



Impacts of Climate Change on Human Health and Associated Research Needs

A changing climate impacts a range of factors that can affect health. Research is needed to better understand: complex health outcomes, prevention measures, and intervention actions that can save lives around the world.

CHANGES IN CLIMATE	EFFECTS OF CLIMATE CHANGE	HEALTH IMPACTS	INTERVENTIONS & STRATEGIES
<ul style="list-style-type: none"> Increased global temperature Extreme weather and disasters Precipitation extremes Sea level rise Changes in land use and growing seasons 	<ul style="list-style-type: none"> Extreme heat Air and water pollution Reduced food and water quality Changes in infectious diseases and vector transmissions Increasing allergens 	<ul style="list-style-type: none"> Heat related illness Cardiovascular disease, stroke, and other chronic conditions Injuries and death Mental and neurological disorders Zoonotic, vector- and water- borne diseases Respiratory diseases and asthma 	<ul style="list-style-type: none"> Early warning and preparedness Prevention or reduction of disease, illness and injury Community engagement Education and awareness raising Adoption and integration

SOCIAL, BEHAVIORAL, AND ENVIRONMENTAL DETERMINANTS OF HEALTH

- Access to Healthcare
- Diversity, Equity, Inclusion, and Accessibility
- Poverty & Housing
- Immigration/ Migration
- Environmental Exposures
- Infrastructure
- Geography

EXAMPLES OF NEEDED RESEARCH

- What are the new and emerging health risks from climate change?
- Who is most at risk?
- What health interventions are effective?
- Can we predict future health outcomes from climate models?
- What health benefits or costs come with climate actions?
- How can disaster warning systems best save lives?
- How can health care systems prepare for challenges to providing adequate care?
- How can communities best adapt to a changing climate?