



# Tuberculosis Control through Community Health Worker Programmes in Nairobi Slums: A Three-Year Impact Assessment

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## Abstract

Nairobi slums face significant health challenges, particularly in tuberculosis (TB) control. A mixed-methods approach combining quantitative data from health records with qualitative interviews to assess programme effectiveness and participant compliance. Community workers reported a 25% reduction in TB cases compared to pre-programme baseline, with high adherence (80%) among participants. Variations in programme implementation influenced outcomes. The community health worker programmes demonstrated promising results in reducing TB incidence but required standardised training and support for consistent impact. Standardise training programmes and increase funding for ongoing support to ensure sustained effectiveness. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African, Nairobi, CommunityHealthWorker, Tuberculosis, Control, Epidemiology, Qualitative, Adherence, Outreach

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