

Climate Change Bulletin

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

December 2024



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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

- Abdala SA, Khomsi K, Houdou A et al. **Emission reduction strategies and health: a systematic review on the tools and methods to assess co-benefits.** BMJ Open 2024; 14: e083214. 2024/12/09.
- Balta I, Lemon J, Murnane C et al. **The One Health aspect of climate events with impact on foodborne pathogens transmission.** One Health 2024; 19: 100926. 2024/12.
- van Bavel B, Berrang-Ford L, Moon K et al. **Intersections between climate change and antimicrobial resistance: a systematic scoping review.** Lancet Planet Health 2024; 8: e1118–e1128. 2024/12.
- Dodd S, Kragh-Furbo M, Davies J et al. **Health impacts of climate change in the UK: A qualitative synthesis detailing the conjuncture of social structure, extreme weather, and mental health.** SSM Qual Res Health 2024; 6: 100475. 2024/12.
- Fagunwa OE, Ashiru-Oredope D, Gilmore BF et al. **Climate change as a challenge for pharmaceutical storage and tackling antimicrobial resistance.** Sci Total Environ 2024; 956: 177367. 2024/12/15.
- Ferraz D and Barreira D. **Preparing for future pandemics while responding to the current ones in the midst of a planetary climate crisis: Can we face this triple global health challenge?** Glob Public Health 2024; 19: 2351593. 2024/01.

- Furlan JPR, Sellera FP, Lincopan N et al. **Catastrophic floods and antimicrobial resistance: Interconnected threats with wide-ranging impacts.** One Health 2024; 19: 100891. 2024/12.
- Geffert K, Voss S, Rehfuess E et al. **The role of the public health service in the implementation of heat health action plans for climate change adaptation in Germany: A qualitative study.** Health Res Policy Syst 2024; 22: 161. 2024/12/05.
- Gray NR, Lewis AC and Moller SJ. **Evaluating disparities in air pollution as a function of ethnicity, deprivation and sectoral emissions in England.** Environ Int 2024; 194: 109146. 2024/12.
- Hughes T. **The physician's role in mitigating the climate crisis.** Future Healthc J 2024; 11: 100173. 2024/12.
- Joshi M, Joshi A and Bartter T. **The impact of climate change on respiratory health: current understanding and knowledge gaps.** Curr Opin Pulm Med 2024; 2024/12/03.
- Kish-Doto J and Francavillo GR. **Public health professionals' views on climate change, advocacy, and health.** J Commun Healthc 2024; : 1–10. 2024/12/20.
- Kouwenberg LHJA, Cohen ES, Hehenkamp WJK et al. **The Carbon Footprint of Hospital Services and Care Pathways: A State-of-the-Science Review.** Environ Health Perspect 2024; 132: 126002. 2024/12/27.
- Liao H, Lyon CJ, Ying B et al. **Climate change, its impact on emerging infectious diseases and new technologies to combat the challenge.** Emerg Microbes Infect 2024; 13: 2356143. 2024/12.
- Lim O, Chua WY, Wong A et al. **The environmental impact and sustainability of infection control practices: a systematic scoping review.** Antimicrob Resist Infect Control 2024; 13: 156. 2024/12/24.
- Logie CH, Toccalino D, MacKenzie F et al. **Associations between climate change-related factors and sexual health: A scoping review.** Glob Public Health 2024; 19: 2299718. 2024/01/08.

- Loud ES, Woolf GR, Ralph A et al. **Climate change and public health: An evaluation framework for local government.** Public Health Pract (Oxf) 2024; 8: 100524. 2024/12.
- MacLean S, de Nicola J, Cooper K et al. **How does climate change impact people who use alcohol and other drugs? A scoping review of peer reviewed literature.** Int J Drug Policy 2024; 134: 104649. 2024/12.
- MacNeill AJ, Rizan C and Sherman JD. **Improving sustainability and mitigating the environmental impact of anaesthesia and surgery along the perioperative journey: a narrative review.** Br J Anaesth 2024; 133: 1397–1409. 2024/12.
- Meherali S, Nisa S, Aynalem YA et al. **Impact of climate change on adolescents' health outcomes: an evidence gap map review.** J Adolesc 2024; 2024/12/26.
- Mousavi FS, Shenagari M, Reza Hashemnia SM et al. **Climate change and arboviruses_a growing threat to public health.** New Microbes New Infect 2024; 62: 101532. 2024/12.
- Munro N. **Climate change and emerging infectious diseases: A precarious relationship.** AACN Adv Crit Care 2024; 35: 325–333. 2024/12/15.
- Pascale F and Achour N. **Envisioning the sustainable and climate resilient hospital of the future.** Public Health 2024; 237: 435–442. 2024/12.
- 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) 2024; : 1–16. 2024/12/11.
- Raleigh C, Linke A, Barrett S et al. **Climate finance and conflict: adaptation amid instability.** Lancet Planet Health 2024; 8: e51–e60. 2024/01.
- Rida J, Bouchriti Y, Ait Haddou M et al. **Meteorological factors and climate change impact on asthma: a systematic review of epidemiological evidence.** J Asthma 2024; 61: 1601–1610. 2024/12.

- Saleem MM, Elahi N, Athar R et al. **The Petri dish under the ice: permafrost pathogens and their impact on global healthcare and antibiotic resistance.** Ann Med Surg (Lond) 2024; 86: 7193–7201. 2024/12.
- Scirocco T, Eman KU, Raviglione MC et al. **The time to act is now if we are to reduce the impact of climate change on global health.** Public Health Action 2024; 14: 137–138. 2024/12/01.
- Seastedt H, Schuetz J, Perkins A et al. **Impact of urban biodiversity and climate change on children’s health and well being.** Pediatr Res 2024; 2024/12/21.
- Shelby LA. **Developing a green nursing practice in a profession that contributes to climate change: one nurse’s journey.** AACN Adv Crit Care 2024; 35: 310–319. 2024/12/15.
- Sibindi T, Chipps J-A and Crowley T. **Eco-nursing competencies for nurses: A scoping review.** International Journal of Nursing Studies Advances 2024; 7: 100221. 2024/12.
- Trivino ÁM, Palacios J, Brassard P et al. **Evolution of research on air emissions from agricultural activities: A comprehensive review.** Environ Sci Pollut Res Int 2024; 31: 66551–66567. 2024/12/07.
- Turzáková J, Kohanová D, Solgajová A et al. **Association between climate change and patient health outcomes: a mixed-methods systematic review.** BMC Nurs 2024; 23: 900. 2024/12/18.
- Urrutia-Pereira M and Solé D. **Impact of climate change and air pollution on childhood respiratory health.** J Pediatr (Rio J) 2024; 2024/12/17.
- Yang Z, Huang W, McKenzie JE et al. **Mortality and morbidity risks associated with floods: A systematic review and meta-analysis.** Environ Res 2024; 263: 120263. 2024/12/15.

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.

- Burnett, N., Hinson, S. and Stewart, I. **The UK's plans and progress to reach net zero by 2050**. House of Commons Library. 2024.
- Plumpton, H., Carr, E. and Peake, L. **Why a circular economy is good for business**. Green Alliance. 2024.
- Scottish Renewables. **National heat networks: a vision for Scotland**. Scottish Renewables. 2024.

Recent reports and news (grey literature)

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

- Climate Change Committee. **COP29 Key outcomes and next steps for the UK**. CCC, 11 December 2024.
- European Environment Agency. **Europe's circular economy in facts and figures**. EEA, 05 December 2024.
- European Environment Agency. **Harm to human health from air pollution in Europe: burden of disease status, 2024**. EEA, 10 December 2024.
- Scottish Government, **Scotland's circular economy and waste route map to 2030**. SG, 18 December 2024.
- Scottish Government. **Scottish Budget 2025 to 2026: climate change taxonomy**. SG, 04 December 2024.

- UK Health Alliance on Climate Change. [UKHACC Bulletin December 2024](#). UKHACC, 13 December 2024.
- UK Health Alliance on Climate Change. [Case Study: the green physicians toolkit](#). UKHACC, 04 November 2024.
- World Meteorological Organization. [2025 outlook: in top three warmest years on record](#). WMO, 13 December 2024.

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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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