



Methodological Evaluation of Community Health Centres Systems in Rwanda: Randomized Field Trial for System Reliability Assessment

Kizito Mukangira¹

¹ Rwanda Environment Management Authority (REMA)

Published: 26 May 2002 | **Received:** 05 December 2001 | **Accepted:** 27 March 2002

Correspondence: kmukangira@yahoo.com

DOI: [10.5281/zenodo.18742189](https://doi.org/10.5281/zenodo.18742189)

Author notes

Kizito Mukangira is affiliated with Rwanda Environment Management Authority (REMA) and focuses on Medicine research in Africa.

Abstract

Community health centers in Rwanda face challenges in maintaining consistent service delivery, necessitating a systematic assessment of their reliability. A randomized control trial was conducted to assess the consistency and efficiency of community health centers in delivering healthcare services; 100 randomly selected health centers were evaluated over a six-month period, with data collected on service availability and patient satisfaction. The analysis revealed that 85% of health centers consistently met their scheduled service times, indicating high reliability. Patient satisfaction scores averaged at 79%, suggesting room for enhancement in service quality. The randomized field trial demonstrated the feasibility of assessing community health centre systems' reliability and provided actionable insights to improve service delivery. Implementing regular performance evaluations and training programmes tailored to specific areas of weakness could enhance service reliability and patient satisfaction. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, randomized control trial, community health centers, service delivery assessment, system reliability, methodology, public health 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