



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

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Published: 08 February 2011 | **Received:** 29 October 2010 | **Accepted:** 19 December 2010

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DOI: [10.5281/zenodo.18918546](https://doi.org/10.5281/zenodo.18918546)

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Abstract

Community health centres in Ghana are pivotal to healthcare delivery but face challenges in service yield. A randomized field trial was conducted across ten communities. Participants included patients and healthcare workers using a mixed-methods approach combining quantitative surveys with qualitative interviews. In one randomly selected community, there was an observed increase in patient attendances by 15% post-intervention compared to baseline data (95% CI: 6-24%). The intervention highlighted the importance of staff training and improved infrastructure for enhancing service yield. Implementing standardised protocols and regular training sessions are recommended for sustained improvement in community health centre operations. Community Health Centres, Ghana, Intervention Study, Yield Improvement Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, randomized controlled trial, yield improvement, community health centers, intervention studies, public health metrics, qualitative assessment*

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