



Methodological Assessment and Reliability Evaluation of Community Health Centre Systems in Tanzania Using Difference-in-Differences Models

Sakila Kunda¹, Kamanda Muhire¹, Simba Saita^{2,3}, Mashika Nyawo^{1,4}

¹ Ardhi University, Dar es Salaam

² Department of Public Health, State University of Zanzibar (SUZA)

³ Tanzania Commission for Science and Technology (COSTECH)

⁴ State University of Zanzibar (SUZA)

Published: 01 July 2012 | **Received:** 29 February 2012 | **Accepted:** 22 May 2012

Correspondence: skunda@hotmail.com

DOI: [10.5281/zenodo.18944796](https://doi.org/10.5281/zenodo.18944796)

Author notes

Sakila Kunda is affiliated with Ardhi University, Dar es Salaam and focuses on Medicine research in Africa.

Kamanda Muhire is affiliated with Ardhi University, Dar es Salaam and focuses on Medicine research in Africa.

Simba Saita is affiliated with Department of Public Health, State University of Zanzibar (SUZA) and focuses on Medicine research in Africa.

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

Abstract

Community health centres in Tanzania are crucial for delivering healthcare services to underserved populations. A systematic review was conducted, focusing on empirical studies that utilised difference-in-differences models to evaluate community health centres in Tanzania. The analyses were robust, accounting for potential confounders such as baseline differences and time-varying covariates. The difference-in-differences model revealed a significant improvement in service delivery metrics post-intervention (effect $\hat{\tau} + 15\%$, $p < 0.05$), suggesting enhanced system reliability. This study underscores the effectiveness of using difference-in-differences models for assessing community health centre systems' reliability, providing valuable insights for policy makers and healthcare planners. Future research should explore longitudinal data to better understand long-term system performance and consider incorporating additional qualitative assessments. Community Health Centres, Difference-in-Differences Model, Reliability Assessment, Tanzania

Keywords: Tanzania, Geographic Medicine, Difference-in-Differences, Quantitative Methods, Public Health Systems, Randomized Control Trials, Spatial Analysis

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge