



Methodological Assessment and Forecasting of Community Health Centre Systems in Tanzania Using Time-Series Models

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Kamali Chituwo is affiliated with State University of Zanzibar (SUZA) and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Methodological evaluation of community health centres systems in Tanzania: time-series forecasting model for measuring system reliability 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. Methodological evaluation of community health centres systems in Tanzania: time-series forecasting model for measuring system reliability, 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: *African healthcare systems, community health centres, forecasting models, Methodology, time-series analysis, reliability assessment, econometrics*

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