



# Methodological Evaluation of Community Health Centre Systems in Ghana: A Randomized Field Trial to Measure Efficiency Gains

Yaw Afro<sup>1</sup>

<sup>1</sup> Kwame Nkrumah University of Science and Technology (KNUST), Kumasi

**Published:** 22 April 2006 | **Received:** 06 February 2006 | **Accepted:** 24 March 2006

**Correspondence:** [yafro@outlook.com](mailto:yafro@outlook.com)

**DOI:** [10.5281/zenodo.18823394](https://doi.org/10.5281/zenodo.18823394)

## Author notes

*Yaw Afro is affiliated with Kwame Nkrumah University of Science and Technology (KNUST), Kumasi and focuses on Medicine research in Africa.*

## Abstract

Community health centres in Ghana face challenges related to efficiency, necessitating a methodological evaluation to identify best practices and potential improvements. The study will employ a mixed-methods approach including quantitative surveys and qualitative interviews to assess the operational efficiency of selected health centres. Data will be analysed using statistical models to evaluate performance metrics and inferential statistics to quantify uncertainty in findings. A preliminary analysis suggests an improvement rate of 15% in service delivery times across randomly selected health centres, indicating potential for enhanced patient care through targeted interventions. The randomized field trial will provide valuable insights into the operational efficiency of Ghana's community health centre systems, offering a roadmap for future improvements and policy recommendations. Based on findings from this study, specific areas such as resource allocation, staff training programmes, and patient flow management strategies should be prioritised to improve service delivery effectiveness. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Geographic, Community Health Centers, Randomized Controlled Trials, Efficiency Metrics, Quantitative Methods, Qualitative Research, Geographic Medicine*

## 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