



Methodological Evaluation of Emergency Care Systems in Rwanda: A Randomized Field Trial for Clinical Outcomes Measurement

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Abstract

Emergency care systems in Rwanda are critical for managing acute health crises efficiently. However, their effectiveness is often underreported due to limited methodological rigor. A randomized controlled trial was conducted in eight ECUs across Rwanda, with baseline data collected from January to March . Participants were randomly assigned to either intervention or control groups, and their outcomes assessed over a six-month period using standardised outcome measures. Survival rates improved by 15% (95% CI: 7-24%) in the intervention group compared to controls, indicating enhanced care practices significantly contributed to better patient outcomes. The randomized field trial demonstrated that targeted interventions can improve clinical outcomes in ECUs. Future research should explore scalability and sustainability of these findings across Rwanda's broader healthcare landscape. Implementing the successful intervention strategies observed could be a viable approach for improving emergency care systems globally, with particular focus on resource-limited settings like Rwanda. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Rwandan, Emergency Medicine, Randomization, Quantitative Research, Quality Assessment, Outcome Measurement, Clinical Trials*

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