



Methodological Evaluation of Community Health Centre Systems in Kenya Using Difference-in-Differences Models for Risk Reduction Measurement

Omondi Kiprop^{1,2}, Mwenda Ochieng²

¹ Technical University of Kenya

² Department of Epidemiology, Jomo Kenyatta University of Agriculture and Technology (JKUAT)

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Correspondence: okiprop@yahoo.com

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Author notes

Omondi Kiprop is affiliated with Technical University of Kenya and focuses on Medicine research in Africa. Mwenda Ochieng is affiliated with Department of Epidemiology, Jomo Kenyatta University of Agriculture and Technology (JKUAT) and focuses on Medicine research in Africa.

Abstract

Community health centers in Kenya have been established to improve access to healthcare services, particularly for underserved populations. A systematic literature review was conducted, involving a comprehensive search across databases focusing on studies from Kenya that utilised difference-in-differences models to measure risk reduction. The analysis revealed a significant reduction ($p < 0.05$) in the incidence of malaria among children who accessed services through community health centres compared to those in control groups, indicating effective intervention strategies. Community health centre systems have shown promise in reducing health risks, particularly for vector-borne diseases such as malaria. Further research should explore scalability and sustainability of these models across different geographical settings and populations. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African geography, community health centers, difference-in-differences, randomized controlled trials, statistical methods, public health, intervention effectiveness

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