



# Methodological Evaluation of Community Health Centre Systems in Ghana: A Randomized Field Trial for Clinical Outcomes Assessment

Kofi Boakye<sup>1</sup>, Frimpong Agyeiwoor<sup>2,3</sup>, Yaw Gyamfi<sup>1</sup>

<sup>1</sup> University of Ghana, Legon

<sup>2</sup> Department of Pediatrics, Ashesi University

<sup>3</sup> Department of Clinical Research, University of Ghana, Legon

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**Correspondence:** [kboakye@gmail.com](mailto:kboakye@gmail.com)

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## Author notes

*Kofi Boakye is affiliated with University of Ghana, Legon and focuses on Medicine research in Africa.*

*Frimpong Agyeiwoor is affiliated with Department of Pediatrics, Ashesi University and focuses on Medicine research in Africa.*

*Yaw Gyamfi is affiliated with University of Ghana, Legon and focuses on Medicine research in Africa.*

## Abstract

Community health centers in Ghana are essential for providing accessible healthcare services to underserved populations. However, their effectiveness and efficiency vary widely across different regions. A stratified random sampling approach was employed to select 10 out of 25 community health centers. A mixed-methods design incorporating quantitative and qualitative data collection methods was utilised. In the intervention group, an improvement in patient satisfaction scores was observed with a mean increase of 15% (95% CI: [8%, 23%]) compared to baseline levels. The randomized field trial provided preliminary evidence on the effectiveness of community health centers in improving clinical outcomes and enhancing patient experience. Further research should explore the scalability and sustainability of these findings across different geographical regions and socio-economic contexts. 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:** *Community health centers, Ghana, Randomized controlled trial, Outcome assessment, Community-based intervention, Methodology, Public health effectiveness*

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