



# Community-Based Interventions in Reducing Malaria Transmission within Sierra Leone’s Forested Regions: A Comprehensive Review and Analysis

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### Abstract

This study addresses a current research gap in Medicine concerning Role of Community-Based Interventions in Reducing Malaria Transmission in Sierra Leone’s Forested Regions in Sierra Leone. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Role of Community-Based Interventions in Reducing Malaria Transmission in Sierra Leone’s Forested Regions, Sierra Leone, Africa, Medicine, original research This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with  $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta_1 X_p$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** Sub-Saharan, African, Vector-Borne, Disease, Epidemiology, Vaccination, Malaria Prevention

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