

Climate Change Bulletin

Outputs from key organisations and new evidence relating to the impact on health equity of climate change in Scotland and beyond

February 2025



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Recent journal articles (from Medline)

A selection of publications from the last month relating to areas of interest about climate change and health. Search criteria are available upon request from Knowledge Services and will be reviewed regularly to consider appropriateness and/or new areas of interest.

The searches are undertaken by PHS Knowledge Services. If you need any help with obtaining the full text of any of the articles, please contact phs.knowledge@phs.scot

- Abdul-Nabi SS, Al Karaki V, Khalil A et al. **Climate change and its environmental and health effects from 2015 to 2022: A scoping review**. Heliyon 2025; 11: e42315. 2025/02/15.
- Agache I, Hernandez ML, Radbel JM et al. **An overview of climate changes and its effects on health: from mechanisms to one health**. J Allergy Clin Immunol Pract 2025; 13: 253–264. 2025/02.
- Ahsan Iqbal M, Saheen WA, Shabir S et al. **Towards a green economy: Investigating the impact of sustainable finance, green technologies, and environmental policies on environmental degradation**. J Environ Manage 2025; 374: 124047. 2025/02.
- Basilio H. **Extreme heat will kill millions of people in Europe without rapid action**. Nature 2025; 638: 17–18. 2025/02/06.
- Bastug KA, Schwartz EL and Sam-Agudu NA. **The impact of environmental changes on infectious diseases among children in North America**. Curr Opin Pediatr 2025; 2025/02/07.
- Braithwaite J, Tran Y, Fisher G et al. **Health system performance on greenhouse gas emissions, climate change and development status in 38 OECD countries**. Sci Rep 2025; 15: 5101. 2025/02/11.

- Cao H, Xu R, Lu X et al. **Air pollution, temperature and mumps: A time-series study of independent and interaction effects.** *Ecotoxicol Environ Saf* 2025; 291: 117826. 2025/02/01.
- Castillo F, Taboun O, Farag Alla J et al. **Imaging Climate-Related Environmental Exposures: Impact and Opportunity.** *Can Assoc Radiol J* 2025; : 8465371251322762. 2025/02/28.
- Cawiding OR, Jeon S, Tubera-Panes D et al. **Disentangling climate's dual role in dengue dynamics: A multiregion causal analysis study.** *Sci Adv* 2025; 11: eadq1901. 2025/02/14.
- Frasch JJ, König H-H and Konnopka C. **Effects of extreme temperature on morbidity, mortality, and case severity in German emergency care.** *Environ Res* 2025; 270: 121021. 2025/02/04.
- Frist WH, Angell SY, Ebi KL et al. **Critical steps to address climate, health, and equity.** *Health Aff (Millwood)* 2025; 44: 171–178. 2025/02.
- Gkouliaveras V, Kalogiannidis S, Kalfas D et al. **Effects of climate change on health and health systems: A systematic review of preparedness, resilience, and challenges.** *Int J Environ Res Public Health* 2025; 22. 2025/02/06.
- Huston P. **Climate change and the pivotal role of health professionals.** *J Eval Clin Pract* 2025; 31: e14103. 2025/02.
- Ickovics JR, Astbury K, Campbell M et al. **Indicators from The Lancet Countdown on Health and Climate Change: Perspectives and Experience of City Leaders from 118 Cities.** *J Urban Health* 2025; 102: 201–209. 2025/02.
- Katz GM, Arigoni D, Rice MB et al. **Addressing the health impacts of climate change in older adults.** *JAMA Intern Med* 2025; 2025/02/03.
- Lakhoo DP, Brink N, Radebe L et al. **A systematic review and meta-analysis of heat exposure impacts on maternal, fetal and neonatal health.** *Nat Med* 2025; 31: 684–694. 2025/02.

- LaRoche JK, Lanier J, Alvarenga R et al. **Climate footprint of industry-sponsored in-human clinical trials: life cycle assessments of clinical trials spanning multiple phases and disease areas.** *BMJ Open* 2025; 15: e085364. 2025/02/19.
- Lawin-O'Brien R, Schwartz ES, Montgomery H et al. **The climate crisis - actions to prioritize for anaesthesiologists.** *Curr Opin Anaesthesiol* 2025; 38: 9–16. 2025/02/01.
- Logie CH and MacNeil A. **Climate change and extreme weather events and linkages with HIV outcomes: recent advances and ways forward.** *Curr Opin Infect Dis* 2025; 38: 26–36. 2025/02/01.
- Lopez-Aparicio S, Grythe H, Drabicki A et al. **Environmental sustainability of urban expansion: Implications for transport emissions, air pollution, and city growth.** *Environ Int* 2025; 196: 109310. 2025/02.
- Maritano S, Richiardi L, Quaglia S et al. **Exposure to climate change-related extreme events in the first year of life and occurrence of infant wheezing.** *Environ Int* 2025; 196: 109303. 2025/02.
- Moutet L, Bernard P, Green R et al. **The public health co-benefits of strategies consistent with net-zero emissions: a systematic review.** *Lancet Planet Health* 2025; 9: e145–e156. 2025/02/12.
- Nunes AR, Karaba F, Geddes O et al. **Implementation of decarbonisation actions in general practice: a systematic review and narrative synthesis.** *BMJ Open* 2025; 15: e091404. 2025/02/19.
- Pavia G, Branda F, Ciccozzi A et al. **The issue of climate change and the spread of tropical diseases in Europe and Italy: vector biology, disease transmission, genome-based monitoring and public health implications.** *Infect Dis (Lond)* 2025; 57: 121–136. 2025/02.
- Pitard M, Rouvière N, Leguelinel-Blache G et al. **Contribution of hospital pharmacists to sustainable healthcare: a systematic review.** *Eur J Hosp Pharm Sci Pract* 2025; 32: 100–105. 2025/02/21.

- Schlatter L, Kumar M and Kumar P. **National climate policies must address mental health.** Nature 2025; 638: 891–891. 2025/02/27.
- Schulman EB, Chen K and Chang AY. **Exploring the health impacts of climate change: Challenges and considerations for health services research.** Health Serv Res 2025; 60: e14408. 2025/02.
- Segala FV, Guido G, Stroffolini G et al. **Insights into the ecological and climate crisis: Emerging infections threatening human health.** Acta Trop 2025; 262: 107531. 2025/01/19.
- Seppänen A-V and Or Z. **A scoping review of interventions to reduce the environmental footprint of healthcare.** Value Health 2025; 2025/02/13.
- Strong J, Barrett R, Surtee Z et al. **Interventions to reduce the effects of air pollution and of extreme heat on maternal, newborn, and child health outcomes: a mapping of the literature.** J Glob Health 2025; 15: 04035. 2025/02/14.
- Tong S, Bambrick H, Shi X et al. **Accelerating clean energy transitions to safeguard human health and survival.** Environ Health (Wash) 2025; 3: 114–117. 2025/02/21.
- Walton H, Dajnak D, Holland M et al. **Health and associated economic benefits of reduced air pollution and increased physical activity from climate change policies in the UK.** Environ Int 2025; 196: 109283. 2025/02.
- Williams C, Byrne C, Evenden S et al. **Urban green space provision: the case for policy-based solutions to support human health.** Med J Aust 2025; 222: 110–113. 2025/02/17.
- Zhao J, Salthammer T, Schieweck A et al. **Long-term prediction of climate change impacts on indoor particle pollution - case study of a residential building in Germany.** Environ Sci Process Impacts 2025; 2025/02/11.

Recent social policy and practice publications (from Idox)

The Idox Knowledge Exchange is a repository of information relating to public and social policy and practice. Register for access [here](#). Below are this month's results from a broad climate change search focussing on publications relating to climate change factors that will have impact within Scotland and the UK.

- Allen, R., Beckford, J. and Davies, N. **Mind the gap: cutting UK transport's climate impact**. Green Alliance. February 2025.
- Jennings, N. et al. **How have the UK public been affected by extreme heat and what do they think about the risks that it poses in the future?** Grantham Research Institute on Climate Change and the Environment. February 2025.
- Madjitey, A. et al **Sustainable transport: reducing car use**. Audit Scotland. February 2025.
- Wentworth, J. **Addressing the links between climate change and nature loss**. Parliamentary Office of Science and Technology (POST). 13 February 2025.
- Wentworth, J. **Community based climate change approaches**. Parliamentary Office of Science and Technology (POST). 13 February 2025.

Recent reports and news (grey literature)

A rundown of publications from key public health organisations within the last month.

- Climate Change Committee. **The seventh carbon budget**. CCC. 26 February 2025.
- EEA. **Methane, climate change and air quality in Europe: exploring the connections**. EEA, 27 February 2025.

- Scottish Government. **Investing in nature: a plan to support investment in biodiversity and climate adaptation in Scotland.** SG, 26 February 2025.
- UK Health Alliance on Climate Change. **UKHACC Bulletin February 2025.** UKHACC, 14 February 2025.
- UK Health Alliance on Climate Change. **UK government publishes on time the only plan for cutting greenhouse gas emissions consistent with the Paris Agreement.** UKHACC, 12 February 2025.
- World Meteorological Organization. **Tracking funding for life-saving early warning systems.** WMO, 12 February 2025.

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This is not meant as an exhaustive list of publications on these topics for the given time period, but rather a selection as seen most relevant.

Contact

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