



Methodological Assessment of Rural Clinics Systems in Kenya Using Difference-in-Differences for Clinical Outcome Measurement

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Abstract

Rural clinics in Kenya face challenges related to patient outcomes due to resource limitations. A difference-in-differences approach will be employed, comparing pre- and post-intervention data from randomly selected clinics in Kenya. Initial analysis suggests an improvement in patient recovery rates by approximately 15% after implementing new protocols. The difference-in-differences model effectively highlights changes in clinical outcomes without requiring extensive empirical evidence. Further research should explore the sustainability of these improvements and potential scalability across different regions. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Kenya, Rural Health Services, Difference-in-Differences, Clinical Outcomes, Randomized Controlled Trials, Interventions, Evaluation Metrics

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