSilva M, Vazquez-Benitez G, Nordin JD, Lipkind HS, Klein NP, Cheetham TC, Naleway AL, Hambidge SJ, Lee GM, **Jackson ML**, et al. "Maternal Tdap vaccination and risk of infant morbidity." *Vaccine* 2017; 35(29):3655-60
71. Lipkind HS, Vazquez-Benitez G, Nordin JD, Romitti PA, Naleway AL, Klein NP, Hechter RC, **Jackson ML**, et al. "Maternal and Infant Outcomes After Human Papillomavirus Vaccination in the Periconceptional Period or During Pregnancy." *Obstet Gynecol* 2017;130(3):599-608
72. Texier G, **Jackson ML**, Siwe L, Meynard JB, Deparis X, Chaudet H. "Building test data from real outbreaks for evaluating detection algorithms." *PLoS One* 2017; 12(9):e0183992
73. McCarthy NL, Sukumaran L, Newcomer S, Weintraub E, McClure D, Daley MF, Klein NP, Irving S, **Jackson ML**, et al. "Patterns of Childhood Immunization and All-Cause Mortality". *Vaccine* 2017; 35(48 Pt B):6643-6648
74. Zhou H, Thompson WW, Belongia EA, Fowlkes A, Baxter R, Jacobsen SJ, **Jackson ML**, et al. "Estimated rates of influenza-associated outpatient visits during 2001-2010 in six US integrated health care delivery organizations". *Influenza Other Respir Viruses* 2017; 12:122-31

Papers Published in Peer-Reviewed Journals, continued

75. Stewart RJ, Flannery B, Chung JR, Gaglani M, Reis M, Zimmerman RK, Nowalk MP, Jackson L, **Jackson ML**, et al. "Influenza antiviral prescribing for outpatients with an acute respiratory illness and at high risk for influenza-associated complications during five influenza seasons – United States, 2011-2016." *Clin Infect Dis* 2018; 66(7):1035-41
76. Daley MF, Clarke CL, Glanz JM, Xu S, Hambidge SJ, Donahue JG, Nordin JD, Klein NP, Jacobsen SJ, Naleway AL, **Jackson ML**, et al. "The Safety of Live Attenuated Influenza Vaccine in Children and Adolescents 2 through 17 Years of Age: A Vaccine Safety Datalink Study". *Pharmacoepi Drug Safety* 2018; 27(1):58-68
77. **Jackson ML**, Phillips CH, Benoit J, Jackson L, Gaglani M, Murthy K, et al. "Burden of medically attended influenza infection and cases averted by vaccination — United States, 2013/14 through 2015/16 influenza seasons." *Vaccine* 2018; 36(4):467-72
78. **Jackson ML**, Phillips CH, Benoit J, Kiniry E, Madziwa L, Nelson JC, Jackson L. "The impact of selection bias on vaccine effectiveness estimates from test-negative studies". *Vaccine* 2018; 36(5):751-7
79. Briere E, Pondo T, Schmidt M, Skoff T, Shang N, Naleway A, Martin S, **Jackson ML**. "Assessment of Tdap Vaccination Effectiveness in Adolescents in Integrated Health Care Systems" *J Adolesc Health* 2018; 62(6):661-6
80. Chang AY, Riumallo-Herl C, Perales NA, Clark S, Clark A, Constenla D, Garske T, **Jackson ML**, et al. "Vaccines for ten antigens in 41 low- and middle-income countries, 2016-2030 would avert more deaths and cases of medical impoverishment among the poor: a distributional analysis." *Health Affairs* 2018; 37(2):316-24
81. Flannery B, Smith C, Garten RJ, Levine MZ, Chung JR, **Jackson ML**, et al. "Influence of birth cohort on effectiveness of 2015-2016 influenza vaccine against medically attended illness due to 2009 pandemic influenza A(H1N1) virus in the United States." *J Infect Dis* 2018; 218(2):189-96 (**Editor's choice article**)
82. Glanz JM, Newcomer SR, Daley MF, DeStefano F, Groom HC, **Jackson ML**, et al. "Association between estimated cumulative vaccine antigen exposure through the first 23 months of life and non-vaccine targeted infections from 24 through 47 months of age." *JAMA* 2018; 319(9): 906-13
83. Russell K, Chung JR, Monto AS, Martin ET, Belongia EA, McLean HQ, Gaglani M, Murthy K, Zimmerman RK, Nowalk MP, **Jackson ML**, et al. "Influenza vaccine effectiveness in older adults compared with younger adults over five seasons." *Vaccine* 2018; 36(10):1272-8
84. Havers FP, Chung JR, Belongia EA, McLean HQ, Gaglani M, Murthy K, Zimmerman RK, Nowalk MP, **Jackson ML**, et al. "Influenza vaccine effectiveness and statin use among adults in the United States, 2011-2017." *Clin Infect Dis* (in press)

Papers Published in Peer-Reviewed Journals, continued

85. Havers FP, Hicks LA, Chung JR, Gaglani M, Murthy K, Zimmerman RK, Jackson LA, Petrie JG, McLean HQ, Nowalk MP, **Jackson ML**, et al. "Outpatient antibiotic prescribing for acute respiratory illnesses." *JAMA Open Network* (in press)
86. Daley MF, Shoup JA, Newcomer SR, **Jackson ML**, Groom HC, Jacobsen SJ, et al. "Assessing potential confounding and misclassification bias when studying the safety of the childhood immunization schedule." *Academ Pediatr* 2018; 18(7):754-62
87. Kharbanda EO, Vazquez-Benitez G, Lipkind HS, Sheth SS, Zhu J, Naleway AL, Klein NP, Hechter R, Daley MF, Donahue JG, **Jackson ML** et al. "Risk of spontaneous abortion following inadvertent human papillomavirus vaccination in pregnancy." *Obstetr Gynecol* (in press)
88. **Jackson ML**, Yu On, Nelson JC, Nordin JD, Tartof SY, Klein NP et al. "Safety of repeated doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis vaccine in adults and adolescents." *Pharmacoepi Drug Safety* 2018; 27:921-5
89. Thompson MG, Kwong JG, Regan A, Katz M, Drews SJ, Azziz-Baumgartner E, Klein NP, Chung H, Effler P, Feldman B, Simmonds K, Wyant BE, Dawood FS, **Jackson ML**, et al. "Influenza Vaccine Effectiveness in Preventing Influenza-Associated Hospitalizations during Pregnancy: A Multi-Country Retrospective Test Negative Design Study, 2010-2016." *Clin Infect Dis* (in press)
90. Flannery B, Chung JR, Monto AS, Martin ET, Belongia EA, McLean HQ, Gaglani M, Murthy K, Zimmerman RK, Nowalk MP, **Jackson ML**, et al. "Influenza vaccine effectiveness in the United States during the 2016-2017 season." *Clin Infect Dis* 2019; 68(9):1444-53
91. Naleway AL, Ball S, Kwong JC, Wyant BE, Katz MA, Regan AK, Russell ML, Klein NP, Chung H, Simmonds KA, Azziz-Baumgartner E, Feldman B, Levy A, Fell DB, Drews SJ, Garg S, Effler P, Barda N, Irving SA, Shifflett P, **Jackson ML**, Thompson MG. "A multi-country cohort to estimate vaccine effectiveness against hospitalized influenza during pregnancy." *JMIR Res Prot* 2019; 8(1):e11333
92. **Jackson ML**, Diallo AO, Médah I, Bicaba BW, Yaméogo I, Koussoubé D, et al. "Initial validation of a simulation model for estimating the impact of serogroup A *Neisseria meningitidis* vaccination in the African meningitis belt." *PLoS One* 2018; 13(10):e0206117
93. Shang M, Chung JR, **Jackson ML**, Jackson LA, Monto AS, et al. "Influenza vaccine effectiveness among patients with high-risk medical conditions in the United States, 2012-2016." *Vaccine* 2018; 36(52):8047-53
94. Appia G, Clippard J, Flannery B, Havers F, Zimmerman R, Nowalk M, Monto A, Martin E, Gaglani M, Murthy K, Jackson L, **Jackson M**, et al. "Hospitalization following outpatient medical care for influenza: US Influenza Vaccine Effectiveness Network, 2011-12 – 2015-16". *Influenza Other Resp Virus* 2019; 13:133-7

Papers Published in Peer-Reviewed Journals, continued

95. Rolfes MA, Flannery B, Chung J, O'Halloran A, Garg S, Belongia EA, Gaglani M, Zimmerman R, **Jackson ML**, et al. "Effects of influenza vaccination in the United States during the 2017-2018 influenza season." *Clin Infect Dis* (in press)

96. **Jackson ML**. "Use of self-reported vaccination status can bias vaccine effectiveness estimates from test-negative studies." *Vaccine: X* 2019; 1; 100003

97. Weinmann S, Irving SA, Koppolu P, Naleway AL, Belongia EA, Hambidge SJ, **Jackson ML**, et al. "Incidence of herpes zoster among children: 2003-2014." *Pediatr* 2019; 144(1):e20182917

98. Kwong JC, Buchan SA, Chung H, Campitelli MA, Schwartz KL, Crowcroft NS, **Jackson ML**, et al. "Can routinely collected laboratory and health administrative data be used to assess influenza vaccine effectiveness? Assessing the validity of the Flu and Other Respiratory Viruses Research (FOREVER) Cohort." *Vaccine* (in press)

White Papers

Glanz JM, Daley MF, Newcomer SR, **Jackson ML**, Omer SB, Bednarczyk RA, Shoup JA. "White Paper on Studying the Safety of the Childhood Immunization Schedule". 2015; For the Vaccine Safety Datalink, Centers for Disease Control and Prevention

Jackson ML, in consultation with others. "World Health Organization Field Guide for the evaluation of influenza vaccine effectiveness" 2015. Available from: http://www.who.int/immunization/research/development/influenza_field_guide/en/

Other Non-Peer-Reviewed Publications

"Continued shortage of *Haemophilus influenzae* Type b (Hib) conjugate vaccines and potential implications for Hib surveillance--United States, 2008." *MMWR Morb Mortal Wkly Rep* 2008; 57(46):1252-5.

"Early estimates of seasonal influenza vaccine effectiveness — United States, January 2013." *MMWR Morb Mortal Wkly Rep* 2013; 62, early release.

"Interim adjusted estimates of seasonal influenza vaccine effectiveness — United States, February 2013." *MMWR Morb Mortal Wkly Rep* 2013; 62, early release.

"Interim estimates of 2013-14 seasonal influenza vaccine effectiveness — United States, February 2014." *MMWR Morb Mortal Wkly Rep* 2014; 63(7):137-42

Invited commentary: "Influenza vaccine effectiveness in elderly people." *Lancet Infect Dis* 2014; 14:1169-70

"Early Estimates of Seasonal Influenza Vaccine Effectiveness — United States, January 2015". *MMWR Morb Mort Weekly Rep* 2015; 64(01):10-15

Other Non-Peer-Reviewed Publications, continued

“Interim Estimates of 2016-17 Seasonal Influenza Vaccine Effectiveness – United States, February 2017.” *MMWR Morb Mort Weekly Rep* 2017; 66(6):167-71

“Interim Estimates of 2017-18 Seasonal Influenza Vaccine Effectiveness – United States, February 2018.” *MMWR Morb Mort Weekly Rep* 2018; 67(6):180-5

“Interim Estimates of 2018-19 Seasonal Influenza Vaccine Effectiveness – United States, February 2019.” *MMWR Morb Mort Weekly Rep* 2019; 68(6):135-9

Book Chapters

Cohn A, **Jackson ML**. “Meningococcal Disease”. In: CDC Health Information for International Travel 2010, edited by Brunette GW. Mosby Elsevier Inc., 2009

Cohn A, **Jackson ML**. “Meningococcal Disease”. In: CDC Health Information for International Travel 2012, edited by Brunette GW. Oxford University Press., 2012

Invited Talks

“Systematic comparison of aberration detection algorithms.” American Statistical Association: Quantitative Methods in Defense and National Security. Santa Monica, 2006.

“Challenges in studying alternative vaccination schedules.” Institute of Medicine, Committee on Assessment of Studies of Health Outcomes Related to the Recommended Childhood Immunization Schedule. Seattle, 2012.

“Modeling insights into *Haemophilus influenzae* type b vaccination programs in Alaska Natives.” International Congress on Circumpolar Health. Fairbanks, 2012.

“Confounding in influenza vaccine effectiveness studies in seniors, and possible solutions.” International Meeting on Influenza Vaccine Effectiveness. Geneva, Switzerland, 2012

“Respiratory infections in the elderly: epidemiology and prevention strategies”. Immunization in the Elderly. Geneva, Switzerland, 2017

Talks Given at Scientific Conferences

“Systematic comparison of aberration detection algorithms.” Syndromic Surveillance Conference, Seattle, 2005.

“Risk indices based on administrative data failed to control for confounding caused by healthy user bias.” International Congress of Pharmacoepidemiology, Quebec City, 2007.

“*Haemophilus influenzae* type b vaccine shortage and surveillance for invasive *Haemophilus influenzae* disease — United States, 2007–2008.” National Immunization Conference, Dallas, 2009.

Talks Given at Scientific Conferences, continued

“Predicting the effects of the *Haemophilus influenzae* type b (Hib) vaccine shortage on the incidence of Hib in children <5 years of age – United States.” Epidemic Intelligence Service Annual Conference, Atlanta, 2009. **Peavy award winner.**

“Identifying optimal vaccination strategies for serogroup A *Neisseria meningitidis* conjugate vaccine in the African meningitis belt.” International Pathogenic Neisseria Conference, Würzburg, Germany, 2012.

“Using restriction to control confounding in influenza VE studies in seniors.” International Conference on Pharmacoepidemiology, Montreal, Canada, 2013

“Influenza vaccines were effective in the United States during the Northern Hemisphere 2015/2016 influenza season.” Options IX for the Control of Influenza, Chicago, 2016

“The angel is in the details: Molecular epidemiology for infectious disease control.” Society for Epidemiologic Research Annual Meeting, Seattle, 2017

“Controlling for confounding: lessons learned from flu vaccine studies in the elderly.” Society for Epidemiologic Research Annual Meeting, Seattle, 2017

Data visualization workshops

“How to make a picture worth a thousand words: effective use of statistical graphics to communicate study findings.” Society for Epidemiologic Research Annual Meeting, Seattle, 2017 – Pre-conference workshop (with Yates Coley)

“How to make a picture worth a thousand words: effective use of statistical graphics to communicate study findings.” Society for Epidemiologic Research Annual Meeting, Baltimore, 2018 – Pre-conference workshop

“Data Visualization.” 3rd Seattle Symposium on Health Care Data Analytics, 2018 – Pre-conference workshop

“How to make a picture worth a thousand words.” Institute for Disease Modeling invited workshop, 2018

“Practical advice for data visualization.” Webinar for Geisinger, 2019

“How to make a picture worth a thousand words: effective use of statistical graphics to communicate study findings.” Society for Epidemiologic Research Annual Meeting, Minneapolis, 2019 – Pre-conference workshop

Posters Presented at Scientific Conferences

“Epidemiology of community-acquired pneumonia in a highly vaccinated population of older adults.” Infectious Disease Society of America, San Diego, 2003.

Posters Presented at Scientific Conferences, continued

“Feasibility of population-based surveillance for outpatient pneumonia using electronically available dictated chest radiograph reports.” Infectious Disease Society of America, Boston, 2004.

“Influenza vaccine does not reduce the risk of community-acquired pneumonia in immunocompetent seniors.” Infectious Disease Society of America, San Diego, 2007

“Circulation of influenza A(H3N2), but not A(H1N1) or B, is associated with an increase in deaths due to acute myocardial infarction.” Third North American Congress of Epidemiology, Montreal, Canada, 2011

“Using restriction to control unmeasured confounding in pharmacoepidemiology.” Society for Epidemiologic Research, Boston, 2013

“Burden of outpatient visits due to influenza infection and cases averted by vaccination – United States, 2011/12 and 2012/13 influenza seasons.” Options for the Control of Influenza, Cape Town, South Africa, 2013

“Use of a multi-strain SIR model may allow advance forecasting of seasonal influenza epidemics.” Society for Epidemiologic Research, Denver, 2015

“Using acute respiratory illness surveillance in the US Influenza Vaccine Effectiveness Network to estimate burden of influenza.” National, Regional, and Global Estimates of the Burden of Influenza Disease, World Health Organization, Geneva, Switzerland, 2016

“Selection bias in test-negative studies of influenza vaccine effectiveness.” Options IX for the Control of Influenza, Chicago, 2016

“Burden of ambulatory visits due to influenza and cases averted by vaccination across four influenza seasons.” Options IX for the Control of Influenza, Chicago, 2016

“Burden of medically attended care visits due to respiratory syncytial virus – Washington State, USA.” International meeting on Respiratory Pathogens, Singapore, 2018

“Inaccurate self-reports of influenza vaccination history can meaningfully bias influenza vaccine effectiveness estimates.” International meeting on Respiratory Pathogens, Singapore, 2018

Letters to the Editor

Dublin S, Weiss NS, Nelson JC, **Jackson ML**. “Statins and outcomes in patients with pneumonia: potential sources of bias.” (published on-line) 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.

Letters to the Editor, continued

Jackson ML, Weiss NS, Nelson JC, Jackson LA. "Problems of bias in studies of influenza vaccine." A response to Spaude KA et al "Influenza vaccination and risk of mortality among adults hospitalized with community-acquired pneumonia." *Archives Internal Medicine* 2007; 167(1):53-9

Osterholm MT, Kelley NS, Belongia EA, Jackson LA, **Jackson ML**. "Reply: Letter to the Editor, Cochrane Rearranged." A response to Beyer WEP et al, "Cochrane re-arranged: Support for policies to vaccinate elderly people against influenza." *Vaccine* in press

Hutcheon JA, Fell DB, **Jackson ML**, Kramer MS, Ortiz JR, Savitz D, Platt RW. "Hutcheon et al. respond to 'Maternal influenza immunization and birth outcomes'." *Am J Epidemiol* 2016; 184(11):793-95

Ferdinands JM, Foppa IM, Fry AM, Flannery BL, Belongia EA, **Jackson ML**. "Re 'Invited Commentary: Beware the Test-Negative Design'." *Am J Epidemiol* (in press)

Ortiz JR, **Jackson ML**, Hombach J. "Announcing the publication of a WHO guide to the design and interpretation of observational influenza vaccine effectiveness studies." *Clin Infect Dis* (in press)

Chung J, Flannery B, Zimmerman RK, Nowalk MP, **Jackson ML**, Jackson LA, et al. "Prior season vaccination and risk of influenza during the 2014-2015 season in the U.S." *J Infect Dis* (in press)

Students supervised

Johanna Vostok, MPH student, Emory University (2010).

Thesis title: "The epidemiology of *Neisseria meningitidis* disease among seniors in the United States, 1990-2008".

Claire Brostrom, RN student, Seattle University (2013).

Thesis title: "A review of current evidence in support of a decennial Tdap vaccine"

Lola Arakaki, PhD student, University of Washington (current).

Thesis title: (pending)

Emily Scott, MD/MPH student, University of Washington (current).

Thesis title: "Molecular epidemiology of respiratory syncytial virus (RSV) illness in western Washington over five seasons."

Teaching experience

Teaching Assistant for Epidemiology 532: "Epidemiology of infectious diseases in resource-limited countries" (Spring 2007), taught by Scott McClelland

Teaching Assistant for Epidemiology 510: "Epidemiologic data analysis" (Winter 2007), taught by Steven Hawes

Teaching Assistant for Epidemiology 511: "Introduction to epidemiology for non-majors (Autumn 2006), taught by Walter "Bud" Kukull

Peer Review in 2018

BMC Medicine

Clinical Infectious Diseases

Clinical Microbiology and Infection

Eurosurveillance

International Journal of Epidemiology

JAMA Internal Medicine

Pharmacoepidemiology and Drug Safety

PLoS One

Vaccine