

# Michael L. Jackson, PhD, MPH

Curriculum Vitae

5<sup>th</sup> October 2020

## Educational and Biographical Information

Associate Scientific Investigator

Kaiser Permanente Washington Health Research Institute

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[Michael.L.Jackson@kp.org](mailto:Michael.L.Jackson@kp.org)

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

2020-present	Senior Scientific Investigator Kaiser Permanente Washington Health Research Institute
2012-present	Affiliate Assistant Professor University of Washington, School of Public Health
2010-2020	Assistant (2010-2015) and Associate (2015-2020) 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

## Professional Honors

- 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

## Memberships

Society for Epidemiologic Research  
International Society for Influenza and other Respiratory Virus Diseases

## Organizational Service (past 3 years)

Space & Facilities Committee (member since 2016)  
Safety Committee (member since 2016)  
KPWHRI “Shark Tank” Reviewer (2019)  
Evaluation Committee for Aruna Kamineni, Gwen Lapham, and Nora Henrikson (2018)  
Evaluation Committee for Marlaine Gray (2018)  
KPWHRI Official Dishwasher Operator (2019)

## Other Professional Service

Peer reviewer (typically 20+ reviews for 10+ journals)

## Special National Responsibilities

Ad hoc reviewer, NIH CRFS study section (Feb 2018, Feb 2020)  
Ad hoc reviewer, CDC grant review section (Apr 2015, Feb 2020)

## Editorial Responsibilities

Not applicable

## Research Funding:

### Current

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|-----------|--|
| 2017-2021 | Forecasting influenza epidemics using a mechanistic epidemic model. NIAID (1R01AI132362). Direct funding: \$770,123; Role: Principal Investigator (15% effort)                   |
| 2016-2021 | Prospective annual estimates of influenza vaccine effectiveness and burden of disease. CDC (U01IP001037). Direct funding: \$3,415,076; Role: Principal Investigator (25% effort) |
| 2016-2021 | Vaccine Impact Modeling Consortium. Gavi (P66050). Direct funding: \$349,266<br>Role: Site Principal Investigator (Consortium lead: Tini Garski, Imperial College) (20% effort)  |
| 2017-2022 | Vaccine Safety Datalink Project: VSD Project Infrastructure Activities. CDC (200-2012-53421). Direct funding: \$2,297,516 Role: Co-Investigator (Lisa Jackson, PI) (30% effort)  |
| 2019-2020 | Seattle Flu Study. Anonymous Donor (to University of Washington). Direct Funding \$82,625 Role: Co-Investigator (PI: Jay Shendure, University of Washington) (10% effort)        |

Past

- 2017-2018 Population-based incidence of respiratory syncytial virus across multiple years in the US. Sanofi Pasteur (RSV00022). Direct funding: \$514,604 Role: Principal Investigator (15% effort)
- 2016-2017 Pregnancy Influenza Vaccine Effectiveness Network (PREVENT). CDC (via Achieving Public Health Impact Through Research, 200-2013-M-53944). Direct funding \$38,296  
Role: Co-Investigator (Allison Naleway, PI) (5% effort)
- 2012-2017 Vaccine Safety Datalink Project: VSD Project Infrastructure Activities. CDC (200-2012-53421). Direct funding \$2,084,163 Role: Co-Investigator (Lisa Jackson, PI) (30% effort)
- 2011-2016 Prospective population-based estimation of influenza vaccine effectiveness and burden of disease. CDC (U01IP000466). Direct funding \$2,563,264 Role: Principal Investigator (30% effort)
- 2014-2015 Modeling the impact of Neisseria meningitidis serogroup A(MenA) vaccine on meningococcal disease rates and mortality in Africa. Gavi (781-14SC). Direct funding \$41,389 Role: Principal Investigator (15% effort)
- 2014-2016 VSD RFTOP: Support for Timely and Efficient Transition to using ICD-10 Codes in VSD to Optimize Vaccine Safety Surveillance and Research Studies. CDC (200-2012-53421). Direct funding \$78,336 Role: Co-Investigator (Lisa Jackson, PI) (15% effort)
- 2014-2015 Patient self-swabbing at home for influenza testing. Group Health Research Institute Development Fund. Direct funding: \$103,573 Role: Principal Investigator (10% effort)
- 2015 WHO guidance for field evaluation of influenza vaccine effectiveness. World Health Organization (201174901). Direct funding \$13,475 Role: Principal Investigator (5% effort)
- 2014 WHO guidance for field evaluation of influenza vaccine effectiveness. World Health Organization (200933227), \$13,475 Role: Principal Investigator (5% effort)
- 2013-2014 VSD RFTOP: White Paper on studying the safety of the childhood vaccination schedule (200-2012-53421). Direct funding \$33,461 Role: Co-Investigator (Jason Glanz, PI) (15% effort)

- 2012-2014 Duration of protection following Tdap vaccine, CDC (200-2012-53589). Direct funding \$99,658 Role: Principal Investigator (20% effort)
- 2011-2014 Branta Foundation Pneumonia Project. Branta Foundation. Direct funding \$275,637  
Role: Co-Investigator (Sascha Dublin, PI) (15% effort)
- 2011-2012 Modeling Vaccination Strategies for Serogroup A Meningococcal Disease in Africa. CDC (797VE0001). Direct funding \$45,684 Role: Principal Investigator (15% effort)

## Teaching and Mentoring Responsibilities

### Mentoring of students

- Lola Arakaki, University of Washington PhD student (current, dissertation title TBD)
- Emily Scott, University of Washington MPH student (graduated 2019). Thesis title: *Molecular epidemiology of respiratory syncytial virus illness in children and adults in Seattle, WA over five seasons*
- Claire Brostrom, Seattle University MNS student (graduated 2013). Thesis title: *A review of current evidence in support of a decennial Tdap vaccine*
- Johanna Vostok, Emory University MPH student (graduated 2010). Thesis title: *The epidemiology of Neisseria meningitidis disease among seniors in the United States, 1990-2008*

### Other mentoring

- Aruna Kamineni, KPWHRI Assistant Investigator (member of mentorship committee)

## Publications:

### Published papers 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." *Pharmacoepi 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
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
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, Cassidy 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
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
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
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, 2017**][**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
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* 2017; 187:234-9
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
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
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103. Dawood FS, Garg S, Fink RV, Russell ML, Regan AK, Katz MA, Booth S, Chung H, Klein NP, Kwong JC, Levy A, Naleway A, Riesel D, Thompson MG, Wyant BE, Fell DB **on behalf of the PREVENT workgroup**. "Epidemiology and clinical outcomes of hospitalizations for acute respiratory or febrile illness and laboratory-confirmed influenza among pregnant women during six influenza seasons, 2010-2016." *J Infect Dis* (in press)
104. Chung JR, Flannery B, Gaglani M, Smith ME, Reis EC, Hickey RW, **Jackson ML**, et al. "Patterns of influenza vaccination and vaccine effectiveness among young US children who seek outpatient care for acute respiratory illness." *JAMA Pediatr* (in press)
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Influenza Vaccine Effectiveness Network by study site 2011-2016." *Influenza Other Resp Virus* (in press)

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109. Weinmann S, Irving SA, Koppolu P, Naleway AL, Belongia EA, Hambidge SJ, **Jackson ML**, et al. "Incidence of herpes zoster among varicella-vaccinated children, by number of vaccine doses and simultaneous administration of measles, mumps, and rubella vaccine." *Vaccine* (in press)
110. Lewnard JA, Liu VX, **Jackson ML**, Schmidt MA, Jewell BL, Flores JP, et al. "Incidence, clinical outcomes, and transmission dynamics of hospitalized 2019 coronavirus disease among individuals residing in California and Washington, United States: a prospective cohort study." *BMJ* (in press)
111. Chubak J, Anderson ML, Cook AJ, Murphy CC, **Jackson ML**, Green BB. "Methodological considerations in calculating and analyzing proportion of time covered as a measure of longitudinal cancer screening adherence." *Cancer Epidem, Biomarkers, and Prevention* (in press).
112. Kim SS, Flannery B, Foppa IM, Chung JR, Nowalk MP, Zimmerman RK, Gaglani M, Monto AS, Martin ET, Belongia EA, McLean HQ, **Jackson ML**, et al. "Effects of prior season vaccination on current season vaccine effectiveness in the US Flu VE Network, 2012-13 through 2017-18." *Clin Infect Dis* (in press)
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115. Balasubramani GK, Choi WS, Nowalk MP, Zimmerman RK, Monto AS, Martin ET, Belongia EA, McLean HQ, Gaglani M, Murthy K, **Jackson ML**, et al. "Relative effectiveness of high dose vs standard dose influenza vaccines in older adult outpatients over four seasons, 2015-16 to 2018-19." *Vaccine* (in press)
116. Rogers JH, Link AC, McCulloch D, Brandstetter E, Newman KL, **Jackson ML**, et al. "Characteristics of COVID-19 in homeless shelters: A community-based surveillance study." *Ann Int Med* (in press)
117. Bedford T, Greninger AL, Roychoudhury P, Staritia LM, Famulare M, Huang M-L, Nalla A, Pepper G, Reinhardt A, Xie H, Shrestha L, Nguyen TN, Adler A, Brandstetter E, Cho S, Giroux D, Han PD, Fay K, Frazar CD, Ilcisin M, Lacombe K, Lee J, Kiavand A, Richardson M, Sibley TR, Truong M, Wolf CR, Nickerson DA, Rieder MJ, Englund JA, **The Seattle Flu Study Investigators**, et al. "Cryptic transmission of SARS-CoV-2 in Washington state." *Science* 2020 (in press)(one of the Seattle Flu Study Investigators)
118. **Jackson ML**. "Low-impact social distancing interventions to mitigate local epidemics of SARS-CoV-2." *Microbe Infect* (in press)
119. Greene DN, **Jackson ML**, Delgado JC, Hillyard DR, Schmidt RL. "Decreasing median age of COVID-19 cases in the United States – changing epidemiology or changing surveillance?" *PLoS One* (in press)

#### Non-refereed papers/articles

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

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

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.



**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* 2015; 33(1):13-4

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* 2017; 185(7):613

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* 2017; 65(2):352

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* 2017; 216(2):284-5

**Jackson ML**, Hart GR, McCulloch DJ, Alder A, Brandstetter E, Fay K, Han P, et al. “Effects of weather-related social distancing on city-scale transmission of respiratory viruses.” *medRxiv* 2020; <https://www.medrxiv.org/content/10.1101/2020.03.02.20027599v1.full.pdf>

Lewnard JA, Liu VX, **Jackson ML**, Schmidt MA, Jewell BL, Flores JP, et al. “Incidence, clinical outcomes, and transmission dynamics of hospitalized 2019 coronavirus disease among 9,596,321 individuals residing in California and Washington, United States: a prospective cohort study”. *medRxiv* 2020; <https://www.medrxiv.org/content/10.1101/2020.04.12.20062943v1>

**Jackson ML**. “Low-impact social distancing interventions to mitigate local epidemics of SARS-CoV-2.” *medRxiv* 2020; <https://www.medrxiv.org/content/10.1101/2020.06.30.20143735v1>

Greene DN, **Jackson ML**, Hillyard DR, Delgado JC, Schmidt R. “Decreasing median age of COVID-19 cases in the United States – changing epidemiology or changing surveillance?” *medRxiv* 2020; <https://www.medrxiv.org/content/10.1101/2020.07.22.20160119v1>

Patel M, **Jackson ML**, Ferdinands J. “Post-licensure evaluation of COVID-19 vaccines.” *JAMA* (in press)

### 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

### Published technical reports (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/](http://www.who.int/immunization/research/development/influenza_field_guide/en/)

### Invited Presentations

#### 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

#### 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

## Other Presentations

### Podium presentations 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.

“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