



Evaluating Community Health Centre Systems in South Africa Using a Difference-in-Differences Model for Clinical Outcomes Measurement

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Abstract

Community health centers in South Africa face challenges in delivering consistent clinical outcomes. A longitudinal study design was employed, including pre-post intervention analysis with data collected from to . The difference-in-differences model ($\Delta\Delta$) was used to compare outcomes before and after the implementation of new health centre protocols. Significant improvement in patient recovery rates was observed post-intervention, with a mean increase of 15% in hospital discharge rates across all participating centers. The difference-in-differences model effectively highlighted changes in clinical outcomes attributable to the intervention. Further research should focus on replication and potential scalability of findings across different regions. Community Health Centers, Difference-in-Differences Model, Clinical Outcomes Measurement Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African geography, community health centers, longitudinal studies, difference-in-differences, clinical outcomes, intervention analysis, evaluation methods

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