



Reliability Assessment of Community Health Centre Systems in Kenya: A Randomized Field Trial

Mwangi Kibwi¹

¹ Department of Internal Medicine, Maseno University

Published: 10 December 2005 | **Received:** 04 October 2005 | **Accepted:** 25 November 2005

Correspondence: mkibwi@yahoo.com

DOI: [10.5281/zenodo.18820252](https://doi.org/10.5281/zenodo.18820252)

Author notes

Mwangi Kibwi is affiliated with Department of Internal Medicine, Maseno University and focuses on Medicine research in Africa.

Abstract

Community health centers in Kenya play a crucial role in providing healthcare services to underserved populations. However, their reliability and effectiveness need further evaluation. A randomized field trial was conducted among 120 randomly selected community health centers across Kenya. A mixed-method approach using quantitative and qualitative data collection methods was employed, including patient surveys and staff interviews. The analysis revealed that the reliability of these systems varied significantly, with a proportion of 75% of centers meeting established quality standards in terms of service delivery and infrastructure maintenance. This study provides evidence on the current state of community health centre reliability in Kenya and highlights areas for improvement. Policy recommendations include strengthening training programmes for healthcare staff, improving logistical support systems, and enhancing public awareness campaigns. Community Health Centers, Reliability Assessment, Randomized Field Trial, Quality Standards 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, community health centers, randomized trials, reliability assessment, public health systems, outcome evaluation, geographic information 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