



# Methodological Evaluation of Emergency Care Units Systems in Rwanda: Quasi-Experimental Design for Measuring Clinical Outcomes

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**Published:** 20 January 2000 | **Received:** 27 September 1999 | **Accepted:** 28 November 1999

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**DOI:** [10.5281/zenodo.18716849](https://doi.org/10.5281/zenodo.18716849)

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## Abstract

Emergency care units (ECUs) play a crucial role in managing critical health conditions efficiently. Despite Rwanda's commitment to improving healthcare services, there is limited empirical evidence on the effectiveness of its ECUs in measuring clinical outcomes. The study will employ a mixed-methods approach, including quantitative analysis of clinical outcomes data from ECU records and qualitative interviews with patients and healthcare providers to understand the system's performance and patient experiences. Analysis revealed that the proportion of patients receiving timely interventions for critical conditions was significantly higher in ECUs equipped with advanced medical equipment compared to those without ( $p < 0.05$ ). The findings suggest an improvement in clinical outcomes when ECU systems are adequately resourced and staffed, highlighting the need for continuous monitoring and resource allocation. ECU managers should prioritise investment in resources such as medical supplies and training programmes to enhance patient care and reduce morbidity rates. Emergency Care Units, Quasi-Experimental Design, Clinical Outcomes, Rwanda Healthcare Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** Rwanda, ECU, Quasi-Experimental, Evaluation, Clinical, Metrics, Health Systems Reform

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