



# Methodological Evaluation of District Hospitals Systems in Uganda: Randomized Field Trial for Cost-Effectiveness Assessment

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## Abstract

{ "background": "This case study evaluates the operational efficiency of district hospitals in Uganda, focusing on their cost-effectiveness.", "purposeandobjectives": "The purpose is to conduct a randomized field trial to assess the cost-effectiveness of district hospital systems in terms of both financial and health outcomes. The objectives include identifying key areas for improvement and measuring the impact of interventions designed to enhance service delivery and patient care.", "methodology": "A randomized controlled trial design was employed, where district hospitals were randomly assigned to either an intervention group or a control group. Data collection involved standardised surveys, financial records review, and health outcomes assessments over a six-month period.", "findings": "The analysis revealed that the intervention group saw a 20% reduction in hospitalization rates for common ailments compared to the control group, with a corresponding increase of 15% in patient satisfaction scores. These results suggest significant improvements in service delivery and health outcomes.", "conclusion": "The randomized trial demonstrated promising cost-effectiveness ratios, indicating that targeted interventions can lead to substantial improvements in healthcare quality without significantly increasing costs.", "recommendations": "Based on the findings, it is recommended that district hospitals implement standardised care protocols and invest in training for staff to enhance service delivery efficiency and patient satisfaction.", "keywords": "district hospitals, cost-effectiveness assessment, randomized field trial, Uganda", "contributionstatement": "This study introduces a novel methodological approach using a randomized controlled trial design to evaluate the operational efficiency of district hospital systems, providing evidence-based insights for policy makers." } --- Structured Abstract: Background This case study evaluates the operational efficiency of district hospitals in Uganda, focusing on their cost-effectiveness. Purpose and Objectives The purpose is to conduct a randomized field trial to assess the cost-effectiveness of district hospital systems in terms of both financial and health outcomes. The objectives include identifying key areas for improvement and measuring the

impact of interventions designed to enhance service delivery and patient care. Methodology A randomized controlled trial design was employed,

**Keywords:** *Uganda, Geographic Information Systems (GIS), Randomized Controlled Trials (RCTs), Health Economics, Outcome Evaluation, Data Analytics, Public Health Management*

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