



Integrating Community Health Workers with Mobile Clinics for Malaria Prevention in Benin Villages

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Abstract

Malaria remains a significant public health issue in Benin villages, despite ongoing efforts to control its spread through conventional healthcare delivery methods. The study employed a mixed-methods approach involving surveys, focus groups, and observational data collection from 12 randomly selected villages. Data were analysed using descriptive statistics and thematic analysis. CHWs reported an average of 30% increase in malaria case detection rates per month when operating alongside mobile clinics compared to standalone CHW interventions (95% CI: [20%, 40%]). The integration of CHWs with mobile clinics demonstrated effectiveness in enhancing malaria prevention and treatment outcomes, particularly among underserved rural populations. Further research is recommended to evaluate the scalability and sustainability of this model across different geographical settings. Malaria Prevention, Community Health Workers, Mobile Clinics, Benin Villages Treatment effect was estimated with $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta^T p X$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Antimalaria, BehaviourChange, CommunityEngagement, MobileHealthCare, InterventionEfficacy, VillageBasedStudies*

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