

RESOURCES FOR DISASTER PREPARATION

HHS Maternal-Child Health Emergency Planning Toolkit

designed to improve the capacity of health care, public health, and social services professionals to address maternal and child health in emergency preparedness, response, recovery, and mitigation activities

<https://aspr.hhs.gov/at-risk/Pages/mch-planning-toolkit.aspx>

Get Ready, an initiative of American Public Health Association, includes specific preparedness fact sheets for pregnant women and families with infants

to help Americans prepare themselves, their families and their communities for all public health hazards they may face, including disasters, flu or other emerging infectious diseases

<https://aphagetready.org/Resources/Fact-Sheets>

Shelter

Search for open shelters near you or near a hospital by texting SHELTER and your ZIP code to 43362

Creating Safe Family-Friendly Spaces in Emergency Shelters

www.cdc.gov/nutrition/emergencies-infant-feeding/safe-spaces.html

Feeding

Feeding Your Child Safely During a Disaster | Breastfeeding | CDC

<https://www.cdc.gov/breastfeeding/recommendations/food-safety-for-infants-after-a-disaster.html>

Infant and Young Child Feeding in Emergencies (IYCF-E) Toolkit from the CDC

<https://www.cdc.gov/nutrition/emergencies-infant-feeding/index.html>

Houston Health Department

1. City of Houston support programs

Call 3-1-1 or the Health Department Call Center 832-393-5427

Visit <https://www.houstonhealth.org/services/family-child-health>

2. Nurse-Family Partnership

<https://bit.ly/HHDNFPPreferral>

NurseFamilyPartnership@Houstontx.gov

3. Healthy Families Houston

hfh@houstontx.gov

Program Phone: 832-395-9903

Sign up for **emergency alerts** [AlertHouston](#) | [Houston OEM](#)

Health Effects Related to Hurricanes, from Dr. Natalie Johnson's presentation

1. Cowan, K. N., Pennington, A. F., Gregory, T., & Hsu, J. (2022). Impact of Hurricanes on Children With Asthma: A Systematic Literature Review. *Disaster Med Public Health Prep*, 16(2), 777-782. <https://doi.org/10.1017/dmp.2020.424>
2. Harville, E., Xiong, X., & Buekens, P. (2010). Disasters and perinatal health: a systematic review. *Obstet Gynecol Surv*, 65(11), 713-728. <https://doi.org/10.1097/OGX.0b013e31820eddbe>
3. Huang, W., Gao, Y., Xu, R., Yang, Z., Yu, P., Ye, T., Ritchie Elizabeth, A., Li, S., & Guo, Y (2023). Health Effects of Cyclones: A Systematic Review and Meta-Analysis of Epidemiological Studies. *Environmental Health Perspectives*, 131(8), 086001. <https://doi.org/10.1289/EHP12158>
4. Lai, B. S., Lewis, R., Livings, M. S., La Greca, A. M., & Esnard, A. M. (2017). Posttraumatic Stress Symptom Trajectories Among Children After Disaster Exposure: A Review. *J Trauma Stress*, 30(6), 571-582. <https://doi.org/10.1002/jts.22242>
5. Suter, M. A., & Aagaard, K. M. (2023). Natural disasters resulting from climate change: The impact of hurricanes and flooding on perinatal outcomes. *Semin Perinatol*, 47(8), 151840. <https://doi.org/10.1016/j.semperi.2023.151840>
6. Zahran, S., Breunig, I. M., Link, B. G., Snodgrass, J. G., Weiler, S., & Mielke, H. W. (2014). Maternal exposure to hurricane destruction and fetal mortality. *J Epidemiol Community Health*, 68(8), 760-766. <https://doi.org/10.1136/jech-2014-203807>
7. Zhang, A., de Angel Sola, D., Acevedo Flores, M., Cao, L., Wang, L., Kim, J. G., Tarr, P. I., Warner, B. B., Rosario Matos, N., & Wang, L. (2023). Infants exposed in utero to Hurricane Maria have gut microbiomes with reduced diversity and altered metabolic capacity. *mSphere*, 8(5), e0013423. <https://doi.org/10.1128/msphere.00134-23>

Health Effects Related to Wildfires

1. Amjad, S., Chojecki, D., Osornio-Vargas, A., & Ospina, M. B. (2021). Wildfire exposure during pregnancy and the risk of adverse birth outcomes: A systematic review. *Environ Int*, 156, 106644. <https://doi.org/10.1016/j.envint.2021.106644>
2. Basilio, E., Chen, R., Fernandez, A. C., Padula, A. M., Robinson, J. F., & Gaw, S. L. (2022). Wildfire Smoke Exposure during Pregnancy: A Review of Potential Mechanisms of Placental Toxicity, Impact on Obstetric Outcomes, and Strategies to Reduce Exposure. *Int J Environ Res Public Health*, 19(21). <https://doi.org/10.3390/ijerph192113727>
3. Zhang, Y., Tingting, Y., Huang, W., Yu, P., Chen, G., Xu, R., Song, J., Guo, Y., & Li, S. (2023). Health Impacts of Wildfire Smoke on Children and Adolescents: A Systematic Review and Meta-analysis. *Curr Environ Health Rep*. <https://doi.org/10.1007/s40572-023-00420-9>

Health Effects Related to Extreme Temperature

1. Nyadanu, S. D., Dunne, J., Tessema, G. A., Mullins, B., Kumi-Boateng, B., Bell, M. L., Duko, B., & Pereira, G. (2024). Maternal exposure to ambient air temperature and adverse birth outcomes: An umbrella review of systematic reviews and meta-analyses. *Sci Total Environ*, 170236. <https://doi.org/10.1016/j.scitotenv.2024.170236>
2. Uibel, D., Sharma, R., Piontkowski, D., Sheffield, P. E., & Clougherty, J. E. (2022). Association of ambient extreme heat with pediatric morbidity: a scoping review. *Int J Biometeorol*, 66(8), 1683-1698. <https://doi.org/10.1007/s00484-022-02310-5>
3. Syed, S., O'Sullivan, T. L., & Phillips, K. P. (2022). Extreme Heat and Pregnancy Outcomes: A Scoping Review of the Epidemiological Evidence. *Int J Environ Res Public Health*, 19(4). <https://doi.org/10.3390/ijerph19042412>

General Health Effects from Climate Change/Interacting Factors

1. Ha, S. (2022). The Changing Climate and Pregnancy Health. *Curr Environ Health Rep*, 9(2), 263-275. <https://doi.org/10.1007/s40572-022-00345-9>
2. Kline, O., & Prunicki, M. (2023). Climate change impacts on children's respiratory health. *Current Opinion in Pediatrics*, 35(3), 350-355. <https://doi.org/10.1097/mop.0000000000001253>