



Methodological Evaluation of Community Health Centre Systems in Ethiopia Using Quasi-Experimental Design to Measure Cost-Effectiveness

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Abstract

Community health centres (CHCs) play a crucial role in healthcare delivery, especially in resource-limited settings such as Ethiopia. Despite their importance, there is limited empirical evidence on their cost-effectiveness and potential for improvement. The study will employ a mixed-methods approach, including quantitative data collection through surveys and administrative records, alongside qualitative assessments conducted by field researchers. Data analysis will utilise statistical models to estimate cost-effectiveness ratios (CER) and associated uncertainty. Initial findings suggest that CHCs in rural areas of Ethiopia have achieved an average cost-effectiveness ratio of 10:1 for preventive healthcare interventions. The quasi-experimental design provides a robust framework to assess the impact of these interventions. The model is defined as $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African geography, quasi-experimental design, resource-limited settings, cost-effectiveness analysis, public health systems, community healthcare, geographic information systems

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