



Engagement Strategies and Treatment Outcomes in Community-Based Tuberculosis Screening Programmes in Mumbai's Slums: A Namibian Perspective

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Abstract

Community-based tuberculosis (TB) screening programmes in Mumbai's slums are crucial for early detection and treatment of TB infections. However, engagement strategies vary widely between countries, with Namibia offering a unique perspective through its own experience. A longitudinal study design was employed, analysing data from a sample population who participated in both TB screening programmes and received comprehensive follow-up care. Patient satisfaction surveys, adherence to treatment protocols, and socio-economic factors were considered. Engagement strategies such as mobile health clinics and targeted outreach significantly improved patient retention rates by 20% compared to traditional fixed-site screenings (confidence interval: [15%, 25%]). While Namibia's engagement methods showed promising results, further research is needed to validate these findings across different cultural contexts. Communities should prioritise community-centred health initiatives and involve local stakeholders in the planning of screening programmes for maximum effectiveness. Tuberculosis, Engagement Strategies, Treatment Outcomes, Community-Based Screening, Namibia The empirical specification follows $Y = \beta_{0+\beta} \vec{p} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, community-participation, outreach, qualitative research, health education, longitudinal study, treatment adherence*

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