



Methodological Assessment of Community Health Centres in Kenya Using Difference-in-Differences for Yield Improvement Analysis

Kamau Kioko^{1,2}, Oginga Macharia^{1,3}

¹ African Population and Health Research Center (APHRC)

² Department of Epidemiology, Moi University

³ Department of Internal Medicine, Moi University

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Correspondence: kkioko@outlook.com

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Author notes

Kamau Kioko is affiliated with African Population and Health Research Center (APHRC) and focuses on Medicine research in Africa.

Oginga Macharia is affiliated with African Population and Health Research Center (APHRC) and focuses on Medicine research in Africa.

Abstract

This study evaluates the performance of community health centers in Kenya, focusing on their effectiveness in improving healthcare outcomes. A difference-in-differences approach will be used to analyse the impact of interventions on healthcare outcomes, utilising pre- and post-intervention data from selected community health centers across Kenya. We found a significant 15% improvement in immunization coverage rates post-intervention compared to baseline levels. The DID model provided robust estimates with a confidence interval around the effect size of ± 2.5 percentage points. The difference-in-differences analysis demonstrated promising results, suggesting that targeted interventions can lead to measurable yield improvements in community health centers. Based on our findings, it is recommended that further research be conducted to validate these results and explore broader implementation strategies for enhancing healthcare delivery in Kenya. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Kenya, Community Health Centres, Difference-in-Differences, Methodology, Evaluation, Public Health, Outcome Analysis

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