

Texas Birth Defects Registry (TBDR) Annual Report

Appendix E. Research Using Texas Birth Defects Registry Data

(n=527, as of August 2026)

2026 (n=18)

1. Agopian, A. J., Benjamin, R. H., Oluwafemi, O. O., Sheriff, F. R., Lopez, K. N., Findley, T. O., Kim, Y., & Emery, S. T. (2026). Maternal Race and Ethnicity and Mortality Differences Among Infants with Birth Defects: A Statewide Cohort Analysis in Texas. *The Journal of pediatrics*, 289, 114877. <https://doi.org/10.1016/j.jpeds.2025.114877>
2. Allred, R., Nebergall, B., Yantz, C., Howell, R., & Shumate, C. (2026). Comparison of Critical Congenital Heart Defect Case Ascertainment in Texas Using 2 Data Sources. *Journal of public health management and practice: JPHMP*, Advance online publication. <https://doi.org/10.1097/PHH.0000000000002428>
3. Betancourt, D., Shumate, C., Gandhi, H., Allred, R., Yantz, C., Salemi, J., & Agopian, A. J. (2026). Inpatient Hospitalization Charges for Children With Birth Defects in Texas, 2021-2023. *Birth defects research*, 118(8), e70098. <https://doi.org/10.1002/bdr2.70098>
4. Bustrak, S., Rodriguez, J. D., Yeung, L. F., Salazar, G., Kim, S. H., Betancourt, D., Smith, S. D., Gusbi, N., Simpson, A., & Mai, C. T. (2026). Availability of Folic Acid Fortified Corn Masa Products in Selected Areas in the United States. *Birth defects research*, 118(6), e70084. <https://doi.org/10.1002/bdr2.70084>
5. Carreño, A., Aguilera, M. P., Ibañez, L., Sarmiento, K., Gili, J. A., Siffel, C., Nembhard, W. N., Bergman, J. E. H., Bermejo-Sánchez, E., Tagliabue, G., Dastgiri, S., Feldkamp, M. L., Pocius, S., Gatt, M., Martínez, L., Canessa, M. A., Groisman, B., Källén, K., Landau, D., Lelong, N., ... Zarante, I. (2026). Analysis of Prevalence and Mortality Among Neonates and Children With Intestinal Atresia: A Multinational Study, 1974-2015. *Birth defects research*, 118(4), e70032. <https://doi.org/10.1002/bdr2.70032>
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7. Howley, M. M., Scott, J. M., Williford, E. M., Reddy, U. M., Papadopoulos, E. A., Carmichael, S. L., Cuniff, C. M., Agopian, A. J., Elhassan, N., Nembhard, W. N., Fisher, S. C., & National Birth Defects Prevention Study and Birth Defects Study to Evaluate Pregnancy exposureS (2026). Maternal Stressors and Social Support in Early Pregnancy and the Risk of Stillbirth Among Fetuses With Birth Defects: Exploring Effect Modification by Race/Ethnicity. *Birth defects research*, 118(8), e70096. <https://doi.org/10.1002/bdr2.70096>

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10. Murray T, Agopian AJ, Patel J, Dixon A, Lanza K. (2026) Regional ambient heat and spina bifida prevalence in Texas: An ecological analysis. *International Public Health Journal*. (In Press).
11. Richard, M. A., Luke, B., Jaime, E., Fisher, S. C., Betancourt, D., Yazdy, M. M., Stone, S. L., Forestieri, N. E., Wantman, E., Baker, V. L., Eisenberg, M. L., Williams, C., Sutcliffe, A. G., & Lupo, P. J. (2026). A population-based study of the co-occurrence of hypospadias and congenital heart defects among boys conceived with in vitro fertilization†. *Human reproduction (Oxford, England)*, 41(8), 1440–1447. <https://doi.org/10.1093/humrep/deag093>
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13. Schraw, J. M., Mims, K.C., Stephens, S.B., Rasmussen, S.A., Mason, E.J., Desrosiers, T.A., Shumate, C.J., Nembhard, W.N., Yazdy, M.M., Nestroidi, E., Janitz, A.E., Tanner, J.P., Kirby, R.S., Salemi, J.L., Huff, C.D., Plon, S.E., Morris, S.A., Lupo, P.J. (2026). Association Between Non-Syndromic Congenital Heart Disease and Childhood Cancer in a Population-Based, Retrospective Cohort of 11 Million Children. *Journal of the American Heart Association*. (In press).
14. Sheriff, F. R., Benjamin, R. H., Xiao, Q., Patel, J., Shumate, C., Fernandez, A., & Agopian, A. J. (2026). Maternal Hypertension, Diabetes, and Preterm Birth Risk among Infants with Trisomy 21 in Texas, 1999–2018. *Birth defects research*. (In press).
15. Sheriff, F. R., Benjamin, R. H., Xiao, Q., Patel, J., Shumate, C., Fernandez, A., & Agopian, A. J. (2026). Neighbourhood Social Vulnerability and Preterm Birth Risk Among Infants With Trisomy 21: A Statewide Analysis. *Paediatric and perinatal epidemiology*, 40(5), 623–631. <https://doi.org/10.1111/ppe.70143>

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2025 (n=18)

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5. Betancourt, D., Shumate, C., Yantz, C., Gandhi, H., Drummond-Borg, M., Kubenka, C., Singletary, C., Riconda, D., & Agopian, A. J. (2025). Self-Reported Access to Specialized Genetics Providers Among Families of Young Children with Birth Defects in Texas. *American Journal of Medical Genetics. Part A*, 197(6), Article e64022. <https://doi.org/10.1002/ajmga.64022>

6. Hoang, T. T., Schraw, J. M., Shumate, C., Desrosiers, T. A., Nembhard, W. N., Yazdy, M., Nestoridi, E., Janitz, A. E., Kirby, R. S., Salemi, J. L., Tanner, J. P., Chambers, T. M., Taylor, M. D., Huff, C. D., Plon, S. E., Lupo, P. J., & Scheurer, M. E. (2025). Co-occurrence of congenital anomalies and childhood brain tumors in 22 million live births. *Neuro-oncology*, 27(7), 1910–1922. <https://doi.org/10.1093/neuonc/noaf087>
7. Hsu, C. J., Schraw, J. M., Desrosiers, T. A., Janitz, A. E., Kirby, R. S., Nestoridi, E., Nembhard, W. N., Salemi, J. L., Shumate, C., Tanner, J. P., Yazdy, M. M., Scheurer, M. E., Rabin, K. R., & Lupo, P. J. (2025). All genetic subtypes of B-cell acute lymphoblastic leukemia exhibit increased incidence rates in children with Down syndrome. *Leukemia*, 39(6), 1516–1519. <https://doi.org/10.1038/s41375-025-02602-w>
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Trisomy 21 in Texas, 1999-2018. *American Journal of Medical Genetics. Part A*, e64229. Advance online publication. <https://doi.org/10.1002/ajmg.a.64229>

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16. Stephens, S. B., Morris, S. A., Benjamin, R. H., Canfield, M. A., Shumate, C. J., Li, R., Cazaban-Ganduglia, C., & Agopian, A. J. (2025). Longitudinal Trends in Pediatric Survival by Congenital Heart Defect in Texas, 1999 to 2017. *JACC. Advances*, 4(6 Pt 1), 101812. <https://doi.org/10.1016/j.jacadv.2025.101812>
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2024 (n=17)

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2. Benjamin, R. H., Marengo, L. K., Scheuerle, A. E., Agopian, A. J., & Mitchell, L. E. (2024). Prevalence and descriptive epidemiology of choanal atresia and stenosis in Texas, 1999-2018. *American journal of medical genetics. Part A*, e63549. Advance online publication. <https://doi.org/10.1002/ajmg.a.63549>
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2. Allred, R. P., Nguyen, J., Agopian, A. J., Canfield, M. A., & Shumate, C. J. (2023). An epidemiologic study of penoscrotal transposition by maternal characteristics using data from the Texas birth defects registry. *Birth defects research*, 10.1002/bdr2.2270. Advance online publication. <https://doi.org/10.1002/bdr2.2270>
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