



# The Impact of Community Health Worker Programmes on Tuberculosis Treatment Adherence Among Rural Residents in Kenya: A Two-Year Follow-Up Study

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## Abstract

Community health worker (CHW) programmes have been increasingly implemented to improve tuberculosis (TB) treatment adherence among rural populations in Kenya. A mixed-methods approach combining quantitative surveys with qualitative interviews was employed. Data were collected from 400 rural residents using structured questionnaires. CHW interventions showed an 18% increase in medication adherence compared to baseline, with a confidence interval of  $\pm 5\%$  (95%). The findings suggest that CHWs play a crucial role in enhancing TB treatment adherence among rural Kenyan populations. Further studies should explore the scalability and sustainability of these interventions across diverse communities. Tuberculosis, Community Health Workers, Adherence Rates, Rural Kenya Treatment effect was estimated with  $\text{text}\{ \text{logit} \}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** Kenya, Tuberculosis, Community Health Workers, Adherence, Qualitative Methods, Quantitative Methods, Rural Health

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