

National Birth Defects Prevention Study (NBDPS)/Birth Defects Study To Evaluate Pregnancy exposureS (BD-STEPS)

- NBDPS/BD-STEPS Pooled Data Only -

Published/In Press Manuscript

Commentaries

2024

1. Ailes, E. C., Werler, M. M., Howley, M. M., Jenkins, M. M., & Reefhuis, J. (2024). Real-world data are not always big data: the case for primary data collection on medication use in pregnancy in the context of birth defects research. *American journal of epidemiology*, 193(9), 1211–1214. <https://doi.org/10.1093/aje/kwae060>
2. Browne, M. L., Fisher, S. C., & Nembhard, W. N. (2024). Birth defects surveillance: Working together to advance science. *Birth Defects Research*, 116(2), e2304. <https://doi.org/10.1002/bdr2.23042>

BD-STEPS Data Only Publications

2026

1. Moss, S. E., Ailes, E. C., Downing, K. F., Fundora, M. P., Bolin, E. H., Carmichael, S. L., Glidewell, J., Liberman, R. F., Oster, M. E., Shaw, G. M., Farr, S. L., & Birth Defects Study To Evaluate Pregnancy exposureS (2026). Timing of Critical Congenital Heart Defect Detection: A Multisite Population-Based Study. *The Journal of pediatrics*, 289, 114825. <https://doi.org/10.1016/j.jpeds.2025.114825>

2025

2. Malange, V., Mohaissen, T., Conway, K. M., Rhoads, A., Morris, J. K., Ailes, E. C., Hedley, P. L., Cragan, J. D., Nestoridi, E., Papadopoulos, E. A., Scholz, T. D., Sidhu, A., Christiansen, M., Romitti, P. A., & Birth Defects Study To Evaluate Pregnancy exposureS (BD-STEPS) (2025). Influenza vaccination during early pregnancy and risk of major birth defects, US Birth Defects Study To Evaluate Pregnancy exposureS, 2014-2019. *Vaccine*, 59, 127297. <https://doi.org/10.1016/j.vaccine.2025.127297>
3. Papadopoulos EA, Howley MM, Fisher SC, et al. Patterns of Yeast Infections and Antifungal Use in the First Trimester of Pregnancy: Findings from the Birth Defects

2015

4. Tinker, S. C., Carmichael, S. L., Anderka, M., Browne, M. L., Caspers Conway, K. M., Meyer, R. E., Nembhard, W. N., Olney, R. S., Reefhuis, J., & Birth Defects Study To Evaluate Pregnancy exposureS (2015). Next steps for birth defects research and prevention: The birth defects study to evaluate pregnancy exposures (BD-STEPS). *Birth defects research. Part A, Clinical and molecular teratology*, 103(8), 733–740.
<https://doi.org/10.1002/bdra.23373>

BD-STEPS and NBDPS Combined Publications

2026

1. Williford, E. M., Scott, J. M., Dayton, J., Fisher, S. C., Lin, A. E., Oster, M. E., Desrosiers, T. A., Botto, L. D., Howley, M. M., & National Birth Defects Prevention Study and the Birth Defects Study To Evaluate Pregnancy exposureS (2026). Potential Risk Factors for Total Anomalous Pulmonary Venous Return: National Birth Defects Prevention Study, 1997-2011 and the Birth Defects Study to Evaluate Pregnancy Exposures, 2014-2021. *Birth defects research*, 118(5), e70059.
<https://doi.org/10.1002/bdr2.70059>

2025

2. Benjamin, R. H., Ludorf, K. L., Allred, R. P., Patel, J. R., Nembhard, W. N., Shaw, G. M., Carmichael, S. L., Desrosiers, T. A., Nestoridi, E., Williford, E. M., Agopian, A. J., & National Birth Defects Prevention Study and the Birth Defects Study To Evaluate Pregnancy exposureS (2025). Maternal Folic Acid Supplement Use, Folate Intake, and Preterm Birth Among Infants With Spina Bifida. *Birth defects research*, 117(12), e70008.
<https://doi.org/10.1002/bdr2.70008>

2023

3. Evenson, K. R., Mowla, S., Olshan, A. F., Shaw, G. M., Ailes, E. C., Reefhuis, J., Joshi, N., Desrosiers, T. A., & National Birth Defects Prevention Study and Birth Defects Study To Evaluate Pregnancy exposureS (2023). Maternal physical activity, sitting, and risk of

non-cardiac birth defects. *Pediatric research*, 10.1038/s41390-023-02768-y. Advance online publication. <https://doi.org/10.1038/s41390-023-02768-y>

4. Fisher, S. C., Howley, M. M., Tran, E. L., Ailes, E. C., Papadopoulos, E. A., Nembhard, W. N., Browne, M. L., & National Birth Defects Prevention Study and the Birth Defects Study to Evaluate Pregnancy Exposures (2023). Maternal Cyclobenzaprine Exposure and Risk of Birth Defects in the National Birth Defects Prevention Study (1997-2011) and Birth Defects Study to Evaluate Pregnancy Exposures (2014-2018). *Pharmacoepidemiology and drug safety*, 10.1002/pds.5619. Advance online publication. <https://doi.org/10.1002/pds.5619>
5. Werler, M. M., Kerr, S. M., Ailes, E. C., Reefhuis, J., Gilboa, S. M., Browne, M. L., Kelley, K. E., Hernandez-Diaz, S., Smith-Webb, R. S., Garcia, M. H., Mitchell, A. A., & National Birth Defects Prevention Study and Birth Defects Study To Evaluate Pregnancy exposureS (2023). Patterns of Prescription Medication Use during the First Trimester of Pregnancy in the United States, 1997-2018. *Clinical pharmacology and therapeutics*, 114(4), 836–844. <https://doi.org/10.1002/cpt.2981>

NBDPS Publications

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1. Klawans, M. R., Benjamin, R. H., Maroufy, V., Byrd-Williams, C. E., Canfield, M. A., Miao, Z., Waller, D. K., & National Birth Defects Prevention Study (2026). Cannabis use, preterm birth, and small for gestational age: findings from the national birth defects prevention study. *Journal of perinatology : official journal of the California Perinatal Association*, 10.1038/s41372-026-02729-3. Advance online publication. <https://doi.org/10.1038/s41372-026-02729-3>
2. Oluwafemi, O. O., Mitchell, L. E., Patel, J. R., Nembhard, W. N., Shaw, G. M., Olshan, A. F., Chen, H., & Agopian, A. J. (2026). The association between paternal race and ethnicity and a spectrum of birth defects in a national case-control study. *Annals of epidemiology*, 114, 12–21. <https://doi.org/10.1016/j.annepidem.2026.01.002>
3. Waller, D. K., Miao, Z., Benjamin, R. H., Finnell, R., Dass, N. L. M., Nestoridi, E., de Oliveira Otto, M. C., Peterson, J., Ramadhani, T., Canfield, M. A., & National Birth Defects Prevention Study (2026). Maternal Fish Intake in the Year Prior to Conception and Birth Defects, National Birth Defects Prevention Study, 1997-2011. *Birth defects research*, 118(5), e70053. <https://doi.org/10.1002/bdr2.70053>
4. Mowla, S. J., Martin, C. L., Stingone, J. A., Luben, T. J., Forestieri, N. E., Oster, M. E., Ailes, E. C., Evans, S. P., Fisher, S. C., Romitti, P. A., Carmichael, S. L., Lupo, P. J.,

Darling, A. M., Nembhard, W. N., Olshan, A. F., Desrosiers, T. A., & Defects Prevention Study, T. N. B. (2026). Neighborhood-level socioeconomic position and mortality among children born with critical congenital heart defects. *American journal of epidemiology*, kwag078. Advance online publication. <https://doi.org/10.1093/aje/kwag078>

5. Ekenze, S. O., Huezo-Garcia, M., Kerr, S. M., Fisher, S. C., Nestoridi, E., Werler, M. M., & National Birth Defects Prevention Study (2026). Periconceptional Use of Analgesics and Severity of Structural Birth Defects. *Clinical pharmacology and therapeutics*, 10.1002/cpt.70259. Advance online publication. <https://doi.org/10.1002/cpt.70259>

2025

6. Yang Y, Herdt ML, Hosler AS, Desrosiers TA, Howley MM. Association between maternal occupation as a cleaner/maid/janitor during early pregnancy and selected birth defects in the National Birth Defects Prevention Study. *Occup Environ Med*. 2025;82(10):504-511. Published 2025 Dec 3. doi:10.1136/oemed-2025-110511
7. Cen R, Su LJ, Ying J, et al. Maternal Myo-Inositol Intake and Congenital Heart Defects in Offspring: A Population-Based Case-Control Study. *BJOG*. Published online November 27, 2025. doi:10.1111/1471-0528.70045
8. Van Buren KW, Rocheleau CM, Chen IC, et al. Maternal occupational exposure to noise: prevalence, maternal effects and infant outcomes in the National Birth Defects Prevention Study, 1997-2011. *Occup Environ Med*. 2025;82(5):222-229. Published 2025 Jul 23. doi:10.1136/oemed-2024-109928
9. Carter TC, Kay DM, Pangilinan F, et al. Exome Sequencing to Identify Novel Susceptibility Genes for Nonsyndromic Split-Hand/Ft Malformation: A Report From the National Birth Defects Prevention Study. *Birth Defects Res*. 2025;117(5):e2472. doi:10.1002/bdr2.2472
10. Salinas VA, Archer NP, Lustri LR, et al. Evaluating Differences in Non-Syndromic Orofacial Clefts by Infant Sex: National Birth Defects Prevention Study, 1997 - 2011. *J Pediatr*. Published online March 28, 2025. doi:10.1016/j.jpeds.2025.114567

11. Waller DK, Mohan Dass NL, Oluwafemi OO, et al. Maternal Diarrhea During the Periconceptional Period and the Risk of Birth Defects, National Birth Defects Prevention Study, 2006-2011. *Birth Defects Res.* 2025;117(2):e2438. doi:10.1002/bdr2.2438
12. Sley EG, Desrosiers TA, Sotres-Alvarez D, et al. Association between maternal periconceptional dietary patterns and occurrence of orofacial clefts. *Am J Epidemiol.* Published online May 14, 2025. doi:10.1093/aje/kwaf102
13. Smith-Webb RS, Langlois PH, Shaw GM, et al. Why Has Gastroschisis Increased Over Time and Why Is It More Common in Infants of Young Mothers?. *Birth Defects Res.* 2025;117(2):e2436. doi:10.1002/bdr2.2436
14. Petersen JM, Yazdy MM, Darling AM, Werler MM; National Birth Defects Prevention Study. Maternal Age Differences in Interpregnancy Interval and Preterm Birth Associations Accounting for Multiple Epidemiologic Biases. *Paediatr Perinat Epidemiol.* 2025;39(5):465-474. doi:10.1111/ppe.70022

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15. Adrien, N., MacLehose, R. F., Werler, M. M., Yazdy, M. M., Fox, M. P., Parker, S. E., & National Birth Defects Prevention Study (2024). Assessing the Impact of Exposure Misclassification in Case-Control Studies of Self-Reported Medication Use. *Paediatric and perinatal epidemiology*, 10.1111/ppe.13161. Advance online publication. <https://doi.org/10.1111/ppe.13161>
16. Blue, E. E., Moore, K. J., North, K. E., Desrosiers, T. A., Carmichael, S. L., White, J. J., Chong, J. X., Bamshad, M. J., Jenkins, M. M., Almli, L. M., Brody, L. C., Freedman, S. F., Reefhuis, J., Romitti, P. A., Shaw, G. M., Werler, M., Kay, D. M., Browne, M. L., Feldkamp, M. L., Finnell, R. H., Nembhard, W. N., Pangilinan, F., Olshan, A. F., the National Institutes of Health Intramural Sequencing Center, the University of Washington Center for Mendelian Genomics, the National Birth Defects Prevention Study (2024). Exome sequencing identifies novel genes underlying primary congenital glaucoma in the National Birth Defects Prevention Study. *Birth Defects Research*, 116(7), e2384. <https://doi.org/10.1002/bdr2.2384>
17. Darling, A. M., Yazdy, M. M., García, M. H., Carmichael, S. L., Shaw, G. M., Nestoridi, E., & National Birth Defects Prevention Study (2024). Preconception dietary glycemic index and risk for large-for-gestational age births. *Nutrition (Burbank, Los Angeles County, Calif.)*, 119, 112322. <https://doi.org/10.1016/j.nut.2023.112322>
18. Fisher, S. C., Romitti, P. A., Tracy, M., Howley, M. M., Jabs, E. W., Browne, M. L., & National Birth Defects Prevention Study (2024). Associations Between Maternal Periconceptional Alcohol Consumption and Risk of Craniosynostosis Among Offspring,

National Birth Defects Prevention Study, 1997-2011. *Birth defects research*, 116(12), e2420. <https://doi.org/10.1002/bdr2.2420>

19. Fisher, S. C., Romitti, P. A., Tracy, M., Howley, M. M., Jabs, E. W., Browne, M. L., & National Birth Defects Prevention Study (2024). Associations between maternal periconceptional alcohol consumption and risk of omphalocele among offspring, National Birth Defects Prevention Study, 1997-2011. *Preventive medicine*, 180, 107891. <https://doi.org/10.1016/j.ypmed.2024.107891>
20. Forestieri, N. E., Olshan, A. F., Oster, M. E., Ailes, E. C., Fundora, M. P., Fisher, S. C., Shumate, C., Romitti, P. A., F Liberman, R., Nembhard, W. N., Carmichael, S. L., Desrosiers, T. A., & National Birth Defects Prevention Study (2024). Survival of Children With Critical Congenital Heart Defects in the National Birth Defects Prevention Study. *Birth defects research*, 116(9), e2394. <https://doi.org/10.1002/bdr2.2394>
21. Kancherla, V., Rhoads, A., Conway, K. M., Suhl, J., Langlois, P. H., Hoyt, A. T., Shaw, G. M., Evans, S. P., Moore, C. A., Luben, T. J., Michalski, A., Feldkamp, M. L., Romitti, P. A., & the National Birth Defects Prevention Study (2024). Maternal periconceptional exposure to drinking water disinfection by-products and neural tube defects in offspring. *Birth Defects Research*, 116(6), e2370. <https://doi.org/10.1002/bdr2.2370>
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24. Nicoletti, P., Zafer, S., Matok, L., Irron, I., Patrick, M., Haklai, R., Evangelista, J. E., Marino, G. B., Ma'ayan, A., Sewda, A., Holmes, G., Britton, S. R., Lee, W. J., Wu, M., Ru, Y., Arnaud, E., Botto, L., Brody, L. C., Byren, J. C., Caggana, M., et al (2024). Regulatory elements in SEM1-DLX5-DLX6 (7q21.3) locus contribute to genetic control of coronal nonsyndromic craniosynostosis and bone density-related traits. *Genetics in Medicine Open*, 2, 101851. <https://doi.org/10.1016/j.gimo.2024.101851>

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26. Papadopoulos, E. A., Howley, M. M., Fisher, S. C., Van Zutphen, A. R., Werler, M. M., Romitti, P. A., & Browne, M. L. (2024). Antifungal medication use during pregnancy and the risk of selected major birth defects in the National Birth Defects Prevention Study, 1997-2011. *Pharmacoepidemiol Drug Saf*, 33(1), e5741. <https://doi.org/10.1002/pds.5741>
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34. Howley, M. M., Fisher, S. C., Van Zutphen, A. R., Papadopoulos, E. A., Patel, J., Lin, A. E., Browne, M. L., & National Birth Defects Prevention Study (2023). Maternal exposure to heparin products and risk of birth defects in the National Birth Defects Prevention Study. *Birth defects research*, 115(2), 133–144. <https://doi.org/10.1002/bdr2.2074>
35. Howley, M. M., Werler, M. M., Fisher, S. C., Tracy, M., Van Zutphen, A. R., Papadopoulos, E. A., Hansen, C., Ailes, E. C., Reefhuis, J., Wood, M. E., Browne, M. L., & National Birth Defects Prevention Study (2023). Maternal exposure to zolpidem and risk of specific birth defects. *Journal of sleep research*, e13958. Advance online publication. <https://doi.org/10.1111/jsr.13958>
36. Huang, M., Lyu, C., Liu, N., Nembhard, W. N., Witte, J. S., Hobbs, C. A., Li, M., & National Birth Defects Prevention Study (2023). A gene-based association test of interactions for maternal-fetal genotypes identifies genes associated with nonsyndromic congenital heart defects. *Genetic epidemiology*, 10.1002/gepi.22533. Advance online publication. <https://doi.org/10.1002/gepi.22533>
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Prevention Study (2023). Neighborhood-level Socioeconomic Position During Early Pregnancy and Risk of Gastroschisis. *Epidemiology (Cambridge, Mass.)*, 34(4), 576–588. <https://doi.org/10.1097/EDE.0000000000001621>

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