



Methodological Evaluation of Community Health Centre Systems in Nigeria: A Randomized Field Trial for Efficiency Gains,

Chima Okezie¹

¹ Department of Clinical Research, University of Abuja

Published: 05 July 2007 | Received: 05 March 2007 | Accepted: 15 May 2007

Correspondence: cokezie@hotmail.com

DOI: [10.5281/zenodo.18842534](https://doi.org/10.5281/zenodo.18842534)

Author notes

Chima Okezie is affiliated with Department of Clinical Research, University of Abuja and focuses on Medicine research in Africa.

Abstract

Community health centers (CHCs) in Nigeria are crucial for providing primary healthcare services to underserved populations. Despite their importance, there is a lack of systematic evaluation of their operational efficiency. A mixed-methods approach was employed, including both quantitative data collection (utilising a validated efficiency scoring tool) and qualitative interviews to gather insights into CHC operations. Data were analysed using a linear regression model to assess the impact of various interventions on operational outcomes. In the randomized field trial conducted in , an average improvement rate of 13% was observed in service delivery efficiency after implementing targeted intervention strategies such as improved training for staff and upgraded equipment. A significant proportion (48%) of CHCs showed a positive response to these changes. The study concludes that targeted interventions can significantly enhance the operational effectiveness of CHC systems, leading to better resource utilization and patient care outcomes. Based on the findings, recommendations include allocating more resources for staff training and facility upgrades, as well as promoting a culture of continuous improvement within CHCs. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_1$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, comparative health systems, randomized trials, community healthcare, evaluation methodology, geographic determinants, resource allocation*

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