



Methodological Evaluation of District Hospitals Systems in Tanzania: A Randomized Field Trial for Risk Reduction Assessment

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Abstract

This study aims to evaluate the operational systems of district hospitals in Tanzania, focusing on their efficiency and effectiveness. A randomized controlled trial design was employed, including baseline assessments, intervention implementation, and follow-up evaluations. Data collection involved structured questionnaires and clinical audits conducted by trained evaluators. The analysis revealed a significant improvement in patient safety protocols (95% confidence interval, CI: [0.85, 1.15]) following the introduction of risk reduction measures. The randomized field trial demonstrated that implementing structured risk reduction strategies can lead to substantial improvements in hospital operational efficiency and patient outcomes. District hospitals should prioritise regular training sessions for staff on new safety protocols and continuous monitoring of implemented practices. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Tanzania, District Hospitals, Randomized Control Trial, Health Systems, Methodology, Risk Assessment, Evaluation*

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