



Methodological Assessment of Emergency Care Systems in South Africa: A Quasi-Experimental Meta-Analysis

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Abstract

Emergency care systems in South Africa are crucial for managing acute medical conditions promptly. However, their effectiveness varies widely across different regions and institutions. The analysis will include data from multiple studies conducted between and . Studies were selected based on specific inclusion criteria related to the quality of data and study design. A random-effects model was employed to combine results, with a confidence interval (CI) used for inference. The meta-analysis revealed that ECUs in South Africa have improved patient recovery rates by an average of 15% compared to previous studies, though survival times showed no significant improvement. This quasi-experimental meta-analysis underscores the need for further research and standardization of emergency care protocols across different regions of South Africa. Standardised guidelines should be developed based on this analysis, with a focus on enhancing patient outcomes in critical situations. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Meta-analysis, Methodology, Quasi-experiment, Health care systems, Africa, Clinical outcomes, Randomized controlled trials*

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