



Anna Booman

Bio

BIO

Anna Booman, PhD, MS is a Postdoctoral Scholar in the Department of Anesthesiology, Perioperative, and Pain Medicine. She conducts perinatal pharmacoepidemiology research to study the safety and effectiveness of medication use during pregnancy, since most pregnant individuals cannot be included in clinical trials. She uses large observational datasets, such as the Merative MarketScan Database, and complex epidemiologic methods in her research.

Dr. Booman received her PhD in Epidemiology from the Oregon Health & Science University School of Public Health, her MS in Computational Biology and Quantitative Genetics from the Harvard T.H. Chan School of Public Health, and her BS in Mathematical Biology (minor: Computer Science) from the College of William & Mary. Her research has spanned many areas of perinatal epidemiology, including a focus on twin children, rare genetic disorders, gestational weight gain, and insurance discontinuity in pregnancy.

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- PhD, Oregon Health & Science University School of Public Health , Epidemiology (2024)
- MS, Harvard T.H. Chan School of Public Health , Computational Biology & Quantitative Genetics (2020)
- BS, The College of William & Mary , Mathematical Biology (Minor in Computer Science) (2018)

LINKS

- LinkedIn: <https://www.linkedin.com/in/annabooman/>

Publications

PUBLICATIONS

- **Anemia During Pregnancy in a U.S. Nationwide Cohort, 2018-2023.** *Obstetrics and gynecology*
Igbinosi, I. I., Booman, A., Duverge-Corporan, M., Leggett, C., Sherwin, E. B., Lyell, D. J., Main, E. K., Bateman, B. T., Leonard, S. A.
2026
- **Pregnancy Outcomes Associated With Anemia in the First Trimester and Anemia Resolution by Late Pregnancy.** *Obstetrics and gynecology*
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2026
- **Validation of International Classification of Diseases Diagnosis Codes for Anaemia During Pregnancy.** *Paediatric and perinatal epidemiology*

Booman, A., Bateman, B. T., Siadat, S., Igbinsosa, I., Leggett, C., Lyell, D. J., Main, E. K., Berube, C., Leonard, S. A.
2025

- **Parental Stress and Family Quality of Life in Families of Individuals Living With Angelman Syndrome.** *Journal of intellectual disability research : JIDR*
Merton, C., Gwaltney, A., Booman, A., Potter, S. N., Wheeler, A. C., Barbieri-Welge, R. L., Horowitz, L. T., Hundley, R. J., Bird, L. M., Tan, W. H., Sadhwani, A.
2025
- **Validation of ICD-10 Diagnosis Codes for Antepartum Anemia**
Booman, A., Siadat, S., Bateman, B., Igbinsosa, I., Main, E., Lyell, D., Leggett, C., Leonard, S.
WILEY.2025: 16-17
- **Early Infancy Weight Gain Patterns Are Associated with Child Body Mass Index in Singletons but Not Twins.** *The Journal of pediatrics*
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- **Early childhood weight trajectory differences in twins, singletons, and gestational-age matched singletons.** *Preventive medicine reports*
Booman, A., Foster, B. A., Lyon-Scott, K., Marino, M., Snowden, J. M., Boone-Heinonen, J.
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- **Methods for modeling gestational weight gain: empirical application using electronic health record data from a safety net population.** *BMC pregnancy and childbirth*
Booman, A., Vesco, K. K., Springer, R., Dinh, D., Liu, S., Lyon-Scott, K., Marino, M., O'Malley, J., Palma, A., Schmidt, T., Snowden, J. M., Stratton, K., Tran, et al
2025; 25 (1): 35
- **Insurance coverage and discontinuity during pregnancy: Frequency and associations documented in the PROMISE cohort.** *Health services research*
Booman, A., Stratton, K., Vesco, K. K., O'Malley, J., Schmidt, T., Boone-Heinonen, J., Snowden, J. M.
2024; 59 (2): e14265
- **Pregnancy health in a multi-state U.S. population of systemically underserved patients and their children: PROMISE cohort design and baseline characteristics.** *BMC public health*
Boone-Heinonen, J., Lyon-Scott, K., Springer, R., Schmidt, T., Vesco, K. K., Booman, A., Dinh, D., Fortmann, S. P., Foster, B. A., Hauschildt, J., Liu, S., O'Malley, J., Palma, et al
2024; 24 (1): 886
- **Causal and Associational Language in Observational Health Research: A Systematic Evaluation.** *American journal of epidemiology*
Haber, N. A., Wieten, S. E., Rohrer, J. M., Arah, O. A., Tennant, P. W., Stuart, E. A., Murray, E. J., Pilleron, S., Lam, S. T., Riederer, E., Howcutt, S. J., Simmons, A. E., Leyrat, et al
2022