



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

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## Abstract

District hospitals in Uganda face significant challenges in risk management due to limited resources and inadequate systems. A randomized field trial will be conducted across five districts in Uganda. Participants will include healthcare professionals, patients, and district health managers. Data collection will involve surveys, observations, and interviews to assess current systems and identify risk factors. Statistical analysis will employ a logistic regression model to evaluate the effectiveness of interventions. Survey data showed that over 70% of respondents identified financial management as a critical area for improvement, with a significant variance in resource allocation between districts ( $p < 0.05$ ). The randomized field trial demonstrated promising results in identifying and addressing key risk factors within district hospitals. Immediate investments should be made in improving financial management systems, followed by targeted training programmes for healthcare professionals to enhance their knowledge of risk reduction strategies. Treatment effect was estimated with  $\text{text}\{ \text{logit} \}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *District Hospitals, Uganda, Health System Improvement, Randomized Controlled Trial, Risk Assessment, Methodology, Community-Based Surveillance*

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