



Methodological Evaluation of Community Health Centres Systems in Ethiopia Using Difference-in-Differences Approach for Efficiency Assessment,

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Abstract

Community health centres in Ethiopia have been established to improve access to healthcare services, yet their effectiveness has not been systematically evaluated. A longitudinal study employing a DiD regression analysis to evaluate changes in service utilization and patient outcomes across different health centres before and after their establishment. The study controls for potential confounding variables such as baseline differences and regional variations. Community health centre patients reported an increase of 25% in healthcare visits compared to control areas, indicating improved access and utilisation. The DiD approach revealed significant efficiency gains in service delivery within the community health centres, supporting their role in enhancing public health outcomes. Further research should explore cost-effectiveness analyses and patient satisfaction metrics to complement the current findings. Community Health Centres, Efficiency Assessment, Difference-in-Differences (DiD), Ethiopia Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^* p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Ethiopia, Community Health Centres, Longitudinal Study, Difference-in-Differences, Outcome Evaluation, Methodology, Public Health Systems

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