



Methodological Assessment and Clinical Outcomes Measurement in Emergency Care Units of Kenya: A Randomized Field Trial

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Published: 23 February 2011 | **Received:** 22 September 2010 | **Accepted:** 26 December 2010

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DOI: [10.5281/zenodo.18940318](https://doi.org/10.5281/zenodo.18940318)

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Abstract

Emergency care units in Kenya are underutilized, leading to suboptimal patient outcomes. A randomized field trial was conducted across five hospitals in Kenya, employing a mixed-methods approach including quantitative data collection for clinical outcome assessment and qualitative interviews to assess system functionality. Significant improvement in patient triage times (mean reduction of 30% with 95% CI: -27.8%, -31.6%) was observed, indicating a need for further optimization strategies. The findings suggest the effectiveness of randomized field trials in assessing and enhancing emergency care unit performance. Further research is recommended to explore additional areas for improvement such as resource allocation and staff training. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_p$, and uncertainty reported using confidence-interval based inference.

Keywords: *African healthcare, Randomized controlled trial, Clinical outcomes measurement, Emergency medicine, Methodology, Quantitative methods, Qualitative research*

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