Effectiveness of Community Health Volunteers in Tuberculosis Case Detection within Urban Kenyan Communities,

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Abstract

Urban Kenyan communities have a high prevalence of tuberculosis (TB), necessitating effective strategies for case detection. A mixed-methods approach was employed, including surveys and qualitative interviews to assess CHVs' activities and community perceptions. Data were analysed using descriptive statistics and thematic analysis. CHVs detected an average of 20% more TB cases compared to traditional health workers, with a significant improvement in detection rates among marginalized communities ($p < 0.05$). Community Health Volunteers significantly enhanced TB case detection within urban Kenyan settings. Continued training and support for CHVs are recommended alongside community engagement strategies. Tuberculosis, Community Health Volunteers, Urban Kenya, Case Detection Rates, Mixed-Methods Approach Treatment effect was estimated with $text\{logit\}(\pi) = beta\,0 + \beta^{\rightarrow} p\, X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Tuberculosis, Urbanization, Community Health Workers, Qualitative Research, Epidemiology, Public Health Models, Geographic Information Systems*

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