



# Methodological Assessment of Community Health Centre Systems in Uganda Using Panel Data for Cost-Effectiveness Evaluations

Osiano Bakari<sup>1</sup>

<sup>1</sup> Gulu University

**Published:** 13 January 2008 | **Received:** 28 October 2007 | **Accepted:** 01 December 2007

**Correspondence:** [obakari@yahoo.com](mailto:obakari@yahoo.com)

**DOI:** [10.5281/zenodo.18863683](https://doi.org/10.5281/zenodo.18863683)

## Author notes

*Osiano Bakari is affiliated with Gulu University and focuses on Medicine research in Africa.*

## Abstract

Community health centers in Uganda face challenges in delivering effective healthcare services. Panel-data estimation was employed to evaluate the operational efficiency and cost-effectiveness of community health centers, addressing potential biases due to temporal correlation within subjects. The analysis revealed that community health centers in rural areas served approximately 80% of their target population with a significant reduction in healthcare costs per capita compared to urban settings. The study provides evidence supporting the efficiency and cost-effectiveness of community health centre systems in Uganda, particularly in rural regions, offering insights for policy development. Further research should focus on improving service delivery and resource allocation strategies to enhance overall healthcare outcomes. 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, cost-effectiveness, econometrics, panel data analysis, health system evaluation, resource allocation, service delivery improvements*

## 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](mailto: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](http://app.parj.africa)



Scan to visit [app.parj.africa](http://app.parj.africa)

**Open Access Scholarship from PARJ**

Empowering African Research | Advancing Global Knowledge