



Methodological Evaluation of District Hospital Systems in South Africa: A Randomized Field Trial for Clinical Outcomes Assessment

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Abstract

The healthcare landscape in South Africa's district hospitals is characterized by varying levels of service provision and resource allocation, leading to disparities in clinical outcomes. A randomized controlled trial was conducted across ten randomly selected district hospitals. Participants were divided into two groups: intervention (enhanced service delivery) and control (standard care). Data collection included pre- and post-intervention patient outcomes measured using the Glasgow Outcome Scale (GOS). The intervention group showed a statistically significant improvement in GOS scores by an average of 10% with a confidence interval of $\pm 2\%$, indicating better clinical outcomes. This randomized field trial provides robust evidence for the efficacy of enhanced service delivery in district hospitals, demonstrating improvements in patient recovery rates. District hospital managers should consider implementing similar intervention programmes to improve clinical outcomes and resource allocation. district hospitals, clinical outcomes, randomized field trial, Glasgow Outcome Scale Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, QualitativeResearch, RandomizedControlledTrial, Ethics, HealthInequalities, CommunityHealthCenters*

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