



Methodological Evaluation of Emergency Care Units Systems in Ethiopian Hospitals: A Randomized Field Trial Approach

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Abstract

Emergency care units (ECUs) in Ethiopian hospitals face challenges in providing timely and effective patient care, leading to suboptimal clinical outcomes. A randomized field trial design was employed to assess the impact of ECU interventions. Data were collected from 12 hospitals across Ethiopia over one year, with statistical analysis using multivariate regression models. The trial revealed a significant improvement in patient survival rates by 30% (95% CI: 15-45%) when ECUs implemented standardised protocols compared to non-standardised units. Standardised ECU systems significantly enhance clinical outcomes, warranting wider implementation across Ethiopian hospitals. Ethiopian health authorities should prioritise the adoption of standardised emergency care practices in all hospital settings. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Ethiopia, Emergency Medicine, Randomized Controlled Trials, Quality Improvement, Outcome Measures, Patient Safety, Clinical Effectiveness

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