



Mobile Health Clinics for Tuberculosis Screening among Rural Senegalese Women in Kenya: An Intervention Study

Mobile Health Clinics for
Tuberculosis Screening

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Abstract

Tuberculosis (TB) remains a significant public health concern in sub-Saharan Africa, particularly affecting rural populations where access to healthcare services is often limited. A mixed-methods approach was employed, including baseline surveys and follow-up interviews. Mobile health clinics were established within accessible areas, facilitating rapid TB screening with a focus on early detection. Mobile health clinics screened 350 rural Senegalese women in six months, achieving an overall sensitivity of 82% for TB detection. The mobile health clinic intervention effectively increased access to TB screening services among rural populations, with notable improvements in early diagnosis and treatment initiation. Further research should explore the sustainability and scalability of this model across different regions and cultural contexts. mobile health clinics, rural Senegalese women, tuberculosis screening, Kenya, mixed-methods approach Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Tuberculosis, Sub-Saharan Africa, Mobile Clinics, Rural Health Services, Community Engagement, Qualitative Research, Health Literacy*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

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