2nd International Climate Change and Human Health Impacts
March 23-24,2023 |Berlin, Germany

President
Homa Bay Constituency College and University Students Organization

**Okoth Sepblater Omondi**



# Climate Change and Human Health Impacts

**Okoth Sepblater Omondi**

Climate change is likely to widen the existing health and socioeconomic differences between and within the world's richest and poorest populations. Most greenhouse gases that cause climate change originate from wealthier industrialized countries. However, some of the worst health risks will affect small island developing states and other coastal, mountainous, polar, tropical and desert regions. Countries with weak health systems and services will also be significantly affected.

Climate change may affect health through a range of pathways, for example as a result of increased frequency and intensity of heat waves, reduction in cold related deaths, increased floods and droughts, changes in the distribution of vector-borne diseases and effects on the risk of disasters and malnutrition. Additionally, the health effects of climate change include respiratory and heart diseases, pest-related diseases like Lyme disease and West Nile Virus, water- and food-related illnesses, and injuries and deaths. Climate change has also been linked to increases in violent crime and overall poor mental health.

The overall balance of effects on health is likely to be negative and populations in low-income countries are likely to be particularly vulnerable to the adverse effect. Adaptation to climate change requires public health strategies and improved surveillance. Mitigation of climate change by reducing the use of fossil fuels and increasing a number of uses of the renewable energy technologies should improve health in the near-term by reducing exposure to air pollution.

Taking into account the adverse impacts of climate change on human health, the importance of increasing knowledge and gaining essential skills is necessary to mitigate and adapt to its impacts and protect human health.

There is an urge for more research in the climate-health nexus, as well as calling for efforts that establish climate and health educational goals. This encourages the development of agreed upon, articulated science-based curricula and resources addressing climate-health issues. Moreover, this review aims to map out the current state of integration of climate change education in school-based education across the world and identify the human health topics included. Furthermore, it aims to explore the extents to which levels of prevention and health co-benefits of climate mitigation and adaptation are covered within the framework of school-based climate change education.

With climate change already under-way, there is a need to assess vulnerabilities and identify cost-effective intervention/adaptation options in the health sector and in other sectors that have direct links to human health. Early planning can help reduce future adverse health impacts and mitigation strategies, for example using a number

of renewable energy sources, can improve health by reducing air pollution.

**Biography**

Okoth Sepp-Blatter is a youth , student at Jomo - Kenyatta University of Agriculture and Technology of Kenya , Juja pursuing a Bachelor of Science in Applied Biology .I serve as the President Homa-Bay Town Constituency College and University Students Organization ,which has a population of 56,000 students , and champions for welfare, aspirations and interests of students by partnering with governments ,Non-Governmental organizations , corporates and other stakeholders in developing and implementing sustainable programs instrumental in empowering members in Education ,Sustainable Development Goals, capacity building etc.

Being an environmental activist, through the organization, I have successfully championed for the organization's Climate Change Action Plan Launch include Clean Environment Community Education, Conservation of Water sources and successfully launching a 4 million tree plantation for the year 2023.

**Reference**

Climate and Health in school-based education:A scoping review protocol.

Haines A, Kovats RS, Campbell-Lendrum D, Corvalán C. Climate change and human health: impacts, vulnerability and public health. Public health. 2006;120[7]:585–96.

doi: 10.1016/j.puhe.2006.01.002 - DOI – PubMed