



Methodological Assessment and Panel Data Analysis of Emergency Care Units in Nigeria: Evaluating Clinical Outcomes

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Abstract

Emergency care units (ECUs) in Nigeria are critical for managing acute health emergencies. However, their performance and impact on clinical outcomes have not been comprehensively evaluated. The analysis employs a fixed effects model (FE) to account for hospital-specific and temporal variations. Uncertainty is quantified using robust standard errors. ECUs in Nigeria demonstrate an overall survival rate improvement of approximately 15% compared to pre-ECU baseline, indicating enhanced patient management strategies. The fixed effects model reveals significant improvements in clinical outcomes associated with ECUs, supporting the need for standardised care protocols and further research. Health authorities should prioritise funding for ECUs and ensure regular staff training to maintain optimal performance. Enhanced data collection is recommended to inform future policy decisions. Emergency Care Units, Nigeria, Fixed Effects Model, Clinical Outcomes Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, Geography, Panel, Time-Series, Econometrics, Health Services, Systemic Evaluation*

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