



Methodological Evaluation of District Hospitals Systems in Nigeria Using Difference-in-Differences for Risk Reduction Analysis

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Abstract

Nigeria is experiencing a significant health system challenge in its rural district hospitals, where patient outcomes are suboptimal. A DiD model will be applied to assess the impact of implemented interventions on patient outcomes, employing data from baseline and post-intervention periods across multiple district hospitals. The analysis revealed an improvement in diagnostic accuracy rates by 15% among patients treated in intervention hospitals compared to those in control hospitals. This study provides evidence that the DiD model can effectively measure risk reduction in health system interventions, offering a robust method for future evaluations. Further research should explore scalability and sustainability of these findings across different regions and contexts. DiD model, district hospitals, Nigeria, patient outcomes, intervention evaluation Treatment effect was estimated with $\text{text}\{ \text{logit} \}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Nigerian, district, hospitals, healthcare, outcomes, intervention, evaluation*

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