

CONFERENCE
on CONNECTING

HEALTH & CLIMATE CHANGE



11-12 October 2023
Stockholm, Sweden

CONFERENCE PROGRAM

DAY 1, Wednesday, 11 October 2023

Time/room	Main room B1-2
08:45-09:00	Conference opening H. Orru (University of Tartu, EST), H. Sjödin (Umeå University, SWE), A. Nordström (Ministry for Foreign Affairs, SWE), K. Aunan (CICERO, NO)
09:00-10:30	Keynote panel 1: Climate science, updates from IPCC WGI. Health effects of climate change, updates from Lancet countdown <i>Chair: K. Aunan (CICERO, NO)</i> Speaker/panelist: J. Fuglestad (CICERO, Intergovernmental Panel on Climate Change, NO) Speaker/panelist: C. Tonne (ISGlobal, Lancet Countdown Europe, ESP) Speaker/panelist: V. Kendrovski (World Health Organisation, GER)
10:30-11:00	COFFEE BREAK
11:00-12:30	ENBEL Symposium: Stakeholders and knowledge translation, and Climate-Health Africa Network <i>Chair: S. Kovats (UK), F. de'Donato (IT)</i> <ul style="list-style-type: none">• Advancing Climate Change & Health Agenda in Africa through networking (V. Pagiwa)• Climate services for heat-health adaptation: Costs, benefits, and societal implications (S. Rao)• How are national infectious disease surveillance systems taking climate change into account? Gap analysis of health adaptation in Africa (S. Kovats)• Vulnerability to heatwaves and other environmental co-exposures: a scoping review of prevention programs and interventions within the ENBEL project (E. Mazzalai)<ul style="list-style-type: none">• Implementation of adaptation in the health sector in Southern and Eastern Africa (J. Natukunda)• Public Health Adaptation to heat and concomitant environmental risks in Europe. Results from the ENBEL project GAP Analysis (F. de'Donato)
12:30-13:30	LUNCH

Time/room	Main room B1-2	Parallel room C1	Parallel room C2	Parallel room C3
13:30-15:00	<p>Oral 1: Climate change health impacts and transformation of disease patterns <i>Chair: H. Sjödin (SWE), J. Natukunda (UK)</i></p> <ul style="list-style-type: none"> West Nile Virus infection in Europe: a case-crossover study on the short-term effect of meteorologic parameters (G. Moirano) Global challenges and best practices in malaria forecasting: opportunities to apply new technologies to early warning systems in low-resource settings (G. Kim) El Niño and Epidemic Malaria in Ethiopia: a new climate tool to enhance malaria surveillance and response (A. Siebert) <ul style="list-style-type: none"> Delayed effect of temperature and precipitation on Lyme neuroborreliosis incidence in Europe (M. Sewe) An extended One Health approach for analysing coastal pathogens and their drivers (J. Bohorquez) European projections of West Nile virus transmission under climate change scenarios (Z. Farooq) 	<p>Oral 2: Climate, heat, and air quality interactions on health <i>Chair: H. Orru (EST), C. Muthoni (KEN)</i></p> <ul style="list-style-type: none"> Small-area analysis of heat effect on mortality and effect modification by air pollution in Europe (A. Schneider) Modelling past and future air pollution levels over Europe and associated premature mortality under various emission scenarios (U. Im) <ul style="list-style-type: none"> Impact of ambient air pollution on preeclampsia in 2001–2019, Rome, Italy (M. Pedersen) <ul style="list-style-type: none"> Temperature modifies the association between air pollution and respiratory disease hospitalisation in an industrial area of South Africa (J. Wichmann) Ancillaries of household air quality intervention on health & climate change mitigation in Ethiopia – A methodological framework (A. Kidane) California’s early transition to electric vehicles: observed health and air quality co-benefits (S. Eckel) 	<p>Oral 3: Perception, communication and partnership on climate change and health <i>Chair: M. Stackpole Dahl (NO), D. O’Donnell (USA)</i></p> <ul style="list-style-type: none"> Knowledge, attitude, practices, and expectations on climate change and sustainable development among French healthcare professionals (V. Migeot) Clear climate communication: ENBEL's research highlights in plain language (S. Myhre) Defining and conceptualizing planetary health literacy – A concept mapping approach (L. Schamberger) Building communities of practice for transdisciplinary research in climate and health in Latin America and the Caribbean: A conceptual model (Y.P. Silva) University students’ beliefs and concerns about climate change and the associated psychological impacts and mitigation intention (S.S. Lau) <ul style="list-style-type: none"> Impact beyond the Impact Factor (J. Glaser) 	<p>Oral 4: Economics and policies for a just transition <i>Chair: S. Rao (NO), G. Turner (UK)</i></p> <ul style="list-style-type: none"> Green dreams, local realities: The complexities of the European Union's energy transition (U. Dahal) Pathfinder Initiative: Analysing the effects of implemented climate mitigation actions on health and greenhouse gas emissions (B. Anton) <ul style="list-style-type: none"> Exploring health policy makers perspectives on fair pathways to net zero healthcare: a qualitative study (A. Bhopal) Assessing the health impacts associated with active transportation within four different pathways to net-zero carbon emissions in France (L. Moutet) Historical and projected economic burden of disease attributable to temperature variation: A methodological proposal for knowledge translation (S. Osorio) Overcoming silos in times of multiple crises: A conceptual framework on Climate, Health and Equity for future research infrastructures (E. Aigner)
15:00-15:30	COFFEE BREAK			
Time/room	Main room B1-2	Posters room B3		
15:30-16:00	<p>Workshop: Climate justice and health inequalities <i>Chairs: L. Mabile, E. Rial-Sebbag (Universite Toulouse III)</i></p> <ul style="list-style-type: none"> Speaker/panelist: C. Byk (IALES, FRA) Speaker/panelist: C. Lajaunie (INSERM, FRA) Speaker/panelist: L. Ravez (NARILIS, BE) 	Poster discussion 1: Health impacts of heat stress	Poster discussion 2: Climate change health impacts and transformation of disease patterns	
16:00-16:30		Poster discussion 3: Perception, communication and partnership on climate change and health	Poster discussion 4: Inequities in climate change impacts and health risks	
16:30-17:00		Poster discussion 5: Climate resilient health systems	Poster discussion 6: Climate, heat, and air quality interactions on health	
17:00-17:30		Poster viewing		
17.30-...		DRINKS & SNACKS with presentation of <i>The Lancet Family of Journals</i> & demonstration of documentary on workers’ health and heat		
20:00-...	CONFERENCE DINNER AND SOCIAL PROGRAM Restaurant K-Märkt - Garnisonen			

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DAY 2, Thursday, 12 October 2023

Time/room	Main room B1-2
09:00-10:30	<p>Keynote panel 2: Progress in health adaptation – across scales</p> <p><i>Chair: K. Bowen (University of Melbourne, AUS)</i></p> <p>Speaker/panelist: A. Kazmierczak (European Environment Agency, DEN) Speaker/panelist: H. Graczyk (International Labour Organization, CH) Speaker/panelist: I. Knutsson (Swedish National Institute of Public Health, SWE)</p>
10:30-11:00	COFFEE BREAK
11:00-12:30	<p>BELMONT Symposium: Stakeholders and knowledge translation, and Climate-Health Africa Network</p> <p><i>Chair: B. Leung (USA), K. Aunan (NO)</i></p> <ul style="list-style-type: none">• Climate change and health risk early warning systems (C. Gao)<ul style="list-style-type: none">• Global disparities in heat exposure (L. Ma)• Impact of environmental heat and a rest-shade-hydration intervention program on agro-industrial worker productivity (E. Hansson)• The CHAMNHA project: A behaviour change intervention to reduce the adverse health impacts of heat on pregnant and postpartum women and neonates (M. Ogunu)<ul style="list-style-type: none">• Biological traits variability of schistosomiasis intermediate host snails (<i>Bulinus</i> and <i>Biomphalaria</i>) from three climatic zones of Côte d'Ivoire (N. R. Diakité)• Amplifying community voices: Sharing experiences on climate change and health (S. Myhre)
12:30-13:30	LUNCH

Time/room	Main room B1-2	Parallel room C1	Parallel room C2	Parallel room C3
13:30-15:00	<p>Oral 5: Health impacts of heat stress <i>Chair: K. Aunan (NO), S. Hajat (UK)</i></p> <ul style="list-style-type: none"> Concurrent high temperature and humidity elevates urban mortality risks from humid heat stress (M. Mistry) Ambient temperature exposure and foetal size, foetal growth, and birth outcomes in three European birth cohorts (E. Essers) High and low temperature during pregnancy and childhood and brain structural connectivity in children (L. Granés) The effect of heat on daily mortality in 10 cities in India (J. De Bont) <ul style="list-style-type: none"> Integrating adaptation scenarios informed by SSPs in projecting temperature-related mortality burdens under climate change: a case study in Scotland (K. Wan) Exploring the association between drought and mortality in South Africa (C. Salvador) 	<p>Oral 6: Inequities in climate change impacts and health risks <i>Chair: L. Mabile (FRA), G. Sandanger (NO)</i></p> <ul style="list-style-type: none"> Advancing the right to health in planetary health (K. Khanna) Unraveling the social determinants of climate impacts on mental health: An ethnographic study in two vulnerable Bangladeshi communities (J.-M. Goudet) Extreme urban heat increases death in drug overdose: Predictive modeling, Phoenix, USA (P. Moseley) Modelling vulnerability to heat stress: transdisciplinary research on heat-related risks for human health in cities (I. Marginean) <ul style="list-style-type: none"> Ambient temperature and cardiovascular-respiratory adverse health outcomes in Spain (H. Achebak) Case study on a wintertime slip injury in Helsinki – Inequity perspective (R. Ruuhela) 	<p>Oral 7: Climate resilient health systems <i>Chair: S. Kovats (UK), J. Guo (SWE)</i></p> <ul style="list-style-type: none"> Evaluating wildfire risk against hospital facility location: a perspective to inform health facility resilience globally (K. Humphrey) Elucidating responses to malaria from a health systems perspective. A case of rural mountain community in Uganda (S. Aggrey) Breaking down the WHO's climate change and health assessment framework to a regional level – First results of a systematic vulnerability assessment (I. Horváth) Climate change and public health: barriers and levers for implementation of climate adaptation in Europe (Qualitative thematic analysis) (G. Turner) Co-developing SSP based socioeconomic narrative extensions to support climate change adaptation planning for health and social welfare in Finland (A. Lipsanen) Research and policy priorities on climate change and health in sub-Saharan Africa: Findings of a stakeholder prioritisation exercise (I. Solarin) 	<p>Oral 8: Climate hazards and population exposure <i>Chair: M. Sofiev (FIN), M. Jevtic (SRB)</i></p> <ul style="list-style-type: none"> High-resolution projections of ambient heat for major European cities using different heat metrics (C. Schwingshackl) The burden of temperature-related stillbirths and neonatal deaths attributable to climate change in 29 Low- and Middle-income countries (A. Dimitrova) Recent extreme heatwaves are dwarfed by projected future events (P. Aglas-Leitner) Mortality due to extreme temperatures in South Korea by SSP scenario (H. Kim) Projecting future temperature-mortality impacts under various population and climate change scenarios; the role of population development (E. De Schrijver) Investigation of climate change impact on urban microclimate and thermal comfort: Computational fluid dynamics simulations and regional climate models (N. Antoniou)
15:00-15:30	COFFEE BREAK			
Time/room	Main room B1-2			
15:30-16:45	<p>Health impacts of climate change: A way forward with the Climate-Health Cluster <i>Chair: R. Preet (SWE)</i></p> <p>Speakers/panelists: Marc Neumann (BlueAdapt project), C. Tonne (CATALYSE project), S. Blesic (CLIMOS project), S. Luchters (HIGH Horizons project), D. Jackson (HIGH Horizons project), J. Semenza (IDAlert project), S. Sabatino (TRIGGER project)</p>			
16:45-17:00	Conference closing			

Time/room	Posters room B3	
15:30-16:00	<p style="text-align: center;">Poster discussion 1: Health impacts of heat stress</p> <ul style="list-style-type: none"> • Impacts of ambient heat exposure on acute kidney injury (S. Hajat) • Assessment of current and future risks for malaria using Intergovernmental Panel on Climate Change methodological framework (K. Y. Etienne) • The cost of inaction: comparative projection of heat and cold-related mortality in 854 European cities under climatic and socio-economic scenarios (P. Masselot) • Heat and perinatal mortality: A time-stratified case-crossover study from 16 hospitals in Benin, Malawi, Tanzania and Uganda (J. De Bont) • Risk assessment and mapping of heat-related impacts on public health in an urban area (R. Bojariu) • Mortality burden due to heat during summer of 2022 in Switzerland: The contribution of human-induced climate change (Ana Maria Vicedo Cabrera) <ul style="list-style-type: none"> • UTCI trends in south-eastern Asia and its correlation with ENSO (J. Eggeling) <ul style="list-style-type: none"> • The effect of heat and humidity on cognition and health (C. Ly) • Longitudinal associations between daylight exposure during winter months and self-reported mental health (A. Raza) <ul style="list-style-type: none"> • Is the ICD-10 code T67 “heatstroke and sunstroke” a reliable indicator for heat morbidity? (K. Brugger) • Association between short-term increases in ambient temperature and hospital admissions in Copenhagen, Denmark (M. Bergmann) <ul style="list-style-type: none"> • Impact of temperature on labor productivity loss in Norway (L. Ma) • Temperature-related mortality in Finland with future projections (L. Haga) • Calculating Wet Bulb Globe Temperature within non-urban environments in the Community Land Model 5 (J. Buzan) • Australian heatwave related mortality attributed to climate change (N. Osborne) • Municipality assessment of temperature-related mortality risks in Norway (L. Vázquez Fernández) • Opportunities and barriers for occupational heat stress prevention implementation among sugarcane workers – An Interpretative Phenomenological Analysis (F. Pacheco-Zenteno) 	<p style="text-align: center;">Poster discussion 2: Climate change health impacts and transformation of disease patterns</p> <ul style="list-style-type: none"> • Temperature around conception and metabolic health in adulthood: Evidence from the UK Biobank (F. Pradella) • Early warnings for Malaria incidence using climate variables in Mozambique (C. J. Armando) • Impact of climate change on prevalent diseases: vulnerability and fragility in health (D. D. Juanola) • Health Administrators and Providers Perspectives on Facilitators and Barriers to Dengue Outbreak 2022 in the Kathmandu Valley (R. M. Shrestha) <ul style="list-style-type: none"> • Health system preparedness for climate change health related emergencies in Botswana: Post COVID 19 experiences (B. Morake) • Estimation of the carbon footprint of tuberculosis diagnosis and treatment in India (M. Martins) • How do extreme heat events alter the efficacy of human entero-viruses found in the intertidal zone (J. Kevill) • Health risks of temperature variability on hospital admissions in Cape Town, South Africa (J. Wichmann) <ul style="list-style-type: none"> • Association of daily temperature with suicide mortality: a comparison with other causes of death and characterization of attenuation across 5 decades (R. Slama) • Heat stress and preterm birth – Results of the Mid German climate preterm birth study (Y. Heimann) • Effects of ambient temperature on preterm birth, stillbirth, and low Apgar score in South Africa: A case-crossover analysis (C. Part) • Climate change and health effects during pregnancy, delivery and postnatal period: a scoping review (A. Sturm) <ul style="list-style-type: none"> • Heat Stress: a primer for maternal and perinatal health (C. Brimicombe) • Increased late preterm birth risk and altered uterine blood flow upon exposure to heat stress (E. Schlußner) <ul style="list-style-type: none"> • Short-term effects of extreme temperatures on cause-specific mortality in Italy. Results from the BIGEPI project (C. Di Blasi)

Time/room	Posters room B3	
16:00-16:30	<p>Poster discussion 3: Perception, communication and partnership on climate change and health</p> <ul style="list-style-type: none"> • Anxiety associated with climate change among Chinese living in a highly urbanized city: A case study of Hong Kong, China (S. S. Lau) • Does learning about the future of the ocean impact children's mental and emotional wellbeing: Insights from Aotearoa New Zealand (L. Murray) <ul style="list-style-type: none"> • Education on climate change and health – the ENBEL library (T. Veber) • Digital innovation and consumers' sustainable behavior (A.-C. Nordvall) • Mapping evidence and gaps for links between air pollution and children's health (F. Beyer) • Innovation methods, techniques and narratives for communicating climate change public health risks to diverse audiences (C. Lawlor) • Transdisciplinary research and action in climate and health in Latin America and the Caribbean: A network analysis (Y. P. Silva) <ul style="list-style-type: none"> • Regulatory focus and communication with citizen scientists (B. Dekramanjian) • Communicating climate change through visual metaphors: costs and benefits (B. Scalingi) • Awareness, perception, commitment and expectations in terms of initial training on climate change among French health students (V. Migeot) • A literature review of inhalers' carbon footprint to inform the development of a toolkit for multidisciplinary teams on green prescribing of inhalers (O. Nordrum) <ul style="list-style-type: none"> • Conceptual synergies between sustainable development goals and spiritual dimension of health in fighting against climate change menace (M. Bhatt) • How Germany deals with recent heat health challenges – Results of a country-wide online survey (H.-G. Mücke) <ul style="list-style-type: none"> • Relationship between universal health coverage and healthcare-related carbon emissions: a comparative analysis (I. C. de Azevedo) • Human health impacts of climate change: a global scoping review (J. Limaheluw) • Sustainable solutions in climate action – The role of medical doctors (M. Jevtic) 	<p>Poster discussion 4: Inequities in climate change impacts and health risks</p> <ul style="list-style-type: none"> • Healthcare seeking behaviour for children under 5 with febrile illness in Malawi and Rwanda: the impact of drought (K. Khanna) <ul style="list-style-type: none"> • Countrywide analysis of heat- and cold-related mortality trends in the Czech Republic: growing inequalities under recent climate warming (T. Janoš) • Exploring Climate-Related Health Risks and Behaviors among Vulnerable Populations in Israel: The Cases of Jewish and Bedouin Negev Desert Residents (M. Negev) • Intersections between climate change, equity, and global public health (R. Worthington) • Insights into holistic approaches of climate change and social inequalities in health: A scoping review (L. Mabile) • Quantifying intra-urban socioeconomic and environmental vulnerability to extreme heat events in middle-income African countries (T. Govindasamy) • What Role Does the Inequity of Climate Change Impacts Play in the Revival of the Global Health Policy Framework? (K. Mansoor) • Children disproportionately exposed to attributable heatwaves at low-latitude low-income countries (R. Pietroiusti) • The effects of diurnal temperature range on mortality and emergency presentations in Victoria, Australia: A multi-strata study (N. Osborne) <ul style="list-style-type: none"> • Climatic impacts on mortality variability in pre-industrial Sweden (T. T. Chen) <ul style="list-style-type: none"> • Climate change: An overlooked threat multiplier for drowning (R. Sindall) • Manual labour in an increasingly hot climate: Workplace regulations influence physiological workload and heat stress in industrial sugarcane workers (B. Skinner) <ul style="list-style-type: none"> • Occupational injuries and heat in the Italian agricultural sector (C. Di Blasi) • Protection Resilience Efficiency and Prevention (PREP) for workers in industrial agriculture in a changing climate (K. Jakobsson) • Impacts of land cover changes on heat stress and human health (A. Orlov)

Time/room	Posters room B3	
16:30-17:00	<p style="text-align: center;">Poster discussion 5: Climate resilient health systems</p> <ul style="list-style-type: none"> • Developing a Theory of Change for “net zero” healthcare at sub-national level in Europe through stakeholder engagement (O. Zotova) • Distance spanning solutions in healthcare through the lens of climate impacts and SDG synergies (S. Joshi) • Planetary health education in medical schools in Germany: Perspectives of medical students participating in the cross-sectional PlanetMedEd Survey (S. B. Jabakhanji) • Fostering climate literacy in health professions to tackle future climate challenge (K. Brugger) • Climate mitigation and adaptation in primary care – A Scoping Review (A. Stitzel) <ul style="list-style-type: none"> • Barriers and motivational factors for implementing climate change mitigation measures in Austrian healthcare facilities (F. Durstmüller) • How governance structures support the transformation towards climate resilient and sustainable net zero health systems (E. Weimann) <ul style="list-style-type: none"> • Measuring the effects of climate change on social determinants of health: Two assessment and documentation tools (P. Saberi) • Vulnerability to climate change in an Arab urban locality in Israel: A participatory assessment (M. Negev) • Barriers and opportunities for transdisciplinary research and action in climate and health in Latin America and the Caribbean (Y. P. Silva) <ul style="list-style-type: none"> • Sustainable cooling strategies for mitigating heat stress and thermal strain in Bangladeshi ready-made garment factories (J. Smallcombe) • Challenges and opportunities for climate change and health policies & financing in the African region (V. Pagiwa) • Individual adaptation behaviours during events of excessive heat in Lisbon: IN-HALE project (J. Vasconcelos) <ul style="list-style-type: none"> • Linking climate change adaptation and public health: Perspectives of Norwegian policy makers (I. Budin-Ljøsne) • A user centric analysis of resiliency of people and health systems based on exposure (M. Tariverdi) 	<p style="text-align: center;">Poster discussion 6: Climate, heat, and air quality interactions on health</p> <ul style="list-style-type: none"> • Effects of regional meteorological and air conditions on community-acquired pneumonia patients with pre-existing COPD and asthma (A.-C. Link) • Spatiotemporal variations of the short-term association between ambient particulate matter and suicide in Finland: a nationwide epidemiological study (Y. Kim) <ul style="list-style-type: none"> • Urban heat and pollution island in global cities (S. Chowdhury) • Short-term climate-mediated PM_{2.5} reduced lung function in COPD (H.-M. Tran) • Local approach to estimating the attributable burden of disease: A case study for air pollution and mortality (A. Pauwels) <ul style="list-style-type: none"> • The contribution of wildfires and natural aerosols to PM_{2.5} exposure and human health under future climate change scenarios (S. Chowdhury) • Environmental and social inequities in continental France: An analysis of exposure to heat, air pollution and lack of vegetation (L. Adelaide) • Interventions to safeguard maternal and newborn health from extreme heat and air pollution: a mapping of the literature (F. Conway) • Solar-radiation management scheme by using aluminum oxide poses a severe risk to global mental health (G. Ghirga) • Copernicus Health Hub: Access by the health community to the environmental data from Copernicus Program (J. Letertre) <ul style="list-style-type: none"> • An approach to track clean air health benefits of climate action (G. Thurston) • Adapting to a changing environment: inspirations for planetary health from east African communities (M. A. Otieno) <ul style="list-style-type: none"> • Microplastics drive a pro-inflammatory response in immune cells (B. Liu)

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