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Editorial

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Double Threat, Single Vector: Managing Dengue and Chikungunya in Bangladesh

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Bangladesh is currently facing an unprecedented public health crisis as dengue and Chikungunya fever cases increase during this seasonal outbreak. Recent data shows over 45,000 dengue cases with 188 deaths reported until Sep 2025¹, while Chikungunya virus is re-emerging amid ongoing dengue outbreak, posing a risk of a major outbreak². Both diseases are transmitted by the same Aedesaegypti mosquito, making vector control crucial for prevention³.

The clinical challenge is significant as both diseases present with similar symptoms—high fever, severe headache, muscle pain, and joint pain—making early diagnosis difficult⁴. The 2024 dengue outbreak demonstrated the need for improved clinical and epidemiological surveillance, particularly as patients often present to healthcare facilities only after complications develop⁵.

Immediate action is needed at the community and national levels. Citizens must remove sources of standing water around their homes, such as flower pots, water containers, and roof gutters, where mosquitoes breed⁶. It is essential to use mosquito nets, repellents, and protective clothing during biting times (dawn and dusk)⁷. Healthcare providers should maintain high clinical suspicion for both diseases, especially during the monsoon season.

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The government has established specialized boards comprising physicians for dengue and Chikungunya treatment, but prevention remains our most powerful weapon⁸. Public awareness campaigns, community involvement, and integrated vector control measures are crucial to address this dual threat and protect public health in Bangladesh⁹.

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