



Methodological Evaluation of Emergency Care Systems in Ethiopian Hospitals: A Quasi-Experimental Study on Clinical Outcomes

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Abstract

Emergency care systems in Ethiopian hospitals are crucial for managing acute medical emergencies effectively. A mixed-method approach combining quantitative data analysis with qualitative observations was employed. Data were collected from multiple Ethiopian hospitals over a six-month period, including patient demographics, treatment outcomes, and staff performance metrics. The preliminary findings indicate that the proportion of patients receiving timely interventions within the first hour of arrival at emergency departments is approximately 75%, although this varies by hospital type. This study highlights the need for standardised protocols to improve clinical outcomes in Ethiopian emergency care units, with specific attention required in rural hospitals where patient flow and resource allocation are more challenging. The implementation of evidence-based guidelines and regular training programmes for healthcare staff is recommended to enhance emergency care systems across Ethiopia. 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, clinical outcomes, emergency care, Ethiopia, mixed methods, quasi-experimental design, validity assessment*

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