



Mobile Health Clinics for Tuberculosis Screening in Rural Sierra Leone Communities: An Intervention Study

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Abstract

This study addresses a current research gap in Medicine concerning Mobile Health Clinics for Tuberculosis Screening in Rural Sierra Leone Communities in Sierra Leone. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Mobile Health Clinics for Tuberculosis Screening in Rural Sierra Leone Communities, Sierra Leone, Africa, Medicine, intervention study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. 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: *Tuberculosis, Sierra Leone, Mobile Clinics, Community Health, Intervention Studies, Rural Health Care, Geographic Epidemiology*

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