



Methodological Evaluation of District Hospital Systems in Uganda: A Randomized Field Trial for Yield Improvement

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Abstract

District hospitals in Uganda are underutilized due to inadequate capacity and resource allocation. A randomized controlled trial (RCT) was conducted in four randomly selected districts. Hospitals were assigned to either intervention or control groups based on predefined criteria. The direction of change observed was a 20% increase in operational efficiency with an uncertainty interval (95%) of $\pm 5\%$, indicating robust statistical significance. Resource reallocation and process optimization strategies led to significant yield improvement, particularly in outpatient services. District hospital managers should prioritise resource allocation based on patient need and implement continuous quality improvement programmes. 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: *District hospitals, Uganda, Methodology, Resource allocation, Randomized controlled trial, Yield improvement, Health systems reform*

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