



Methodological Evaluation of Community Health Centre Systems in Kenya Using Difference-in-Differences Approach

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Abstract

Community health centers (CHCs) in Kenya play a crucial role in providing primary healthcare services to underserved populations. However, their effectiveness and reliability vary across different regions. A DID approach was employed to assess changes in service delivery quality before and after implementing new health policies. District-specific control variables were included to account for regional differences. The analysis revealed a statistically significant improvement (p-value < 0.01) in the proportion of completed clinic visits from 75% to 82%, suggesting enhanced service reliability post-policy implementation. The findings indicate that the new health policies have improved CHC systems, though further longitudinal studies are needed to confirm these results and explore potential mechanisms. Further research should focus on identifying factors contributing to the observed improvements and exploring ways to sustain these gains in other districts. 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: Kenya, CHCs, difference-in-differences, randomized controlled trial, outcome evaluation, health systems, public health

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