Climate Change and Its Impacts on Women's Health: Future Perspective

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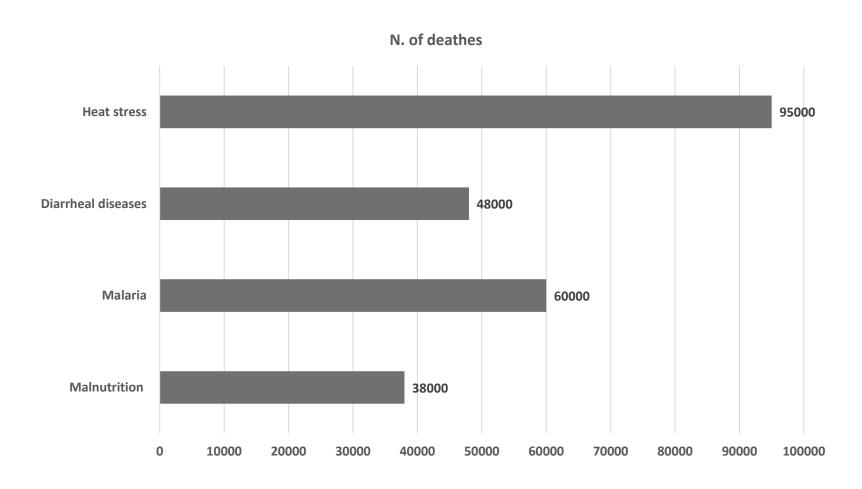
to discuss





- Climate change is **not gender-neutral**; it disproportionately affects **women** in **low- and middle-income countries (LMICs)**.
- Health risks include pregnancy complications, malnutrition, vector-borne diseases, and gender-based violence (GBV).
- Women face higher social and economic barriers that limit adaptation and healthcare access.

• **Projected Mortality Increase:** Climate change is expected to cause approximately **250,000 additional deaths per year** between 2030 and 2050. These deaths are anticipated from:



Climate Change = A Public Health Crisis

- The World Health Organization (WHO) recognizes climate change as the biggest health threat of the 21st century.
 - Direct effects:
 - ✓ Rising temperatures
 - ✓ Extreme weather events
 - ✓ Air pollution

- Indirect effects:
 - ✓ Water scarcity
 - ✓ Food insecurity
 - ✓ Displacement
 - ✓ Gender-based violence (GBV)



Climate change







Vulnerability factors

- Demographic
- Geographical
- Biological factors & health status
- Sociopolitical
- Socioeconomic
- Health system capacity
- Gender & equity

Climate-related hazards

- Extreme weather events
- Heat
- Sea level rise
- Air pollution
- Vector distribution & ecology
- Water scarcity
- Reduced food production

Exposure

- People & communities
- Health workforce
- Infrastructure
- Energy systems
- Water systems Food systems
- Health systems

Environmental threats and GHG emissions

Health outcomes



Injury and mortality from extreme weather events



Heat-related illness



Respiratory illness and other water-related



Water-borne diseases

health impacts

Vector-borne diseases



Malnutrition and food-borne diseases



Noncommunicable diseases (NCDs)



psychosocial health

Health systems & facilities



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Impacts on health care facilities



Effects on health systems

Why Are Women Disproportionately Affected?

- Social and economic barriers limit women's ability to adapt and access healthcare.
- Greater exposure to environmental hazards due to caregiving roles (e.g., water collection, cooking, child-rearing).
- Limited decision-making power in climate adaptation policies.
- **Higher rates of displacement** and vulnerability to **malnutrition, disease, and violence** in climate disasters.



Extreme Heat and Maternal Health



Heat exposure **increases pregnancy risks**, including:



Preterm birth, stillbirths, and low birth weight.



Higher rates of hypertensive disorders (e.g., preeclampsia, eclampsia).



Greater risk of dehydration and gestational diabetes.

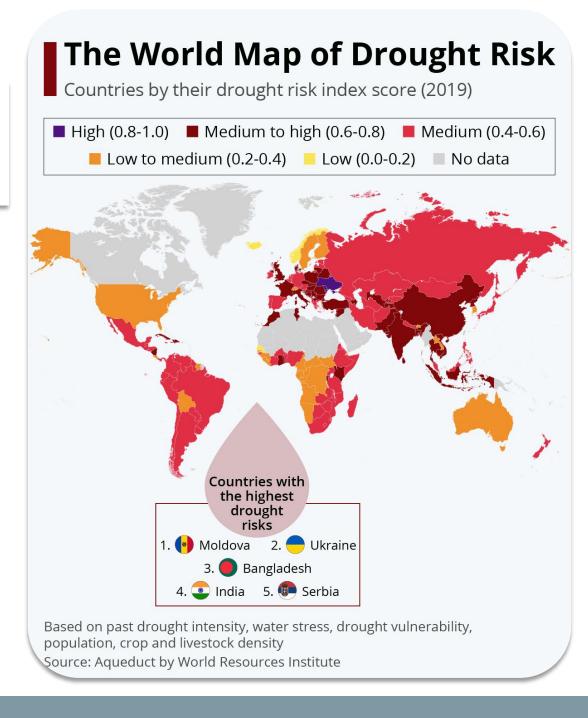


A 1°C rise in temperature is associated with a 5% increase in stillbirths (WHO, 2022).



Water Scarcity and Women's Reproductive Health

- Limited access to clean water increases the risks of:
 - ✓ Urinary tract infections (UTIs) and reproductive infections.
 - ✓ Menstrual hygiene issues, leading to higher rates of infections and school dropout in young girls.
 - ✓ Pregnancy complications due to waterborne diseases.
 - ✓ Climate change is increasing droughts and flooding, disrupting water supply chains worldwide.

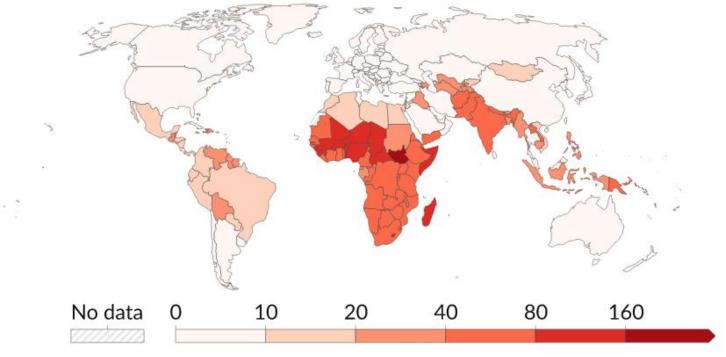


How Food Insecurity Affects Women's Health

Child and maternal malnutrition death rate, 2021



The estimated number of deaths attributed to child and maternal malnutrition, per 100,000 people.



Data source: IHME, Global Burden of Disease (2024)

Note: To allow for comparisons between countries and over time, this metric is age-standardized.

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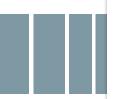
How Food Insecurity Affects Women's Health

- Climate change is causing crop failures, rising food prices, and malnutrition, which disproportionately affect women.
- Maternal health impacts of malnutrition:
 - ✓ Increased maternal mortality due to anemia and vitamin deficiencies.
 - √ Higher rates of birth defects, low birth weight, and infant stunting.
 - ✓ Iron deficiency anemia affects 42% of pregnant women worldwide (WHO, 2023).

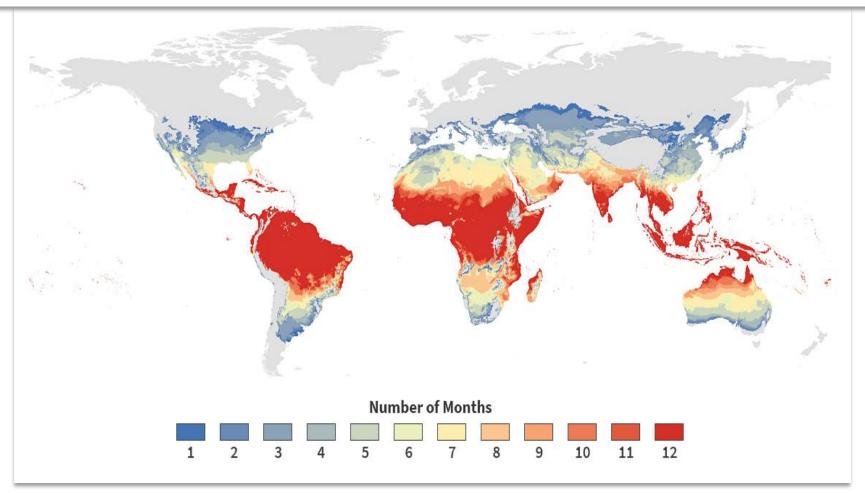


Vector-Borne Diseases and Women's Vulnerability

- Rising global temperatures have expanded the range of diseases such as malaria,
 Zika virus, and dengue fever.
- Pregnant women are at greater risk due to:
 - ✓ Malaria → Higher chances of miscarriage, preterm birth, and maternal anemia.
 - ✓ Zika virus → Causes birth defects like microcephaly.
 - ✓ Dengue fever → Increases immune complications in pregnant women.
 - ✓ Flooding and poor sanitation contribute to outbreaks of cholera, typhoid, and diarrheal diseases, leading to maternal and infant mortality.



Stanford researchers explore the effects of climate change on disease



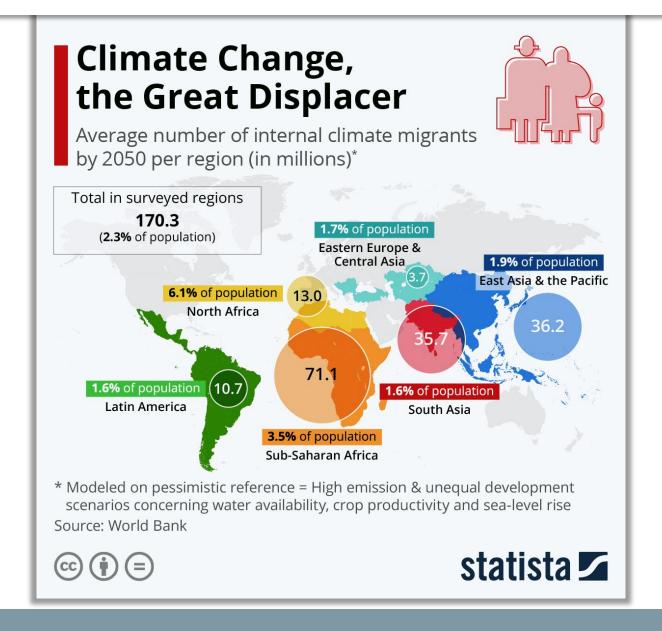
Current worldwide distribution of the mosquito Aedes aegypti – which can spread dengue fever, Zika virus, chikunyunga and yellow fever – by duration of time in each region. (Image credit: Sadie Ryan)

Climate-Induced Displacement and Gender-Based Violence (GBV)

- Climate disasters lead to forced displacement, increasing the risk of GBV, sexual violence, and exploitation.
- Women in **refugee and displaced communities** face:
 - ✓ Higher rates of sexual violence and trafficking.
 - ✓ Limited access to reproductive healthcare and contraception.
 - ✓ Increased domestic violence due to economic stressors.
 - ✓ Studies show a rise in GBV cases following extreme weather events (e.g., hurricanes, droughts).



Climate-Induced Displacement and Gender-Based Violence (GBV)



Global Climate Policies Addressing Women's Health

- The UN's Gender Action Plan integrates women's health into climate policies.
- WHO emphasizes the need for climateresilient health systems to protect vulnerable women.
- COP27 and COP28 commitments:
 - ✓ Increased funding for gender-sensitive climate adaptation programs.
 - ✓ Strengthened climate-health research on maternal risks.







RCOG's Policy on Climate and Women's Health

- RCOG advocates for international commitments to reduce healthcare emissions.
- Key policy recommendations:
 - ✓ Increase **funding for maternal and reproductive healthcare** in climateaffected areas.
 - ✓ Implement climate-informed obstetric and gynecologic care protocols.
 - ✓ Strengthen medical training on climate and women's health.
 - ✓ The upcoming April 23rd RCOG Climate Sustainability Meeting will address these priorities.





Green Maternity Conference

Wednesday 19 March 2025



London

















New policy position

Climate change in women's health



Building

Ministry of Health and Family Welfare
Government of India

Guidelines for Green and Climate Resilient Healthcare Facilities

February 2023





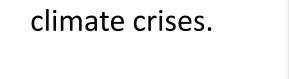


Healthcare

of maternal care during

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es and emergency care.



Healthcare systems

- Key adaptation strate
 - √ Heat-adaptive m
 - √ Mobile health u
 - √ Strengthened su

Thank you

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