



# Sustainability & Healthcare Database

Health and environmental sustainability are fundamentally connected and are essential for the livelihood of our communities. NYU Langone and NYU researchers have recognized this connection and have led by example through their academic studies on this topic. This Sustainability & Healthcare Database compiles their publications on the intersection of public health, sustainability, pollution, and climate change.

This database serves as an educational resource that illustrates how hospitals can demonstrate leadership and allow research to drive meaningful changes in practice and care.

## **Download the Sustainability & Healthcare Database here.**

This document shows the database organized by categories. To view this information in an Excel file which allow the user to sort and filter information, please use the download link above.



Silva, G. S., Schimek, C. A., Lighter, J. L., & Thiel, C. L. (2022). Addressing the climate impacts of healthcare. *Journal of hospital medicine*, 17(8), 661–664. <https://doi.org/10.1002/jhm.12834>

Sullivan-Marx, E., & McCauley, L. (2017). Climate

env6 refKKmental hhcare to practitioners: Datawe doing enough?. The

countries. *Environmental research*, 132, 379–383. <https://doi.org/10.1016/j.envres.2014.04.018>

Chatham-Stephens, K., Caravanos, J., Ericson, B., Sunga-Amparo, J., Susilorini, B., Sharma, P., Landrigan, P. J., & Fuller, R. (2013). Burden of disease from toxic waste sites in India, Indonesia, and the Philippines in 2010. *Environmental health perspectives*, 121(7), 791–796. <https://doi.org/10.1289/ehp.1206127>

Chen, Q. Y., DesMarais, T., & Costa, M. (2019). Metals and Mechanisms of Carcinogenesis. *Annual review of pharmacology and toxicology*, 59, 537–554. <https://doi.org/10.1146/annurev-pharmtox-010818-021031>

Chen, Q. Y., Murphy, A., Sun, H., & Costa, M. (2019). Molecular and epigenetic mechanisms of Cr(VI)-induced carcinogenesis. *Toxicology and applied pharmacology*, 377, 114636. <https://doi.org/10.1016/j.taap.2019.114636>

Chen, Y., Wu, F., Liu, X., Parvez, F., Lolacono, N. J., Gibson, E. A., Kioumourtoglou, M. A., Levy, D., Shahriar, H., Uddin, M. N., Islam, T., Lomax, A., Saxena, R., Sanchez, T., Santiago, D., Ellis, T., Ahsan, H., Wasserman, G. A., & Graziano, J. H. (2019). Early life and adolescent arsenic exposure from drinking water and blood pressure in adolescence. *Environmental research*, 178, 108681. <https://doi.org/10.1016/j.envres.2019.108681>

Cifuentes, E., Kasten, F. L., Trasande, L., & Goldman, R. H. (2011). Resetting our priorities in environmental health: an example from the South-North partnership in Lake Chapala, Mexico. *Environmental research*, 111(6), 877–880. <https://doi.org/10.1016/j.envres.2011.05.017>

Colicino, E., de Water, E., Just, A. C., Navarro, E., Pedretti, N. F., McRae, N., Braun, J. M., Schnaas, L., Rodríguez-Carmona, Y., Hernández, C., Tamayo-Ortiz, M., Téllez-Rojo, M. M., Deierlein, A. L., Calafat, A. M., Baccarelli, A., Wright, R. O., & Horton, M. K. (2021). Prenatal urinary concentrations of phthalate metabolites and behavioral problems in Mexican children: The Programming Research in Obesity, Growth Environment and Social Stress (PROGRESS) study. *Environmental research*, 201, 111338. <https://doi.org/10.1016/j.envres.2021.111338>

tiago, D., Ellis, 11338.J., Susilpleaeeaeaeaeae0Environme[org/1 .1 (1)74.antiPns of )0.mn Obesity, Growth Envir4t, 2echanisms o]TJpolyae fy

quantitative microbial risk assessment. *Journal of water and health*,  
19(6), 918–932. <https://doi.org/10.2166/wh.2021.068>

- Greenberg, B., Weinstock-Guttman, B., Rodriguez, M., Aaen, G., Belman, A., Barcellos, L. F., Rose, J., Gorman, M., Benson, L., Candee, M., Chitnis, T., Harris, Y., Kahn, I., Roalsted, S., Hart, J., ... U.S. Network of Pediatric Multiple Sclerosis Centers (2018). Several household chemical exposures are associated with pediatric-onset multiple sclerosis. *Annals of clinical and translational neurology*, 5(12), 1513–1521. <https://doi.org/10.1002/acn3.663>
- Meltzer, G., Avenbuan, O., Wu, F., Shah, K., Chen, Y., Mann, V., & Zelikof, J. T. (2020). The Ramapough Lunaape Nation: Facing Health Impacts Associated with Proximity to a Superfund Site. *Journal of community health*, 45(6), 1196–1204. <https://doi.org/10.1007/s10900-020-00848-2>
- Moon, H. B., Choi, M., Choi, H. G., & Kannan, K. (2012). Severe pollution of PCDD/Fs and dioxin-like PCBs in sediments from Lake Shihwa, Korea: tracking the source. *Marine pollution bulletin*, 64(11), 2357–2363. <https://doi.org/10.1016/j.marpolbul.2012.08.018>
- Moon, K. A., Oberoi, S., Barchowsky, A., Chen, Y., Guallar, E., Nachman, K. E., Rahman, M., Sohel, N., D'ippoliti, D., Wade, T. J., James, K. A., Farzan, S. F., Karagas, M. R., Ahsan, H., & Navas-Acien, A. (2017). A dose-response meta-analysis of chronic arsenic exposure and incident cardiovascular disease. *International journal of epidemiology*, 46(6), 1924–1939. <https://doi.org/10.1093/ije/dyx202>
- Muncke, J., Andersson, A. M., Backhaus, T., Boucher, J. M., Carney Almroth, B., Castillo Castillo, A., Chevrier, J., Demeneix, B. A., Emmanuel, J. A., Fini, J. B., Gee, D., Geueke, B., Groh, K., Heindel, J. J., Houlihan, J., Kassotis, C. D., Kwiatkowski, C. F., Leferts, L. Y., Ma f ni, M. V., Martin, O. V., ... Scheringer, M. (2020). Impacts of food contact chemicals on human health: a consensus statement. *Environmental health : a global access science source*, 19(1), 25. <https://doi.org/10.1186/s12940-020-0572-5>
- Muncke, J., Backhaus, T., Geueke, B., Ma f ni, M. V., Martin, O. V., Myers, J. P., Soto, A. M., Trasande, L., Trier, X., & Scheringer, M. (2017). Scientific Challenges in the Risk Assessment of Food Contact Materials. *Environmental health perspectives*, 125(9), 095001. <https://doi.org/10.1289/EHP644>
- Ni, K., Lu, Y., Wang, T., Kannan, K., Gosens, J., Xu, L., Li, Q., Wang, L., & Liu, S. (2013). A review of human exposure to polybrominated diphenyl ethers (PBDEs) in China. *International journal of hygiene and environmental health*, 216(6), 607–623. <https://doi.org/10.1016/j.ijheh.2013.02.002>
- Nye, M., Knuckles, T., Yan, B., Ross, J., Orem, W., Varonka, M., Thurston, G., Dzomba, A., & McCawley, M. (2020). Use of Tracer Elements for Estimating Community Exposure to Marcellus Shale Development Operations. *International journal of environmental research and public health*, 17(6), 1837. <https://doi.org/10.3390/ijerph17061837>
- Obsekov, V., Ghassabian, A., Mukhopadhyay, S., & Trasande, L. (2023). Manganese and thyroid function in the national health and nutrition examination survey, 2011-2012. *Environmental research*, 222, 115371. Advance online publication. <https://doi.org/10.1016/j.envres.2023.115371>
- Orisakwe, O., Blum, J., Sujak, S. & Zelikof, J. (2014). Metal Pollution in Nigeria: A Biomonitoring Update. *Journal of health and pollution*, 4(6), 40–52. doi: <https://doi.org/10.5696/2156-9614-4-6.40>
- Peltier, M., Fassett, M., Arita, Y., Chiu, V., Shi, J., Takhar, H., Mahfuz, A., Garcia, G., Menon, R. & Getahun, D. (2021). Women with high plasma levels of PBDE-47 are at increased risk of preterm birth. *Journal of Perinatal Medicine*, 49(4), 439-447. <https://doi.org/10.1515/jpm-2020-0349>
- Philips, E. M., Jaddoe, V., Asimakopoulos, A. G., Kannan, K., Steegers, E., Santos, S., & Trasande, L. (2018). Bisphenol and phthalate concentrations and its determinants among pregnant

for exposure. *Chemosphere*, 125(12), 1553-1559 <https://doi.org/10.1016/j.chemosphere.2015.10.028>

Trasande L, Lampa E, Lind L, et al (2017) Population attributable risks and costs of diabetogenic chemical exposures in the elderly. *Epidemiol Community Health*. 71:111-114.

Trasande L. (2017). Exploring regrettable substitution: replacements for bisphenol A. *The Lancet. Planetary health*, 1(3), e88–e89. [https://doi.org/10.1016/S2542-5196\(17\)30046-3](https://doi.org/10.1016/S2542-5196(17)30046-3)

Trasande, L., Aldana, S. I., Trachtman, H., Kannan, K., Morrison, D., Christakis, D. A., Whitlock, K., Messito, M. J., Gross, R. S., Karthikraj, R., & Sathyanarayana, S. (2020). Glyphosate exposures and kidney injury biomarkers in infants and young children. *Environmental pollution (Barking, Essex : 1987)*, 256, 113334. <https://doi.org/10.1016/j.envpol.2019.113334>

Trasande, L., Ghassabian, A., Kahn, L. G., Jacobson, M. H., Afanasyeva, Y., Liu, M., Chen, Y., Naidu, M., Alcedo, G., Gilbert, J., Koshy, T. T., & NYU Children's Health and Environment Study Team (2020). The NYU Children's Health and Environment Study. *European journal of epidemiology*, 35(3), 305–320. <https://doi.org/10.1007/s10654-020-00623-6>

Trasande, L., Massey, R. I., DiGangi, J., Geiser, K., Olanipekun, A. I., & Gallagher, L. (2011). How developing nations can protect children from hazardous chemical exposures while sustaining economic growth. *Health affairs (Project Hope)*, 30(12), 2400–2409. <https://doi.org/10.1377/hlthaf.2010.1217>

Trasande, L., Niu, J., Li, J., Liu, X., Zhang, B., Li, Z., Ding, G., Sun, Y., Chen, M., Hu, X., Chen, L. C., Mendelsohn, A., Chen, Y., & Qu, Q. (2014). The Environment and Children's Health Care in Northwest China. *BMC pediatrics*, 14, 82. <https://doi.org/10.1186/1471-2431-14-82>

Trasande, L., Shafer, R. M., Sathyanarayana, S., & COUNCIL ON ENVIRONMENTAL HEALTH (2018). Food Additives and Child Health. *Pediatrics*, 142(2), e20181408. <https://doi.org/10.1542/peds.2018-1408>

Trasande, L., Vandenberg, L. N., Bourguignon, J. P., Myers, J. P., Slama, R., Vom Saal, F., & Zoeller, R. T. (2016). Peer-reviewed and unbiased research, rather than 'sound science', should be used to evaluate endocrine-disrupting chemicals. *Journal of epidemiology and community health*, 70(11), 1051–1056. <https://doi.org/10.1136/jech-2016-207841>

Trasande, L., Zoeller, R. T., Hass, U., Kortenkamp, A., Grandjean, P., Myers, J. P., DiGangi, J., Hunt, P. M., Rudel, R., Sathyanarayana, S., Bellanger, M., Hauser, R., Legler, J., Skakkebaek, N. E., & Heindel, J. J. (2016). Burden of disease and costs of exposure to endocrine disrupting chemicals in the European Union: an updated analysis. *Andrology*, 4(4), 565–572. <https://doi.org/10.1111/andr.12178>

Trasande, L., Zoeller, T., Hass, U., Kortenkamp, A., Grandjean, P., Myers, J., DiGangi, J., Bellanger, M., Hauser, R., Legler, J., Skakkebaek, N., & Heindel, J. (2015). Estimating Burden and Disease Costs of Exposure to Endocrine-Disrupting Chemicals in the European Union. *The journal of clinical endocrinology & metabolism*, 100(4), 1245–1255. <https://doi.org/10.1210/jc.2014-4324>

Vimalkumar, K., Mayilsamy, M., Arun, E., GaLnu1e427., Jud Tw10.atal Imarof cl1 awire5.



at E-Waste Recycling and Scrapyard Facility in Ghana. *Journal of health and pollution*, 3 (4): 11–22. doi: <https://doi.org/10.5696/2156-9614-3.4.11>

Caravanos, J., Ericson, B., Ponce-Canchihuamán, J., Hanrahan, D., Block, M., Susilorini, B., & Fuller, R. (2013). Rapid assessment of environmental health risks posed by mining operations in low- and middle-income countries: selected case studies. *Environmental science and pollution research international*, 20(11), 7711–7718. <https://doi.org/10.1007/s11356-012-1424-9>

Citron, J., Willcocks, E., Crowley, G., Kwon, S., & Nolan, A. (2019). Genomics of Particulate Matter Exposure Associated Cardiopulmonary Disease: A Narrative Review. *International journal of environmental research and public health*, 16(22), 4335. <https://doi.org/10.3390/ijerph16224335>

Crowley, G., Kwon, S., Ostrofsky, D.F., Clementi, E.,

#### 4(d). Exposure: Prenatal maternal-fetal health impacts, risks, and costs related to chemical and environmental exposure

Role of Neurosteroid Hormone Disruption. *The Journal of clinical endocrinology and metabolism*, 106(7), 1887–1899. <https://doi.org/10.1210/clinem/dgab199>

Breton, C. V., Landon, R., Kahn, L. G., Enlow, M. B., Peterson, A. K., Bastain, T., Braun, J., Comstock, S. S., Duarte, C. S., Hipwell, A., Ji, H., LaSalle, J. M., Miller, R. L., Musci, R., Posner, J., Schmidt, R., Suglia, S. F., Tung, I., Weisenberger, D., Zhu, Y., ... Fry, R. (2021). Exploring the evidence for epigenetic regulation of environmental influences on child health across generations. *Communications biology*, 4(1), 769. <https://doi.org/10.1038/s42003-021-02316-6>

Church, J. S., Tijerina, P. B., Emerson, F. J., Coburn, M. A., Blum, J. L., Zelikof, J. T., & Schwartz, J. J. (2018). Perinatal exposure to concentrated ambient particulates results in autism-like behavioral deficits in adult mice. *Neurotoxicology*, 65, 231–240. <https://doi.org/10.1016/j.neuro.2017.10.007>

Corson, L., Zhu, H., Quan, C., Grunig, F., Ballaney, M., Jin, X., Perera, F., Factor, P., Chen, L., & Miller, R. (2010). Prenatal allergen and diesel exhaust exposure and their effects on allergy in adult offspring mice. *Allergy, asthma, and clinical immunology*, 6, 7. <https://doi.org/10.1186/1710-1492-6-7>

Duh-Leong, C., Shonna Yin, H., Gross, R. S., Elbel, B., Thorpe, L. E., Trasande, L., White, M. J., Perrin, E. M., Fierman, A. H., & Lee, D. C. (2022). The Prenatal Neighborhood Environment and Geographic Hotspots of Infants with At-risk Birthweights in New York City. *Journal of urban health : bulletin of the New York Academy of Medicine*, 99(3), 482–491. <https://doi.org/10.1007/s11524-022-00662-2>

Farzan, S. F., Howe, C. G., Chen, Y., Gilbert-Diamond, D., Cottingham, K. L., Jackson, B. P., Weinstein, A. R., & Karagas, M. R. (2018). Prenatal lead exposure and elevated blood pressure in children. *Environment international*, 121(Pt 2), 1289–1296. <https://doi.org/10.1016/j.envint.2018.10.049>

Farzan, S. F., Howe, C. G., Chen, Y., Gilbert-Diamond, D., Korrick, S., Jackson, B. P., Weinstein, A. R., & Karagas, M. R. (2021). Prenatal and postnatal mercury exposure and blood pressure in childhood. *Environment international*, 146, 106201. <https://doi.org/10.1016/j.envint.2020.106201>

Ghassabian, A., & Trasande, L. (2018). Disruption in Thyroid Signaling Pathway: A Mechanism for the Effect of Endocrine-Disrupting Chemicals on Child Neurodevelopment. *Frontiers in endocrinology*, 9, 204. <https://doi.org/10.3389/fendo.2018.00204>

Gross, R. S., Ghassabian, A., Vandyousef, S., Messito, M. J., Gao, C., Kannan, K., & Trasande, L. (2020). Persistent organic pollutants exposure in newborn dried blood spots and infant weight status: A case-control study of low-income Hispanic mother-infant pairs. *Environmental pollution (Barking, Essex : 1987)*, 267, 115427. <https://doi.org/10.1016/j.envpol.2020.115427>

Ha, S., Yeung, E., Bell, E., Insaf, T., Ghassabian, A., Bell, G., Muscatiello, N., & Mendola, P. (2019). Prenatal and early life exposures to ambient air pollution and development. *Environmental research*, 174, 170–175. <https://doi.org/10.1016/j.envres.2019.03.064>

Hawks, R. M., Kahn, L. G., Fang, W., Keefe, D., Mehta-Lee, S. S., Brubaker, S., & Trasande, L. (2022). Prenatal phthalate exposure and placental telomere length. *American journal of obstetrics & gynecology MFM*, 4(6), 100694. Advance online publication. <https://doi.org/10.1016/j.ajogmf.2022.100694>

Jacobson, M. H., Stein, C. R., Liu, M., Ackerman, M. G., Blakemore, J. K., Long, S. E., Pinna, G., Romay-Tallon, R., Kannan, K., Zhu, H., & Trasande, L. (2021). Prenatal Exposure to Bisphenols and Phthalates and Postpartum Depression: The

Environment international, 163, 107235. <https://doi.org/10.1016/j.envint.2022.107235>

Trasande, L., Ghassabian, A., Kahn, L. G., Jacobson, M. H., Afanasyeva, Y., Liu, M., Chen, Y., Naidu, M., Alcedo, G., Gilbert, J., Koshy, T. T., & NYU Children's Health and Environment Study Team (2020). The NYU Children's Health and Environment Study. *European journal of epidemiology*, 35(3), 305–320. <https://doi.org/10.1007/s10654-020-00623-6>

Trasande, L., Wong, K., Roy, A., Savitz, D. A., & Thurston, G. (2013). Exploring prenatal outdoor air pollution, birth outcomes and neonatal health care utilization in a nationally representative sample. *Journal of exposure science & environmental epidemiology*, 23(3), 315–321. <https://doi.org/10.1038/jes.2012.124>

van den Dries, M. A., Guxens, M., Spaan, S., Ferguson, K. K., Philips, E., Santos, S., Jaddoe, V., Ghassabian, A.,

Joshi, S., Hashmi, S., Shah, S., & Kalantar-Zadeh, K. (2020). Plant-based diets for prevention and management of chronic kidney disease. *Current opinion in nephrology and hypertension*, 29(1), 16–21. <https://doi.org/10.1097/MNH.0000000000000574>

Juul, F., Martinez-Steele, E., Parekh, N., Monteiro, C. A., & Chang, V. W. (2018). Ultra-processed food consumption and excess weight among US adults. *The British journal of nutrition*, 120(1), 90–100. <https://doi.org/10.1017/S0007114518001046>

Kalantar-Zadeh, K., Joshi, S., Schlueter, R., Cooke, J., Brown-Tortorici, A., Donnelly, M., Schulman, S., Lau, W. L., Rhee, C. M., Streja, E., Tantisattamo, E., Ferrey, A. J., Hanna, R., Chen, J., Malik, S., Nguyen, D. V., Crowley, S. T., & Kovesdy, C. P. (2020). Plant-Dominant Low-Protein Diet for Conservative Management of Chronic Kidney Disease. *Nutrients*, 12(7), 1931. <https://doi.org/10.3390/nu12071931>

Lim, C. C., Hayes, R. B., Ahn, J., Shao, Y., Silverman, D. T., Jones, R. R., & Thurston, G. D. (2019). Mediterranean Diet and the Association Between Air Pollution and Cardiovascular Disease Mortality Risk. *Circulation*, 139(15), 1766–1775. <https://doi.org/10.1161/CIRCULATIONAHA.119.042888>

Advanced Glycation End Products: Building on the Concept of the “Common Soil” in Metabolic Disease. *Endocrinology*, 161(1), bqz006. <https://doi.org/10.1210/endo/bqz006>

Tylavsky, F. A., Ferrara, A., Catellier, D. J., Oken, E., Li, X., Law, A., Dabelea, D., Rundle, A., Gilbert-Diamond, D., Hivert, M. F., Breton, C. V., Cassidy-Bushrow, A. E., Mueller, N. T., Hunt, K. J., Arteaga, S. S., Lombo, T., Mahabir, S., Ruden, D., Sauder, K., Hedderson, M. M., ... Trasande, L. (2020). Understanding childhood obesity in the US: the NIH environmental influences on child health outcomes (ECHO) program. *International journal of obesity* (2005), 44(3), 617–627. <https://doi.org/10.1038/s41366-019-0470-5>

Wang, S. S., Glied, S., Williams, S., Will, B., & Muennig, P. A. (2022). Impact of aeroplane noise on mental and physical health: a quasi-experimental analysis. *BMJ open*, 12(5), e057209. <https://doi.org/10.1136/bmjopen-2021-057209>

## 7. Policy

### *outcomes and implications of policies on the environmental and health*

Bartlett, E. S., & Trasande, L. (2014). Economic impacts of environmentally attributable childhood health outcomes in the European Union. *European journal of public health*, 24(1), 21–26. <https://doi.org/10.1093/eurpub/ckt063>

Cifuentes, E., Trasande, L., Ramirez, M., & Landrigan, P. J. (2010). A qualitative analysis of environmental policy and children’s health in Mexico. *Environmental health: a global access science source*, 9, 14. <https://doi.org/10.1186/1476-069X-9-14>

Hagelskamp, C., Silliman, R., Godfrey, E. & Schleifer, D. (2020). Shifting Priorities: Participatory Budgeting in New York City is Associated with Increased Investments in Schools, Street and Traffic Improvements, and Public Housing. *New political science*, 42(2), 171-196. <https://doi.org/10.1080/07393148.2020.1773689>

Kassotis, C. D., & Trasande, L. (2021). Endocrine disruptor global policy. *Advances in pharmacology* (San Diego, Calif.), 92, 1–34. <https://doi.org/10.1016/bs.apha.2021.03.005>

Kassotis, C. D., Vandenberg, L. N., Demeneix, B. A., Porta, M., Slama, R., & Trasande, L. (2020). Endocrine-disrupting chemicals: economic, regulatory, and policy implications. *The lancet. Diabetes & endocrinology*, 8(8), 719–730. [https://doi.org/10.1016/S2213-8587\(20\)30128-5](https://doi.org/10.1016/S2213-8587(20)30128-5)

Khaw, M. W., Grab, D. A., Livermore, M. A., Vossler, C. A., & Glimcher, P. W. (2015). The Measurement of Subjective Value and Its Relation to Contingent Valuation and Environmental Public Goods. *PLoS one*, 10(7), e0132842. <https://doi.org/10.1371/journal.pone.0132842>

Lippmann, M. (2012). Particulate matter (PM) air pollution and health: regulatory and policy implications. *Air quality, atmosphere & health*, 5, 237–241. <https://doi.org/10.1007/s11869-011-0136-5>

Pomeranz, J. L., Zellers, L., Bare, M., & Pertschuk, M. (2019). State Preemption of Food and Nutrition Policies and Litigation: Undermining Government’s Role in Public Health. *American journal of preventive medicine*, 56(1), 47–57. <https://doi.org/10.1016/j.amepre.2018.07.027>

Prichystalova, R., Fini, J. B., Trasande, L., Bellanger, M., Demeneix, B., & Maxim, L. (2017). Comparison of methods for calculating the health costs of endocrine disruptors: a case study on triclosan. *Environmental health: a global access science source*, 16(1), 55. <https://doi.org/10.1186/s12940-017-0265-x>

Rice, M. B., Motto Malea, N., Pinkerton, K. E., Schwartz, J., Nadeau, K. C., Browner, C. M., Whitehouse, S., & Thurston,

).Browm.6AgStatContinge7n atmoS-0.6 (scien7n Mls,stitio qual7cy)73.6 a

Hubbell, B., Pope, C. A., 3rd, Apte, J. S., Brauer, M., Cohen, A., Weichenthal, S., Coggins, J., Di, Q., Brunekreef, B., Frostad, J., Lim, S. S., Kan, H., Walker, K. D., Thurston, G. D., Hayes, R. B., Lim, C. C., ... Spadaro, J. V. (2018). Global estimates of mortality associated with long-term exposure to outdoor fine particulate matter. *Proceedings of the National Academy of Sciences of the United States of America*, 115(38), 9592–9597. <https://doi.org/10.1073/pnas.1803222115>

Caplin, A., Ghandehari, M., Lim, C., Glimcher, P., & Thurston, G. (2019). Advancing environmental exposure assessment science to benefit society. *Nature communications*, 10(1), 1236. <https://doi.org/10.1038/s41467-019-09155-4>

Clementi, E. A., Talusan, A., Vaidyanathan, S., Veerappan, A., Mikhail, M., Ostrofsky, D., Crowley, G., Kim, J. S., Kwon, S., & Nolan, A. (2019). Metabolic Syndrome and Air Pollution: A Narrative Review of Their Cardiopulmonary Effects. *Toxics*, 7(1), 6. <https://doi.org/10.3390/toxics7010006>

Cromar, K. R., Duncan, B. N., Bartonova, A., Benedict, K., Brauer, M., Habre, R., Hagler, G., Haynes, J. A., Khan, S., Kilaru, V., Liu, Y., Pawson, S., Peden, D. B., Quint, J. K., Rice, M. B., Sasser, E. N., Seto, E., Stone, S. L., Thurston, G. D., & Volckens, J. (2019). Air Pollution Monitoring for Health Research and Patient Care. An Official American Thoracic Society Workshop Report. *Annals of the American Thoracic Society*, 16(10), 1207–1214. <https://doi.org/10.1513/AnnalsATS.201906-477ST>

Cromar, K. R., Ghazipura, M., Gladson, L. A., & Perlmutter, L. (2020). Evaluating the U.S. Air Quality Index as a risk communication tool: Comparing associations of index values with respiratory morbidity among adults in California. *PloS one*, 15(11), e0242031. <https://doi.org/10.1371/journal.pone.0242031>

Ahn, J., & Thurston, G. D. (2020). PM2.5 air pollution and cause-specific cardiovascular disease mortality. *International journal of epidemiology*, 49(1), 25–35. <https://doi.org/10.1093/ije/dyz114>

Hickey, C., Gordon, C., Galdanes, K., Blaustein, M., Horton, L., Chillrud, S., Ross, J., Yinon, L., Chen, L. C., & Gordon, T. (2020). Toxicity of particles emitted by fireworks. *Particle and fibre toxicology*, 17(1), 28. <https://doi.org/10.1186/s12989-020-00360-4>

Independent Particulate Matter Review Panel, Frey, H. C., Adams, P. J., Adgate, J. L., Allen, G. A., Balmes, J., Boyle, K., Chow, J. C., Dockery, D. W., Felton, H. D., Gordon, T., Harkema, J. R., Kinney, P., Kleinman, M. T., McConnell, R., Poirot, R. L., Sarnat,

Exposure-Associated Comorbidities and Biomarkers. *EMJ. Gastroenterology*, 7(1), 103–112. <https://www.emjreviews.com/non-cardiac-chest-pain-a-review-of-environmental-exposure-associated-comorbidities-and-biomarkers/>

Mirowsky, J., & Gordon, T. (2015). Noninvasive effects measurements for air pollution human studies: methods, analysis, and implications. *Journal of exposure science & environmental epidemiology*, 25(4), 354–380. <https://doi.org/10.1038/jes.2014.93>

Nahar, K., Rahman, M., Raja, A., Thurston, G. & Gordon, T. (2020). Exposure assessment of emissions from mobile food carts on New York City streets. *Environmental pollution*, 267, 115435. <https://doi.org/10.1016/j.envpol.2020.115435>

Newman, J. D., Bhatt, D. L., Rajagopalan, S., Balmes, J. R., Brauer, M., Breysse, P. N., Brown, A., Carnethon, M. R., Cascio, W. E., Collman, G. W., Fine, L. J., Hansel, N. N., Hernandez, A., Hochman, J. S., Jerrett, M., Joubert, B. R., Kaufman, J. D., Malik, A. O., Mensah, G. A., Newby, D. E., ... Brook, R. D. (2020). Cardiopulmonary Impact of Particulate Air Pollution in High-Risk Populations: JACC State-of-the-Art Review. *Journal of the American College of Cardiology*, 76(24), 2878–2894. <https://doi.org/10.1016/j.jacc.2020.10.020>

Onakomaiya, D., Gyamf, J., Iwelunmor, J., Opeyemi, J., Oluwasanmi, M., Obiezu-Umeh, C., Dalton, M., Nwaozuru, U., Ojo, T., Vieira, D., Ogedegbe, G., & Olopade, C. (2019). Implementation of clean cooking interventions and its effects on financial



aerosols on ambient air quality and cardiopulmonary health in adults and children: protocol for a panel study. *BMJ open*, 9(6), e029490. <https://doi.org/10.1136/bmjopen-2019-029490>

Shefeld, P., Roy, A., Wong, K., & Trasande, L. (2011). Fine particulate matter pollution linked to respiratory illness in infants and increased hospital costs. *Health Affairs (Project Hope)*, 30(5), 871–878. <https://doi.org/10.1377/hlthaff.2010.1279>

Sicat, C. S., Schwarzkopf, R., Slover, J. D., Macaulay, W., & Rozell, J. C. (2022). Comparison of Operating Room Air Quality in Primary Versus Revision Total Knee Arthroplasty. *The Journal of arthroplasty*, 37(6S), S297–S300. <https://doi.org/10.1016/j.arth.2022.02.049>

Silverman, R. A., & Ito, K. (2010). Age-related association of fine particles and ozone with severe acute asthma in New York City. *The Journal of allergy and clinical immunology*, 125(2), 367–373.e5. <https://doi.org/10.1016/j.jaci.2009.10.061>

Silverman, R. A., Ito, K., Freese, J., Kaufman, B. J., De Claro, D., Braun, J., & Prezant, D. J. (2010). Association of ambient fine particles with out-of-hospital cardiac arrests in New York City. *American journal of epidemiology*, 172(8), 917–923. <https://doi.org/10.1093/aje/kwq217>

Spira-Cohen, A., Chen, L. C., Kendall, M., Lall, R., & Thurston, G. D. (2011). Personal exposures to traffic-related air pollution and acute respiratory health among Bronx schoolchildren with asthma. *Environmental health perspectives*, 119(4), 559–565. <https://doi.org/10.1289/ehp.1002653>

Spira-Cohen, A., Chen, L. C., Kendall, M., Sheesley, R., & Thurston, G. D. (2010). Personal exposures to traffic-related particle pollution among children with asthma in the South Bronx, NY. *Journal of exposure science & environmental epidemiology*, 20(5), 446–456. <https://doi.org/10.1038/jes.2009.34>

Thiel, C. L., Woods, N. C., & Bilec, M. M. (2018). Strategies to Reduce Greenhouse Gas Emissions from Laparoscopic Surgery. *American journal of public health*, 108(S2), S158–S164. <https://doi.org/10.2105/AJPH.2018.304397>

Thurston, G. D., & Lee, A. (2021). Evidence of air pollution exposure and new asthma onset: further justification for cleaner air. *The European respiratory journal*, 57(6), 2100064. <https://doi.org/10.1183/13993003.00064-2021>

Thurston, G. D., & Newman, J. D. (2018). Walking to a pathway for cardiovascular effects of air pollution. *Lancet*, 391(10118), 291–292. [https://doi.org/10.1016/S0140-6736\(17\)33078-7](https://doi.org/10.1016/S0140-6736(17)33078-7)

Thurston, G. D., Ahn, J., Cromar, K. R., Shao, Y., Reynolds, H. R., Jerrett, M., Lim, C. C., Shanley, R., Park, Y., & Hayes, R. B. (2016). Ambient Particulate Matter Air Pollution Exposure and Mortality in the NIH-AARP Diet and Health Cohort. *Environmental health perspectives*, 124(4), 484–490. <https://doi.org/10.1289/ehp.1509676>

Thurston, G. D., Balmes, J. R., Garcia, E., Gilliland, F. D., Rice, M. B., Schikowski, T., Van Winkle, L. S., Annesi-Maesano, I., Burchard, E. G., Carlsten, C., Harkema, J. R., Khreis, H., Kleeberger, S. R., Kodavanti, U. P., London, S. J., McConnell, R., Peden, D. B., Pinkerton, K. E., Reibman, J., & White, C. W. (2020). Outdoor Air Pollution and New-Onset Airway Disease. An Official American Thoracic Society Workshop Report. *Annals of the American Thoracic Society*, 17(4), 387–398. <https://doi.org/10.1513/AnnalsATS.202001-046ST>

Thurston, G. D., Burnett, R. T., Turner, M. C., Shi, Y., Krewski, D., Lall, R., Ito, K., Jerrett, M., Gapstur, S. M., Diver, W. R., & Pope, C. A. (2016). Ischemic Heart Disease Mortality and Long-Term Exposure to Source-Related Components of U.S. Fine Particle Air Pollution. *Environmental health perspectives*, 124(6), 785–794. <https://doi.org/10.1289/ehp.1509777>

Thurston, G. D., Ito, K., & Lall, R. (2011). A Source

Apportionment of U.S. Fine Particulate Matter Air Pollution. *Atmospheric environment (Oxford, England : 1994)*, 45(24), 3924–3936. <https://doi.org/10.1016/j.atmosenv.2011.04.070>

Thurston, G., & Balmes, J. (2017). We Need to “Think Different” about Particulate Matter. *American journal of respiratory and critical care medicine*, 196(1), 6–7. <https://doi.org/10.1164/rccm.201702-0273ED>

Thurston, G., & Lippmann, M. (2015). Ambient particulate matter air pollution and cardiopulmonary diseases. *Seminars in respiratory and critical care medicine*, 36(3), 422–432. <https://doi.org/10.1055/s-0035-1549455>

Trasande, L., Koshy, T. T., Gilbert, J., Burdine, L. K., Marmor, M., Han, X., Shao, Y., Chemtob, C., Attina, T. M., & Urbina, E. M. (2018). Cardiometabolic profiles of adolescents and young adults exposed to the World Trade Center Disaster. *Environmental research*, 160, 107–114. <https://doi.org/10.1016/j.envres.2017.09.026>

Turner, M. C., Andersen, Z. J., Baccarelli, A., Diver, W. R., Gapstur, S. M., Pope, C. A., 3rd, Prada, D., Samet, J., Thurston, G., & Cohen, A. (2020). Outdoor air pollution and cancer: An overview of the current evidence and public health recommendations. *CA: a cancer journal for clinicians*, 10.3322/caac.21632. Advance online publication. <https://doi.org/10.3322/caac.21632>

Vallès, Y., Inman, C. K., Peters, B. A., Wareth, L. A., Abdulle, A., Alsafer, H., Anouti, F. A., Dhaheri, A. A., Galani, D., Haji, M., Hamiz, A. A., Hosani, A. A., Houqani, M. A., Aljunaibi, A., Kazim, M., Kirchhof, T., Mahmeed, W. A., Maskari, F. A., Alnaeemi, A., Oumeziane, N., ... Hayes, R. B. (2019). Incense Burning is Associated with Human Oral Microbiota Composition. *Scientific reports*, 9(1), 10039. <https://doi.org/10.1038/s41598-019-46353-y>

Vilcassim, M., Gordon, T., & Sanford, C. A. (2018). Does air pollution contribute to travelers' illness and deaths?—evidence from a case report and need for further studies. *Journal of travel medicine*, 25(1), tay002. <https://doi.org/10.1093/jtm/tay002>

Vilcassim, M., Thurston, G. D., Chen, L. C., Lim, C. C., Saunders, E., Yao, Y., & Gordon, T. (2019). Exposure to air pollution is associated with adverse cardiopulmonary health effects in international travellers. *Journal of travel medicine*, 26(5), taz032. <https://doi.org/10.1093/jtm/taz032>

Walzer, D., Gordon, T., Thorpe, L., Thurston, G., Xia, Y., Zhong, H., Roberts, T. R., Hochman, J. S., & Newman, J. D. (2020). Effects of Home Particulate Air Filtration on Blood Pressure: A Systematic Review. *Hypertension (Dallas, Tex. : 1979)*, 76(1), 44–50. <https://doi.org/10.1161/HYPERTENSIONAHA.119.14456>

Weitzman M. (2018). American pediatric society's 2017 John Howland award acceptance lecture: a tale of two toxicants: childhood exposure to lead and tobacco. *Pediatric research*, 83(1-1), 23–30. <https://doi.org/10.1038/pr.2017.240>

White, A. J., Teitelbaum, S. L., Stellman, S. D., Beyea, J., Steck, S. E., Mordukhovich, I., McCarty, K. M., Ahn, J., Rossner, P., Jr, Santella, R. M., & Gammon, M. D. (2014). Indoor air pollution exposure from use of indoor stoves and fireplaces in association with breast cancer: a case-control study. *Environmental health : a global access science source*, 13, 108. <https://doi.org/10.1186/1476-069X-13-108>

Worthington, M. A., Petkova, E., Freudenreich, O., Cather, C., Holt, D., Bello, I., Diminich, E., Tang, Y., Ardekani, B. A., Zeng, B., Wu, R., Fan, X., Zhao, J., Wang, J., & Gof, D. C. (2020). Air pollution and hippocampal atrophy in first episode schizophrenia. *Schizophrenia research*, 218, 63–69. <https://doi.org/10.1016/j.schres.2020.03.001>

Xu, X., Deng, F., Guo, X., Lv, P., Zhong, M., Liu, C., Wang, A., Tzan, K., Jiang, S. Y., Lippmann, M., Rajagopalan, S., Qu, Q., Chen, L. C., & Sun, Q. (2012). Association of systemic inflammation with marked changes in particulate air pollution in Beijing in 2008.

Toxicology letters, 212(2), 147–156. <https://doi.org/10.1016/j.toxlet.2012.05.014>

Xu, X., Jiang, S. Y., Wang, T. Y., Bai, Y., Zhong, M., Wang, A., Lippmann, M., Chen, L. C., Rajagopalan, S., & Sun, Q. (2013). Inflammatory response to fine particulate air pollution exposure: neutrophil versus monocyte. *PLoS one*, 8(8), e71414. <https://doi.org/10.1371/journal.pone.0071414>

Xu, X., Liu, C., Xu, Z., Tzan, K., Zhong, M., Wang, A., Lippmann, M., Chen, L. C., Rajagopalan, S., & Sun, Q. (2011). Long-term exposure to ambient fine particulate pollution induces insulin resistance and mitochondrial alteration in adipose tissue. *Toxicological sciences : an official journal of the Society of Toxicology*, 124(1), 88–98. <https://doi.org/10.1093/toxsci/kfr211>

Yauk, C. L., Lucas Argueso, J., Auerbach, S. S., Awadalla, P., Davis, S. R., DeMarini, D. M., Douglas, G. R., Dubrova, Y. E., Elespuru, R. K., Glover, T. W., Hales, B. F., Hurles, M. E., Klein, C. B., Lupski, J. R., Manchester, D. K., Marchetti, F., Montpetit, A., Mulvihill, J. J., Robaire, B., Robbins, W. A., ... Bishop, J. B. (2013). Harnessing genomics to identify environmental determinants of heritable disease. *Mutation research*, 752(1), 6–9. <https://doi.org/10.1016/j.mrrev.2012.08.002>

Yinon, L., & Thurston, G. (2017). An evaluation of the health benefits achieved at the time of an air quality intervention in three Israeli cities. *Environment international*, 102, 66–73. <https://doi.org/10.1016/j.envint.2016.12.025>

Zhao, J., Gladson, L., & Cromar, K. (2018). A Novel Environmental Justice Indicator for Managing Local Air Pollution. *International journal of environmental research and public health*, 15(6), 1260. <https://doi.org/10.3390/ijerph15061260>

## 8(b). Pollution: Chemical

### *contributors, trends, and health impacts of chemical pollutants*

Bolan, N., Sarkar, B., Yan, Y., Li, Q., Wijesekara, H.,

Planetary health, 2(3), e96–e98. [https://doi.org/10.1016/S2542-5196\(18\)30020-2](https://doi.org/10.1016/S2542-5196(18)30020-2)

GBD 2017 Risk Factor Collaborators (2018). Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet* (London, England), 392(10159), 1923–1994. [https://doi.org/10.1016/S0140-6736\(18\)32225-6](https://doi.org/10.1016/S0140-6736(18)32225-6)

Hanrahan, D., Ericson, B., & Caravanos, J. (2016). Protecting communities by remediating polluted sites worldwide. *Proceedings of the institution of civil engineers*, 169(5), 33-40. <https://doi.org/10.1680/jcien.15.00034>

Huhmann, L. B., Harvey, C. F., Navas-Acien, A., Graziano, J., Slavkovich, V., Chen, Y., Argos, M., Ahsan, H., & van Geen, A. (2022). A mass-balance model to assess arsenic exposure from multiple wells in Bangladesh. *Journal of exposure science & environmental epidemiology*, 32(3), 442–450. <https://doi.org/10.1038/s41370-021-00387-5>

Landrigan, P. J., Fuller, R., Hu, H., Caravanos, J., Cropper, M. L., Hanrahan, D., Sandilya, K., Chiles, T. C., Kumar, P., & Suk, W. A. (2018). Pollution and Global Health – An Agenda for Prevention. *Environmental health perspectives*, 126(8), 084501. <https://doi.org/10.1289/EHP3141>

Sherman, J. D., MacNeill, A., & Thiel, C. (2019). Reducing Pollution From the Health Care Industry. *JAMA*, 322(11), 1043-1044. <https://doi.org/10.1001/jama.2019.10823>

## 8(d). Pollution: Noise

*contributors, trends, and health impacts of noise*

Pediatricians. *Academic pediatrics*, 19(8), 875–883. <https://doi.org/10.1016/j.acap.2019.05.125>

Horwitz, L., Chang, C., Arcilla, H. & Knickman, J. (2017). Quantifying Health Systems' Investment In Social Determinants Of

14(2), 350–355. <https://doi.org/10.1007/s10903-010-9410-0>

Sone, J. Y., Kondziolka, D., Huang, J. H., & Samadani, U. (2017). Helmet e f cacy against concussion and traumatic brain injury: a review. *Journal of neurosurgery*, 126(3), 768–781. <https://doi.org/10.3171/2016.2.JNS151972>

Stimpson, J. P., Wilson, F. A., Araz, O. M., & Pagan, J. A. (2014). Share of mass transit miles traveled and reduced motor vehicle fatalities in major cities of the United States. *Journal of urban health : bulletin of the New York Academy of Medicine*, 91(6), 1136–1143. <https://doi.org/10.1007/s11524-014-9880-9>

Tsega, S. & Cho, H. (2019). The Reality of Accessing Transportation for Health Care in New York City. *JAMA network open*, 2(6), e196856. doi:10.1001/jamanetworkopen.2019.6856

## 11. Urban Design

### *community design and planning's influence on health*

Day K. (2016). Built environmental correlates of physical activity in China: A review. *Preventive medicine reports*, 3, 303–316. <https://doi.org/10.1016/j.pmedr.2016.03.007>

Day K. (2018). Physical Environment Correlates of Physical Activity in Developing Countries: A Review. *Journal of physical activity & health*, 15(4), 303–314. <https://doi.org/10.1123/jpah.2017-0184>

Duncan, D. T., Méline, J., Kestens, Y., Day, K., Elbel, B., Trasande, L., & Chaix, B. (2016). Walk Score, Transportation Mode Choice, and Walking Among French Adults: A GPS, Accelerometer, and Mobility Survey Study. *International journal of environmental research and public health*, 13(6), 611. <https://doi.org/10.3390/ijerph13060611>

Goldfarb DS, Hirsch J. Hypothesis: Urbanization and exposure to urban heat islands contribute to increasing prevalence of kidney stones. *Med Hypotheses*. 2015 Dec;85(6):953-7. doi: 10.1016/j.mehy.2015.09.003. Epub 2015 Sep 5. PMID: 26372336; PMCID: PMC4648638.

Gulino, K., Rahman, J., Badri M., Morton, J., Bonneau, R. & Ghedin, E. (2020). Initial mapping of the New York City wastewater virome. *mSystems*, 5, e00876-19. <https://doi.org/10.1128/mSystems.00876-19>

Hasik, V., Anderson, N. E., Collinge, W. O., Thiel, C. L., Khanna, V., Wirick, J., Piacentini, R., Landis, A. E., & Bilec, M. M. (2017). Evaluating the Life Cycle Environmental Benefits and Trade-Ofs of Water Reuse Systems for Net-Zero Buildings. *Environmental science & technology*, 51(3), 1110–1119. <https://doi.org/10.1021/acs.est.6b03879>

Huang, T. T., Wyka, K. E., Ferris, E. B., Gardner, J., Evenson, K. R., Tripathi, D., Soto, G. M., Cato, M. S., Moon, J., Wagner, J., Dorn, J. M., Catellier, D. J., & Thorpe, L. E. (2016). The Physical Activity and Redesigned Community Spaces (PARCS) Study: Protocol of a natural experiment to investigate the impact of citywide park redesign and renovation. *BMC public health*, 16(1), 1160. <https://doi.org/10.1186/s12889-016-3822-2>

Lu, W., McKyer, E., Lee, C., Ory, M., Goodson, P. & Wang, S. (2015). Children's active commuting to school: an interplay of self-e f cacy, social economic disadvantage, and environmental characteristics. *International journal of behavioral nutrition and physical activity*, 12, 29. <https://doi.org/10.1186/s12966-015-0190-8>

Méline, J., Chaix, B., Pannier, B., Ogedegbe, G., Trasande, L., Athens, J., & Duncan, D. T. (2017). Neighborhood walk score and selected Cardiometabolic factors in the French RECORD cohort study. *BMC public health*, 17(1), 960. <https://doi.org/10.1186/s12889-017-4962-8>

<https://doi.org/10.1186/s12889-017-4962-8>

Northridge, M. E., & Freeman, L. (2011). Urban planning and health equity. *Journal of urban health : bulletin of the New York Academy of Medicine*, 88(3), 582–597. <https://doi.org/10.1007/s11524-011-9558-5>

Orstad, S. L., Szuhany, K., Tamura, K., Thorpe, L. E., & Jay, M. (2020). Park Proximity and Use for Physical Activity among Urban Residents: Associations with Mental Health. *International journal of environmental research and public health*, 17(13), 4885. <https://doi.org/10.3390/ijerph17134885>

Rogus, S., & Dimitri, C. (2015). Agriculture in urban and peri-urban areas in the United States: Highlights from the Census of Agriculture. *Renewable agriculture and food systems*, 30(1), 64–78. doi:10.1017/S1742170514000040

Rundle, A. G., Chen, Y., Quinn, J. W., Rahai, N., Bartley, K., Characteristics. InterCooperChen,0 n (Ei1e38 h2015),n )-0FerraroP,n (Gry)7m

## 12. Waste

### *environmental and cost impacts of hospital waste*

Bravo, D., Gaston, R. G., & Melamed, E. (2020). Environmentally Responsible Hand Surgery: Past, Present, and Future. *The Journal of hand surgery*, 45(5), 444–448. <https://doi.org/10.1016/j.jhssa.2019.10.031>

Bravo, D., Thiel, C., Bello, R., Moses, A., Paksima, N., & Melamed, E. (2022). What a Waste! The Impact of Unused Surgical Supplies in Hand Surgery and How We Can Improve. *Hand* (New York, N.Y.), 15589447221084011. Advance online publication. <https://doi.org/10.1177/15589447221084011>

Campion, N., Thiel, C., Woods, N., Swanzy, L., Landis, A. & Bilec, M. (2015). Sustainable healthcare and environmental life-cycle impacts of disposable supplies: a focus on disposable custom packs. *Journal of cleaner production*, 94, 46-55. <https://doi.org/10.1016/j.jclepro.2015.01.076>.

Glied, S. & Sacarny, A. (2018). Is the US Health Care System Wasteful and Inefficient? A Review of the Evidence. *Journal of health politics, policy and law*, 43 (5), 739–765. doi: <https://doi.org/10.1215/03616878-6951103>

Goel, H., Wemyss, T. A., Harris, T., Steinbach, I., Stancliffe, R., Cassels-Brown, A., Thomas, P. B. M., & Thiel, C. L. (2021). Improving productivity, costs and environmental impact in International Eye Health Services: using the 'Eye efficiency' cataract surgical services auditing tool to assess the value of cataract surgical services. *BMJ open ophthalmology*, 6(1), e000642. <https://doi.org/10.1136/bmjophth-2020-000642>

Golan, S., Pena, J., Moore, J., Tandalam, S., & Lelli, G. (2020). The Association between Needle Size and Waste Product and Its Effect on Cost-Effectiveness of Botulinum Toxin Injections?. *Facial plastic surgery: FPS*, 36(4), 484–486. <https://doi.org/10.1055/s-0040-1713793>

Hsu, S., Thiel, C. L., Mello, M. J., & Slutzman, J. E. (2020). Dumpster Diving in the Emergency Department. *The western journal of emergency medicine*, 21(5), 1211–1217. <https://doi.org/10.5811/westjem.2020.6.47900>

MacNeill, A., Hopf, H., Khanuja, A., Alizamir, A., Bilec, M., Eckelman, M., Hernandez, L., McGain, F., Simonsen, K., Thiel, C., Young, S., Lagasse, R. & Sherman, S. (2020). Transforming The Medical Device Industry: Road Map To A Circular Economy. *Health affairs*, 39(12), 2088-2097. <https://doi.org/10.1377/hlthaf.2020.01118>