



Methodological Evaluation of Emergency Care Units Systems in Nigerian Hospitals: A Quasi-Experimental Study of Clinical Outcomes,

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Published: 25 July 2001 | **Received:** 27 February 2001 | **Accepted:** 27 June 2001

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DOI: [10.5281/zenodo.18727140](https://doi.org/10.5281/zenodo.18727140)

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Abstract

Emergency care units (ECUs) in Nigerian hospitals play a critical role in managing acute medical conditions. However, their effectiveness and efficiency remain under-studied. A mixed-methods approach was employed, including quantitative data analysis on patient outcomes and qualitative interviews with healthcare providers. The study utilised a pre-post comparison design across two hospitals in Nigeria over one year. ECU systems showed an improvement in clinical outcomes for patients presenting with respiratory distress syndrome (RDS) compared to historical controls ($p < 0.05$). The quasi-experimental design demonstrated that ECUs enhanced patient care, particularly in cases of RDS. Further research should be conducted to validate these findings and explore the impact on other acute conditions. Emergency Care Units, Quasi-Experimental Design, Clinical Outcomes, Nigeria Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Nigerian, emergency medicine, quasi-experimental, outcome measurement, healthcare delivery, clinical outcomes, resource allocation

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