



# Methodological Evaluation of Emergency Care Units Systems in Ghana: A Randomized Field Trial

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## Abstract

Emergency care units in Ghana are underutilized, leading to suboptimal clinical outcomes for patients. A randomized field trial was conducted across ten hospitals in Ghana. The study employed a mixed-methods approach, including quantitative data collection via standardised questionnaires and qualitative interviews to assess staff perceptions of the emergency care units. The analysis revealed that patients who received immediate attention had a 20% lower mortality rate compared to those who were delayed in receiving treatment (95% CI: -18.3, -24.7). This study demonstrated the importance of timely intervention in emergency care units and highlighted the need for further infrastructure development. Immediate implementation of standard operating procedures to ensure timely patient care is recommended alongside investment in training staff to improve service delivery. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, African, SocialScience, QualitativeResearch, RandomizedControlledTrial, HealthcareDelivery, SystemsEvaluation*

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