



Methodological Evaluation of Community Health Centre Systems in Ghana: A Randomized Field Trial on Adoption Rates

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Abstract

Community health centres (CHCs) play a crucial role in healthcare delivery in Ghana, yet their effectiveness and adoption rates are not well understood. A randomized field trial was conducted with three treatment arms: standard CHCs, enhanced CHCs (with additional resources), and control groups. Data on community engagement and service utilization were collected over six months. Enhanced CHCs showed a significant increase in adoption rates by 25% compared to the baseline, indicating that targeted interventions can substantially improve community uptake of health services. The randomized field trial demonstrated the feasibility and effectiveness of using CHCs as a platform for healthcare delivery in Ghana. Future studies should consider scaling up enhanced CHCs with additional resources and support to maximise their impact on service adoption and patient outcomes. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_p$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, randomized controlled trial, health systems, implementation science, geographic information systems, community engagement, outcome measurement*

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