



Assessment of Community Health Worker Coverage and Effectiveness in Rural Malawi's HIV/AIDS Treatment Programmes: A Three-Year Epidemiological Analysis

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Abstract

Rural Malawi faces significant challenges in implementing effective HIV/AIDS treatment programmes, with limited resources and infrastructure. A mixed-methods approach combining quantitative surveys and qualitative interviews was employed to evaluate CHW performance and patient outcomes. During the study, it was found that CHW coverage fluctuated between 70% and 85%, with significant disparities in service availability across different regions. CHWs played a crucial role in delivering treatment services but exhibited variability in their effectiveness based on local context and resource access. Enhanced training programmes for CHWs, coupled with improved infrastructure support, are recommended to optimise programme delivery and patient care. Community Health Workers, HIV/AIDS Treatment Programmes, Rural Malawi, Epidemiological Analysis Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, Community health workers, Epidemiology, Intervention studies, Malawi, Qualitative methods, Randomized controlled trials*

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