



Community Participation Rates in Mobile Health Clinics for TB Screening Among Rural Farmers in Tanzania: A Six-Month Evaluation

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Abstract

Mobile health clinics have been implemented to provide tuberculosis (TB) screening services in rural areas of Tanzania, targeting farmers as high-risk populations for TB due to their close proximity to livestock. A mixed-methods approach was employed, including quantitative surveys assessing participant engagement and qualitative interviews exploring barriers and facilitators of participation. Community participation varied significantly across different regions, with an average rate of 45% during the study period. Key themes included logistical challenges and cultural perceptions affecting clinic attendance. The evaluation revealed substantial room for improvement in increasing community engagement with mobile health clinics. Future initiatives should focus on addressing identified barriers through targeted interventions tailored to specific regional contexts. The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Geography, TB Screening, Community Participation, Mobile Health Clinics, Rural Development, Public Health Policy, Epidemiology*

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