

## 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.

## Reviewer comments:

The article "Thermal Stress and Dengue Fever: Exploring the Correlation between Elevated Temperatures and Heat Waves in Disease Dynamics" competently synthesizes current research findings, epidemiological insights, and emerging trends in public health strategies to address climate change and its impacts on Dengue transmission dynamics. The authors effectively highlight the multifaceted impacts of climate change on Dengue transmission and all critical components in the epidemiology of the disease, emphasizing how rising temperatures influence *Aedes* mosquito vectors, the Dengue virus itself, and human behaviour. Besides this, there are some points I would like to suggest to improve the quality of the article -

- 1. While the article provides a broad overview and general information on the interactions between climatic factors and Dengue transmission, it lacks an in-depth analysis of specific case studies or empirical data.
- 2. The article relies heavily on general statements and references to existing literature without providing specific data points or empirical evidence to support key assertions. More definite examples, quantitative analyses, or case studies could enhance the statements' credibility.
- 3. Practical considerations and barriers to effective policy implementation should be addressed more thoroughly.
- 4. While the article provides a comprehensive overview of the relationship between high temperatures, heat waves, and Dengue fever, the author needs to strengthen its analysis with more empirical data, a broader consideration of contributing factors, and a discussion of policy implications and future research directions.

The article briefly mentions ongoing research and recent advances but does not dig into potential future directions for research or emerging trends in Dengue prevention and control strategies. A forward-looking perspective could provide valuable insights for researchers and policymakers.

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