

Infant Mortality and Air Pollution

Policy Brief Citations

1. Clark, L. P., Millet, D. B., Marshall, J. D. (2017). Changes in Transportation-Related Air Pollution Exposures by Race-Ethnicity and Socioeconomic Status: Outdoor Nitrogen Dioxide in the United States in 2000 and 2010. *Environmental Health Perspectives*, 125(9), <https://doi.org/10.1289/EHP959>.
2. Chi, G. C., Hajat, A., Bird, C. E., Cullen, M. R. Griffin, B. A., Miller, K. A., Shih, R. A., Stefanick, M. L., Vedal, S., Whitsel E. A., Kaufman, J. D. (2016). Individual and Neighborhood Socioeconomic Status and the Association between Air Pollution and Cardiovascular Disease. *Environmental Health Perspectives*, 124(12), 1823-A236. <https://doi.org/10.1289/EHP199>
3. Thayamballi, N., Habiba, S., Laribi, O., Ebisu, K. (2021). Impact of Maternal Demographic and Socioeconomic Factors on the Association Between Particulate Matter and Adverse Birth Outcomes: a Systematic Review and Meta-analysis. *J. Racial and Ethnic Health Disparities* 8, 743–755. <https://doi.org/10.1007/s40615-020-00835-2>
4. Michigan Department of Health & Human Services. (2019). *Table 6: Number and Rate of Infant Deaths by Race, Michigan and United States Residents, 1989 – 2019*. 1989 - 2019 Michigan Resident Birth and Death Files, Division for Vital Records & Health Statistics, 2007-2012 NCHS, Linked Birth / Infant Death Records; 2007-2019 on CDC WONDER On-line Database. Accessed at <http://wonder.cdc.gov/lbd-current.html> on March 31, 2021. Infant Mortality in the United States, 2017, NVSR Vol 68, No. 10. "Deaths: Final Data for 2006", Vol 57, No. 14, April 2009; and [National Center for Health Statistics, historical data](#). Link: <https://www.mdch.state.mi.us/osr/InDxMain/INFDX.ASP>
5. Michigan Department of Health & Human Services. (2019). *Table 8: Three-year Average Infant Death Rates by Race and Ancestry, Michigan Residents, 1999 – 2019*. 1970 - 2019 Michigan Resident Birth and Death Files, Division for Vital Records & Health Statistics. <https://www.mdch.state.mi.us/osr/InDxMain/Tab7.asp>
 - a. The Centers for Disease Control. (2021). *Reproductive Health: Infant Mortality*. <https://www.cdc.gov/reproductivehealth/maternalinfanthealth/infantmortality.htm>
6. Michigan Department of Environment, Great Lakes, and Energy. Air Quality Index: Latest AQI Information. <http://www.deqmiair.org/>
7. Amster, E., Lew, L. C. Impact of Coal-fired Power Plant Emissions on Children’s Health: A Systematic Review of the Epidemiological Literature. *International Journal of*

Environmental Research and Public Health. 2019; 16(11):2008.
<https://doi.org/10.3390/ijerph16112008>

- a. Community Action to Promote Healthy Environments. (2017). *Public Health Action Plan*. <https://caphedetroit.sph.umich.edu/wp-content/uploads/2017/04/1-CAPHE-Public-Health-Action-Plan-2017.pdf>
8. Wang, L., Guo, P., Tong, H., Wang, W., Chang, Y., Guo, X., Gong, J., Song, C., Wu, L., Wang, T., Hopke, P. K., Chen, X., Tang, N., Mao, H. (2020). Traffic-related metrics and adverse birth outcomes: A systematic review and meta-analysis. *Environmental Research*, 188. <https://doi.org/10.1016/j.envres.2020.109752>.
9. Currie, J., Voorheis, J., Walker, R. (2021). What Caused Racial Disparities in Particulate Exposure to Fall? New Evidence from the Clean Air Act and Satellite-Based Measures of Air Quality. *National Bureau of Economic Research: Working Papers*.
<https://doi.org/10.3386/w26659>
10. Environmental Protection Agency. (2021). *Clean Air Act Overview: Progress Cleaning the Air and Improving People's Health*. <https://www.epa.gov/clean-air-act-overview/progress-cleaning-air-and-improving-peoples-health#breathe>
11. Isaevska, E., Moccia, C., Asta, F., Cibella, F., Gagliardi, L., Ronfani, L., Rusconi, F., Stazi, M. A., & Richiardi, L. (2021). Exposure to ambient air pollution in the first 1000 days of life and alterations in the DNA methylome and telomere length in children: A systematic review. *Environmental research*, 193, 110504.
<https://doi.org/10.1016/j.envres.2020.110504>
12. Urman, R., Garcia, E., Berhane, K., McConnell, R., Gauderman, W. J., & Gilliland, F. (2020). The Potential Effects of Policy-driven Air Pollution Interventions on Childhood Lung Development. *American journal of respiratory and critical care medicine*, 201(4), 438–444. <https://doi.org/10.1164/rccm.201903-0670OC>
13. Di, Q., Wang, Y., Zanobetti, A., Wang, Y., Koutrakis, P., Choirat, C., Dominici, F., & Schwartz, J. D. (2017). Air Pollution and Mortality in the Medicare Population. *The New England journal of medicine*, 376(26), 2513–2522.
<https://doi.org/10.1056/NEJMoa1702747>
14. Boyd D. R. (2019). The Human Right to Breathe Clean Air. *Annals of global health*, 85(1), 146. <https://doi.org/10.5334/aogh.2646>
15. Hauptman, M., Gaffin, J. M., Petty, C. R., Sheehan, W. J., Lai, P. S., Coull, B., Gold, D. R., & Phipatanakul, W. (2020). Proximity to major roadways and asthma symptoms in the School Inner-City Asthma Study. *The Journal of allergy and clinical immunology*, 145(1), 119–126.e4. <https://doi.org/10.1016/j.jaci.2019.08.038>
16. Grabow, M. L., Spak, S. N., Holloway, T., Stone, B., Mednick, A. C., & Patz, J. a. (2012). Air quality and exercise-related health benefits from reduced car travel in the midwestern

United States. *Environmental health perspectives*, 120(1), 68–76.
<https://doi.org/10.1289/ehp.1103440>

- a. Johansson, C., Lövenheim, B., Schantz, P., Wahlgren, L., Almström, P., Markstedt, A., Strömgren, M., Forsberg, B., & Sommar, J. N. (2017). Impacts on air pollution and health by changing commuting from car to bicycle. *The Science of the total environment*, 584-585, 55–63. <https://doi.org/10.1016/j.scitotenv.2017.01.145>
17. Ottosen, T-B., Kumar, P. (2020). The influence of the vegetation cycle on the mitigation of air pollution by a deciduous roadside hedge. *Sustainable Cities and Society*, 53. <https://doi.org/10.1016/j.scs.2019.101919>
18. Community Action to Promote Healthy Environments. (2018). *Vegetative Buffer Toolkit: Using Trees to Improve Air Quality in Detroit*. <http://caphedetroit.sph.umich.edu/wp-content/uploads/2018/05/Reduced-Size-CAPHE-Buffer-Toolkit.pdf>
19. Wang, L., Guo, P., Tong, H., Wang, A., Chang, Y., Guo, X., Gong, J., Song, C., Wu, L., Wang, T., Hopke, P. K., Chen, X., Tang, N. J., & Mao, H. (2020). Traffic-related metrics and adverse birth outcomes: A systematic review and meta-analysis. *Environmental research*, 188, 109752. <https://doi.org/10.1016/j.envres.2020.109752>
20. Janet, C., Walker, R. (2011). "Traffic Congestion and Infant Health: Evidence from E-ZPass." *American Economic Journal: Applied Economics*, 3 (1): 65-90. <https://doi.org/10.1257/app.3.1.65>
 - a. Willis, M. D., Hill, E. L., Kile, M. L., Carozza, S., Hystad, P. (2020). Assessing the effectiveness of vehicle emission regulations on improving perinatal health: a population-based accountability study, *International Journal of Epidemiology*, 49 (6): 1781–1791. <https://doi.org/10.1093/ije/dyaa137>
21. California Air Resources Board. (n. d.). *Children and Air Pollution*. <https://ww2.arb.ca.gov/resources/documents/children-and-air-pollution>
22. Schulz, A. J., Mentz, G. B., Sampson, N., Ward, M., Anderson, R., de Majo, R., Israel, B. A., Lewis, T. C., & Wilkins, D. (2016). RACE AND THE DISTRIBUTION OF SOCIAL AND PHYSICAL ENVIRONMENTAL RISK: A Case Example from the Detroit Metropolitan Area. *Du Bois review : social science research on race*, 13(2), 285–304. <https://doi.org/10.1017/S1742058X16000163>
23. Loughheed T. (2014). Arising from the ashes? Environmental health in Detroit. *Environmental health perspectives*, 122(12), A324–A331. <https://doi.org/10.1289/ehp.122-A324>
24. Rider, C.F., Carlsten, C. (2019). Air pollution and DNA methylation: effects of exposure in humans. *Clinical Epigenetics*, 11, 131. <https://doi.org/10.1186/s13148-019-0713-2>

25. Perera, F., Ashrafi, A., Kinney, P., Mills, D. (2019). Towards a fuller assessment of benefits to children's health of reducing air pollution and mitigating climate change due to fossil fuel combustion. *Environmental Research*, 172, 55-72.
<https://doi.org/10.1016/j.envres.2018.12.016>.
26. Bergstra, A. D., Brunekreef, B., Burdorf, A. (2021). The influence of industry-related air pollution on birth outcomes in an industrialized area. *Environmental Pollution*, 269, 115741. <https://doi.org/10.1016/j.envpol.2020.115741>.