

Kathleen T. Winter, PhD, MPH

Department of Epidemiology and Environmental Health
University of Kentucky College of Public Health
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RESEARCH INTERESTS

Communicable disease control, vaccine-preventable diseases, infectious diseases, vaccine effectiveness, perinatal substance use

EDUCATION

2012-2016	University of California Berkeley, Berkeley, California Doctor of Philosophy in Epidemiology Dissertation Chair: Dr. Arthur Reingold
2004-2005	The Ohio State University, Columbus, Ohio Master of Public Health in Epidemiology
1999-2003	University of Dayton, Dayton, Ohio Bachelor of Science in Biology and Religious Studies (double major)

PROFESSIONAL EXPERIENCE

2022-present	Immunization Program Manager (acting) Kentucky Department for Public Health, Frankfort, Kentucky
2021-present	State Epidemiologist Cabinet for Health and Family Services Commonwealth of Kentucky, Frankfort, Kentucky
2021-present	Director Division of Epidemiology and Health Planning Kentucky Department for Public Health, Frankfort, Kentucky
2016-present	Assistant Professor Department of Epidemiology University of Kentucky College of Public Health, Lexington, Kentucky
2018-present	Faculty Affiliate Central Appalachian Regional Education Research Center University of Kentucky College of Agriculture, Food, and Environment
2020-2021	Scientific and Epidemiologic Advisor for the COVID-19 public health response Lexington-Fayette County Health Department, Lexington, Kentucky
2016-2020	Faculty Affiliate Perinatal Research and Wellness Center University of Kentucky College of Nursing, Lexington, Kentucky
2006-2020	Epidemiologist (supervisor 2009-2012, consulting 2016-2020) Immunization Branch Vaccine-Preventable Disease Epidemiology and Surveillance Section California Department of Public Health, Richmond, California
2006	Epidemiologist Tuberculosis Surveillance Ohio Department of Health, Columbus, Ohio
2005	Graduate Research Assistant Integrated Pest Management Collaborative Research Support Program by USAID Ecuador

PEER-REVIEWED PUBLICATIONS

1. Wilson EJ, Sanderson W, Westgate P, **Winter K**, Forster D. Risk factors of carbapenemase-producing carbapenem-resistant Enterobacterales acquisition among adult intensive care unit patients at a Kentucky Academic Medical Center. *Infection Prevention in Practice*. 2023 September (epub ahead of print). Doi: 10.1016/j.infpip.2023.100310
2. Cavanaugh AM, Raparti L, Bhurgri M, Herrington A, Holladay C, Arora V, Spicer KB, Thoroughman DA, **Winter K**. Characterization of decedents with COVID-19-related mortality in Kentucky, July1 – August 13, 2021. *Public Health Reports*. 2023 May-Jun;138(3):526-534. Doi: 10.1177/00333549231155867.
3. Lammie S, Ford L, Swanson M, Guinn A, Kamitani E, van Zyl A, Rose CE, Marynak K, Shields J, Donovan CV, Holman EJ, Mark-Carew M, Welton M, Thomas ES, Neatherlin J, on behalf of the **state and local partners group**. Test to Stay Implementation in Four Pre-K-12 School Districts, United States, Fall 2021. *Pediatrics*. 2022. Doi:10.1542/peds.2022-057362.
4. Burkhardt MC, **Winter K**, Alter SJ, Klatte JM. A COVID-19 primer for pediatric primary care providers. *Current Problems in Pediatric and Adolescent Health Care*: March 2022. doi: 10.1016/j.cppeds.2022.101180.
5. Adekunle AD, Harp KL, Al-Abdali ZG, Critchfield AS, Barnhart S, **Winter KT**. Reported barriers to hepatitis C treatment among pregnant and early-parenting mothers undergoing substance use disorder treatment in one U.S. state. *Infectious Disease Reports*. 2021 Dec 22;14(1):1-11. doi: 10.3390/idr14010001.
6. Cavanaugh AM, Spicer KB, Thoroughman D, Glick C, **Winter K**. Reduced risk of reinfection with SARS-CoV-2 after COVID-19 vaccination – Kentucky, May-June 2021. *MMWR Morbidity and Mortality Weekly Report*. 2021 Aug 13;70(32): 1081-1083. doi: 10.15585/mmwr.mm7032e1.
7. Bellamy P, Sanderson W, **Winter K**, Stringer J, Kussainov N, Commins S. Prevalence of alpha-gal sensitization among Kentucky timber harvesters and forestry and wildlife practitioners. *The Journal of Allergy and Clinical Immunology: In Practice*. 2021 May;9(5):2113-2116. doi: 10.1016/j.jaip.2020.12.021.
8. **Winter K**. Prenatal Hepatitis C Screening in Kentucky: Does a Change in the Law Change Clinical Practice? *Obstetrics & Gynecology*: May 2020 - Volume 135. doi: 10.1097/01.AOG.0000663008.48812.2c.
9. **Winter K**, Adekunle D, Harp K, Barnhart S, Critchfield A. Assessing Hepatitis C among perinatal women undergoing treatment for opioid use disorder in Kentucky. *Obstetrics & Gynecology*: May 2020 – Vol 135. doi: 10.1097/01.AOG.0000662972.02159.22.
10. Chu V, Carpenter D, **Winter K**, Harriman K, Glaser C. Increased risk of *Streptococcus pneumoniae* meningitis in adults with head injuries or spine surgeries. *Clinical Infectious Diseases*. 2019 May 30;68(12):2120-2122.
11. Soeters H, McNamara L, Blain A, Whaley M, MacNeil J, Hariri S, Mbaeyi S for the **Serogroup B Meningococcal Disease University Outbreak Group**. University-based Serogroup B Meningococcal Disease Outbreaks, United States, 2013-2018. *Emerging Infectious Diseases*. 2019 Mar;25(3):434-440.
12. **Winter K**, Klein NP, Ackley S, Cherry JD. Comment on “The impact of past vaccination coverage and immunity on pertussis resurgence”. *Science Translational Medicine*. 2018; 10(472).
13. New S*, **Winter K***, Boyte R, Harriman K, Gutman A, Christiansen A, Royce S. **indicates equal contribution*. Barriers to receipt of prenatal tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis vaccine (Tdap) among mothers of infants <4 months with pertussis -- California, 2016. *MMWR Morbidity and Mortality Weekly Report*. 2018;67(38);1068-1071.
14. **Winter K**, Harriman K. Pertussis in California: A tale of two epidemics. *Pediatric Infectious Disease Journal*. 2018 Apr;37(4):324-328.

15. **Winter K**, Harriman K. Risk markers for pertussis among infants <4 months of age: Understanding the Hispanic disparity. *Pediatric Infectious Disease Journal*. 2018. Feb;37(2):126-131.
16. Cherry JD, Wendorf K, Bregman B, Lehman D, Nieves D, Bradley, J, Mason W, Sande-Lopez L, Lopez M, Federman M, Chen T, Blumberg D, Johnston S, Schwenk H, Weintrub P, Quinn K, **Winter K**, Harriman K. An observational study of severe pertussis in 100 infants \leq 120 days of age. *Pediatric Infectious Disease Journal*. 2018 Mar;37(3):202-205.
17. Platt L, Thun M, Harriman K, **Winter K**. A population-based study of reported cases of recurrent symptomatic *Bordetella pertussis* infections in children in California, 2010-2015. *Clinical Infectious Diseases*. 2017. Nov 29;65(12):2099-2104.
18. Folaranmi T, Kretz C, Kamiya H, MacNeil J, Whaley J, Blain A, Antwi M, Dorinsville M, Pacilli M, Smith S, **Winter K**, Harriman K, Wang X, Bowen V, Patel M, Martin S, Misegades L, Meyer S. Increased risk for meningococcal disease among men who have sex with men in the United States, 2012-2015. 2017. *Clinical Infectious Diseases*. Sep 1;65(5):756-763.
19. Lujan E, **Winter K**, Rovaris J, Liu Q, Granoff D. Serum bactericidal antibody responses of students immunized with a meningococcal serogroup B vaccine in response to an outbreak on a university campus. *Clinical Infectious Diseases*. 2017;65(12):2099-2104.
20. Wendorf K, **Winter K**, Harriman K, Zipprich J, Hacker J, Schechter R, Cherry J, Glaser C. Subacute sclerosing panencephalitis cases in California, 1998-2015. *Clinical Infectious Diseases*. 2017 Jul 15;65(2):226-232.
21. **Winter K**, Harriman K. Timing of prenatal Tdap immunization and protection against pertussis reply to Abu Raya and Giles. *Clinical Infectious Diseases*. 2017; 64(6):822.
22. **Winter K**, Nickell, S, Powell M, Harriman K. Effectiveness of prenatal versus postpartum Tdap vaccination in preventing infant pertussis. *Clinical Infectious Diseases*. 2017 Jan 1;64(1)3-8.
23. **Winter K**, Cherry J, Harriman K. Effectiveness of prenatal Tdap vaccination on pertussis severity in infants. *Clinical Infectious Diseases*. 2017 Jan 1;64(1):9-14.
24. Nanduri S, Foo C, Ngo V, Jarashow C, Civen R, Schwartz B, Holguin J, Shearer E, Zahn M, Harriman K, **Winter K**, Kretz C, Chang H, Meyer S, MacNeil J. Outbreak of serogroup C meningococcal disease primarily affecting men who have sex with men – Southern California, 2016. *MMWR Morbidity and Mortality Weekly Report*. 2016.
25. Biswas H, Han G, Wendorf K, **Winter K**, Zipprich J, Perti T, Martinez L, Arellano A, Kyle J, Zang P, Harriman K. Serogroup B meningococcal disease outbreak at a university – California, 2016. *MMWR Morbidity and Mortality Weekly Report*. 2016;65:520-521.
26. Varan A, Harriman K, **Winter K**, Thun M, McDonald E. Economic and Social Impact of Pertussis Among Adolescents in San Diego County. *Journal of Adolescent Health*. 2016 Feb;58(2):241-4.
27. Kamiya H, MacNeil J, Blain A, Patel M, Martin S, Weiss D, Ngai S, Ezeoke I, Mascola L, Civen R, Ngo V, Black S, Kemble S, Chugh R, Murphy E, Petit C, Harriman K, **Winter K**, Beron A, Glegg W, Conover C, Misegades L. Meningococcal disease among men who have sex with men – United States, January 2012-June 2015. *MMWR Morbidity and Mortality Weekly Report*. 2015 Nov 13;64(44):1256-7.
28. Pollett S, Wood N, Boscardin WJ, Bengtsson H, Schwarcz S, Harriman K, **Winter K**, Rutherford G. Validating the Use of Google Trends to Enhance Pertussis Surveillance in California. *PLoS Curr*. 2015 Oct 19;7.
29. **Winter K**, Zipprich J, Harriman K, Murray E, Gornbein J, Hammer S, Yeganeh N, Adachi K, Cherry J. Risk factors associated with infant death from pertussis: A case-control study. *Clinical Infectious Disease*. 2015. *Clinical Infectious Diseases*. 2015 Oct 1;61(7):1099-106.

30. Yen C, Murray E, Zipprich J, **Winter K**, Harriman K. Missed opportunities for tetanus postexposure prophylaxis – California, January 2008-March 2014. *MMWR Morbidity and Mortality Weekly Report*. 2015 Mar;64(09):243-246.
31. Zipprich J, **Winter K**, Hacker J, Xia D, Watt J, Harriman K. Measles Outbreak – California, December 2014-February 2015. *MMWR Morbidity and Mortality Weekly Report*. 2015 Feb 20;64(06):153-154.
32. **Winter K**, Glaser C, Watt J, Harriman K. Pertussis epidemic – California 2014. *MMWR Morbidity and Mortality Weekly Report*. 2014 Dec 5;63(48):1129-32.
33. Collier MG, Khudyakov YE, Selvage D, Adams-Cameron M, Epton E, Cronquist A, Jervis RH, Lamba K, Kimura AC, Sowadsky R, Hassan R, Park SY, Garza E, Elliott AJ, Rotstein DS, Beal J, Kuntz T, Lance SE, Dreisch R, Wise ME, Nelson NP, Suryaprasad A, Drobeniuc J, Holmberg SD, Xu F; **Hepatitis A Outbreak Investigation Team**. Outbreak of hepatitis A in the USA associated with frozen pomegranate arils imported from Turkey: An epidemiological case study. *Lancet Infectious Disease*. 2014 Oct;14(10):976-81.
34. Harriman K, **Winter K**. Pertussis vaccine uptake during pregnancy: We need to do better in the U.S. *Preventive Medicine*. 2014 Oct;67:320-1.
35. Atwell JE, Van Otterloo J, Zipprich J, **Winter K**, Harriman K, Salmon DA, Halsey NA, Omer SB. Nonmedical vaccine exemptions and pertussis in California, 2010. *Pediatrics*. 2013 Oct; 132(4):624-30.
36. Zipprich J, Murray E, **Winter K**, et al. Mumps Outbreak on a University Campus-California, 2011. *The Journal of the American Medical Association* 309(7):650-653-February 2013. (Reprinted from *MMWR*, vol 61, pg 986-989, 2012).
37. Misegades L, **Winter K**, Harriman K, Talarico J, Messonnier N, Clark T, Martin S. Association of childhood pertussis with receipt of 5 doses of pertussis vaccine by time since last vaccine dose, California, 2010. *Journal of the American Medical Association*. 2012 Nov 28; 308(20):2126-2132.
38. **Winter K**, Harriman K, Zipprich J, Schechter R, Talarico J, Watt J, Chavez G. California pertussis epidemic, 2010. *Journal of Pediatrics*. 2012 Dec; 161(6):1091-6.
39. Glaser G, **Winter K**, DuBray K, Harriman K, Uyeki T, Sejvar J, Gilliam S, Louie J. A population-based study of neurologic manifestations of severe 2009 pandemic influenza A (H1N1) in California. *Clinical Infectious Diseases*. 2012 Aug;55(4):514-20.
40. Measles outbreak associated with an arriving refugee – Los Angeles County, California, August-September 2011. *MMWR Morbidity and Mortality Weekly Report*. 2012 June 1;61(21):385-389.
41. Louie JK, Gavali S, Acosta M, Samuel MC, **Winter K**, Jean C, Glaser CA, Matyas BT, Schechter R; California Pandemic (H1N1) Working Group. Children hospitalized with 2009 novel influenza A(H1N1) in California. *Archives of Pediatric and Adolescent Medicine*. 2010 Nov;164(11): 1023-31.
42. Notes from the field: Pertussis—California, January-June 2010. *MMWR Morbidity and Mortality Weekly Report*. 2010 July 59(26): 817.
43. The Adult Hepatitis Vaccine Project – California, 2007—2008. *MMWR Morbidity and Mortality Weekly Report*. 2010 May 7;59(17):514-516.
44. Louie JK, Acosta M, **Winter K**, Jean C, Gavali S, Schechter R, Vugia D, Harriman K, Matyas B, Glaser CA, Samuel MC, Rosenberg J, Talarico J, Hatch D; California Pandemic (H1N1) Working Group. Factors associated with death or hospitalization due to pandemic 2009 influenza A (H1N1) infection in California. *Journal of the American Medical Association*. 2009 Nov 4; 302(17):1896-902.
45. Hospitalized Patients with Novel Influenza A (H1N1) Virus Infection – California, April—May, 2009. *MMWR Morbidity and Mortality Weekly Report*. 2009 May 22;58(19):536-41.

46. Fischer GE, Teshale EH, Miller C, Schumann C, **Winter K**, Elson F, Horan K, Reed CM, Armstrong GL, Perz JF. Hepatitis A among international adoptees and their contacts. *Clinical Infectious Diseases*. 2008 Sep 15;47(6):812-4.

MANUSCRIPTS IN PROGRESS

1. Aucho S, Holladay C, **Winter K**, Thoroughman D, Spicer K. Kentucky COVID-19 Mortality Analysis by Age and Race; Simpson's Paradox. *Submitted*.
2. Acosta AM, Brown N, Harriman K, **Winter K**, Ahmed S, Dallmeyer L, Cassidy P, Weigand M, Williams M, Pawloski L, Tondella ML, Skoff T. Asymptomatic carriage of *Bordetella pertussis* among adolescents during a school-based outbreak. Under development.
3. Garcia CA, Thoroughman D, **Winter K**, Robeson S, Wright C, Alfego D, Gillim L, Rhine-Pallas A, Stack S. Natural Versus Vaccine-Induced SARS-CoV-2 Antibody Response by Vaccine Brand, Age Group, Time Since Vaccination and Previous Infection. Submitted to JAMA open access.

GRANTS AND CONTRACTS

Current

University of Kentucky Research Foundation

Kentucky Department for Public Health

5/12/2021 – current

Role: Principle Investigator, 80% effort

Occupational Safety and Health Education and Research Centers (T42):

Central Appalachian Regional Education Research Center

National Institute of Occupational Safety and Health

Role: Co-investigator (PI Sanderson), 1% effort

Ended

University of Kentucky Research Foundation

Lexington-Fayette County Health Department

4/27/2020 – 5/10/2021

Role: Principle Investigator, 70% effort

Extending Substance Use Treatment Resources to Women to Improve Safety of Children with Prenatal and Environmental Substance Exposure

Lexington Fayette Urban County Government

Term: 7/1/2019 - 6/30/2020

Total: \$150,000

Role: Program Evaluator (co-I; Dye), 5% effort

Kentucky Viral Hepatitis Profile

Association of State and Territorial Health Officers (ASTHO)

Term: 2/22/2019 – 3/31/2020

Total: \$40,000

Role: Principle Investigator, 12% effort

Expanding MAT Access through a Team Treatment Approach (EMATTA)

Substance Abuse and Mental Health Services Administration (SAMHSA)

Term: 9/30/2018 – 9/29/2021
Total: \$1,657,972
Role: Project Evaluator (co-PI; Dye), 25% effort

Substance use disorder treatment Beyond Birth Access Initiative Continuation

Kentucky Department for Medicaid Services

Term: 7/1/2018 – 6/30/2020

Total: \$2,432,699

Role: Co-Investigator (Ashford), 15% effort

Use of online social networks to predict uptake of measles vaccination in children

Igniting Research Collaborations, Office of the Vice President for Research, University of Kentucky

Term: 7/1/2019 – 3/15/2020

Total: \$29,219

Role: Co-Investigator (Khamfroush), effort unfunded

Big Sandy Alcohol & Other Drug Prevention Program (Mountain Comprehensive Care Center)

Substance Abuse and Mental Health Services Administration (SAMHSA)

Term: 9/30/2019 – 9/29/2024

Total: \$1,500,000

Role: Lead Epidemiologist, 8% effort

MOUD Access Expansion through Community Partnerships

the Kentucky Department for Behavioral Health, Developmental and Intellectual Disabilities Kentucky Opioid Response Effort (KORE)

Substance Abuse and Mental Health Services Administration (SAMHSA)

Term: 10/1/2019 – 9/30/2020

Role: Lead Epidemiologist, 5% effort

Tobacco use in Pregnancy Intervention for Cessation (ToPIC)

Value of Implementation to Innovation Program (VI²P)

University of Kentucky, Center for Health Services Research

Term: 9/1/2017 – 3/31/2019

Total: \$110,000

Role: co-Principle Investigator (Ashford), effort unfunded

Perinatal hepatitis C knowledge and treatment gaps among HCV-infected women with opioid-use disorder

Igniting Research Collaborations, Office of the Vice President for Research, University of Kentucky

Term: 7/1/2018 – 3/15/2019

Total: \$15,000

Role: Principle Investigator, effort unfunded

Prevalence of Type I Sensitization to Alpha-Gal among Kentucky Forestry Workers

National Institute of Occupational Safety and Health

Term 9/30/2018 – 4/30/2019

Total: \$11,000

Role: Faculty Advisor/Principle Investigator, 1% effort

Maternal and Child Health Institute

Kentucky Department of Public Health, Maternal and Child Health Program

Term: 7/1/2016 – 6/30/2018

Total: \$94,984

Role: Principle Investigator, 10% effort

PEER-REVIEWED ABSTRACTS AT SCIENTIFIC MEETINGS

Oral Presentations

Gunnell J, Thoroughman D, **Winter K**. COVID-19 Mortality Data in Kentucky: An Analysis of the Impact of the New CSTE Guidelines. CSTE Annual Conference. June 2023.

Johnson O, Ghosh R, Bolen K, Sunny H, Herrington A, Hodge B, Gooch R, Thoroughman D, **Winter K**. Public Health Response Measures Following Exposures to a Measles Case at a Large Gathering at a University – Kentucky, 2023. CSTE Annual Conference. June 2023.

Platt L, Thun M, Harriman K, **Winter K**. A population-based study of recurrent symptomatic *Bordetella pertussis* infections in children in California, 2010-2015. ID Week. October 7, 2017. *Podium*

Wendorf K, **Winter K**, Harriman K, Zipprich J, Schechter R, Hacker J, Preas C, Cherry J. Subacute sclerosing panencephalitis: the devastating measles complication is more common than we think. ID Week. October 28, 2016. *Podium*

Winter K, Harriman K. Risk factors for pertussis among Hispanic and non-Hispanic infants in California. Council for State and Territorial Epidemiologists Annual Conference. June 2016. *Podium*

Datta S, **Winter K**, Harriman K. Elevated risk for invasive meningococcal disease among males aged 18-65 years with HIV – California, 2007-2014. Council for State and Territorial Epidemiologists Annual Conference. June 2016. *Podium*

Winter K. Pertussis in infants in California. Pediatric Academic Societies Annual Meeting. 2015. *Keynote*

Poster Presentations

Shokri E, Adekunle D, **Winter K**, Rosenau J. Hepatitis C treatment uptake in Medicaid insured patients before and after removal of fibrosis stage and illicit drug use restrictions. The Liver Meeting. November 2019.

Harp K, Adekunle D, Barnhart S, Critchfield A, **Winter K**. Assessing the Relationship between Sources of HCV Information and Knowledge of Transmission among a Sample of Women in Substance Use Disorder Treatment. Substance Use Research Day. University of Kentucky. March 2019.

Winter K, McCubbin A, Barnett J, Ducas L, Ashford K. Tobacco use in Pregnancy Intervention for Cessation (ToPIC). CCTS Conference. April 2019.

Chu V, Carpenter D, **Winter K**, Harriman K, Glaser C. Increased risk of *Streptococcus pneumoniae* meningitis in adults with head injuries or spine surgeries. Clinical Infectious Diseases. ID Week. October 2018.

Datta S, Moore A, Zipprich J, **Winter K**, Harriman K. Laboratory gram stain misidentifications of *Neisseria meningitidis* and the impact on public health response to meningococcal disease. ID Week. October 28, 2016.

Folaranmi T, Whaley M, Kamiya H, MacNeil J, Kretz C, Blain A, Ngai S, **Winter K**, Pacilli M, Wang X, Bowen V, Patel M, Martin S, Misegades L, Meyer S. Meningococcal disease among men who have sex with men – United States, 2012-2015. ISA. October 28, 2016.

Winter K and Harriman K. Pertussis in California: A tale of two epidemics. Council for State and Territorial Epidemiologists Annual Conference. June 2016.

MEDIA PUBLICATIONS

Herald-Leader. “A ‘novel virus’ means we have to take on ‘novel’ new ways of living our lives right now”. Kathleen Winter. March 15, 2020. Available at (<https://www.kentucky.com/opinion/op-ed/article241202721.html>)

Herald-Leader. “How Kentucky flattens the curve”. Kathleen Winter and Steven Buck. March 21, 2020. Available at (<https://www.kentucky.com/opinion/op-ed/article241394211.html>)

Herald-Leader. “Don’t be magical thinkers about the risks and realities of reopening schools”. Kathleen Winter and Steven Buck. July 20, 2020. Available at (<https://www.kentucky.com/opinion/op-ed/article244347717.html>)

MEDIA INTERVIEWS (selected)

WKYT. “Combating common coronavirus myths”. Reporter: Kristen Kennedy. September 1, 2020. Available at (<https://www.wkyt.com/2020/09/01/wkyt-investigates-misinformation-on-covid/>)

KET. “Coronavirus: A Kentucky Update”. Reporter: Dr. Wayne Tuckson. March 27, 2020. (<https://www.ket.org/program/coronavirus-a-kentucky-update-2/help-with-unemployment-and-public-health-advice/>)

WUKY. “On Medicine”. Reporter: Dr. Gregory Davis. March 25, 2020. Available at (<https://www.wuky.org/post/uk-epidemiologist-were-end-beginning-covid-19-ky#stream/0>)

WEKU. “Surge in Kentucky coronavirus cases expected”. Reporter: Stu Johnson. March 23, 2020. Available at (<https://www.weku.org/term/university-kentucky-epidemiologist-kathleen-winter#stream/0>)

The New York Times. “The Checkup: For Pregnant Women Getting Serious About Whooping Cough”. Reporter: Peri Klass. May 1, 2017. Available at (https://www.nytimes.com/2017/05/01/well/family/for-pregnant-women-getting-serious-about-whooping-cough.html?_r=0)

A Moment of Science. “Sore arm after a shot”. Indiana Public Media. WFIU at Indiana University. (*science peer reviewer*). Reporter: Sara Loy. August 29, 2018. Available at (<https://indianapublicmedia.org/amomentofscience/why-does-my-arm-hurt-after-a-flu-shot/>)

The Scientist. “Questions raised about pertussis reemergence”. Reporter: Abby Olena. December 20, 2018. Available at: (<https://www.the-scientist.com/news-opinion/questions-raised-about-pertussis-reemergence-65252>)

Campus Voices. “Hepatitis A Outbreak”. WRFL at University of Kentucky. Reporter: Maggie Davis. February 27, 2019. Available at: (<http://wrfl.fm/shows/campus-voices>)

Courier Journal. “As Hepatitis A continues its assault on Kentucky, Lake Cumberland communities fight back”. Reporter: Laura Ungar. March 21, 2019. Available at (<https://www.courier-journal.com/story/news/investigations/2019/03/21/hepatitis-kentucky-rural-communities-fight-virus-locally/3142717002/>)

Courier Journal. “Kentucky racks up one-third of all hepatitis A deaths in US as fatalities keep rising”. Reporter: Chris Kenning. May 14, 2019. Available at (<https://www.courier-journal.com/story/news/local/2019/05/14/kentucky-racks-up-one-third-of-all-hepatitis-a-deaths-in-u-s/3664466002/>)

USA Today. “Hepatitis A is breaking out across the country in wake of opioid crisis”. Reporter: Laura Ungar. August 10, 2019. Available at (<https://www.usatoday.com/story/news/health/2019/08/10/hepatitis-vaccine-outbreak-spreads-shadows-opioid-epidemic/1967284001/>)

SEMINARS AND INVITED LECTURES (selected)

"Hot Topics in Epidemiology". Opening plenary. Kentucky Emergency Preparedness Meeting. June 2023.

"The State of Immunizations in Kentucky". Opening plenary. Immunization Summit. Immunize Kentucky Coalition. May 2023.

"The State of Immunizations in Kentucky". Health for a Change: Raise Your Guard, Kentucky Webinar. Foundation for a Health Kentucky. April 2023.

Guest lecture for CPH 255: Public Health Careers. February 2023.

COVID-19 and Public Health Update Webinars. Kentucky Department for Public Health. Various. 2021-2023.

"COVID-19 Vaccine Update". Kentucky Hospital Association Webinar. January 2023.

"Infectious diseases and occupational health". Guest lecture for CPH 617: Occupational/Environmental Epi. November 2022.

"Hot Topics in Epidemiology". Opening plenary. Kentucky Joint Epidemiology and Emergency Preparedness Meeting. November 2022.

"Road to Becoming State Epidemiologist". Guest lecture for CPH 472. October 2022.

Welcoming remarks. Opening plenary. Council for State and Territorial Epidemiologists Annual Conference. June 2022.

"COVID-19 and Monkeypox Updates". Public Health Nursing Webinar. Kentucky Department for Public Health. June 2022.

Monkeypox and Public Health Update Webinars. Kentucky Department for Public Health. Various. 2022.

"COVID 3.0: New directions for public health". University of Kentucky, Department of Preventive Medicine. March 2022.

"Epidemiology of COVID-19". Departments of Epidemiology and Biostatistics Seminar. University of Kentucky, College of Public Health. August 2020.

"COVID-19: Epidemiology on the global stage". Guest lecture for CPH 310, Disease Detectives. August 2020.

"COVID-19 Infection control and prevention: What we know now". University of Kentucky, College of Public Health. Great Teachers Seminar. June 2020.

"Flattening the Curve". Alliance for Health Policy. March 2020.

"COVID-19". Next Generation Science Standards Leadership Network Meeting. March 2020.

"Coronavirus & Public Health". Emerging Issues Seminar, University of Kentucky, College of Public Health. February 2020.

"Vaccines and Vaccine-preventable Diseases". Guest lecture for CPH 310, Disease Detectives. October 2019.

"Epidemiology". Biomedical Science Academy - Frederick Douglass High School. September 2019.

"Vaccines and Vaccine-preventable Diseases". Guest lecture for CPH 310, Disease Detectives. April 2019.

"Vaccines and Vaccine-preventable Diseases". Guest lecture for CPH 310, Disease Detectives. November 2018.

"Occupational Exposures to Infectious Diseases: Emerging Diseases and Protecting Healthcare Workers". Guest lecture for CPH 617 Environmental and Occupational Epidemiology. October 2018.

"Counterfactuals & DAGs". Guest lecture for CPH 712/910, Advanced Epidemiology. January 2018.

AWARDS AND HONORS

April 2023	Paper of the Year University of Kentucky College of Public Health
April 2023	Delta Omega Honor Society
2019-2020	Associate in the Building Interdisciplinary Research Careers in Women's Health (BIRCWH) mentorship program (NIH) University of Kentucky
March 2016	Outstanding Achievement in Public Health PHAME Award California Department of Public Health
October 2015	UCSF Staff Appreciation and Recognition Award California Department of Public Health, Immunization Branch
June 2014	Commissioner's Special Citation Department of Health and Human Services, Food and Drug Administration
September 2011	Superior Performance Award California Department of Public Health, Division of Communicable Disease Control
December 2010	Superior Performance Award California Department of Public Health, Division of Communicable Disease Control

SERVICE

College and University

2016-2020	Chair, Public Health Practice and Community Engagement Committee University of Kentucky, College of Public Health
2019-2020	Epidemiology Department representative, MPH Coordinating Committee, College of Public Health
2018, 2019, 2020	Epidemiology and Biostatistics Doctoral Program Comprehensive Exam Committee
2018	Research Symposium Judge, UK Society of Postdoctoral Scholars
2017	Epidemiology and Biostatistics Doctoral Program Curriculum Committee
2016-2020	Strategic Planning Steering Committee, Department of Epidemiology representative
2016-2020	Perinatal Research and Wellness Center, College of Nursing, University of Kentucky

State

2022	Science Lead, Kentucky Department for Public Health Eastern Kentucky Flood Community Assessment for Public Health Emergency Response (CASPER) survey
2022	Science Lead, Kentucky Department for Public Health Monkeypox Virus Outbreak Incident Command Emergency Response
2022	Epidemiology Lead, Kentucky Department for Public Health Eastern Kentucky Flood Incident Command Emergency Response
2021-present	Kentucky Long Term Care Task Force member
2021-present	Kentucky Public Health Workforce Development Advisory Committee member
2021-present	Science Lead, Kentucky Department for Public Health COVID-19 Incident Command Emergency Response
2021	Epidemiology Lead, Kentucky Department for Public Health Western Kentucky Tornado

2000-present Incident Command Emergency Response
 Kentucky One Health Awareness Committee member
 2016-2020 University Collaboration Committee member
 Building Epidemiology Capacity in Kentucky
 2019 Statewide Hepatitis C Elimination Strategic Planning Committee member

National

2021-present Council for State and Territorial Epidemiologists, Voting member for Kentucky
 2021-2022 Council for State and Territorial Epidemiologists Annual Conference planning committee member
 2021 National Institutes of Health Early Career Reviewer
 Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions (IRAP):
 Infectious Disease Epidemiology study section
 2019-present Vaccine Advisory Committee, Pediatric Infectious Disease Society

Membership in Professional Societies

2020-present Infectious Diseases Society of America
 2018-present Pediatric Infectious Disease Society
 2016, 2021-present Council for State and Territorial Epidemiologists

Community

2021 Fayette County Public Schools COVID-19 Task Force member
 2018-2020 President, Aylesford Place Neighborhood Association
 Lexington, Kentucky
 2017-2018 Professional Development Committee member
 The Ohio State University, College of Public Health Alumni Society

Ad-hoc JOURNAL REVIEWS (recent)

Epidemiology and Infection	2019
Vaccines	2019*, 2018, 2017
Journal of Appalachian Health	2019
Expert Review of Vaccines	2019
JAMA	2018
Clinical Infectious Disease	2018
PlosOne	2018 [†]
American Journal of Preventive Medicine	2018
Journal of Pediatrics	2017
Journal of Adolescent Health	2017*
Journal of the Pediatric Infectious Diseases Society	2017
Frontiers in Public Health	2017
Population Research and Policy Review	2017
JAMA Pediatrics	2016
American Journal of Infection Control	2016
Public Health	2016
Emerging Infectious Diseases	2016*

*indicates multiple reviews

[†]Indicates Guest Academic Editor

TEACHING

Courses

CPH 612, Infectious Disease Epidemiology
Spring 2023: Enrollment 14 students
Spring 2022: Enrollment 12 students
Spring 2021: Enrollment 24 students
Spring 2020: Enrollment 14 students
Spring 2019: Enrollment 8 students
Spring 2018: Enrollment 14 students

CPH 786, Doctoral Seminar
Spring 2020, with co-instructor Anna Kucharska-Newton: Enrollment 18 students
Fall 2019, with co-instructor Anna Kucharska-Newton: Enrollment 18 students

CPH 561/BIO 561/ENT 561, Insects Affecting Human Health
Fall 2020, with co-Instructor Zain Syed: Enrollment: 23 students
Fall 2019, with Co-Instructor Zain Syed: Enrollment: 22 students

CPH 605, Epidemiology
Fall 2018: Enrollment: 65 students
Fall 2017: Enrollment: 88 students
Fall 2016: Enrollment: 41 students

CPH 712/910, Advanced Epidemiology
Spring 2018: Enrollment: 20 students

ADVISING AND CAPSTONE COMMITTEES

MPH (Chair)

Ines Roy, MPH in Epidemiology, in progress.

Hannah Hiscox, MPH in Epidemiology, in progress.

Abigail Bushman, MPH in Epidemiology, in progress.

Kendra Barger, MPH in Epidemiology, awarded May 2020. Capstone: "Incidence of fluoroquinolone-related adverse effects among patients receiving antibiotics for urinary tract infections and/or community acquired pneumonia."

Ayooluwatomiwa (Deborah) Adekunle, MPH in Epidemiology, awarded May 2019. Capstone: "Trends in opioid use disorder among pregnant women and the inpatient use of narcotics to manage peripartum pain".

Madison Liford, MPH in Epidemiology, awarded December 2017. Capstone: "The role of stress in the relationship between shift worked and hypertension."

MPH (Member)

Delaney Bonds, MPH in Environmental Health, awarded May 2023.

Harrison Hynes, MPH in Epidemiology, awarded May 2023. Capstone: "Epidemiology of SARS-CoV-2 Breakthrough Infections in Kentucky March 1st 2021-December 31st, 2022".

Annelise King, MPH in Epidemiology, awarded May 2023. Capstone: "Changes in Severity of Diabetes at Diagnosis Following the Onset of the COVID-19 Pandemic".

Gunnar Kennedy, MPH in Epidemiology, awarded May 2022. Capstone: "Cannabis Use Rates and Modes of Use in Kentucky, 2020".

Cynthia Mofunanya, MPH in Environmental Health, awarded May 2021.

Javaria Zafar, MPH in Epidemiology, awarded May 2020. Capstone: "Maternal demographic and psychosocial risk factors associated with poor attendance of Centering Pregnancy group prenatal care."

Paul Bellamy, MPH in Environmental Health, awarded May 2019. Capstone: "Prevalence of type I sensitization to alpha-gal within Kentucky loggers and other forestry workers."

Danette Cook, MPH in Environmental Health, awarded May 2019. Capstone: "A cross sectional study of drinking water quality and health effects in the El Bua Tsáchila community, Santo Domingo de los Tsáchilas, Ecuador."

Jessica Hoskins, MPH in Environmental Health, in progress.

Cameron Wade, MPH in Epidemiology, Independent Study: "Alpha-blockers on risk of prostate cancer among VA patients", completed December 2018.

Charles Rhea, MPH in Epidemiology, awarded May 2018. Capstone: "Understanding the silent crisis: An analysis of suicide methods among females in Kentucky."

Jessica Morehouse, MPH in Epidemiology, awarded May 2018. Capstone: "Select antimicrobial resistance trends in Kentucky's bovine population and antibiogram development."

April Ballard, MPH in Environmental Health, awarded May 2017. Capstone: "Effects of improved water and sanitation access on childhood diarrhea in Peru."

Katherine Jay, MPH in Epidemiology, awarded May 2017. Capstone: "Vaccine-preventable disease surveillance in Kentucky."

MS (chair)

Clay Bryant, MS in Epidemiology, in progress.

PhD

Monica Cipriani, PhD in Epidemiology, in progress.

Courtney Walker, PhD in Epidemiology, "Pre-eclampsia among women in Kentucky", Independent study completed December 2018. Degree awarded December 2021. Dissertation: Early onset hypertensive disorders in Kentucky 2008-2017: An assessment of geocoding precision, pregnancy profiles, and the influence of exposure to environmental emissions."

DrPH

Eric Wilson, DrPH in Epidemiology, awarded December 2021. Capstone: "Risk factors of carbapenem-resistant Enterobacteriaceae acquisition among adult intensive care unit patients at a Kentucky academic medical center".

Outside Examiner

Lori Ogden, PhD in Nursing, awarded December 2019. Dissertation: "The impact of maternal nutrition during pregnancy on inflammation and birth outcomes".