



Methodological Assessment of Community Health Centre Systems in Tanzania: A Quasi-Experimental Evaluation of Clinical Outcomes

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Abstract

Community health centres in Tanzania play a crucial role in providing primary healthcare services to underserved populations. However, there is limited evidence on their effectiveness and potential for improvement. A quasi-experimental evaluation approach was employed, utilising data from pre- and post-intervention surveys conducted across five randomly selected communities. The study aimed to measure changes in clinical outcomes related to common health issues such as malaria and pneumonia. The preliminary analysis indicated a significant improvement in the detection rates of malaria cases (from 35% to 42%) following the implementation of new diagnostic tools, though with some variability across different sites ($p < 0.05$). While initial results show promise for enhancing clinical outcomes, further research is needed to validate these findings and ensure consistent improvements in service delivery. Immediate steps should include training health workers on the use of new diagnostic tools and establishing standardised protocols across all community health centres. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Tanzania, Geographic Medicine, Quasi-Experimental Design, Outcome Evaluation, Primary Healthcare, Community Health Centres, Spatial Analysis

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