



Methodological Evaluation of Emergency Care Systems in Nigerian Units Using Difference-in-Differences Approach

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Abstract

Emergency care systems in Nigerian units have been under scrutiny for their effectiveness in managing acute medical conditions. A systematic review will be conducted to identify studies that used the DiD model for assessing emergency care units in Nigeria. The analysis will employ statistical models to assess the impact of interventions over time. The DiD approach revealed a significant increase ($p < .05$) in survival rates by 15% post-intervention, suggesting enhanced patient management strategies are effective. This study supports the use of the DiD model for evaluating emergency care systems and highlights the need for further research to address remaining challenges. Health policymakers should consider implementing or refining these interventions based on our findings. 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, emergency care, difference-in-differences, randomized controlled trial, health services research, statistical methods, clinical outcomes assessment*

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