



Epidemiological Dynamics of Vector-Borne Diseases in Gambian Rural Communities: Quantified Public Health Strategies and Responses

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Abstract

Vector-borne diseases pose significant public health challenges in rural Gambian communities. Understanding their dynamics is essential for developing effective public health strategies. Data from two years of surveillance were analysed using statistical models to estimate disease prevalence and transmission rates. Community surveys collected demographic and health data. Vector populations showed a 20% increase over the study period, correlating with higher incidences of malaria among children under five in rural areas (65%). Current interventions are effective but insufficient to control disease spread. Enhanced community engagement is recommended. Develop targeted health education programmes and strengthen surveillance systems to address identified gaps. vector-borne diseases, Gambian communities, public health strategies, malaria, epidemiology

Keywords: *Sub-Saharan, rural, entomology, vector-borne, community health, epidemiology, public policy*

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