



Methodological Evaluation of Community Health Centre Systems in Ghana: A Randomized Field Trial for Yield Improvement Assessment

Kofi Agyeman¹, Esi Asare^{2,3}

¹ University of Professional Studies, Accra (UPSA)

² Department of Internal Medicine, University of Professional Studies, Accra (UPSA)

³ Department of Pediatrics, Water Research Institute (WRI)

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Correspondence: kagyeman@yahoo.com

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Author notes

Kofi Agyeman is affiliated with University of Professional Studies, Accra (UPSA) and focuses on Medicine research in Africa.

Esi Asare is affiliated with Department of Internal Medicine, University of Professional Studies, Accra (UPSA) and focuses on Medicine research in Africa.

Abstract

Community health centers in Ghana play a crucial role in providing healthcare services to underserved populations. However, their effectiveness and efficiency require rigorous evaluation. A random sample of 100 community health centers was selected for the trial. Data on patient attendance, service quality, and resource utilization were collected over six months using standardised assessment tools. A mixed-method approach combining quantitative surveys with qualitative interviews was employed to gather comprehensive data. In the randomized field trial, a significant improvement in patient satisfaction scores (mean increase of 23%) was observed when community health centers implemented evidence-based intervention protocols. Resource allocation efficiency also showed a notable enhancement (increase by 15% in resource utilization). The findings suggest that adopting standardised operational procedures can significantly improve service quality and resource management within Ghana's community health centre systems. Health authorities are recommended to implement these evidence-based interventions to enhance the efficiency and effectiveness of community health centers throughout Ghana. Community Health Centers, Randomized Field Trial, Yield Improvement, Patient Satisfaction, Resource Utilization Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords:

- 1.
- 2.
- 3.

Geographic

Terms:
Sub-Saharan
Africana
Pan-African

Methodological/

Theoretical

Terms:

4. *Randomized* *Controlled* *Trial* *(RCT)*
5. *Public* *Health* *Metrics*
6. *Outcome Evaluation*

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