



Mobile Health Clinics in Nairobi Slums: Effectiveness on Tuberculosis Detection and Diagnosis

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Abstract

Mobile health clinics have been introduced in Nairobi slums to address healthcare access issues among marginalized populations. A mixed-methods approach including pre-and post-intervention surveys and qualitative interviews was employed to assess clinic utilization and TB outcomes. Mobile clinics significantly increased TB case detection by 35% among surveyed individuals, with a confidence interval of [28%, 41%]. The mobile health clinics demonstrated an effective role in enhancing TB diagnostic rates within Nairobi's slums. Further implementation and evaluation are recommended to scale up these services for broader impact. Mobile Health Clinics, Tuberculosis Detection, Nairobi Slums, Mixed-Methods Approach 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: *Sub-Saharan, African, Mixed-Methods, Spatial Epidemiology, Tuberculosis, HIV/AIDS, Healthcare Access*

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