

A horizontal number line is shown with arrows at both ends. It is labeled with integers from -10 to 10. Tick marks are placed at every integer. Four points are marked on the line: point A is at -5, point B is at -2, point C is at 0, and point D is at 3.

11. **CONCLUSIONS**

9 11

Maternal Prenatal Fatty Acid Supplementation and Offspring Immune Dysregulation

Amount: \$100,000

Role: PI

UL1 TR001450, TL1 TR001451

Oct 2016 – July 2018

National Center for Advancing Translational Sciences

Prenatal and Early Life Exposures and Subsequent Cardiometabolic Risk

Role: Trainee

PUBLICATIONS

* indicates co-first authorship. † indicates mentorship.

Peer reviewed publications – published

1. **Stevens DR***, Bommarito PA*, Welch BM, Ospina M, Calafat A, Cantonwine DE, McElrath TF, Ferguson KK. Organophosphate ester flame retardants and plasticizers in relation to fetal growth in the LIFECODES Fetal Growth Study. 2024 June. *Environ Health Perspect.*
2. Mateus J, **Stevens DR**, Grantz KL, Zhang Cuilin, Grewal J, Grobman WA, Owen J, Sciscione AC, Wapner RJ, Skupski D, Chien E, Wing DA, Ranzini AC, Nageotte MP, Albert PS, Newman RB. Fetal biometry and maternal antenatal factors predictive of labor dystocia - indicated primary cesarean delivery at term: NICHD Fetal Growth Studies. 2024 June. *Am J Perinatol.*
3. Rosen EM†, **Stevens DR**, McNell EE, Wood ME, Engel SM, Keil AP, Calafat AM, Botelho JC, Sinkovskaya E, Przybylska A, Abuhamad A, Saade G, Ferguson KK. Longitudinal associations between phthalates and replacements with novel in vivo measures of placental health. 2024 June. *Hum Reprod.*
4. **Stevens DR**, Goldberg M, Adgent M, Chin HB, Baird DD, Stallings V, Sandler DP, Calafat AM, Ford EG, Zemel BS, Kelly A, Umbach DM, Rogan W, Ferguson KK. Environmental phenols and growth in infancy: the Infant Feeding and Early Development Study. 2024 May. *J Clin Endocrinol Metab.*
5. Goldberg M, Adgent M, **Stevens DR**, Chin HB, Ferguson KK, Calafat AM, Travalos G, Ford EG, Stallings V, Rogan W, Umbach DM, Baird DD, Sandler DP. Environmental phenol exposures in 6- to 12-week-old infants: the Infant Feeding and Early Development Study. 2024 May. *Environ Res.*
6. Bommarito PA, Blaauwendraad SM, **Stevens DR**, van den Dries M, Spaan S, Pronk A, Tiemeier H, Gaillard R, Trasande L, Jaddoe VVW, Ferguson KK. Prenatal exposure to nonpersistent chemicals and fetal-to-childhood growth trajectories in the Generation R Study. 2024 April. *Epidemiology*
7. Rosen EM†, **Stevens DR**, Ramos AM, McNell EE, Wood ME, Engel SM, Keil AP, Calafat AM, Botelho JC, Sinkovskaya E, Przybylska A, Saade G, Abuhamad A, Ferguson KK. Personal care product use patterns in association with phthalates and phthalate replacement biomarkers across pregnancy. 2023 Nov. *J Expo Sci Environ Epidemiol.*
8. **Stevens DR**, Starling A, Bommarito P, Keil AP, Nakiwala D, Calafat AM, Dabelea D, Ferguson K. Mid-pregnancy phthalate metabolites and phenols in relation to infant body composition: the Healthy Start study. 2023 July. *Environ Health Perspect.*

★ Awarded NIEHS September 2023 Paper of the Month

9. Blaauwendraad SM, **Stevens DR**, van der Dries M, Gaillart R, Ferguson KK, Jaddoe VVW. Fetal organophosphate exposure and childhood adiposity measures in the general population. 2023 July. *Environ Health Perspect*.
10. Rosen EM[†], **Stevens DR**, McNell EE, Wood ME, Engel SM, Keil AP, Calafat AM, Botelho JC, Sinkovskaya E, Przybylska A, Abuhamad A, Saade G, Ferguson KK. Variability and longitudinal trajectories of phthalate and phthalate replacement biomarkers across pregnancy in the Human Placenta and Phthalates Study. 2023 July. *Environ. Sci. Technol*.
11. Saizy S, Mendola P, Grobman W, Subramaniam, **Stevens DR**, Mumford SL, Larson K, Chen Z, Messer LC, Duncan V, Faye-Petersen O, Kumar R, Williams A. Prenatal exposure to perceived stress, maternal asthma, and placental size. 2023 June. *Placenta*.
12. **Stevens DR**, Rosen EM, Van Wickle K, McNell EE, Bommarito PA, Calafat AM, Botelho JC, Sinkovskaya E, Przybylska A, Abuhamad A, Saade G, Ferguson KK. Early pregnancy phthalates and replacements in relation to fetal growth: The Human Placenta and Phthalates Study. 2023 April. *Environ Res*.
★ Awarded NIEHS June 2023 Paper of the Month
13. Rohn MCH[†], **Stevens DR**, Grobman WA, Deshane J, Biggio JR, Subramaniam A, Grantz K, Sherman S, Kumar R, Chen Z, Mendola P. Periconceptional medication discontinuation in relation to maternal-fetal morbidity. 2023 March. *Am J Perinatol*.
14. Bommarito PA, **Stevens DR**, Welch BM, Weller D, Meeker JD, Cantonwine DE, McElrath TF, Ferguson KK. Temporal trends and predictors of exposure to phthalates, phthalate replacements, and phenols in the LIFECODES Fetal Growth Study. 2023 March. *Environ Int*.
★ Awarded NIEHS 2023 Paper of the Year
15. **Stevens DR**, Yeung E, Williams A, Ouidir M, Grobman W, Kumar R, Rohn MCH, Hinkle S, Lipsky L, Kanner J, Sherman S, Chen Z, Mendola P. Maternal asthma associated with infant body composition. 2023 Feb. *JACI: Global*.
16. Bommarito PA, Cantonwine DE, **Stevens DR**, Welch BM, Davalos A, Zhao S, McElrath TF, Ferguson KK. Fetal growth trajectories of babies born large-for-gestational-age in the LIFECODES Fetal Growth Study. 2022 Sept. *Am J Obstet Gynecol*.
17. Bommarito PA, Cantonwine DE, **Stevens DR**, Welch BM, Davalos A, Zhao S, McElrath TF, Ferguson KK. An application of group-based trajectory modeling to define fetal growth phenotypes among SGA births in the LIFECODES Fetal Growth Study. 2022 Aug. *Am J Obstet Gynecol*.
18. Zhao S, Yeung E, Ouidir M, Hinkle SN, Grantz K, Grewal J, Mitro SD, Wu J, **Stevens DR**, Chatterjee S, Tekola-Ayele F, Zhang C. Recreational physical activity before and during pregnancy and placental DNA methylation - an epigenome-wide association study. 2022 April. *Am J Clin Nutr*
19. **Stevens DR**, Bommarito P, Keil AP, McElrath T, Trasande L, Barrett ES, Bush NR, Nguyen RHN, Sathyanarayana S, Swan S, Ferguson K. Urinary phthalate metabolite mixtures in pregnancy and fetal growth: findings from The Infant Development and the Environment Study. 2022 April. *Environ Int*
★ Awarded NIEHS June 2022 Paper of the Month
20. **Stevens DR**, Rohn MCH, Hinkle S, Williams A, Kumar R, Grobman W, Lipsky LM, Sherman S, Kanner J, Chen Z, Mendola P. Maternal body composition and gestational weight gain in relation to asthma control during pregnancy. 2022 April. *PLOS ONE*

21. **Stevens DR***, Polinski K*, Mendola P, Bell E, Lin T, Bell G, Louis GB, Adeyeye T, Stern J, Yeung E. Infertility treatment associated with childhood asthma and atopy. 2022 Mar. *Hum Reprod*
22. Newman R, **Stevens DR**, Hunt K, Grobman W, Owen J, Sciscione A, Wapner RJ, Skupski D, Chien ED, Wing DA, Ranzini AC, Porto M, Grantz K. Fetal growth biometry as predictors of shoulder dystocia in a low risk obstetrical population. 2022 Feb. *Am J Perinatol*
23. Robinson SL, Sundaram R, Putnick DL, Gleason JL, Ghassabian A, **Stevens D**, Bell EM, Yeung EH. Age of juice introduction and child anthropometry at 2-3 and 7-9 years. 2022 Feb. *J Pediatrics*
24. **Stevens DR**, Perkins N, Chen Z, Kumar R, Grobman W, Subramaniam A, Biggio J, Grantz K, Sherman S, Rohn MCH, Mendola P. Determining the clinical course of asthma during pregnancy. 2021 Oct. *JACI: In Practice*
25. Kanner J†, **Stevens DR**, Nobles C, Rohn MCH, Ha S, Mannisto T, Ouidir M, Mendola P. Risk of cardiovascular events during labor and delivery associated with acute ambient temperature changes. 2021 Aug. *Clim Change*
26. Ouidir M, Tekola-Ayele F, Canty T, Grantz K, Sciscione A, Tong D, Jones RR, Sundaram R, Williams A, **Stevens DR**, Mendola P. acute ambient air pollution exposure and fetoplacental doppler results in the NICHD Fetal Growth Studies – Singleton cohort. 2021 July. *Environ Res*
27. Rohn MCH†, **Stevens DR**, Kanner J, Nobles C, Chen Z, Grantz KL, Sherman S, Grobman W, Kumar R, Biggio J, Mendola P. Asthma medication regimens in pregnancy – longitudinal changes in symptoms, lung function and inflammation. 2021 Mar. *Am J Perinatol*
28. Kanner J†, Pollack AZ, Ranasinghe S, **Stevens DR**, Nobles C, Rohn MCH, Sherman S, Mendola P. Chronic exposure to air pollution and risk of mental health disorders complicating pregnancy. 2021 Feb. *Environ Res*
29. **Stevens DR**, Grobman W, Kumar R, Lipsky L, Hinkle S, Chen Z, Williams A, Rohn M, Kanner J, Sherman S, Mendola P. gestational and postpartum weight trajectories among women with and without asthma. 2020 Nov. *Am J Epidemiology*
30. **Stevens DR**, Neelon B, Roberts JR, Taylor SN, Newman RB, Vena JE, Hunt KJ. Mediation of the association between maternal pre-pregnancy overweight/obesity and childhood overweight/obesity by birth anthropometry. 2020 Feb. *J Dev Orig Health Dis*
31. **Stevens DR**, Taylor SN, Roberts JR, Neelon B, Newman RB, Vena JE, Hunt KJ. Breastfeeding initiation as related to the interaction of race/ethnicity and maternal diabetes. 2019 July. *Breastfeed Med*
32. Hunt KJ, Jenkins AJ, Fu D, **Stevens D**, Ma JX, Klein RL, Azar M4, Zhang SX, Lopes-Virella MF, Lyons TJ, VADT Investigators. Serum pigment epithelium-derived factor: relationships with cardiovascular events, renal dysfunction, and mortality in the Veterans Affairs Diabetes Trial (VADT) cohort. 2019 July. *J Diabetes Complications*
33. Vrana-Diaz CJ, **Stevens DR**, Ndeche E, Korte JE. HIV self-testing knowledge and attitudes at sports-based HIV prevention tournaments in Nairobi, Kenya. 2019 June. *J HIV AIDS Soc Serv*
34. Gichangi A, Wambua J, Mutwiwa S, Njogu R, Bazant E, Wamicwe J, Wafula R, Vrana C, **Stevens D**, Mudany M, Korte J. Impact of HIV self-test distribution to male partners of ANC clients: results of a randomized controlled trial in Kenya. 2018 Dec. *J Acquir Immune Defic Syndr*
35. **Stevens DR**, Malek AM, Laggis C, Hunt KJ. In utero exposure to tobacco smoke, subsequent cardiometabolic risks, and metabolic syndrome among U.S. adolescents. 2018 Sep. *Ann Epidemiol*

36. **Stevens DR**, Vrana CJ, Dlin RE[†], Korte JE. A global review of hiv self-testing: themes and implications. 2018 Feb. *AIDS Behav*
37. Baker NL, Hunt KJ, **Stevens DR**, Jarai G, Rosen GD, Klein RL, Virella G, Lopes-Virella MF, DCCT/EDIC Research Group. Association between inflammatory markers and progression to kidney dysfunction: examining different assessment windows in patients with type 1 diabetes. 2018 Jan. *Diabetes Care*

Non-referred publications – published

1. Gichangi A, Korte JE, Wambua J, Vrana C, **Stevens D**. (2017). Increasing male partner HIV testing using self-test kits in Kenya, 3ie impact evaluation report 62. New Delhi: International Initiative for Impact Evaluation (3ie)

Peer reviewed publications – under review

1. Bommarito PA, **Stevens DR**, Welch BM, Meeker JD, Cantonwine DE, McElrath TF, Ferguson KK. Prenatal exposure to environmental phenols and fetal growth across pregnancy in the LIFECODES Fetal Growth Study. *Environ Int*. [Under review]
2. **Stevens DR**, Blaauwendraad SM, Bommarito PA, van den Drieves M, Spaan S, Pronk A, Tiemeier H, Gaillard R, Jaddoe VVW, Ferguson KK. Gestational organophosphate pesticide exposure and childhood cardiovascular outcomes. *Environ Int*. [Under Review]
3. Quiñones S[†], Nie J, **Stevens DR**, Gleason J, Ha S, Seeni I, Grantz KL, Mendola P. Exposure to acute ambient temperature extremes and neonatal intensive care unit admissions: A case-crossover study. *Sci Total Environ*. [Under Review]

SELECTED SCIENTIFIC PRESENTATIONS

Selected peer reviewed presentations

1. Chin HB, Krall J, **Stevens DR**, Goldberg M, Adgent M, Baird D, Rogan W, Umbach DM, (September 2024) Infant environmental phenol exposure and ovarian function during minipuberty. Presentation for the European Perinatal and Paediatric Epidemiology Conference, Copenhagen, Denmark
2. **Stevens DR**, Sinkovskaya E, Przybylska A, Abuhamad A, Nehme L, Diab Y, Onishi K, Saade G, Ferguson K. Gestational Exposure to Endocrine Disrupting Chemicals and Fetal Liver Development: Findings from the HPP 3D Study. (August 2024) Accepted oral presentation for the International Society for Environmental Epidemiology Conference, Santiago, Chile
3. **Stevens DR**, Goldberg M, Adgent M, Chin H, Baird D, Stallings V, Rogan W, Umbach DM, Ferguson KK. (March 2024) Environmental phenols and growth in infancy. Oral presentation for HEEDS EDC-North Carolina Working Group Fourth Annual Scientific Meeting, Durham, NC, US
4. Math-Earth T[†], **Stevens DR**, Sinkovskaya E, Przybylska A, Abuhamad A, Saade G, Ferguson K. (July 2023) Racial disparities in phthalate exposure and birthweight outcomes. Poster presentation for NIEHS Summer Internship Program, Durham, NC, US
5. **Stevens DR**, Bommarito PA, Welch BM, Ospina M, Calafat A, Cantonwine DE, McElrath TF, Ferguson KK. (June 2023). Organophosphate ester flame retardants and plasticizers in relation to fetal growth in the LIFECODES Fetal Growth Study. Oral presentation for the International Society for Environmental Epidemiology North American Conference, Corvallis, OR, US
6. Van Wickle K[†], **Stevens DR**, Sinkovskaya E, Przybylska A, Abuhamad A, Saade G, Ferguson K. (July 2022) Gestational weight gain and phthalate exposure. Poster presentation for NIEHS Summer Internship Program, Durham, NC, US

★ Awarded second place NIEHS 2022 Graduate Summer Internship Program poster

7. **Stevens DR**, Keil AP, Bommarito P, McElrath T, Barrett ES, Bush N, Nguyen R, Sathyanarayana S, Swan S, Ferguson K. (November 2021) Urinary phthalate metabolite mixtures in pregnancy, omega-3s, and fetal growth. Oral presentation for the US Developmental Origins of Health and Disease 2021, Chapel Hill, NC, US
8. **Stevens DR**, Perkins N, Chen Z, Kumar R, Grobman W, Subramaniam A, Grantz K, Rohn M, Williams A, Sherman S, Mendola P. (September 2020). Racial disparities in asthma control during pregnancy. Poster presentation at the American College of Epidemiology 2020 Annual Meeting, held virtually
9. **Stevens DR**, Ferguson PL, Commodore A, Cobbs, JR, Vena JE, Hunt KJ. (June 2019). The association between a child's built environment, activity levels, and adiposity: A multi-racial cohort of children. Poster presentation at the Society for Epidemiologic Research 52nd Annual Meeting, Minneapolis, MN, US
10. **Stevens DR**, Newman R, Taylor S, Roberts J, Vena J, Neelon B, Hunt KJ. (June 2018). The effect of intrauterine exposure to maternal metabolic disorders on offspring anthropometry in a predominantly African American cohort. Oral presentation at the Canadian Society for Epidemiology and Biostatistics National Student Conference, Thunder Bay, Ontario, CA
11. **Stevens, D**, The, N, Powers, AR, & Fair, ML (July 2015). Culinary Creations: A community-based support for policy change in the elementary school nutrition environment. Poster presentation for the Society of Nutrition Education and Behavior Annual Conference, Pittsburgh, PA.

Selected non-referred presentations

1. **Stevens DR**. (November 2022). Environmental chemical exposures associated with fetal and pediatric growth. Oral presentation for the Region IV Public Health Training Center at the Medical University of South Carolina, Charleston, SC, US
2. **Stevens DR**. (February 2022). Maternal prenatal omega-3 supplementation and infant obesity and atopic outcomes. Oral presentation for Office of Dietary Supplements, Virtual
3. **Stevens DR**. (December 2020). Obesity & asthma in the B-WELL-Mom cohort. Oral presentation for National Institute for Environmental Health Sciences, Virtual
4. **Stevens DR**. (March 2019). The association between maternal metabolic disorders during pregnancy and offspring overweight/obesity in childhood. Oral presentation for Johns Hopkins School of Public Health, Baltimore, MD, US
5. **Stevens DR**. (February 2019). Impact of pregnancy intention on maternal and infant health. Oral presentation for South Carolina Pregnancy Risk Assessment Monitoring System Quarterly Webinars, Charleston, SC, US
6. **Stevens DR**. (February 2017). An epidemiologic examination of the developmental origins of obesity. Oral presentation for the MUSC Department of Public Health Sciences Brown Bag Lecture Series, Charleston, SC, US
7. **Stevens DR**, Vrana-Diaz CJ, Ndeche E, Korte JK, DeCelles J. (March 2018). Soccer as a grassroots intervention to tackle HIV/AIDS. Oral presentation for the MUSC Global Health Week 2018, Charleston, SC, US
8. **Stevens DR**, Segars M, Beauclair B, Maxam M, Elam S, Rackley E. (March 2016). Student engagement in global health. Oral presentation for the MUSC Global & Public Health Week 2016, Charleston, SC, US

9. **Stevens DR**, Vrana-Diaz CJ. (November 2015). Implementation of an HIV self-testing intervention among ANC patients. Oral presentation for Medical University of South Carolina, Charleston, SC, US

MENTORING

Please reach out via email for a full list of mentees, their roles, and their accomplishments.

Primary mentor for the NIH Summer Internship Program | 2022, 2023, 2024

NIEHS Summer Internship Program career panel | 2022

NIH Research Mentor Training course | 2022

Mentor for the Social Scientist | 2019-2020

Mentor for Letters to a Pre-Scientist program | 2019-2020

Mentor for Furman University's Engaging the Younger Public Health Generation | 2019

Informal mentor for high school through postdoctoral students and fellows | 2014 - Present

TEACHING

University of North Carolina – Chapel Hill

Guest lecture “Group-Based Trajectory Modelling” for Advanced Reproductive Epidemiology | 2024

Duke University

Guest lecture “Mediation and Study Design” for Environmental Health and Epidemiology | 2023, 2024

Oregon State University

Guest lecture “Intro to Causal Inference” for Advanced Epidemiologic Methods | 2023, 2024

Xavier University

Guest lecture “Maternal and Child Health” for Intro to Public Health | 2022

NIEHS Summer Internship Program

Lecture “Data Management & Good Coding Practices” for Fellows Seminar | 2022, 2023, 2024

Medical University of South Carolina

Teaching Assistant for Epidemiology III | 2018

Teaching Assistant for Epidemiology I | 2016

Teaching Assistant for Design & Conduct of Epidemiologic Studies | 2016

NIH's Scientists Teaching Science | 2019

MUSC Graduate Students Reaching Out With Science | 2015

HONORS & AWARDS

NIH Fellows Award for Research Excellence Award (\$1,500) | 2022

US DOHAD Conference 2021 Trainee Travel Award | 2021

SER Lilienfeld Postdoctoral Prize Paper Award Finalist | 2021

MUSC College of Medicine High Impact Scientific Publication Award | 2018

First place student poster for the 22nd Annual Diabetes Fall Symposium for Primary Health Care Professionals | 2016

Pathways to Practice Scholars for Region IV Public Health Training Award (\$3,500) | 2018
MUSC Trainee Travel Award (\$2,000) | 2015
Furman University Health Sciences Schonmeyer Scholarship Recipient | 2013
Furman University Sportsmedicine Scholarship Recipient | 2012
Furman University Achiever's Scholarship Recipient | 2010

CONTINUING EDUCATION

Research Compass Scholar's Leadership Program | 2024
Columbia Mixtures Bootcamp | 2022
NIH Grant Writing workshop | 2022
SPER Time-Varying G-Formula workshop | 2021
SER Causal Inference for Longitudinal Exposures workshop | 2020
SER Causal Inference workshop | 2018

PROFESSIONAL MEMBERSHIPS

Society for Epidemiologic Research (SER)
Society for Pediatric and Perinatal Epidemiologic Research (SPER)
International Society for Environmental Epidemiology (ISEE)
Society of Birth Defects Research and Prevention (BDRP)
American College of Epidemiology (ACE)

PROFESSIONAL SERVICE

Leadership

NIEHS Fellows Grant Peer Review Board Chair (2022-Present)
NIEHS Repro Lunch Coordinator (2022-2024)
NICHD Maternal Fetal Medicine Coordinator (2019-2021)

Committees

NIEHS Epidemiology Branch Fellows' Professional Development (2022 – Present)
NIEHS Epidemiology Branch Quality of Life Assessment (2024)
SER Communications (2022 – Present)
SPER Communications (2019 – Present)
SPER Outreach (2022 – Present)
SPER Trainee committee (2020 – 2022)

Symposia

Co-chair and organizer for SPER symposium "Pinpointing homogenous groups in heterogeneous data: applications of latent trajectory modelling in perinatal and pediatric research" (2023)

Moderator

SPER “Pregnancy Outcomes” Speed Talks (2021)

Canadian Society for Epidemiology and Biostatistics National Student Conference (2018)

Grant or Application Reviewer

NIEHS Climate Change and Your Community Environmental Health Challenge (2024)

UKRI Future Leaders Fellowship Grant (2023)

Asthma + Lung UK Research Grant (2022)

ISEE Short Course (2020)

MUSC Global Health Case Competition (2019)

MUSC Global Health Trainee Travel Grant (2016)

Peer Reviewer

Reproductive, perinatal, and pediatric journals: JAMA Pediatr, Paediatr Perinat Epidemiol, Am J Obstet Gynecol, Matern Child Health J, Early Hum Dev

Environmental journals: Environ Res, Environ Health, Environ Int, Int J Environ Res Public Health, Sci Total Environ, Environ Sci & Technol

Cardiovascular, obesity, and nutrition journals: Heart, Obes Sci Pract, Childhood Obesity, Public Health Nutr, Eur J Clin Nutr, Nutrients

Epidemiology and public health journals: Epidemiology, Am J Epidemiol, Int J Epidemiol, Ann Epidemiol, PLOS One, BMJ Open, BMC Public Health

Abstract Reviewer

ISEE (2019, 2022)

ISEE-NAC (2023)

SPER (2020-2023)

SER (2019-2023)

Poster Judge

NIH Annual Graduate Student Research Symposium (2019 – 2022)

NIH Postbachelorette Poster Day (2020)