

Review of: "Thermal Stress and Dengue Fever: Exploring the Correlation between Elevated Temperatures and Heat Waves in Disease Dynamics"

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Potential competing interests: No potential competing interests to declare.

The manuscript provides a comprehensive exploration of the relationship between high temperatures, heatwaves, and Dengue fever transmission. It effectively discusses the mechanisms by which climate change influences *Aedes* mosquito behavior, virus replication, and human susceptibility to Dengue outbreaks. However, a significant limitation is the absence of clear statistical data and visual representations to substantiate the claims made throughout the text. Without empirical evidence, the manuscript relies heavily on descriptive explanations, which may weaken the persuasiveness of its arguments.

Key strengths include a thorough discussion of epidemiological factors and public health implications. The manuscript adeptly emphasizes the urgency of adaptive strategies like early warning systems and vector control in mitigating Dengue risks under changing climate conditions. However, the discussion lacks depth in addressing potential biases or limitations in the reviewed studies, which could affect the robustness of the conclusions drawn.

To strengthen the manuscript, it is crucial to incorporate empirical data, statistical analyses, and visual aids such as figures or graphs. These additions would not only enhance the credibility of the findings but also improve clarity and engagement for readers. Moreover, discussing regional variations and potential limitations in data sources or methodologies would provide a more nuanced understanding of Dengue dynamics in different contexts.