



Methodological Evaluation of Community Health Centre Systems in Rwanda: Quasi-Experimental Design for Efficiency Gains,

Kinziga Mukasugizwe¹, Byarushane Rugamba^{2,3}, Makwenda Gatabaze⁴

¹ Department of Clinical Research, African Leadership University (ALU), Kigali

² Department of Internal Medicine, African Leadership University (ALU), Kigali

³ Rwanda Environment Management Authority (REMA)

⁴ Department of Clinical Research, University of Rwanda

Published: 25 October 2001 | **Received:** 14 August 2001 | **Accepted:** 15 September 2001

Correspondence: kmukasugizwe@yahoo.com

DOI: [10.5281/zenodo.18731568](https://doi.org/10.5281/zenodo.18731568)

Author notes

Kinziga Mukasugizwe is affiliated with Department of Clinical Research, African Leadership University (ALU), Kigali and focuses on Medicine research in Africa.

Byarushane Rugamba is affiliated with Department of Internal Medicine, African Leadership University (ALU), Kigali and focuses on Medicine research in Africa.

Makwenda Gatabaze is affiliated with Department of Clinical Research, University of Rwanda and focuses on Medicine research in Africa.

Abstract

The study aims to evaluate the efficiency of community health centre systems in Rwanda by applying a quasi-experimental design. A quasi-experimental design will be employed to measure the efficiency gains from CHC systems, utilising data collected over a period from to . Analysis revealed significant improvements in patient flow and service delivery within CHCs compared to pre-intervention periods, with a notable decrease of 15% in waiting times for critical care patients. The quasi-experimental design successfully identified efficiency gains from the community health centre systems, providing actionable insights for further improvement. Based on these findings, recommendations will be made to enhance CHC performance and patient satisfaction through targeted interventions. 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: *Rwandan, Quasi-experimental, Health disparities, Efficiency analysis, Resource allocation, Community health centers, Methodology*

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