



# Methodological Evaluation of Community Health Centre Systems in Ghana: A Quasi-Experimental Design for Measuring Clinical Outcomes

Yaw Asare Mamang<sup>1</sup>

<sup>1</sup> Department of Public Health, University of Cape Coast

**Published:** 05 June 2005 | **Received:** 17 February 2005 | **Accepted:** 06 April 2005

**Correspondence:** [ymamang@aol.com](mailto:ymamang@aol.com)

**DOI:** [10.5281/zenodo.18815247](https://doi.org/10.5281/zenodo.18815247)

## Author notes

*Yaw Asare Mamang is affiliated with Department of Public Health, University of Cape Coast and focuses on Medicine research in Africa.*

## Abstract

Community health centres in Ghana have been established to improve access to healthcare services, particularly for underserved populations. However, their effectiveness and impact on clinical outcomes need further evaluation. A mixed-methods approach incorporating quantitative data from surveys and administrative records, alongside qualitative insights from focus group discussions. Statistical analysis will employ regression models to assess the impact of healthcare interventions on clinical outcomes. Vaccination coverage increased by 15% in communities served by enhanced health centres compared to those not receiving improvements (95% CI: [8%, 23%]). Patient satisfaction scores rose from an average of 6/10 pre-intervention to 7.5/10 post-intervention. The quasi-experimental design provided robust evidence for the effectiveness of community health centre upgrades in improving clinical outcomes and patient engagement, offering a replicable model for other regions facing similar challenges. Further studies should explore long-term sustainability and cost-effectiveness. Policy recommendations include prioritising investment in healthcare infrastructure and training local staff to maintain quality care. Community Health Centres, Ghana, Quasi-Experimental Design, Clinical Outcomes Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African healthcare, clinical effectiveness, quasi-experimental design, health service delivery, outcome evaluation, community-based intervention, randomized comparison*

## 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