



Methodological Evaluation of Maternal Care Facilities Systems in Kenya Using Difference-in-Differences for Clinical Outcome Assessment

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Abstract

This study addresses a current research gap in Medicine concerning Methodological evaluation of maternal care facilities systems in Kenya: difference-in-differences model for measuring clinical outcomes in Kenya. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Methodological evaluation of maternal care facilities systems in Kenya: difference-in-differences model for measuring clinical outcomes, Kenya, Africa, Medicine, original research This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $text\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Kenya, Maternal Health, Care Facilities, Methodology, Difference-in-Differences, Clinical Outcomes, Public Health

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