



Cost-Effectiveness of Community Health Workers in Tuberculosis Screening and Adherence in Dar es Salaam's Slums, : A Systematic Literature Review

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Abstract

This study addresses a current research gap in Medicine concerning Community Health Workers' Role in Tuberculosis Screening and Treatment Adherence in Dar es Salaam's Slums: Cost-Effectiveness Studies in Tanzania. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured review of relevant literature was conducted, with thematic synthesis of key findings. 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. Community Health Workers' Role in Tuberculosis Screening and Treatment Adherence in Dar es Salaam's Slums: Cost-Effectiveness Studies, Tanzania, Africa, Medicine, systematic review This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Tanzania, Community Health Workers, Tuberculosis, Screening, Adherence, Cost-Effectiveness, Africa

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