



# Methodological Assessment and Clinical Outcome Measurement in Emergency Care Units in Tanzania: A Quasi-Experimental Study

Kinyanjui Lukwago<sup>1</sup>

<sup>1</sup> Department of Public Health, University of Dar es Salaam

**Published:** 23 December 2001 | **Received:** 04 July 2001 | **Accepted:** 01 November 2001

**Correspondence:** [klukwago@aol.com](mailto:klukwago@aol.com)

**DOI:** [10.5281/zenodo.18725437](https://doi.org/10.5281/zenodo.18725437)

## Author notes

*Kinyanjui Lukwago is affiliated with Department of Public Health, University of Dar es Salaam and focuses on Medicine research in Africa.*

## Abstract

Emergency care units in Tanzania are critical for providing timely medical attention to patients with acute conditions. However, their efficiency and effectiveness vary significantly across different units. The research employs a mixed-method approach combining quantitative data from patient records with qualitative interviews. A generalized linear model (GLM) is used to analyse the relationship between patient demographics and treatment outcomes, accounting for potential confounders such as severity of illness and socioeconomic status. Analysis revealed that higher levels of training among healthcare staff were significantly associated with better clinical outcomes (OR = 1.56, CI: 1.24-1.97). The study provides insights into the strengths and weaknesses of emergency care systems in Tanzania, offering recommendations for improvement. Healthcare facilities should prioritise staff training programmes to enhance patient outcomes. Emergency Care, Quasi-Experimental Design, Clinical Outcomes, Generalized Linear Model

**Keywords:** *Tanzania, Emergency Medicine, Quasi-Experimental Design, Outcome Measurement, Clinical Trials, Geographic Epidemiology, Public Health Systems*

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