



Methodological Evaluation of Ghanaian Community Health Centres Systems Through Randomized Field Trial

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Abstract

Community health centres in Ghana are crucial for providing basic healthcare services to underserved populations. However, their effectiveness and efficiency have not been systematically evaluated. A randomized field trial will be conducted across selected communities. Data on service delivery, patient outcomes, and resource utilization will be collected using standardised tools. Statistical analysis will employ linear regression models with robust standard errors to assess the impact of interventions on health outcomes. The preliminary findings suggest a positive correlation between improved healthcare access and patient satisfaction rates, indicating that targeted interventions can enhance service delivery efficiency. This study highlights the potential for systematic improvements in community health centre operations through evidence-based intervention strategies. Based on the results, recommendations will be provided to policymakers and healthcare providers for enhancing service provision and resource allocation within Ghana's community health network. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Community health centers, Ghana, randomized controlled trial, evaluation methodology, community participation, outcome measurement, service delivery assessment*

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