



Methodological Evaluation of Community Health Centre Systems in Tanzania: A Randomized Field Trial for Measuring Clinical Outcomes

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Abstract

Community health centres in Tanzania are pivotal for delivering healthcare services to underserved populations. However, their effectiveness and efficiency vary significantly. A randomized field trial was conducted across multiple community health centres. Data were collected using standardised questionnaires, and statistical analysis employed mixed-effects models with robust standard errors to account for within-cluster correlation. The study revealed that the intervention had a significant positive impact on clinical outcomes in 75% of participating health centres, although variability was observed across different regions. The findings suggest that while there are notable improvements, further research is needed to address regional disparities and optimise system performance. Specific recommendations include targeted training for healthcare providers in less effective areas and the implementation of telemedicine solutions to enhance service delivery. Community health centres, Tanzania, Clinical outcomes, Randomized field trial, Mixed-effects models Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, randomized controlled trials, health system evaluation, longitudinal studies, community healthcare delivery, outcome measurement, qualitative data analysis*

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