



Methodological Assessment of Emergency Care Unit Systems in Ghana Using Panel Data for Clinical Outcome Evaluation

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Abstract

Emergency care units (ECUs) in Ghana face significant challenges in providing timely and effective treatment to patients presenting with acute conditions. Panel data was employed to evaluate the effectiveness of ECU systems. Random effects models were used for estimation to account for potential heterogeneity in the data. The analysis revealed that a higher proportion (35%) of patients received timely treatment within an hour compared to those who did not, indicating room for improvement in response times and resource allocation. This study highlights the importance of standardised protocols and continuous quality improvement initiatives in ECUs across Ghana. Implementing evidence-based guidelines and training programmes for healthcare providers is recommended to enhance patient outcomes and reduce waiting times. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^* p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Sub-Saharan, Panel Data, Methodology, Regression Analysis, Health Services Research, Quantitative Methods*

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