



# Methodological Evaluation of Community Health Centres Systems in Tanzania: Quasi-Experimental Design for Risk Reduction Measurement

Salamatu Kinyanjui<sup>1</sup>

<sup>1</sup> Sokoine University of Agriculture (SUA), Morogoro

**Published:** 04 April 2009 | **Received:** 09 November 2008 | **Accepted:** 05 February 2009

**Correspondence:** [skinyanjui@gmail.com](mailto:skinyanjui@gmail.com)

**DOI:** [10.5281/zenodo.18885486](https://doi.org/10.5281/zenodo.18885486)

## Author notes

*Salamatu Kinyanjui is affiliated with Sokoine University of Agriculture (SUA), Morogoro and focuses on Medicine research in Africa.*

## Abstract

Community health centres in Tanzania are pivotal for delivering healthcare services to underserved populations. However, their effectiveness and sustainability require rigorous evaluation. A mixed-methods approach was employed, including quantitative surveys ( $n=500$ )  $\wedge$  *qualitative interviews* ( $n=50$ ). The study utilised regression analysis to assess the impact of interventions on risk factors. Robust standard errors were applied to account for potential confounders. Regression analysis revealed a significant reduction in healthcare-seeking delays by 24% among surveyed participants compared to baseline, indicating improved community health centre efficiency in facilitating timely access to care. The quasi-experimental design successfully demonstrated the efficacy of community health centres in Tanzania in reducing healthcare-related risks. Future studies should explore scalability and long-term sustainability impacts. Further research is needed to validate findings, particularly in diverse settings and with longer follow-up periods. Implementation strategies focusing on training staff and improving infrastructure are recommended. Community Health Centres, Regression Analysis, Risk Reduction, Tanzania, Quasi-Experimental Design

**Keywords:** *African health geography, community-based interventions, evaluation methodologies, quasi-experimental design, risk assessment, sustainability studies, triangulation methods*

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