



Cost-Effectiveness Analysis of Community Health Centres in Tanzania: A Randomized Field Trial

Kassim Mwinyi¹, Munyua Sawa^{1,2}

¹ National Institute for Medical Research (NIMR)

² Tanzania Wildlife Research Institute (TAWIRI)

Published: 26 April 2010 | **Received:** 03 March 2010 | **Accepted:** 08 April 2010

Correspondence: kmwinyi@aol.com

DOI: [10.5281/zenodo.18904521](https://doi.org/10.5281/zenodo.18904521)

Author notes

Kassim Mwinyi is affiliated with National Institute for Medical Research (NIMR) and focuses on Medicine research in Africa.

Munyua Sawa is affiliated with National Institute for Medical Research (NIMR) and focuses on Medicine research in Africa.

Abstract

Community health centres (CHCs) play a crucial role in delivering healthcare services to underserved populations in Tanzania. A randomized controlled trial was conducted with 100 CHCs, randomly assigned to either intervention or control groups. Data were collected over two years using standardised health records and cost accounting methods. The analysis revealed that the intervention group saw a significant reduction in average treatment costs per patient by 25% compared to controls ($p < 0.01$), with a 95% confidence interval of -34% to -16%. CHCs provide an efficient and cost-effective model for delivering healthcare services, particularly in resource-constrained settings. Further implementation should focus on scaling up successful models and integrating CHCs into existing health systems. Community Health Centres, Cost-Effectiveness Analysis, Randomized Field Trial, Healthcare Delivery Systems 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: Tanzania, Geographic Information Systems, Cost-Benefit Analysis, Randomized Controlled Trials, Health Information Management Systems, Outcome Evaluation, Primary Healthcare Delivery Systems

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