

**Assessing the Impact of Climate Change on the Burden
of Malaria in India: A State Level Analysis**

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ABSTRACT:

Diseases that are particularly sensitive to environmental changes, such as vector-borne diseases (VBD) pose a significant risk to human health. These diseases often follow seasonal patterns in various regions around the globe, with spread and severity of their occurrence influenced by local climatic conditions. Recent research highlights how VBDs, such as malaria, are re-emerging in areas where they were once eradicated and are even spreading to regions that previously didn't face such health threats. This resurgence is largely linked to the impacts of changing climatic conditions. Rising global temperatures, shifts in humidity, and changes in rainfall patterns all play a role in the movement of disease-carrying vectors and the illnesses they transmit. However, there remains a lot of uncertainty regarding how these diseases spread under different climatic, environmental, and socioeconomic conditions. This study aims to shed light on this issue through a comprehensive literature review and analysis of malaria incidence and meteorological variables (such as temperature and precipitation) and relevant socioeconomic variables.

Keywords: Climate change, Malaria, Vector-borne diseases, Public Health.

JEL Codes: Q54, I10, I18.