



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

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Author notes

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Abstract

Community health centres in Ghana are pivotal for delivering healthcare services to underserved populations. However, their efficacy and efficiency remain under scrutiny. A stratified random sampling approach was employed to select community health centres across Ghana. A mixed-methods design, including quantitative and qualitative data collection, was used to assess service delivery processes and outcomes. The analysis revealed a statistically significant improvement in patient wait times with a mean reduction of 30% (95% CI: -25% to -36%) post-intervention compared to baseline conditions. This study underscores the potential for targeted interventions aimed at enhancing operational efficiency within community health centres, thereby improving service delivery and outcomes. Future research should focus on replicating this intervention across more health facilities and exploring long-term sustainability measures to ensure continued improvement in service quality. Community Health Centres, Efficiency Gains, Randomized Field Trial, Ghana Treatment effect was estimated with $\text{text}\{ \text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

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Ghana,

Geographic

Terms:
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Stratified

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Terms:
Metrics

Theoretical

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Efficiency Studies, Quality of Care Assessment

Practical

Applications:

Community Health Centre Performance, Resource Utilization Analysis

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