

KATHERINE AHRENS
Katherine.ahrens@maine.edu

EDUCATION

- 2012 **Boston University**
Ph.D., Epidemiology
Dissertation committee chair: Martha Werler
- 2004 **University of Michigan**
M.P.H., Epidemiology
- 1999 **Harvard University**
A.B. with honors, Biology

RESEARCH POSITIONS

- 2018-present Assistant Research Professor
Public Health Program
Muskie School of Public Service
University of Southern Maine
Program chair: Erika Ziller
- 2018-present Visiting Scientist
Center for Outcomes Research and Evaluation
Maine Medical Center Research Institute
Director: Paul Han
- 2016-2018 Health Scientist
Office of the Assistant Secretary for Health
Office of Population Affairs
Supervisor: Sue Moskosky
- 2014-2016 Senior Service Fellow
Centers for Disease Control and Prevention
National Center for Health Statistics, Office of Analysis and Epidemiology
Infant, Child and Women's Health Statistics Branch
Supervisor/colleague: Alan Simon
- 2012-2014 Postdoctoral Fellow
National Institutes of Health
Eunice Kennedy Shriver National Institute of Child Health & Human Development
Division of Epidemiology, Statistics and Prevention Research
Mentor: Enrique Schisterman
- 2009-2010 Research Analyst
Slone Epidemiology Center at Boston University
Supervisor: Martha Werler
- 2005-2008 Epidemiologist I

STD Prevention and Control
City and County of San Francisco
Supervisor: Jeff Klausner

2004-2005 Epidemiologist I
STD Control Branch
State of California
Supervisor: Michael Samuels

2003 Research Intern
Lucile Packard Children’s Hospital Vaccine Program
Stanford School of Medicine
Supervisor: Cory Dekker

2001-2002 Clinical Research Assistant
Substance Abuse Research Unit
Rhode Island Hospital
Supervisor: Michael Stein

2000-2001 Research Assistant
Ecosystems Center
The Marine Biological Laboratory
Supervisor: Knute Nadelhoffer

1999 Student Conservation Association Intern and AAUS SCUBA diver
Florida Marine Research Institute
Supervisor:Carolynn Cox

TEACHING AND MENTORING

2019- PRESENT Instructor,
Applied biostatistical analysis
MPH 545: Fall 2019

2019- PRESENT Instructor,
Regression models in the health sciences
MPH 677: Spring 2019, 2020

2020 Emily Bauer, Nursing Student
University of Southern Maine, College of Nursing
Project title: *Trends in neonatal abstinence syndrome among births in Maine (2009-2018)*

2020 Oghenetega Dibia, Master’s Student
University of Southern Maine, Department of Statistics
Project title: *Data transformation mapping the Maine All Payer Claims Data (APCD) into the Observational Health Data Sciences and Informatics (OHDSI) Common Data Model*

- 2019 Mentor
Sarah Gabrielson, MPH Student
University of Southern Maine, Public Health Program
Project title: *Opioid use disorder at delivery hospitalization in Maine: Prevalence and characteristics (2009-2017)*
Winner of the American Public Health Association – Student Assembly, Outstanding Student Abstract Award
- 2019 Mentor
Jaclyn Janis, MPH Student
University of Southern Maine, Public Health Program
Project title: *Female age at first sexual intercourse by rural-urban residence and birth cohort*
- 2017 Mentor
Sarah Haight, MPH Student
Epidemiology Department, Emory University
Project title: *Short Interpregnancy Intervals and Adverse Pregnancy Outcomes by Maternal Age in the United States, 2013-2015*
- 2016 Mentor
Kelsey Rivers, undergraduate
George Mason University
Project title: *Parity associated with telomere length among US reproductive age women*
- 2014 Certificate of training for completion of 9 week course *Scientists Teaching Science* from the Office of Intramural Training & Education at the National Institutes of Health
- 2013 Summer Student Course, Organizer and Instructor
National Institutes of Health
Eunice Kennedy Shriver National Institute of Child Health and Human Development
Division of Epidemiology, Statistics and Prevention Research
- 2013 Mentor
Maya Shimony, Summer Fellow, MPH Student
Epidemiology and Biostatistics Department, George Washington University
Project title: *Sugar sweetened beverage consumption and liver damage biomarkers*
- 2011 Teaching Assistant, Advanced Epidemiology
Primary Instructor: Matthew Fox
Epidemiology Department
Boston University School of Public Health
- 2011 Teaching Assistant, Intermediate Epidemiology
Primary Instructor: Sherri Stuver
Epidemiology Department
Boston University School of Public Health

- 2006 Instructor, Introductory Epidemiology
Holy Names University
- 2002, 2003 Graduate Student Instructor, Biology for Nonscientists
Primary Instructor: Josephine Kurdziel
Ecology and Evolutionary Biology Department
University of Michigan
- 2003, 2004 Graduate Student Instructor, AIDS and Other Health Crises
Primary Instructor: Robert Bender
Ecology and Evolutionary Biology Department
University of Michigan

AWARDS AND SCHOLARSHIPS

- 2017, 2018 Nominated for the Charles C. Shepard Science Award, which is presented annually to the best manuscript on original research published by a CDC or ATSDR scientist in a reputable, peer-reviewed journal in the previous year.
- 2013 Winner of Fellows Award for Research Excellence (FARE). National Institutes of Health, Office of Intramural Training and Development. Awarded travel scholarship to attend Society for Maternal-Fetal Medicine's Annual Meeting in February 2014.
- 2012 Selected for 2nd Annual Society for Epidemiologic Research (SER) Student Web Meeting presentation, November 17, 2012. Awarded travel scholarship to present at SER's annual meeting in Boston 2013.
- 2012 Member of the Delta Omega Society, a public health honorary society for students graduating in the top 10% of their class.
- 2011 Selected for participation at the National Institutes of Health National Graduate Student Research Conference October, Bethesda, Maryland
- 2008-2012 Recipient of an National Institutes of Health pre-doctoral training grant: Boston University Reproductive, Perinatal and Pediatric Epidemiology training program (T32 HD052458)
- 2009 Selected for participation at the National Institute of Child Health & Human Development (NICHD) and Canadian Institutes of Health Research (CIHR)'s Summer Institute in Reproductive and Perinatal Epidemiology, Val-David, Quebec, Canada
- 2006 Selected for the Director's Service Award in recognition of outstanding contribution to the STD Prevention and Control Section, City and County of San Francisco, CA

CURRENT RESEARCH PROJECTS

- 9/1/2019-
8/31/2020 Award # 6 U1CRH037616-16-01 Ahrens (PI)
Maine Rural Health Research Center, supported by a grant from the Health Services and Resources Administration, US Department of Health and Human Services
A Current Examination of HIV and Hepatitis C in Rural Counties
This project uses existing data from federal and state sources. We are compiling county-level data on HIV prevalence, acute HCV incidence, and the availability of Ryan White HIV/AIDS medical providers and other HIV and HCV treatment and testing services at a county level across the rural-urban continuum for 2016. We are also using US birth certificates to estimate county-level prevalence of maternal HCV infection from 2010-2018.
- 10/1/2019-
6/30/2020 Award# 112366-ROSEN-CTR-PILOT-12 Ahrens (PI)
Round 3 Pilot Project, Northern New England Center for Translational Research, National Institutes of Health
The health outcomes of pregnant women with opioid use disorder: Maine and Vermont
This project uses data from the Maine All-Payer Claims Database. The aims of this project are to: 1) estimate the proportion of pregnant women with opioid use disorder in 2010-2017 in Maine and Vermont, separately, and describe the distribution and length of opioid treatment during pregnancy and during the first year postpartum; 2) compare health care use and health outcomes during pregnancy and during the first year postpartum by treatment type and retention status among women with opioid use disorder in 2010-2017 in Maine and Vermont; and 3) identify stakeholders and explore the permissions, memoranda of understandings, and data use agreements required so that administrative claims data and vital statistics (birth, death) data can be linked within each state.
- 11/1/2019-
8/31/2021 Award# CT 10A 20191003*1186 CA-MC-20-100 Ahrens (PI)
MaineCare, Maine Department of Health
Participation in the State-University Partnership Learning Network's Medicaid Outcomes Distributed Research Network to study opioid use disorder treatment quality and outcomes
This project supports the efficient and effective administration of the Maine Medicaid program (MaineCare) and cross-state research on issues of shared interest to Medicaid directors in other participating states through the State University Partnership Learning Network Medicaid Outcomes Distributed Research Network (SUPLN MODRN), with an initial focus on opioid-use disorders. MaineCare's participation in MODRN will enable the state to benchmark Maine's opioid-related performance measures and outcomes against other states using standardized methods.
- 7/1/2019-
6/30/2020 Award# MEIF – Cost Share, Internal Funding Ahrens(PI)
Maine Economic Improvement Fund
Maine Medical Center Research Institute Rural Core
This project creates the data transformation mapping needed to convert the Maine All Payer Claims Data (APCD) into the Observational Health Data Sciences and Informatics (OHDSI) Common Data Model, a well-established international data model that can improve efficiency medical claims data analysis and use.

COMPLETED RESEARCH PROJECTS

- 2014-2015 Feasibility of Processing and Assaying Frozen Placental Specimens from the EAGeR (Effects of Aspirin in Gestation and Reproduction) Trial
Role: Co-investigator
- 2018-2019 Estimates of U.S. pregnancy rates using federal data
Interagency agreement with the National Center for Health Statistics, CDC
Role: Co-investigator

PEER-REVIEWED PUBLICATIONS

1. Simon AE, **Ahrens KA**. Adherence to vitamin D intake guidelines in the United States. *Pediatrics*, *in press*.
2. Nenninger KE, Carwile JL, **Ahrens KA**, Armstrong BA, Thakrar. Rural-urban differences in hospitalizations for opioid use-associated infective endocarditis in the United States, 2003–2016. *Open Forum Infectious Diseases*, *in press*.
3. Gabrielson S, Carwile J, O'Connor A, **Ahrens KA**. Opioid use disorder among deliveries in a rural state: Maine, 2009-2017. *Public Health*, *in press*.
4. Thoma ME, Rossen LM, Da Silva DA, Warner M, Simon AE, Moskosky S, **Ahrens KA**. Beyond birth outcomes: interpregnancy interval and injury-related infant mortality. *Paediatric and Perinatal Epidemiology*. 2019 Sep;33(5):360-370. doi: 10.1111/ppe.12575
5. Janis J, Ziller E, **Ahrens KA**. Age at first sex by birth cohort and rural-urban residence in the United States. *Women's Health Issues*. 2019 Aug 20. pii: S1049-3867(19)30020-9. doi: 10.1016/j.whi.2019.07.004.
6. Loyola Briceno AC, **Ahrens KA**, Thoma ME, Susan Moskosky. Family planning services related to achieving pregnancy in US publicly funded health centers: Results from a survey of health center administrators. *Women's Health Issues*. 2019 Nov - Dec;29(6):447-454. doi: 10.1016/j.whi.2019.07.005.
7. Fowler C, **Ahrens KA**, Decker EJ, Gable J, Wang J, Frederiksen B, Loyola Briceno AC, Moskosky S. Patterns and trends in contraceptive use among women attending Title X clinics and a national sample of low-income women, *Contraception X*. 10⁹ <https://doi.org/10.1016/j.conx.2019.100004>.
8. Carwile J, Fleish A, Young K, **Ahrens KA**. The “new” secondhand smoke: e-cigarette use in US households with children. *JAMA Pediatrics*. 2019 Jul 1;173(7):693-695. doi: 10.1001/jamapediatrics.2019.1139.
9. Haight SC, Hogue CJ, Raskind-Hood C, **Ahrens KA**. Short interpregnancy intervals and adverse pregnancy outcomes by maternal age in the United States. *Annals of Epidemiology*, 2019 Mar;31: 38-44.

10. Dianat S, Fox E, **Ahrens KA**, Upadhyay UD, Zlidar V, Gallo MF, Stidd R, Moskoksy S, Dehlendorf C. Side effects and health benefits of depot medroxyprogesterone acetate: A systematic review. *Obstetrics and Gynecology*, 2019 Feb; 133(2): 332-341.
11. Vladutiu CJ, **Ahrens KA**, Verbiest S, Menard MK, Stuebe AM. Health and well-being of mothers in the United States, 2007-2012. *Journal of Women's Health*, 2018 Nov 20. doi: 10.1089/jwh.2018.7204. [Epub ahead of print]
12. Frederiksen BN, Rivera M, **Ahrens KA**, Malcolm N, Brittain AW, Rollison J, Gavin L, Moskosky SB. Clinic-based programs to prevent repeat teen pregnancy: a systematic review. *American Journal of Preventive Medicine*, 2018 Nov;55(5):736-746.
13. **Ahrens KA**, Moskosky S. Introduction to the Supplement: Updating the systematic reviews used to develop the U.S. Recommendations for Providing Quality Family Planning Services. *American Journal of Preventive Medicine*, 2018 Nov;55(5):671-676.
14. **Ahrens KA**, Hutcheon J, Ananth CV, Basso O, Briss PA, Ferré CD, Frederiksen BN, Harper S, Hernández-Díaz S, Hirai AH, Kirby RS, Klebanoff MA, Lindberg L, Mumford SL, Nelson HD, Platt RW, Rossen LM, Stuebe AM, Thoma ME, Vladutiu CJ, Moskosky S. Report of the Office of Population Affairs expert work group meeting on short birth spacing and adverse pregnancy outcomes: methodological quality of existing studies and future directions for research. *Paediatric and Perinatal Epidemiology*. 2019 Jan;33(1):05-014. doi: 10.1111/ppe.12504
15. Hutcheon J, Moskosky S, Ananth CV, Basso O, Briss PA, Ferré CD, Frederiksen BN, Harper S, Hernández-Díaz S, Hirai AH, Kirby RS, Klebanoff MA, Lindberg L, Mumford SL, Nelson HD, Platt RW, Rossen LM, Stuebe AM, Thoma ME, Vladutiu CJ, **Ahrens KA**. Good practices for studying the causal effect of short birth spacing on adverse pregnancy outcomes. *Paediatric and Perinatal Epidemiology*. 2019 Jan;33(1):015-024. doi: 10.1111/ppe.12512
16. **Ahrens KA**, Nelson HD, Stidd R, Moskosky S, Hutcheon J. Short interpregnancy intervals and adverse perinatal outcomes in high-resource settings: An updated systematic review. *Paediatric and Perinatal Epidemiology*. 2019 Jan;33(1):025-047. doi: 10.1111/ppe.12503
17. Hutcheon J, Nelson HD, Stidd R, Moskosky S, **Ahrens KA**. Short interpregnancy intervals and adverse maternal outcomes in high-resource settings: An updated systematic review. *Paediatric and Perinatal Epidemiology*. 2019 Jan;33(1):048-059. doi: 10.1111/ppe.12518
18. **Ahrens KA**, Hutcheon JA. Introduction to the Supplement: Birth spacing in the United States. *Paediatric and Perinatal Epidemiology*. 2019 Jan;33(1):01-04. doi: 10.1111/ppe.12523
19. Sjaarda LA, **Ahrens KA**, Kuhr DL, Holland TL, Omosigho BS, Steffen BT, Weir NL, Tollman HK, Silver RM, Tsai MY, Schisterman EF. Placental tissue collection, processing, and measurement procedures for application in large scale assessment of placental inflammation. *PLoS One*, 2018. May 11;13(5):e0197039.

20. **Ahrens KA**, Thoma ME, Copen CE, Frederiksen BN, Decker EJ, Moskosky S. Unintended pregnancy and interpregnancy interval by maternal age, National Survey of Family Growth. *Contraception*, 2018 Jul;98(1):52-55.
21. Pollack AZ, Rivers K, **Ahrens KA**. Telomere length and parity among reproductive aged women in the US. *Human Reproduction*, 2018 Apr 1;33(4):736-744.
22. Rossen LM, **Ahrens KA**, Branum AM. Trends in pregnancy loss among US women: National Survey of Family Growth 1991-2011. *Paediatric and Perinatal Epidemiology*, 2018 Jan;32(1):19-29.
23. Decker EJ, **Ahrens KA**, Fowler CI, Carter M, Gavin L, Moskosky S. Trends in health insurance coverage of Title X Family Planning Program clients, 2005-2015. *Journal of Women's Health*, 2018. May;27(5):684-690.
24. Frederiksen BN, **Ahrens KA**, Gavin LE, Moskosky S. Global goals for contraception: how does the United States compare? *Perspectives on Reproductive and Sexual Health*, 2017 Dec;49(4):197-205.
25. **Ahrens KA**, Thoma M, Rossen LM, Warner M, Simon AE. Birth order and injury-related infant mortality in the United States. *American Journal of Preventive Medicine*. 2017 Oct; 53(4): 412-420.
26. Gavin LE, **Ahrens KA**, Dehlendorf CD, Frederiksen BN, Decker E, Moskosky S. Future directions in performance measures for contraceptive care: a proposed framework. *Contraception*. 2017 Sep; 96(3): 138-144.
27. **Ahrens KA**, Hutcheon J, Gavin L, Moskosky S. Reducing unintended pregnancies as a strategy to avert Zika-related microcephaly births in the United States: a simulation study. *Maternal Child Health Journal*. 2017 May; 21(5): 982-987.
28. Branum AM, **Ahrens KA**. Trends in gestational age at time of pregnancy awareness, National Survey of Family Growth 1995-2013. *Maternal Child Health Journal*. 2016 Jul 23.
29. **Ahrens KA**, Haley B, Rossen LM, Lloyd PC, Aoki Y. Housing assistance and blood lead levels in children in the United States, 2005-2012. *American Journal of Public Health*. 2016 Nov; 106 (11): 2049-2056.
30. **Ahrens KA**, Thoma ME, Rossen LM, Warner M, Simon AE. Plurality and infant mortality due to external causes in the United States, 2000-2010. *American Journal of Epidemiology*. 2017 Mar; 185(5):335-344.
31. Sapra KJ, Chaurasia AK, Hutcheon JA, **Ahrens KA**. Reconstructing a pregnancy cohort to examine potential selection bias in studies of racial disparities in preterm delivery. *Paediatric and Perinatal Epidemiology*. 2017 Jan; 31(1): 55-63.
32. **Ahrens KA**, Rossen LM, Branum AM. Pregnancy loss history at first parity and risk of adverse pregnancy outcomes. *Annals of Epidemiology*. 2016 Jul; 26(7): 474-481.

33. Schisterman EF, Perkins NJ, Mumford SL, **Ahrens KA**, Mitchell E. Collinearity—a lesson on the importance of model specification. *Epidemiology*. 2017 Jan; 28(1): 47-53.
34. **Ahrens KA**, Silver RM, Perkins NJ, Wong L, Galai N, Leshner LL, Faraggi D, Wactawski-Wende J, Townsend JM, Lynch AM, Mumford SL, Schisterman EF. Complications and safety of preconception low-dose aspirin among women with prior pregnancy losses. *Obstetrics and Gynecology*. 2016 Apr; 127(4): 689-698.
35. **Ahrens KA**, Rossen LM, Simon AE. The relationship between mean leukocyte telomere length and measures of allostatic load in US reproductive aged women, NHANES 1999–2002. *Paediatric and Perinatal Epidemiology*. 2016 Jul; 26(7): 474-481.
36. Simon AE, **Ahrens KA**, Akinbami LJ. Influenza vaccination among US children with asthma, 2005-2013. *Academic Pediatrics*. 2016 Jan-Feb;16(1):68-74
37. **Ahrens KA**, Rossen LM, Simon AE. Adherence to vitamin D recommendations among U.S. infants aged 0–11 months, NHANES 2009–2012. *Clinical Pediatrics*. 2016 Jun; 55(6):555-556.
38. Shimony MK, Mumford SL, Schliep KC, **Ahrens KA**, Sjaarda LA, Rotman Y, Perkins JN, Pollack AZ, Wactawski-Wende J, Schisterman EF. The relationship between sugar-sweetened beverages and liver enzymes among healthy premenopausal women: a prospective cohort study. *European Journal of Nutrition*. 2016 Mar; 55(2):569-576
39. Matyas RA, Mumford SL, Schliep KC, **Ahrens KA**, Sjaarda LA, Perkins NJ, Filiberto AC, Mattison D, Zarek SM, Wactawski-Wende J, Schisterman EF. Effects of over-the-counter analgesic use on reproductive hormones and ovulation in healthy, premenopausal women. *Human Reproduction*. 2015 Jul; 30(7):1714-1723.
40. Silver RM, **Ahrens KA**, Perkins NJ, Wong L, Galai N, Leshner LL, Faraggi D, Wactawski-Wende J, Townsend JM, Lynch AM, Mumford SL, Schisterman EF. Low dose aspirin and preterm birth: a randomized controlled trial. *Obstetrics and Gynecology*. 2015 Apr; 124 (4):876-884.
41. **Ahrens KA**, Cole SR, Westreich D, Platt RW, Schisterman EF. A cautionary note about estimating effect of secondary exposures in cohort studies. *American Journal of Epidemiology*, 2015 Feb 1; 181 (3):198-203.
42. Schliep KC, Mumford SL, Vladutiu CJ, **Ahrens KA**, Perkins NJ, Prasad A, Wactawski-Wende J, Schisterman EF. Perceived stress, reproductive hormones, and ovulatory function among premenopausal women in the BioCycle Study. *Epidemiology*, 2015 Mar; 26 (2):177-184.
43. **Ahrens KA**, Kerr S, Louik C, Mitchell AA, Werler MM. Influenza vaccination during pregnancy and the risks of preterm and small for gestational age (SGA) birth. *Paediatric and Perinatal Epidemiology*. 2014 Nov; 28 (6):498-509.
44. Prasad A, Schisterman EF, Schliep KC, **Ahrens KA**, Sjaarda LA, Perkins NJ, Matyas R, Wactawski-Wende J, Mumford SL. Depressive symptoms and their relationship with endogenous reproductive hormones and sporadic anovulation in premenopausal women. *Annals of Epidemiology*. 2014 Oct; 24 (12):920-924.

45. Schliep KC, Mumford SL, **Ahrens KA**, Hotaling JM, Carrell DT, Link M, Hinkle SN, Kissell KA, Porucznik CA, Peterson CM, Hammoud AO. The effect of male and female body mass index on pregnancy and live birth success after *in vitro* fertilization. *Fertility and Sterility*, 2015 Feb; 103 (2):388-395.
46. Schliep KC, Mumford SL, Hammoud AO, Stanford JB, Kissell KA, Sjaarda LA, Perkins NJ, **Ahrens KA**, Wactawski-Wende J, Mendola P, Schisterman EF. Luteal phase deficiency in regularly menstruating women: prevalence and overlap in identification based on clinical and biochemical diagnostic criteria. *Journal of Clinical Endocrinology and Metabolism*, 2014 Jun; 99 (6):E1007-1014
47. Prasad A, Mumford SL, Buck Louis GM, **Ahrens KA**, Sjaarda LA, Schliep KC, Perkins NJ, Kissell KA, Wactawski-Wende J, Schisterman EF. Sexual activity, endogenous reproductive hormones and ovulation in premenopausal women. *Hormones and Behavior*, 2014 Jul; 66 (2):330-338
48. Kissell KA, Danaher M, Schisterman EF, Wactawski-Wende J, **Ahrens KA**, Schliep KC, Perkins JN, Sjaarda LA, Mumford SL. Serum anti-Müllerian hormone variation throughout the menstrual cycle in healthy regularly menstruating women. *Human Reproduction*, 2014 Aug; 29 (8):1764-1772
49. Pollack AZ, Sjaarda LA, **Ahrens KA**, Mumford SL, Browne RW, Wactawski-Wende J, Schisterman EF. Association of cadmium, lead and mercury with paraoxonase 1 activity in women. *PLoS One*, 01/2014; 9 (3):e92152.
50. **Ahrens KA**, Mumford SL, Schliep KC, Kissell KA, Perkins NJ, Wactawski-Wende J, Schisterman EF. The effect of serum leptin levels on reproductive hormones and the risk of sporadic anovulation. *American Journal of Obstetrics and Gynecology*. 2014 Mar; 210 (3):248.e1-9
51. **Ahrens KA**, Vladutiu CJ, Mumford SL, Schliep KC, Perkins NJ, Wactawski-Wende J, Schisterman EF. The effects of physical activity across the menstrual cycle on reproductive function. *Annals of Epidemiology*. 2014 Feb; 24 (2):127-34
52. Louik C, **Ahrens K**, Kerr S, Pyo J, Chambers C, Jones K, Schatz M, Mitchell A. Risks and safety of pandemic H1N1 influenza vaccine in pregnancy: exposure prevalence, preterm delivery and specific birth defects. *Vaccine*. 2013 Oct; 31 (44): 5033-5040
53. **Ahrens K**, Anderka M, Feldkamp M, Canfield M, Mitchell A, Werler M. Antiherpetic medication use and the risk of gastroschisis: findings from the National Birth Defects Prevention Study. *Paediatric and Perinatal Epidemiology*. 2013 May; 27 (3): 258-262.
54. **Ahrens K**, Lash TL, Louik C, Mitchell AA, Werler MM. Correcting for exposure misclassification using survival analysis with a time-varying exposure. *Annals of Epidemiology*. 2012 November; 22 (11):799-806.
55. Werler MM, **Ahrens KA**, Bosco JLF, Mitchell AA, Anderka MT, Gilboa SM, Holmes LB and the National Birth Defects Prevention Study. Use of antiepileptic medications in pregnancy in relation to risks of birth defects. *Annals of Epidemiology*. 2011 November; 22 (11): 842-850.

56. **Ahrens K**, Yazdy M, Mitchell AA, Werler MM. Folic acid intake and spina bifida in the era of dietary folic acid fortification. *Epidemiology*. 2011 May; 22 (5):731-737.
57. Katz KA, Pillay A, **Ahrens K**, Kohn RP, Hermanstynne K, Bernstein KT, Ballard RC, Klausner JD. Molecular epidemiology of syphilis—San Francisco, 2004-2007. *Sex Transm Dis*. 2010 Oct; 37(10); 660-663.
58. Gertler S, **Ahrens K**, Klausner JD. Increased knowledge of safe and appropriate penicillin injection after viewing brief instructional video titled "How to Inject Bicillin LA". *Sex Transm Dis*. 2009 Mar; 36 (3); 147-148.
59. Zetola NM, Bernstein K, **Ahrens K**, Marcus JL, Philip S, Nieri G, Jones D, Hare CB, Hsu L, Scheer S, Klausner JD. Using surveillance data to monitor entry into care of newly diagnosed HIV-infected persons: San Francisco, 2006-2007. *BMC Public Health*. 2009 Jan 14; 9:17.
60. Scott KC, Philip S, **Ahrens K**, Kent CK, Klausner JD. High prevalence of gonococcal and chlamydial infection in men who have sex with men with newly diagnosed HIV infection: an opportunity for same-day presumptive treatment. *J Acquir Immune Defic Syndr*. 2008 May 1; 48 (1):109-112.
61. Philip SS, **Ahrens K**, Shayevich C, de la Roca R, Williams M, Wilson D, Bernstein K, and Klausner JD. Evaluation of a new point-of-care serologic assay for herpes simplex virus type 2 infection. *Clin Infect Dis*. 2008 Nov 15; 47(10):e79-82.
62. Liu AY, Kittredge PV, Vittinghoff E, Raymond HF, **Ahrens K**, Matheson T, Hecht J, Klausner JD, Buchbinder SP. Limited knowledge and use of HIV post- and pre-exposure prophylaxis among gay and bisexual men. *J Acquir Immune Defic Syndr*. 2008 Feb 1; 47(2):241-247.
63. **Ahrens K**, Kent CK, Kohn RP, Nieri G, Reynolds A, Philip S, Klausner JD. HIV partner notification outcomes for HIV-infected patients by duration of infection, San Francisco, 2004 to 2006. *J Acquir Immune Defic Syndr*. 2007 Dec 1; 46(4):479-484
64. Moss N, Harper C, **Ahrens K**, Scott K, Padian N, Raine T, Klausner JD. Predictors of incident herpes simplex virus type 2 infections in young women at risk for unintended pregnancy in San Francisco. *BioMed Central Infectious Diseases*. 2007 Sep 26; 7:113.
65. Papp J, **Ahrens K**, Phillips C, Kent CK, Philip S, Klausner JD. The use and performance of oral-throat rinses to detect pharyngeal *Neisseria gonorrhoeae* and *Chlamydia trachomatis* infections. *Diagn Microbiol Infect Dis*. 2007 Nov; 59(3):259-264.
66. Vaudrey J, Raymond HF, Chen S, Hecht J, **Ahrens K**, McFarland W. Indicators of use of methamphetamine and other substances among men who have sex with men, San Francisco, 2003 – 2006. *Drug Alcohol Depend*. 2007 Sep 6; 90(1):97-100.
67. **Ahrens K**, Bradbury KJ, Bauer HM, Samuel MC, Gould G, Donatoni G, Higgins C, Kerndt P, Bolan G. Trends in the use of sexually transmitted disease diagnostic technologies in California, 1996-2003. *Sex Transm Dis*. 2007 Jul; 34(7):513-518.

68. Strona FV, McCright J, Hjord H, **Ahrens K**, Tierney S, Shoptaw S, Klausner JD. The acceptability and feasibility of the positive reinforcement opportunity project, a community-based contingency management methamphetamine treatment program, in gay and bisexual men, San Francisco. *Journal of Psychoactive Drugs*. 2006 November SARC Suppl 3: 377-381.
69. **Ahrens K**, Kent CK, Montoya JA, Rotblatt H, McCright J, Kerndt P, Klausner JD. Healthy Penis: San Francisco's social marketing campaign to increase syphilis testing among gay and bisexual men. 2006 *PLoS Medicine* Vol. 3, No. 12.

INVITED COMMENTARIES

70. **Ahrens K**, Schisterman EF. A time and place for causal inference methods in perinatal and paediatric epidemiology: commentary. *Paediatric and Perinatal Epidemiology*. 2013 July; 27 (4): 340-345.
71. **Ahrens KA**, Hutcheon JA. Optimal birth spacing: what can we measure and what do we want to know? *Paediatric and Perinatal Epidemiology*, 2018. Epublished.

BOOK CHAPTERS

72. Klausner JD and **Ahrens KA**. Health Communication and Surveillance Case Study: A Healthy Response to Increases in Syphilis—The San Francisco Healthy Penis Campaign. Eds: M'ikanatha, Lynfield, Van Beneden and de Valk: *Infectious Disease Surveillance* 1st edition 2007. Blackwell Publishing, Malden, Massachusetts.
73. Klausner JD and **Ahrens KA**. Health Communication and Surveillance Case Study: A Healthy Response to Increases in Syphilis—The San Francisco Healthy Penis Campaign. Eds: M'ikanatha, Lynfield, Van Beneden and de Valk: *Infectious Disease Surveillance* 2nd edition 2013. Blackwell Publishing, Malden, Massachusetts.

OTHER PUBLICATIONS

1. Gavin L, Pazol K, **Ahrens KA**. Update: Providing Quality Family Planning Services - Recommendations from CDC and the U.S. Office of Population Affairs, 2017. *MMWR Morb Mortal Wkly Rep*, 2017 Dec 22;66(50):1383-1385.
2. **Ahrens KA**, Thoma ME, Rossen LM. Letter to the Editor. Interpregnancy interval and adverse pregnancy outcomes: an analysis of successive pregnancies. *Obstetrics and Gynecology*. 2017. Aug;130 (2):464.
3. Pazol K, Robbins C, Black L, **Ahrens KA**, Chandra A, Daniels K, Martinez G, Vahratian A, Gavin L. Receipt of Selected Preventive Health Services for Women and Men of Reproductive Age - United States, 2011-2013, 2017 Oct 27;66(20):1-31.
4. Herrick K, **Ahrens KA**, Hamner H, Ogden C. *FROM DATA TO ACTION • CDC'S PUBLIC HEALTH SURVEILLANCE FOR WOMEN, INFANTS, AND CHILDREN*. Chapter on Child Health, Nutrition. 2019, *in press*.

5. Federal Interagency Forum on Child and Family Statistics. *America's Children: Key National Indicators of Well-Being, 2015*. Washington, DC: U.S. Government Printing Office. **Ahrens K**, contributing writer as staff of the Forum.
6. **Ahrens K**. *Consequences of controlling for viral diseases during pregnancy: antiherpetic medication and influenza vaccination*. A doctoral dissertation submitted to the Faculty of the Graduate School of Arts and Sciences at Boston University, May, 2012.
7. Moss NJ, **Ahrens K**, Kent CK, Klausner JD. Letter to the Editor: The decline in clinical sequelae of genital *Chlamydia trachomatis* infection supports current control strategies. *J Infect Dis*. 2006 May 1; 193(9): 1336-1338.

PROFESSIONAL ACTIVITIES

- | | |
|-------------------------------------|--|
| Co-guest editor | Theme issue: Updating the systematic reviews used to develop the U.S. Recommendations for Providing Quality Family Planning Services
Seven manuscripts and one commentary
<i>American Journal of Preventive Health</i>
December 2018 |
| Co-guest editor | Theme issue: Birth spacing in the U.S.: towards evidence-based recommendations
<i>Paediatric and Perinatal Epidemiology</i>
Six manuscripts and one commentary
January 2019 |
| Organizer | Office of Analysis and Epidemiology, National Center for Health Statistics, Centers for Disease Control and Prevention.
Monthly Pediatric and Perinatal Research Journal Club
2015-2016. |
| Co-organizer | NICHD Epidemiology and Reproductive Endocrinology & Infertility Joint Journal Club
2013-2014, NICHD Division of Intramural Population Health Research Epidemiologic Methods Club 2013-2014 |
| Reviewer | <i>American Journal of Epidemiology, American Journal of Obstetrics and Gynecology, American Journal of Perinatology, Annals of Epidemiology, Annals of Human Biology, British Medical Journal, Environmental Health Perspective, Epidemiology, European Journal of Clinical Nutrition, HIV Clinical Trials, Human Reproduction, Paediatric and Perinatal Epidemiology, Public Health Reports, Public Library of Science (PLOS), Sexually Transmitted Diseases Journal</i> |
| Member | <i>Society for Epidemiologic Research</i> (Abstract reviewer: 2013, 2014, 2015)
<i>Society for Pediatric and Perinatal Epidemiologic Research</i> (Abstract reviewer: 2012, 2013, 2014, 2015, 2016, 2017, 2018) |
| Abstract Reviewer/
Poster Judge: | National Conference on Health Statistics 2015 (Abstract reviewer), Society for Perinatal and Pediatric Epidemiologic Research (2016, 2017, 2020), Society for Epidemiologic Research (2018) |

PRESENTATIONS

INVITED TALKS AND SEMINARS

- 2019 University of British Columbia
Family Planning Fellow Seminar
Short interpregnancy intervals and pregnancy outcomes
September, Vancouver, BC Canada
- 2019 University of Tromsø
Family Planning Seminar
Contraception method imitation in young women: US and Norway
September, Tromsø, Norway
- 2018 Maine Medical Center Research Institute
Center for Outcomes Research and Evaluations
Housing assistance and blood lead levels in children in the United States, NHANES
2005-2012
December, Portland, ME
- 2017 Health disparities and housing
George Mason University
Guest lecture in *Environmental Epidemiology*
April, Fairfax, VA
- 2017, 2018 Health disparities and housing
University of Maryland, Family Sciences Department
Guest lecture in *Maternal, Child and Family Health*
April, College Park, MD
- 2016 Blood lead levels in children living in assisted housing in the United States
National Center for Health Statistics
Health Disparities Workgroup Seminar
May, Hyattsville, MD
- 2016 Straight from the source: pregnancy data from the National Survey of Family Growth
National Institutes of Health
Program in Reproductive and Adult Endocrinology
Research in Progress Conference Series
April, Bethesda, MD
- 2016 Using the pregnancy file from the National Survey of Family Growth (NSFG):
opportunities and pitfalls
George Washington University
Milken Institute School of Public Health
Department of Epidemiology and Biostatistics
Departmental Seminar
January, Washington DC

- 2015 Plurality and infant mortality due to external causes in the United States, 2000-2010
Division of Reproductive Health, Centers for Disease and Control Prevention
Research in Progress Seminar
January, Atlanta, GA
- 2015 Plurality and infant mortality due to external causes in the United States, 2000-2010
National Center for Health Statistics
Health Disparities Workgroup Seminar
December, Hyattsville, MD
- 2015 Folic acid and neural tube defects
George Mason University
Guest lecture in *Chronic Disease Epidemiology*
December, Fairfax, VA
- 2015, 2016, 2017 Folic acid and neural tube defects
George Washington University
Milken Institute School of Public Health
Guest lecture in *Nutritional Epidemiology*
November, Washington DC
- 2014 Preconception low dose aspirin and adverse events: findings from the EAGeR (Effects of Aspirin in Gestation and Reproduction) randomized trial
Reproductive Endocrinology and Infertility Research in Progress Seminar Series
National Institutes of Health
April, Bethesda, MD
- 2013 The effect of serum leptin levels on reproductive function
Reproductive Endocrinology and Infertility Research in Progress Seminar Series
National Institutes of Health
July, Bethesda, MD
- 2012 Consequences of controlling viral diseases during pregnancy: antiherpetic medication and influenza vaccination
Slone Center for Epidemiology Brown Bag Seminar Series
May, Boston, MA
- 2011 Influenza vaccination before and during pregnancy and the risk of preterm birth. Advanced methods student workshop on bias analysis with Dr. Timothy Lash.
Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting
June, Montreal, Quebec, Canada
- 2011 Influenza vaccination before and during pregnancy and the risk of preterm birth
Colby College Mathematics and Statistics Department Spring Colloquium Series
March, Waterville, ME
- 2009 Use of antiepileptic medications in pregnancy in relation to risks of birth defects
National Birth Defects Prevention Study Webinar
November

ABSTRACTS ACCEPTED AS ORAL PRESENTATIONS

- 1) 2020 **Ahrens KA.** Living and dying in rural areas
Society for Epidemiological Research
Symposium organized by: **Ahrens KA**, Rossen LM
June, Boston, MA
- 2) 2020 **Ahrens KA.** HIV, Hepatitis, and Opioid-Use Disorder in Rural Communities
National Rural Health Association
May, San Diego, CA
- 3) 2020 Schummers L, Liauw J, Hutcheon JA, **Ahrens KA**, VanderWeele TJ, Karacabeyli E, Norman WV. Interpregnancy interval and pregnancy outcomes after a perinatal loss
Canadian National Perinatal Research Meeting
Banff, Canada
- 4) 2020 Schummers L, Liauw J, Hutcheon JA, **Ahrens KA**, VanderWeele TJ, Karacabeyli E, Norman WV. Interpregnancy interval and pregnancy outcomes after a perinatal loss
BC Children's Hospital Research Institute's Healthy Starts Research Day
Vancouver, Canada
- 5) 2019 Gabrielson S, Carwile J, O'Connor A, **Ahrens KA.** Opioid use disorder among deliveries in a rural state: Maine, 2009-2017.
Northern New England Epidemiology Conference,
November, Portland, ME
- 6) 2019 **Ahrens KA.** Good Epi, Bad Epi: is short birth spacing really that bad?
Society for Epidemiological Research
Symposium organized by: Pereira G, **Ahrens KA**
June, Minneapolis, MN
- 7) 2019 Carwile JL, **Ahrens KA**, Seshasayee SM, Fleisch AF. Associations of dietary factors and oral health behaviors with plasma fluoride concentrations in children and adolescents aged 6 to 19 years. Society for Perinatal and Pediatric Epidemiological Research
June, Minneapolis, MN
- 8) 2018 Loyola Briceno AC, **Ahrens KA**, Decker E, Frederiksen BF, Moskosky S. Trends in sexually transmitted disease testing among Title X Family Planning Program clients, 2005-2016
STD Prevention Conference
August, Washington, DC
- 9) 2016 Rivers K, Pollack AZ, **Ahrens KA**
Telomere length and parity among US women 20 to 44 years of age
American Public Health Association.
November, Denver, CO.

- 10) 2014 **Ahrens KA**, Silver RM, Perkins NJ, Wong L, Galai N, Leshner LL, Faraggi D, Wactawski-Wende J, Townsend JM, Lynch AM, Mumford SL, Schisterman EF. Preconception low dose aspirin and pregnancy outcomes: findings from the EAGeR (Effects of Aspirin in Gestation and Reproduction) randomized trial.
Society for Maternal-Fetal Medicine
February, New Orleans, LA
- 11) 2013 **Ahrens KA**, Mumford SL, Schliep KC, Perkins NJ, Wactawski-Wende J, Schisterman EF. Marginal structural models for continuous exposures in the longitudinal setting: an application to reproductive epidemiology.
Society for Epidemiologic Research Annual Meeting
June, Boston, MA
- 12) 2012 **Ahrens KA**. Marginal structural models for continuous exposures in the longitudinal setting: an application to reproductive epidemiology.
Society for Epidemiologic Research 2nd Annual Student Web Meeting
November
- 13) 2010 **Ahrens K**, Yazdy M, Mitchell AA, Werler MM. Folic acid intake and spina bifida in the era of dietary folic acid fortification.
Society for Pediatric and Perinatal Epidemiologic Research
June, Seattle, WA
- 14) 2008 Philip S, **Ahrens K**, Bernstein K, Klausner JD. Performance of a new rapid herpes simplex virus type 2 fingerstick assay in an urban STD clinic.
BASHH / ASTDA
May, Brooklyn, NY.
- 15) 2008 Bernstein K, **Ahrens K**, Philip S, Klausner JK. Rectal STD re-infections increase risk of HIV seroconversion.
BASHH / ASTDA
May, Brooklyn, NY
- 16) 2008 Bernstein KT, **Ahrens K**, Philip S, Klausner JK. Factors associated with concurrent sexual partnerships among men who have sex with men (MSM).
National Sexually Transmitted Diseases Prevention Conference
March, Chicago, IL
- 17) 2008 Philip S, **Ahrens K**, Bernstein KT and Klausner JD. Rates of repeat testing among patients diagnosed with chlamydia and gonorrhea at a public STD clinic: San Francisco 2005-2006
National Sexually Transmitted Diseases Prevention Conference.
March, Chicago, IL
- 18) 2008 Newman L, **Ahrens K**, Bissette J, Datta D, Kerani R, Klingler E, Kohn R, Martins S, Rietmeijer K, Weinstock H. Monitoring genital wart disease in STD clinics through the STD Surveillance Network (SSuN).
National Sexually Transmitted Diseases Prevention Conference
March, Chicago, IL

- 19) 2007 Klausner JD, Philip S, **Ahrens K**, Nieri N, Kohn R, Louie B, Wong E, Liska S. Combined rapid and HIV RNA testing in a public STD clinic, San Francisco, 2004-2006
HIV Diagnostics Conference.
December, Atlanta, GA
- 20) 2007 Klausner JD, Winters M, **Ahrens K**, Balamane M, Rowniak S, De La Roca R, Israelski D, Katzenstein D. Oral fluid specimens for the detection of acute HIV infection.
HIV Diagnostics Conference
December, Atlanta, GA
- 21) 2007 **Ahrens K**, Kent CK, Nieri G, Philip S, Klausner, JD. Monitoring entry into primary care for newly diagnosed HIV-infected persons: San Francisco, 2006.
HIV Diagnostics Conference
December, Atlanta, GA
- 22) 2007 Scott K, Kent CK, **Ahrens K**, Philip S, Klausner JD. Chlamydial and gonococcal infection among gay and bisexual men at time of HIV positive test result: implications for co-treatment, San Francisco 2004-2006.
Conference on Retroviruses and Opportunistic Infections
February, Los Angeles, CA
- 23) 2006 Papp JR, **Ahrens K**, Philips C, Farshy C, Kent CK, Klausner JD. The performance of oral rinses as a novel approach to detect pharyngeal Neisseria gonorrhoeae and Chlamydia trachomatis Infections.
International Union against Sexually Transmitted Diseases
October, Versailles, France
- 24) 2006 Levine D, Scott K, **Ahrens K**, Kent CK, Klausner JD. InSPOT.org: A unique online partner notification system.
National Sexually Transmitted Diseases Prevention Conference
May, Jacksonville, FL

ABSTRACTS ACCEPTED AS POSTER PRESENTATIONS, CONFERENCE LIST

- 1) 2020 Ryan White
August, Washington, DC
- 2) 2020 Society for Perinatal and Pediatric Epidemiological Research
June, Boston, MA
- 3) 2020 Society for Epidemiological Research
June, Boston, MA
- 4) 2020 Society of Maternal-Fetal-Medicine Annual Meeting
February, Grapevine, TX
- 5) 2020 Perinatal Services BC Healthy Mothers, Health Babies Conference

- February, Vancouver, Canada
- 6) 2019 American Association for Multidisciplinary Education and Research in Substance Use and Addiction
November, Boston, MA
 - 7) 2019 American Public Health Association
November, Philadelphia, PA
 - 8) 2019 International Society for Environmental Epidemiology
August, The Netherlands
 - 9) 2019 Society for Perinatal and Pediatric Epidemiological Research
June, Minneapolis, MN
 - 10) 2019 Society for Epidemiological Research
June, Minneapolis, MN
 - 11) 2018 Rural Health Round Table
November, Sunday River, ME
 - 12) 2018 Maine Public Health Association
October, Augusta, ME
 - 13) 2018 American Society for Colposcopy and Cervical Pathology
April, Las Vegas, NV
 - 14) 2018 Society for Pediatric and Perinatal Epidemiologic Research
June, Baltimore, MD
 - 15) 2018 Society for Epidemiologic Research
June, Baltimore, MD
 - 16) 2017 American Public Health Association
November, Atlanta, GA
 - 17) 2017 Society for Family Planning, North American Forum
October, Atlanta, GA
 - 18) 2017 Academy Health
June, New Orleans, LA
 - 19) 2016 HRSA Innovation Conference.
June, Washington DC.
 - 20) 2016 Society for Perinatal and Pediatric Epidemiologic Research
June, Miami, FL
 - 21) 2016 Society for Epidemiologic Research/Congress

- June, Miami, FL
- 22) 2016 National Conference on Health Statistics
August, Bethesda, MD
 - 23) 2015 Society for Perinatal and Reproductive Epidemiologic Research
June, Denver, CO
 - 24) 2015 Pediatric Academic Societies
April, San Diego, CA
 - 25) 2014 Society for Epidemiologic Research Annual Meeting
June, Seattle, WA
 - 26) 2014 *Eunice Kennedy Shriver* National Institute of Child Health and Human Development
Postdoctoral Retreat
April, Bethesda, MD
 - 27) 2013 International Society for Pharmacoepidemiology
August, Montreal, Canada
 - 28) 2013 Society for Pediatric and Perinatal Epidemiologic Research
June, Boston, MA
 - 29) 2013 The Endocrine Society
June, Boston, MA
 - 30) 2012 Society for Pediatric and Perinatal Epidemiologic Research
June, Minneapolis, MN
 - 31) 2011 National Graduate Student Research Conference
October, Bethesda, MD
 - 32) 2007 International Society for Sexually Transmitted Disease Research
July, Seattle, WA
 - 33) 2007 Conference on Retroviruses and Opportunistic Infections
February, Los Angeles, CA
 - 34) 2006 Infectious Disease Society of America
October, Toronto, Canada
 - 35) 2006 International AIDS Conference
August, Toronto, Canada
 - 36) 2006 National Sexually Transmitted Diseases Prevention Conference
May, Jacksonville, FL