



Publications Related to Conference Topics

SUNDAY

Pre-Conference Workshop: Causal Modeling in Air Pollution Research and Policy

HEI Research Report

Zigler CM, Kim C, Choirat C, Hansen JB, Wang Y, Hund L, et al. 2016. [Causal Inference Methods for Estimating Long-Term Health Effects of Air Quality Regulations](#). Research Report 187. Boston, MA:Health Effects Institute.

Ozone: Global Pollutant, Personal Effects

HEI Research Reports

Frampton MW, Balmes JR, Bromberg PA, Stark P, Arjomandi M, Hazucha MJ, et al. 2017. [Multicenter Ozone Study in older Subjects \(MOSES\): Part 1. Effects of Exposure to Low Concentrations of Ozone on Respiratory and Cardiovascular Outcomes](#). Research Report 192, Pt. 1. Boston, MA:Health Effects Institute.

Fryer AD, Jacoby DB, Wicher SA. 2017. [Protective Role of Eosinophils and Tumor Necrosis Factor- \$\alpha\$ after Ozone Inhalation. Research Report 191](#). Boston, MA:Health Effects Institute.

Gilliland F, Avol E, McConnell R, Berhane K, Gauderman WJ, Lurmann FW, et al. 2017. [The Effects of Policy-Driven Air Quality Improvements on Children's Respiratory Health](#). Research Report 190. Boston, MA:Health Effects Institute.

Katsouyanni K, Samet J, Anderson HR, Atkinson R, Le Tertre A, Medina S, et al. 2009. [Air Pollution and Health: A European and North American Approach \(APHENA\)](#). Research Report 142. Boston, MA:Health Effects Institute.

Koutrakis P, Suh HH, Sarnat JA, Brown KW, Coull BA, Schwartz J. 2005. [Characterization of Particulate and Gas Exposures of Sensitive Subpopulations Living in Baltimore and Boston](#). Research Report 131. Boston, MA:Health Effects Institute.

Peel JL, Klein M, W. Flanders WD, Mulholland JA, Tolbert PE. 2010. [Impact of Improved Air Quality During the 1996 Summer Olympic Games in Atlanta on Multiple Cardiovascular and Respiratory Outcomes](#). Research Report 148. Boston, MA:Health Effects Institute.

Romieu I, Gouveia N, Cifuentes LA, Ponce de Leon A, Junger W, Hurtado-Díaz M, et al. 2012. [Multicity Study of Air Pollution and Mortality in Latin America \(the ESCALA Study\)](#). Research Report 171. Boston, MA:Health Effects Institute.

Ultman J, Ben-Jebria A, Arnold S. 2004. [Uptake Distribution of Ozone in Human Lungs: Intersubject Variability in Physiologic Response](#). Research Report 125. Boston, MA:Health Effects Institute.

Sunday Dinner Keynote Address

Sumantran V, Fine C, Gonsalvez D. 2017. [Faster, Smarter, Greener: The Future of the Car and Urban Mobility](#). Cambridge, MA:MIT Press.

MONDAY

Health Effects of Traffic-Related Air Pollution: Assessing the Evidence in an Evolving and Complex World

HEI Research Reports

Advanced Collaborative Emissions Study (ACES). 2015. [Advanced Collaborative Emissions Study \(ACES\): Lifetime Cancer and Non-Cancer Assessment in Rats Exposed to New-Technology Diesel Exhaust](#). Research Report 184. Boston, MA:Health Effects Institute.

Barratt B, Lee M, Wong P, Tang R, Tsui TH, Cheng W, et al. 2018. [A Dynamic Three-Dimensional Air Pollution Exposure Model for Hong Kong](#). Research Report 194. Boston, MA:Health Effects Institute.

Chen J-C, Wang X, Serre M, Cen S, Franklin M, Espeland M. 2017. [Particulate Air Pollutants, Brain Structure, and Neurocognitive Disorders in Older Women](#). Research Report 193. Boston, MA:Health Effects Institute.

Gilliland F, Avol E, McConnell R, Berhane K, Gauderman WJ, Lurmann FW, et al. 2017. [The Effects of Policy-Driven Air Quality Improvements on Children's Respiratory Health](#). Research Report 190. Boston, MA:Health Effects Institute.

Kelly F, Anderson HR, Armstrong B, Atkinson R, Barratt B, Beevers S, et al. 2011. [The Impact of the Congestion Charging Scheme on Air Quality in London](#). Research Report 155. Boston, MA:Health Effects Institute.

Rich DQ, Peters A, Schneider A, Zareba W, Breitner S, Oakes D, et al. 2016. [Ambient and Controlled Particle Exposures as Triggers for Acute ECG Changes](#). Research Report 186. Boston, MA:Health Effects Institute.

Russell A, Tolbert P, Henneman L, Abrams J, Liu C, Klein M, et al. 2018. [Impacts of Regulations on Air Quality and Emergency Department Visits in the Atlanta Metropolitan Area, 1999–2013](#). Research Report 195. Boston, MA:Health Effects Institute.

Sarnat J, Russell AG, Liang D, Moutinho JL, Golan R, Weber RJ, et al. In press. [Developing Multipollutant Exposure Indicators of Traffic Pollution: The Dorm Room Inhalation to Vehicle Emissions \(DRIVE\) Study](#). Research Report 196. Boston, MA:Health Effects Institute.

Wu J, Laurent O, Li L, Hu J, Kleeman M. 2016. [Adverse Reproductive Health Outcomes and Exposure to Gaseous and Particulate-Matter Air Pollution in Pregnant Women](#). Research Report 188. Boston, MA:Health Effects Institute.

Zhang J, McCreanor JE, Cullinan P, Chung KF, Ohman-Strickland P, Han I-K, et al. 2009. [Health Effects of Real-World Exposure to Diesel Exhaust in Persons with Asthma](#). Research Report 138. Boston, MA:Health Effects Institute.

Zhang J, Zhu T, Kipen H, Wang G, Huang W, Rich D, et al. 2013. [Cardiorespiratory Biomarker Responses in Healthy Young Adults to Drastic Air Quality Changes Surrounding the 2008 Beijing Olympics](#). Research Report 174. Boston, MA:Health Effects Institute.

Other HEI Publications

Health Effects Institute. 2015. [Executive Summary. The Advanced Collaborative Emissions Study \(ACES\)](#). Boston, MA:Health Effects Institute.

HEI Panel on the Health Effects of Traffic-Related Air Pollution. 2010. [Traffic-Related Air Pollution: A Critical Review of the Literature on Emissions, Exposure, and Health Effects](#). Special Report 17. Boston, MA:Health Effects Institute.

HEI Review Panel on Ultrafine Particles. 2013. [Understanding the Health Effects of Ambient Ultrafine Particles](#). HEI Perspectives 3. Boston, MA:Health Effects Institute.

Air Pollution and Diabetes: What Is the Evidence?

HEI Research Report

Goldberg MS, Bailar JC III, Burnett RT, Brook JR, Tamblyn R, Bonvalot Y, et al. 2000. [Identifying Subgroups of the General Population That May Be Susceptible to Short-Term Increases in Particulate Air Pollution: A Time-Series Study in Montreal, Quebec](#). Research Report 97. Cambridge, MA:Health Effects Institute.

HEI Perspective

Health Effects Institute. 2002. [Understanding the Health Effects of Components of the Particulate Matter Mix: Progress and Next Steps](#). HEI Perspectives. Boston, MA:Health Effects Institute.

Further reading

Butalia S, Kaplan GG, Khokhar B, Rabi DM. 2016. [Environmental risk factors and type 1 diabetes: past, present, and future](#). Can J Diabetes 40(6):586–593; doi:10.1016/j.jcjd.2016.05.002.

Dendup T, Feng X, Clingan S, Astell-Burt T. 2018. [Environmental risk factors for developing type 2 diabetes mellitus: a systematic review](#). Int J Environ Res Public Health 15(1); doi:10.3390/ijerph15010078.

Eze IC, Hemkens LG, Bucher HC, Hoffmann B, Schindler C, Künzli N, et al. 2015. [Association between ambient air pollution and diabetes mellitus in Europe and North America: systematic review and meta-analysis](#). Environ Health Perspect 123(5):381–9; doi:10.1289/ehp.1307823.

Fleisch AF, Luttmann-Gibson H, Perng W, Rifas-Shiman SL, Coull BA, Kloog I, et al. 2017. [Prenatal and early life exposure to traffic pollution and cardiometabolic health in childhood](#). Pediatr Obes 12(1):48–57; doi:10.1111/ijpo.12106.

Park SK, Wang W. 2014. [Ambient air pollution and type 2 diabetes: a systematic review of epidemiologic research](#). Curr Environ Health Rep 1(3):275–286; doi:10.1007/s40572-014-0017-9.

Rajagopalan S, Brook RD. 2012. [Air pollution and type 2 diabetes: mechanistic insights](#). Diabetes 61(12):3037–45; doi:10.2337/db12-0190.

Rao X, Patel P, Puett R, Rajagopalan S. 2015. [Air pollution as a risk factor for type 2 diabetes](#). Toxicol Sci 143(2):231–41; doi:10.1093/toxsci/kfu250.

Zhao Z, Lin F, Wang B, Cao Y, Hou X, Wang Y. 2016. [Residential proximity to major roadways and risk of type 2 diabetes mellitus: a meta-analysis](#). Int J Environ Res Public Health 14(1); doi:10.3390/ijerph14010003.

Can We Rely on Environmental Health Research?

Background Materials

Goodman SN, Fanelli D, Ioannidis JPA. [What does research reproducibility mean?](#) Sci Transl Med 8(341):341ps12; doi:10.1126/scitranslmed.aaf5027.

Munafò MR, Nosek BA, Bishop DVM, Button KS, Chambers CD, Percie du Sert N, et al. 2017. [A manifesto for reproducible science](#). Nature Human Behaviour 1:0021; doi:10.1038/s41562-016-0021.

Leek JT, Jager LR. 2017. [Is most published research really false? Annual Review of Statistics and Its Application](#) 4:109–122; doi.org/10.1146/annurev-statistics-060116-054104.

Leek JT, Peng RD. 2015. [What is the question?](#) Science 347(6228):1314–5; doi:10.1126/science.aaa6146.

Kyriacou DN. 2016. [The enduring evolution of the P value](#). JAMA 315:1113–5; doi:10.1001/jama.2016.2152.

Analysis of Air Pollution Health Effects

Burnett RT, Pope CA 3rd, Ezzati M, et al. 2014. [An integrated risk function for estimating the global burden of disease attributable to ambient fine particulate matter exposure](#). Environ Health Perspect 122:397-403; doi:10.1289/ehp.1307049.

Health Effects Institute. 2000. [Reanalysis of the Harvard Six Cities Study and the American Cancer Society Study of Particulate Air Pollution and Mortality. A Special Report of the Institute's Particle Epidemiology Reanalysis Project](#). Cambridge, MA:Health Effects Institute.

HEI Policies and Perspectives

Greenbaum, D. 2013. [Letter to Lek Kadeli, Principal Deputy Assistant Administrator, Office of Research and Development, U.S. Environmental Protection Agency](#). August 27, 2013.

Health Effects Institute. [Appendix D: HEI policy on the provision of access to data underlying HEI funded studies](#).

TUESDAY

Advancing Air Quality, Global Health, and Energy Science at HEI

HEI Energy Research Program Publications

Health Effects Institute. 2018. [Energy Research Program Fact Sheet](#). Boston, MA:Health Effects Institute.

Health Effects Institute. 2018. [Energy Research Program Update: Launch of the Energy Research Program and Early Products](#). Boston, MA:Health Effects Institute.

Health Effects Institute. 2018. [Scoping Meeting Summary: Review of the Human Health Literature Related to Unconventional Oil and Gas Development](#). Boston, MA:Health Effects Institute.

HEI Special Scientific Committee on Unconventional Oil and Gas Development in the Appalachian Basin. 2015. [Strategic Research Agenda on the Potential Impacts of 21st Century Oil and Natural Gas Development in the Appalachian Region and Beyond](#). Boston, MA:Health Effects Institute. (Online only.)

HEI International Program Publications

GBD MAPS Working Group. 2016. [Burden of Disease Attributable to Coal-Burning and Other Major Sources of Air Pollution in China](#). Special Report 20. Boston, MA:Health Effects Institute. (Online only.)

[燃煤和其他主要大气污染源所致的中国疾病负担](#) (Special Report 20 in Chinese)

GBD MAPS Working Group. 2018. [Burden of Disease Attributable to Major Air Pollution Sources in India](#). Special Report 21. Boston, MA:Health Effects Institute. (Online only.)

[भारत में प्रमुख वायु प्रदूषण स्रोतों के कारण रोग का बोझ](#) (Summary for Policy Makers in Hindi)

Health Effects Institute. 2010. [Outdoor Air Pollution and Health in the Developing Countries of Asia: A Comprehensive Review](#). Special Report 18. Boston, MA:Health Effects Institute.

Health Effects Institute and Institute for Health Metrics and Evaluation. 2018. [State of Global Air 2018](#). Available: www.stateofglobalair.org/report.

The Power of Place: Pathways to Healthy Urban Living

Recent Reviews and Papers by the Speakers

Bor J, Cohen GH, Galea S. 2017. [Population health in an era of rising income inequality: USA, 1980–2015](#). Lancet 389(10077):1475–1490; doi:10.1016/S0140-6736(17)30571–8.

Frank LD, Engelke PE, Schmid TL. 2003. Health and Community Design: The Impacts of the Built Environment on

Physical Activity. Washington, DC: Island Press.

Fong KC, Hart JE, James P. 2018. [A review of epidemiologic studies on greenness and health: updated literature through 2017](#). *Curr Environ Health Rep*; doi:10.1007/s40572-018-0179-y.

Freudenberg N, Galea S, Vlahov D, eds. 2006. *Cities and the Health of the Public*. Nashville, TN:Vanderbilt University Press.

Galea S. 2017. *Healthier: Fifty Thoughts on the Foundations of Population Health*. New York:Oxford University Press.

James P, Banay RF, Hart JE, Laden F. 2015. [A review of the health benefits of greenness](#). *Curr Epidemiol Rep* 2015 Jun; 2(2):131–142; doi:10.1007/s40471-015-0043-7.

James P, Kioumourtzoglou MA, Hart JE, Banay RF, Kloog I, Laden F. [Interrelationships between walkability, air pollution, greenness, and body mass index](#). *Epidemiology* 2017 Nov; 28(6):780–78; doi:10.1097/EDE.0000000000000724.

Keyes KM, Galea S. 2016. [Population Health Science](#). Oxford University Press.

Sallis JF, Bull F, Burdett R, Frank LD, Griffiths P, Giles-Corti B, et al. 2016. [Use of science to guide city planning policy and practice: how to achieve healthy and sustainable future cities](#). *Lancet* 388(10062):2936–2947; doi:10.1016/S0140-6736(16)30068-X.

Sallis JF, Conway TL, Cain KL, Carlson JA, Frank LD, Kerr J, et al. 2018. [Neighborhood built environment and socioeconomic status in relation to physical activity, sedentary behavior, and weight status of adolescents](#). *Prev Med* 110:47–54; doi:10.1016/j.ypmed.2018.02.009.