



Methodological Assessment of Emergency Care Systems in Nigerian Units: A Quasi-Experimental Approach to Clinical Outcome Measurement

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Published: 22 December 2001 | **Received:** 24 July 2001 | **Accepted:** 08 November 2001

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DOI: [10.5281/zenodo.18729946](https://doi.org/10.5281/zenodo.18729946)

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Abstract

Emergency care systems in Nigerian units are crucial for managing acute medical emergencies efficiently. However, there is a need to evaluate their effectiveness and methodological rigor. A comprehensive search strategy was employed across multiple databases. Studies were included if they utilised quasi-experimental designs for measuring clinical outcomes in emergency care units. Methodological rigor and validity of the studies were evaluated using predefined criteria. The analysis revealed that while some studies used rigorous statistical models, others lacked robust control groups or clear outcome definitions, leading to inconsistencies in results interpretation. This review highlights the need for standardised methodological approaches in emergency care systems to enhance clinical outcomes and ensure reliable data interpretation. Healthcare providers and policymakers should prioritise implementing validated statistical models and ensuring clear protocol frameworks to improve the reliability of clinical outcome measurements. 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, emergency medicine, clinical outcomes measurement, systematic review, qualitative design, validity assessment, quasi-experimental methodology*

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