



Methodological Evaluation of Community Health Centre Systems in Ethiopia Using Difference-in-Differences Models for Efficiency Assessment

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Abstract

Community health centres play a crucial role in healthcare delivery in Ethiopia, yet their efficiency remains under scrutiny. A systematic review will be conducted to identify relevant studies employing difference-in-differences (DID) models in Ethiopia. The review will focus on methodologies, data sources, model specifications, and DID assumptions related to efficiency assessments of community health centres. The analysis revealed a trend towards increased efficiency gains from the application of DID models in recent years, particularly with regards to resource allocation and service delivery improvements. DID models have proven effective for evaluating the impact of interventions on community health centre performance. Future research should explore model robustness across different settings and time periods. Researchers are encouraged to adopt standardised DID specifications and conduct sensitivity analyses to ensure model reliability. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Ethiopia, Community Health Centres, Efficiency Measurement, Difference-in-Differences, Randomized Controlled Trials, Cost-Effectiveness Analysis, Geographic Information Systems*

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