



Community Health Workers' Impact on Tuberculosis Adherence in High-Burden Districts of Kenya: A Six-Month Study

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Abstract

Tuberculosis (TB) remains a significant public health challenge in high-burden districts of Kenya, necessitating effective community-based interventions to improve treatment outcomes. A mixed-methods approach was employed, including baseline and follow-up surveys with quantitative data collection via structured questionnaires and qualitative interviews for thematic analysis. Data were analysed using descriptive statistics and thematic content analysis. CHWs reported an increase in adherence rates from 60% at baseline to 75% after six months, indicating a significant improvement ($p < 0.01$). The findings suggest that CHWs play a critical role in enhancing TB treatment adherence. Further research should explore the sustainability of these interventions and their scalability across different contexts. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African Geography, Community Health Workers, Tuberculosis Control, Adherence to Treatment, Qualitative Research, Mixed-Methods Approach, Public Health Interventions*

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