



Methodological Evaluation of Emergency Care Units in Senegal: A Quasi-Experimental Study on Clinical Outcomes

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Abstract

Emergency care units (ECUs) in Senegal are critical for managing acute health conditions promptly. However, their effectiveness and efficiency have not been systematically evaluated. A mixed-methods approach was employed including quantitative data analysis from patient records and qualitative interviews with healthcare providers. The study utilised a matched-pair comparison design to ensure comparability between ECU sites. Among the evaluated ECUs, Unit A in Dakar demonstrated significantly better clinical outcomes compared to Units B and C in other regions ($p < 0.05$). The study underscores the need for standardised training programmes and resource allocation strategies across all ECU sites. Immediate implementation of evidence-based guidelines is recommended to enhance patient care and reduce disparities between ECUs. Emergency Care Units, Senegal, Quasi-Experimental Design, Clinical Outcomes Treatment effect was estimated with $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, clinical outcomes, emergency care systems, methodological evaluation, quasi-experimental design, resource allocation, service delivery assessment*

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