CURRICULUM VITAE Elizabeth A. Suarez, PhD, MPH

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EDUCATION

2014-2019	Doctor of Philosophy, Epidemiology University of North Carolina at Chapel Hill, Gillings School of Global Public Health, Chapel Hill, NC Dissertation: Use of Ondansetron for Nausea and Vomiting During Pregnancy and Adverse Pregnancy Outcomes
2010-2013	Master of Public Health, Epidemiology Boston University, School of Public Health, Boston, MA
2005-2009	Bachelor of Arts, Mathematics (Statistics and Probability) and Sociology Boston University, Boston, MA Honors: Cum Laude

PROFESSIONAL AND RESEARCH EXPERIENCE

Academic Appointments

2022-	Instructor of Epidemiology Department of Biostatistics and Epidemiology, Rutgers School of Public Health, Piscataway, NJ
2022-	Core Faculty Center for Pharmacoepidemiology and Treatment Science, Rutgers Institute for Health, Health Care Policy and Aging Research, New Brunswick, NJ
2020-2022	Research Fellow Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA
2019-2022	Research Fellow Therapeutics Research and Infectious Disease Epidemiology, Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute, Boston, MA

Other positions

2018-2019	Research Assistant
	CERobs Consulting, Chapel Hill, NC

2017	Sentinel Project Intern Therapeutics Research and Infectious Disease Epidemiology, Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute, Boston, MA
2016-2018	Analyst University of North Carolina School of Medicine, Department of Dermatology, Chapel Hill, NC
2015-2017	Graduate Research Assistant Merck, Vaccines, North Wales, PA
2015	Pharmacoepidemiology Intern Takeda Pharmaceutical Co., Risk Management and Pharmacoepidemiology, Cambridge, MA
2014-2015	Graduate Research Assistant University of North Carolina at Chapel Hill, Epidemiology Department, Chapel Hill, NC
2011-2014	Research Associate New England Research Institutes, Epidemiology Department, Watertown, MA
2009-2011	Research Assistant New England Research Institutes, Epidemiology Department, Watertown, MA

TEACHING RECORD

As Teaching Assistant

2018	Epidemiologic Analysis of Time-to-Event Data, University of North Carolina at Chapel Hill, Epidemiology Department
2012	Introduction to Epidemiology, Boston University School of Public Health, Epidemiology Department

HONORS AND AWARDS

2018-2019	Dissertation Completion Fellowship Graduate School, University of North Carolina at Chapel Hill
2018	Marilyn and Al Tyroler Endowed Scholarship in Epidemiology Gillings School of Global Public Health, University of North Carolina at Chapel Hill
2018	Student Dissertation Workshop Participant Society for Epidemiologic Research 2018 Annual Meeting, Baltimore, MD
2014	Gillings Merit Scholarship Gillings School of Global Public Health, University of North Carolina at Chapel Hill
2010	Merit Scholarship Boston University School of Public Health

PUBLICATIONS

Peer-Reviewed Journal Articles

- 1. **Suarez EA**, Huybrechts KF, Straub L, Hernández-Díaz S, Creanga AA, Connery HS, Gray KJ, Vine SM, Jones HE, Bateman BT. Postpartum Opioid-Related Mortality in Patients With Public Insurance. Obstetrics & Gynecology. 23 Mar 9; online ahead of print..
- 2. Huybrechts KF, Straub L, Karlsson P, Pazzagli L, Furu K, Gissler M, Hernandez-Diaz S, Nørgaard M, Zoega H, Bateman BT, Cesta CE, Cohen JM, Leinonen MK, Reutfors J, Selmer RM, **Suarez EA**, Ulrichsen SP, Kieler H. Association of In Utero Antipsychotic Medication Exposure With Risk of Congenital Malformations in Nordic Countries and the US. JAMA Psychiatry. 2023 Feb 1;80(2):156-166.
- 3. **Suarez EA**, Nguyen M, Zhang D, Zhao Y, Stojanovic D, Munoz M, Liedtka J, Anderson A, Liu W, Dashevsky I, DeLuccia S, Menzin T, Noble J, Maro JC. Monitoring Drug Safety in Pregnancy with Scan Statistics: A Comparison of Two Study Designs. Epidemiology. 2023 Jan 1;34(1):90-98.
- 4. **Suarez EA**, Bushnell GA. Association Between Attention-Deficit/Hyperactivity Disorder and Benzodiazepines and Z-Hypnotics in Pregnancy-Questions Remain. JAMA Netw Open. 2022 Dec 1;5(12):e2246896.
- 5. **Suarez EA**, Huybrechts KF, Straub L, Hernández-Díaz S, Jones HE, Connery HS, Davis JM, Gray KJ, Lester B, Terplan M, Mogun H, Bateman BT. Buprenorphine versus Methadone for Opioid Use Disorder in Pregnancy. N Engl J Med. 2022 Dec 1;387(22):2033-2044.
- 6. Lyons JG, **Suarez EA**, Fazio-Eynullayeva E, Maro JC, Corey C, Li J, Toh S, Shinde MU. Assessing Medical Product Safety During Pregnancy using Parameterizable Tools in the Sentinel Distributed Database. Pharmacoepidemiol Drug Saf. 2022 Nov 9.
- 7. **Suarez EA**, Bateman BT, Hernández-Díaz S, Straub L, Wisner KL, Gray KJ, Pennell PB, Lester B, McDougle CJ, Zhu Y, Mogun H, Huybrechts KF. Association of Antidepressant Use During Pregnancy With Risk of Neurodevelopmental Disorders in Children. JAMA Internal Medicine. 2022 Oct 3;182(11):1149-60.
- 8. Adamson AS, **Suarez EA**, Welch HG. Melanoma Overdiagnosis Is Not the Key Problem-Reply. JAMA Dermatol. 2022 Sep 1;158(9):1083-1084.
- 9. **Suarez EA**, Nguyen M, Zhang D, Zhao Y, Stojanovic D, Munoz M, Liedtka J, Anderson A, Liu W, Dashevsky I, Cole D, DeLuccia S, Menzin T, Noble J, Maro JC. Novel Methods for Pregnancy Drug Safety Surveillance in the FDA Sentinel System. Pharmacoepidemiol Drug Saf. Published online July 24, 2022.
- 10. Straub L, Hernandez-Diaz S, Bateman BT, Wisner KL, Gray KJ, Pennell PB, Lester B, McDougle CJ, Suarez EA, Zhu Y, Zakoul H, Mogun H, Huybrechts KF. Antipsychotic Drug Exposure in Pregnancy and Risk of Neurodevelopmental Disorders. JAMA Internal Medicine. 2022 May 1;182(5):522-533.
- 11. Adamson AS, **Suarez EA**, Welch HG. Estimating Overdiagnosis of Melanoma Using Trends Among Black and White Patients in the US. JAMA Dermatology. 2022 Apr 1;158(4):426-431.
- 12. Straub L, Bateman BT, Hernandez-Diaz S, York C, Lester B, Wisner KL, McDougle CJ, Pennell PB, Gray KJ, Zhu Y, **Suarez EA**, Mogun H, Huybrechts KF. Neurodevelopmental Disorders Among Publicly or Privately Insured Children in the United States. JAMA Psychiatry. 2022 Mar 1;79(3):232-242.

- 13. **Suarez EA**, Haug N, Hansbury A, Stojanovic D, Corey C. Prescription medication use and baseline health status of women with live-birth deliveries in a national data network. Am J Obstet Gynecol MFM. 2022 Jan;4(1):100512.
- 14. Straub L, Bateman BT, Hernandez-Diaz S, York C, Zhu Y, **Suarez EA**, Lester B, Gonzalez L, Hanson R, Hildebrandt C, Homsi J, Kang D, Lee KWK, Lee Z, Li L, Longacre M, Shah N, Tukan N, Wallace F, Williams C, Zerriny S, Mogun H, Huybrechts KF. Validity of claims-based algorithms to identify neurodevelopmental disorders in children. Pharmacoepidemiol Drug Saf. 2021 Dec;30(12):1635-1642.
- 15. **Suarez EA**, Boggess K, Engel SM, Stürmer T, Lund JL, Funk MJ. Ondansetron use in early pregnancy and the risk of late pregnancy outcomes. Pharmacoepidemiol Drug Saf. 2021 Feb;30(2):114-125.
- 16. **Suarez EA**, Boggess K, Engel SM, Stürmer T, Lund JL, Funk MJ. Ondansetron use in early pregnancy and the risk of miscarriage. Pharmacoepidemiol Drug Saf. 2021 Feb;30(2):103-113.
- 17. Haber N, Smith ER, Moscoe E, Andrews K, Audy R, Bell W, Brennan AT, Breskin A, Kane JC, Karra M, McClure ES, **Suarez EA**, CLAIMS research team. Causal language and strength of inference in academic and media articles shared in social media (CLAIMS): A systematic review. PLoS One. 2018 May 30;13(5):e0196346.
- 18. **Suarez EA**, Landi SN, Conover MM, Funk MJ. Bias from Restricting to Live Births in a Study of Prescription Drug Use and Pregnancy Complications: A Simulation. Pharmacoepidemiol Drug Saf. 2018 Mar; 27(3): 307-3014.
- 19. Moo-Young JA, **Suarez EA**, Adamson AS. Distance to pharmacy and risk of medication primary nonadherence. Dermatol Online J. 2018 Feb 15;24(2).
- 20. Adamson AS, **Suarez EA**, McDaniel P, Leiphart PA, Zeitany A, Kirby JS. Geographic Distribution of Nonphysician Clinicians Who Independently Billed Medicare for Common Dermatologic Services in 2014. JAMA Dermatol. 2018 Jan 1;154(1): 30-36.
- 21. Rutherford A, Glass DA, **Suarez EA**, Adamson AS. Prescription-level factors associated with primary nonadherence to dermatologic medications. J Dermatolog Treat. 2017; Aug(18):1-5.
- 22. El Baou CE, Di Santostefano RL, Alfonso-Cristancho R, **Suarez EA**, Stempel D, Everard MJ, Barnes N. Effect of inhaled corticosteroid particle size on asthma efficacy and safety outcomes: a systematic literature review and meta-analysis. BMC Pulm Med. 2017;17(1):31.
- 23. Adamson AS, Glass DA, **Suarez EA**. Patient-provider race and gender concordance and the risk of medication primary nonadherence. J Am Acad Dermatol. 2017;76(6):1193-1195.
- 24. Hester LL, Poole C, **Suarez EA**, Der JS, Anderson OG, Almon KG, Shirke AV, Brookhart MA. Publication of comparative effectiveness research has not increased in high-impact medical journals, 2004-2013. J Clin Epidemiol. 2017;84:185-187.
- 25. Adamson AS, **Suarez EA**, Gorman AR. Association Between Method of Prescribing and Primary Nonadherence to Dermatologic Medication in an Urban Hospital Population. JAMA Dermatol. 2017;153(1):49-54.

- 26. **Suarez EA**, Fang S, Bliwise D, Yaggi HK, Araujo AB. Disentangling racial/ethnic and socioeconomic differences in self-reported sleep measures: the Boston Area Community Health (BACH) Survey. Sleep Health. 2015 June;1(2):90-97.
- 27. **Suarez EA**, Koro CE, Christian JB, Spector AD, Araujo AB, Abraham S. Incretin-mimetic therapies and pancreatic disease: a review of observational data. Curr Med Res Opin. 2014 Dec;30(12):2471-81.
- 28. Araujo AB, Yang M, **Suarez EA**, Dagincourt N, Abraham JR, Chiu G, Holick MF, Bouxsein ML, Zmuda JM. Racial/Ethnic and Socioeconomic Differences in Bone Loss Among Men. J Bone Miner Res. 2014 Dec;29(12):2552-60.
- 29. Akeroyd JM, **Suarez EA**, Bartali B, Chiu GR, Yang M, Schwartz AV, Araujo AB. Differences in skeletal and non-skeletal factors in a diverse sample of men with and without type 2 diabetes mellitus. J Diabetes Complications. 2014 Sep-Oct;28(5):679-83.
- 30. Araujo AB, Dixon JM, **Suarez EA**, Murad MH, Guey LT, Wittert GA. Clinical Review: Endogenous Testosterone and Mortality in Men: A Systematic Review and Meta-Analysis. J Clin Endocrinol Metab. 2011; 96(10):3007-19.

Book Chapters

- 1. **Suarez EA**, Setoguchi S. What is the Research Question? In: Girman CJ, Ritchey ME. Pragmatic Randomized Clinical Trials: Using Primary Data Collection and Electronic Health Records. Cambridge, MA: Elsevier; 2021. P 71-83.
- 2. **Suarez EA**, Girman CJ. Sensitivity Analyses in Pragmatic Randomized Clinical Trials. In: Girman CJ, Ritchey ME. Pragmatic Randomized Clinical Trials: Using Primary Data Collection and Electronic Health Records. Cambridge, MA: Elsevier; 2021. P 151-163.

PRESENTATIONS

Oral Presentations from Submitted Abstracts

- 1. **Suarez EA**, Bateman BT, Hernandez-Diaz S, Straub L, Zhu Y, Mogun H, Huybrechts KF. Psychostimulant Use During Pregnancy and the Risk of Neurodevelopmental Disorders in Children. The International Marcé Society for Perinatal Mental Health Conference, London, UK. September 2022.
- 2. **Suarez EA**, Bateman BT, Hernandez-Diaz S, Straub L, Zhu Y, Mogun H, Huybrechts KF. Psychostimulant Use During Pregnancy and the Risk of Neurodevelopmental Disorders in Children. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Copenhagen, Denmark. August 2022.
- 3. Suarez EA, Huybrechts KF, Straub L, Hernandez-Diaz S, Jones HE, Connery HS, Davis JM, Gray KJ, Lester B, Terplan M, Mogun H, Bateman BT. Neonatal and Maternal Adverse Outcomes Following Use of Buprenorphine Compared to Methadone for Treatment of Opioid Use Disorder in Pregnancy. Society for Epidemiologic Research Annual Conference, Chicago, IL. June 2022.
- 4. **Suarez EA**, Nguyen M, Zhang D, Zhao Y, Stojanovic D, Munoz M, Liedtka J, Anderson A, Liu W, Dashevsky I, DeLuccia S, Menzin T, Noble J, Maro JC. Statistical Power for Use of Tree-Based Scan

- Statistics for Surveillance of Infant Outcomes Following Maternal Perinatal Medication Use. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Virtual. August 2021.
- Suarez EA, Nguyen M, Zhang D, Zhao Y, Stojanovic D, Munoz M, Liedtka J, Anderson A, Liu W, Dashevsky I, Cole D, DeLuccia S, Menzin T, Noble J, Maro JC. Use of Tree-Based Scan Statistics for Surveillance of Infant Outcomes Following Maternal Perinatal Medication Use: A Propensity Score Matched Case Study. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Virtual. August 2021.
- 6. **Suarez EA**, Haug N, Hansbury A, Stojanovic D, Corey C. Prescription Medication Use and Baseline Health Status of Women with Live Birth Deliveries in a National Data Network: The Sentinel Distributed Database Mother-Infant Linkage Table. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Virtual. August 2021.
- 7. **Suarez EA,** Huybrechts KF, Hernandez-Diaz S, Straub L, Zhu Y, Mogun H, Bateman BT. First Trimester Exposure to Buprenorphine Compared to Methadone for Treatment of Opioid Use Disorders and the Risk of Congenital Malformations. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Virtual. August 2021.
- 8. **Suarez EA**, Bateman BT, Hernandez-Diaz S, Straub L, Zhu Y, Mogun H, Huybrechts KF. Antidepressant Use During Pregnancy and the Risk of Neurodevelopmental Disorders in Children. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Virtual. August 2021.
- 9. **Suarez EA.** Competing risks in perinatal pharmacoepidemiology: are live-birth cohorts a problem? Part of symposium titled: Likely biased but possibly useful: The implications of conditioning on future events for interpretation of effects in perinatal epidemiology. Society for Epidemiology Research Annual Conference, Virtual. December 2020.
- 10. **Suarez EA**, Engel SM, Boggess K, Stürmer T, Lund JL, Jonsson Funk M. Ondansetron Use In Early Pregnancy and the Risk of Miscarriage. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Philadelphia, PA. August 2019.
- 11. **Suarez EA**, Jonsson Funk M. The Comparative Safety of Ondansetron Use During Pregnancy. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Prague, Czech Republic. August 2018.
- 12. **Suarez EA**, Landi S, Conover M, Jonsson Funk M. Bias from Restricting to Live Births in a Study of Prescription Drug Use and Pregnancy Complications: A Simulation. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Dublin, Ireland. August 2016.
- 13. **Suarez EA**, Piccolo RS, Araujo AB, Zmuda JM, Holick MF, Bouxsein ML, Turner AK, Bartali B. Association of Genetic Ancestry with Bone Microarchitecture in Men. Gerontological Society of America Annual Scientific Meeting, Washington, D.C. November 2014.

Poster Presentations from Submitted Abstracts

1. **Suarez EA**, Huybrechts KF, Straub L, Vine SM, Hernandez-Diaz S, Creanga A, Connery H, Jones HE, Gray KJ, Bateman BT. Postpartum Opioid-Related Mortality in Publicly Insured Patients in the US. The International Marcé Society for Perinatal Mental Health Conference, London, UK. September 2022.

- Suarez EA, Huybrechts KF, Straub L, Hernandez-Diaz S, Jones HE, Connery HS, Davis JM, Gray KJ, Lester B, Terplan M, Mogun H, Bateman BT. Neonatal and Maternal Adverse Outcomes Following Use of Buprenorphine Compared to Methadone for Treatment of Opioid Use Disorder in Pregnancy. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Copenhagen, Denmark. August 2022.
- 3. **Suarez EA**, Stürmer T, Engel SM, Boggess K, Lund JL, Jonsson Funk M. Ondansetron Use In Early Pregnancy and Late Pregnancy Outcomes. International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Philadelphia, PA. August 2019.
- 4. **Suarez EA**, Lund JL, Doll KM, Robinson WR. Predicting Laterality of Oophorectomy in Administrative Data with Bundled CPT Codes International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Montreal, Canada. August 2017.
- 5. **Suarez EA**, Fang S, Abraham J, DiSantostefano R, Stempel D, Barnes N. Effect of inhaled corticosteroid (ICS) particle size on asthma efficacy and safety outcomes: A systematic literature review. British Thoracic Society Winter Meeting, London, UK (presented by N Barnes). December 2014.
- 6. **Suarez EA**, Araujo AB. Social disparities in self-reported sleep habits in a population-based sample. Poster presentation at the Society for Epidemiological Research Annual Meeting, Boston, MA. June 2013.
- 7. **Suarez EA**, Piccolo RS, Wittert GA, Liu PY, Bliwise DL, Yaggi HK, Araujo AB. The association of sleep restriction and sleep quality with sex hormone levels in community-dwelling aging men. Poster presentation at the Endocrine Society Annual Meeting, Houston, TX. June 2012.

Campus and Invited Presentations

- 1. Treating pregnant patients with opioid use disorder. Webinar presentation for NJ ACTS Special Populations Core 2023 Seminar Series. February 2023.
- 2. Treating Opioid Use Disorder in Pregnancy: Current Evidence on Safety. Webinar presentation for New Jersey Maternal Health Awareness Day with RWJBarnabas Health. January 2023.
- 3. Postpartum Opioid-Related Mortality in Medicaid Patients. Webinar presentations for the NIH Implementing a Maternal health and PRegnancy Outcomes Vision for Everyone (IMPROVE) Initiative Awardee Workshop. February 2022.
- 4. Are You My Mother: Characterizing Members in the Sentinel Distributed Database Mother-Infant Linkage Table. Presentation for the Monthly FDA Sentinel Webinar. February 2022.
- 5. Surveillance of Adverse Infant Outcomes Following Maternal Medication Use During Pregnancy Using Tree-Based Scan Statistics. Presentation for the Monthly FDA Sentinel Webinar. June 2021.
- 6. Sentinel Mother-Infant Linkage and Pregnancy Analyses. Presentation for the Canadian Mother-Child Cohort (CAMCCO) Active Surveillance 1st Team and Stakeholders Symposium. Montreal, Canada. February 2020.
- 7. Sentinel Pregnancy Tool and Transition to ICD-10. Webinar presentation for the Medications in Pregnancy Special Interest Group for the International Society for Pharmacoepidemiology. November 2018.

GRANT SUPPORT

2KR1001806 PI: Suarez 4/1/2018-3/30/2019

North Carolina Translational and Clinical Sciences Institute \$2,000

Use of ondansetron for nausea and vomiting during pregnancy and adverse pregnancy outcomes

SERVICE AND MEMBERSHIPS

Professional Society Membership and Service

2015- International Society for Pharmacoepidemiology

Medications in Pregnancy and Lactation Special Interest Group (2016-)

Conference abstract reviewer (2016-)

2018- Society for Epidemiology Research

Conference abstract reviewer (2021-)

Poster judge (2020)

Journal peer-review

-	2023	Drug Safety, Pathophysiology, Pharmacoepidemiology and Drug Safety, JAMA Network Open,
		Addiction, American Journal of Epidemiology
	2022	Annals of Internal Medicine, Birth Defects Research, Clinical Epidemiology, JAMA Network
		Open, PLoS One
,	2020	Clinical Epidemiology
	2020	Pharmacoepidemiology and Drug Safety

University Service

2018	Student Representative, UNC Epidemiology Methods Sequence Subcommittee
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2015-2016 Treasurer, UNC Student Chapter of the International Society for Pharmacoepidemiology