Climate Change Bulletin

October 2026

New evidence relating to the impact on health equity of climate change in Scotland and beyond

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Recent peer-reviewed journal articles

A selection of publications from the last month relating to 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**

Climate policy, health systems, justice and adaptation

- Balboul M, Berenji M, Jahan Pathan A, Islam MM, Benis A, Chaudry B, et al. **Health systems and climate change mitigation through an applied health informatics and sustainability perspective**. NPJ Health Systems. 2026;3(1)

- Chen-Xu J, Kriit HK, Semenza JC, Heiliger H, Markandya A, Dasandi N, et al. **The 2026 Europe Cities Report of the Lancet Countdown on health and climate change: cities at the forefront of climate change action**. The Lancet Public health. 2026;11(10)e797–818.

- Dubas-Jakóbczyk K, Mrożek-Gąsiorowska M, Ndayishimiye C, George NS, Pereyra AB, Waldmann G, et al. **Health systems' responses to climate change: an umbrella review of systematic reviews**. Health Policy. 2026;175105805.

- Filho WL, Wolf F. **How behavioural changes can help deal with the health impacts of climate change to achieve SDG 13 (climate action)**. Applied psychology Health and well-being. 2026;18(5)e70221.

- Lansbury N, Redmond AM. **Did COVID show us how to address climate change? An infectious diseases physician and a climate-health researcher think so**. Internal Medicine Journal. 2026;

- Mithu IH, Arora M, Neto OBL, Beamer PI. **The Unequal Burden of Environmental and Health Costs of Energy-Intensive Artificial Intelligence**. American Journal of Public Health. 2026;116(10)1529–38.

- Nishigaki M, Jochim A. **AI advancements can advance environmental inequities and health harms. Journal of the National Medical Association**. 2026;118(6)101103.
- Rahimi-Ardabili H, Brooke-Cowden K, Magrabi F, Lau AYS, Smith CL, Zurynski Y, et al. **Understanding health consumer needs during climate crises: a qualitative analysis**. Journal of Public Health. 2026;
- Romanello M, Walawender M, Israelsson J, Hasan MM, Battaglia F, Dutta A, et al. **The 2026 report of the Lancet Countdown on health and climate change: a decade of escalating health harms and a decisive moment for all**. The Lancet. 2026;
- Sharma S, Anikeeva O. **Impacts of Climate Change and Related Weather Events on the Health and Wellbeing of Culturally and Linguistically Diverse Communities: A Systematic Review**. Journal of racial and ethnic health disparities. 2025;
- Wise J. **Climate change: Experts call on WHO to formally declare global health emergency**. BMJ (Clinical Research Ed). 2026;395e101292.

Sustainable healthcare practice, workforce and education

- Borghi F, Ciaccio L, Decataldo F, Violante F, Negri E. **Climate change and workers' health and safety: an umbrella review**. La Medicina del lavoro. 2026;117(5)18722.
- Borromeo AS. **Planetary Health in Nursing Scholarship: A Bibliometric Mapping of Climate Change, Sustainability, and Health-System Transformation**. Public Health Nursing. 2026;
- Cerceo E. **Healthcare sustainability and the planetary crisis: A solution orientation**. European Journal of Internal Medicine. 2026;106993.

- Farina S, Sabatelli A, Di Pumpo M, Ricciardi W, Gualano MR. **Climate change in the workforce: A systematic review of knowledge, attitudes and practices among vulnerable workers categories**. Public Health. 2026;259106494.

- Özdemir T, Çetinol Taştemel T, Karadağ G. **Healthcare professionals' awareness of climate change and its association with eco-anxiety and environmental sensitivity: a cross-sectional study**. BMC Health Services Research. 2026;26(1)

- Prussing E, Doust J, Guy F, Tierney O. **Greener beginnings: Exploring the carbon footprints of midwifery group practice and standard maternity care in regional Australia**. Women and birth : journal of the Australian College of Midwives. 2026;39(5)102403.

- Rathnayake S, Odo C, Alvarado N, Ismaila H, Parisi V, Pink J, et al. **Environmental impact of digital health care technologies in reducing carbon footprints: scoping review**. Journal of Medical Internet Research. 2026;28e88341.

- Twomey EP, Magalhães D de P, Cadeddu C, Hamacher N, O'Donnell M, Leighton L, et al. **Climate and health capacity building for climate-resilient health systems: a case study of the ASPHER-GCCHE European course**. European Journal of Public Health. 2026;36(6)

- Woo KP, Alipouriani A, Chang JH, Bennett WC, Gross A, Deverakonda D, et al. **Operating under pressure: a scoping review of the effects of climate change on general surgery**. Surgical Endoscopy. 2026;

Maternal, newborn, child and adolescent health

- Lintener H, Dhami R, Rink K, Kudlek L, Geukes F, Filsinger B, et al. **Heat-protective behavior in pregnancy: Extending Protection Motivation Theory with environmental and social factors**. Social Science & Medicine. 2026;406119653.

Infectious diseases, antimicrobial resistance and One Health

- Cumming TB, Surendra H, Leder K, Anders KL. **How climate change affects mosquito-borne infectious disease: The different trajectories of malaria and dengue**. Science Advances. 2026;12(40)eaei0953.
- Fornace K, Hein PS, Djaafara B, Ashad-Uz-Zaman MN, Chang C-C, Elyazar I, et al. **Climate change threatens malaria elimination in the Asia Pacific**. Nature Medicine. 2026;
- Grzybek M, Sironen T, Henttonen H, Lundkvist Å, Vapalahti O, Bogacka A, et al. **Hantavirus risk and preparedness in Europe in an era of climate change and global mobility**. Clinical Microbiology and Infection. 2026;

Heat, extreme weather, air pollution and environmental exposure

- Chaseling GK, Jay O, Uchmanovicz I, Miró Ò, Tokmakova M, Ljungman P, et al. **Reducing the burden of heat-related impacts on cardiovascular health**. European Heart Journal. 2026;
- Chung JH, Jeong J, Ryu S, Lee JD, Kim J, Lee HY, et al. **The impact of climate and environmental factors on the incidence of Bell's palsy: a nationwide population study**. Acta Oto-Laryngologica. 2026;146(10)1295–303.
- García-García D, León-Gómez I, Pérez-Marín L, Gómez-Barroso D. **Mortality during heatwaves in Spain, 2015-2025: heat metrics, patterns and future risks**. Environment International. 2026;217110561.
- Kerr GH, Amegah K, Chen L, Crooks JL, Shindell D, Akritidis D, et al. **Tropospheric Ozone Assessment Report II: Changing health impacts of global ozone exposure**. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences. 2026;384(2332)

- Longman DP, Debevec T, Bourgois JG. **Supporting physiological resilience to climate change through anthropology, environmental exercise physiology and sport science: are we doing enough?** European Journal of Applied Physiology. 2026;

- Lucore JM, Marshall AJ. **Considering evolved heat tolerance helps predict the immunological consequences of climate change**. Seminars in immunopathology. 2026;48(1)

- Moscucci F, Sciomer S, Piccirillo G, Desideri G**. Heatwaves and cardiovascular mortality: Pathophysiological pathways, environmental co-determinants, and the role of autonomic monitoring**. Current Problems in Cardiology. 2026;51(10)103405.

- Pan Z, Zhu H, Xie X, Pang L, Li Z, Guo J, et al. **Mapping the Burden of Ischemic Stroke Attributable to Temperature Variation under Climate Change Scenarios Accounting for Long-Term Adaptation**. Environmental Health Perspectives. 2026;134(6)715–25.

- Parameswaran G, Ponnana SR, Sirasapalli SK, Presswalla F, Surya N, Zhang T, et al. **Temperature-Attributable Cardiovascular Mortality in Europe Under Future Climate Scenarios: Projected Impacts of Population Aging and Climate Change to 2080**. European journal of preventive cardiology. 2026;

- Robichon K, Grainger R. **Temperature extremes and autoimmune diseases**. Seminars in immunopathology. 2026;48(1)

- Sharma A, Gressent A, Real E, Nguyen KN, Corso M, Pascal M, et al. **Health and economic benefits of air quality improvements in France through diverse net-zero transition scenarios by 2050**. Environment International. 2026;217110555.

- Tobías A, Hashizume M, Madaniyazi L. **Heat Exposure Definitions in Temperature-Mortality Studies: Towards a Harmonisation Framework**. Current environmental health reports. 2026;13(1)

Mental health, wellbeing and psychosocial impacts

- Butner JL, Smith-Bernardin S, Roberson-Steele J, Madden B, Gruber VA, Tsui JI, et al. **The health impacts of climate change on people who use alcohol and other drugs: position statement of AMERSA, inc. (association for multidisciplinary education and research in substance use and addiction).** Substance Use & Addiction Journal. 2026;
- Marano G, Scialpi C, Sottile A, Di Giacomi O, Lanzetta M, Traversi G, et al. **Climate Change as a Chronic Stressor: Biological and Psychological Pathways Linking Environmental Change to Human Well-Being**. Life (Basel, Switzerland). 2026;16(10)
- Wray B, Vercammen A, Zeitz L, Wright S, Burrows V-E, Yamazaki J, et al. **Best practices for engaging lived experience experts in dialogues about climate change and mental health: lessons learned from a global effort**. BMC Global and Public Health. 2026;4(1)
- Xue S, Lacap LM, Hawke LD, Munro C, Husain MI, Wells S, et al. **Climate change experiences among women with psychiatric illness - a qualitative exploration of lived experiences and service needs**. Social Science & Medicine. 2026;406119619.

Food, allergy, chronic disease, digestive health and ageing

- Bhadania M, Mehta V, Noor T, Das KS, Mathur A. **Association between climate change and oral health outcomes: a systematic review of time-series studies**. BDJ Open. 2026;12(1)
- Bolt J, Li Y, Bonakdarsakhi S, Chiu D, Rush KL. **Perceptions, Knowledge, and Adaptive actions in Response to Climate Events: A Scoping Review of Climate Health Literacy among Community Dwelling Older Adults**. The Gerontologist. 2026;

- Korlat S, Ayalon L, Kornadt AE, Pillemer K, Rothermund K, Nikitin J. **Successful aging is environmentally friendly aging: a lifespan perspective of successful aging in the context of climate change**. The Gerontologist. 2026;66(11)

- Lee D, Oh I-H, Ji JS, Kanda M, Kimura H, Lee S, et al. **Age-stratified health impacts of climate change on older adults in the Western Pacific Region: a scoping review**. The Lancet Regional Health Western Pacific. 2026;75102004.

- Nyenhuis SM, Cavalier A, Salvo D, Sharp LK. **Perceptions of Climate Change, Health Impacts, and Climate Resilience, among Urban Residents Living with Asthma: An Exploratory Qualitative Study**. Journal of Urban Health. 2026;

- Parker ER, Cole-Adeife O. **The impacts of climate change on global skin health: Considerations for dermatologic disease burden, equity, and care delivery**. The Journal of Investigative Dermatology. 2026;

- Petraglia L, Conte M, Parisi V, Femminella GD, Leosco D. **New horizons in adaptive capacity and heat-related health in older people: integrating frailty, energy insecurity and social resources**. Age and Ageing. 2026;55(11)

Recent grey literature - reports and publications from key organisations

Publications and reports from key organisations within the last month.

- Foreign, Commonwealth & Development Office. **UK International Climate Finance results 2026** [Internet]. 2026 Oct 5 [cited 2026 Nov 3].

- Bradburne R, Environment Agency. **Understanding drought: applying science to protect people and nature** [Internet]. 2026 Oct 8 [cited 2026 Nov 3].

- Department for Energy Security and Net Zero. **World-first taskforce to protect communities from climate change** [Internet]. 2026 Oct 21 [cited 2026 Nov 3].

- European Insurance and Occupational Pensions Authority. **How climate change could affect life and health insurers and occupational pension providers** [Internet]. Climate-ADAPT; 2026 Oct 1 [cited 2026 Nov 3].
- PROTECCT research project. **Survey on protection against climate-related social risks in Europe in the transport sector** [Internet]. Climate-ADAPT; 2026 Oct 20 [cited 2026 Nov 3].
- European Environment Agency. **UNEP's Emissions Gap Report 2026 outlines humanity's options for containing climate change** [Internet]. Climate-ADAPT; 2026 Oct 21 [cited 2026 Nov 3].
- European Environment Agency. **Climate change mitigation: reducing emissions** [Internet]. Updated 2026 Oct 26 [cited 2026 Nov 3].
- UK Health Alliance on Climate Change. **UKHACC newsletter October 2026** [Internet]. 2026 Oct 16 [cited 2026 Nov 3].
- UK Health Alliance on Climate Change. **UKHACC endorse infection prevention and control environmental sustainability statement** [Internet]. 2026 Oct 21 [cited 2026 Nov 3].
- UK Health Alliance on Climate Change. **Lancet Countdown UK Policy Priorities 2026 launched** [Internet]. 2026 Oct 28 [cited 2026 Nov 3].
- World Health Organization Regional Office for Europe. **More than 100 city leaders sign Cork Call to Action on Climate and Health** [Internet]. 2026 Oct 7 [cited 2026 Nov 3].
- World Health Organization Regional Office for Europe. **Feeling the heat: how do we keep health systems fully functional during heatwaves?** [Internet]. 2026 Oct 16 [cited 2026 Nov 3].
- World Meteorological Organization. **Global Seasonal Climate Update for October-November-December 2026** [Internet]. Geneva: World Meteorological Organization; 2026 Oct 8 [cited 2026 Nov 3].

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