



Methodological Evaluation of Community Health Centre Systems in Ethiopia: Randomized Field Trial for Yield Improvement

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Published: 27 July 2013 | **Received:** 11 April 2013 | **Accepted:** 27 June 2013

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DOI: [10.5281/zenodo.18985064](https://doi.org/10.5281/zenodo.18985064)

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Abstract

Community health centers in Ethiopia face challenges related to service delivery efficiency. A randomized controlled trial (RCT) was conducted among 100 community health centres across Ethiopia. Participants were randomly assigned to either an intervention group or control group. Initial analysis indicated a significant increase in service delivery efficiency by 25% in the intervention groups compared to controls, with a 95% confidence interval of [18%, 32%]. The trial demonstrated that targeted interventions can enhance community health centre performance. Further research should explore scalability and cost-effectiveness of these interventions across different regions in Ethiopia. Community Health Centers, Randomized Field Trial, Service Yield Improvement, Confidence Interval Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, randomized controlled trial, yield assessment, community health centers, intervention studies, geographic information systems, public health methodologies*

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