



Community Health Volunteers' Impact on Malaria Control in Central Ghana Over Five Years

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Abstract

Malaria remains a significant public health issue in Central Ghana, with community-based interventions seen as effective control mechanisms. A mixed-methods approach involving pre- and post-intervention surveys, focus groups, and analysis of CHV activity logs was employed. Overall, the number of reported malaria cases decreased by 35% (95% CI: -40%, -28%) with a significant increase in community awareness about prevention measures. CHVs played a crucial role in enhancing malaria control efforts but faced challenges related to resource allocation and training needs. Enhanced training programmes, improved logistics support, and sustained community engagement are recommended for future interventions. Community Health Volunteers, Malaria Control, Community Engagement, Intervention Study Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Community Health Workers, Malaria Control, Geographic Medicine, Interventions Study, Community-Based Approaches, Public Health Impact, Geographical Epidemiology*

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