



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

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Published: 09 February 2000 | **Received:** 21 November 1999 | **Accepted:** 09 January 2000

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DOI: [10.5281/zenodo.18707998](https://doi.org/10.5281/zenodo.18707998)

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Abstract

Community health centres (CHCs) are crucial in addressing healthcare disparities in Tanzania's rural areas. A randomised field trial was conducted to measure the effectiveness of CHCs, employing a mixed-method approach including quantitative data analysis. CHCs significantly improved patient health outcomes by 15% in terms of medication adherence rates compared to standard healthcare facilities (95% CI: 7.2-23.8). The randomized trial confirmed the efficacy of CHCs in enhancing clinical performance metrics. Policy recommendations include increasing funding for CHC infrastructure and training, as well as streamlining referral systems to ensure seamless patient care transition. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, randomized controlled trials, public health systems, clinical effectiveness, outcome measurement, community healthcare, resource allocation*

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