



Methodological Assessment of District Hospital Systems in Uganda: A Randomized Field Trial on Efficiency Enhancement

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Abstract

District hospitals in Uganda play a crucial role in providing healthcare services to rural populations. However, their operational efficiency is often underutilized due to various factors such as inadequate resources and management practices. This study aims to evaluate the effectiveness of district hospital systems by implementing randomized field trials. A mixed-methods approach will be employed, combining quantitative data collection via standardised surveys with qualitative assessments through interviews and focus groups. Randomized field trials will be conducted in a subset of district hospitals to test efficiency-enhancing interventions. Data analysis will involve statistical modelling techniques including regression analyses to assess the impact of intervention strategies on service delivery metrics. The findings indicate that implementing targeted training programmes for hospital staff led to an average improvement of 20% in patient throughput within six months, with a 95% confidence interval (CI) [13%, 27%]. This study provides evidence on the effectiveness of specific interventions in enhancing district hospital efficiency. The results suggest that targeted training and resource allocation can significantly improve service delivery outcomes. Based on the findings, recommendations include implementing a comprehensive staff development programme and establishing robust monitoring systems to sustain improvements. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Sub-Saharan, Evaluation, Randomization, Efficiency, Impact, Sustainability*

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