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# Reliability Assessment in Uganda's District Hospital Systems: A Randomized Field Trial

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## Abstract

District hospitals in Uganda play a crucial role in providing healthcare services to underserved populations. However, their reliability and efficiency are subject to variability and potential inefficiencies. A randomized field trial was conducted across five districts. Participants were randomly selected from patients who received services at these hospitals over a six-month period. Data collection included patient satisfaction surveys and operational efficiency metrics. In one district, the average satisfaction score for hospital services was found to be 78%, indicating room for improvement in service quality. Additionally, there was a significant variability ($p < 0.05$) in outpatient department wait times among different hospitals. The findings suggest that while some aspects of healthcare delivery are satisfactory, there is substantial scope for enhancing reliability and efficiency across district hospital systems. Based on the study results, it is recommended that targeted interventions be implemented to address identified areas of concern, such as improving patient wait times in the outpatient department. Treatment effect was estimated with $text\{logit\}(\pi) = beta 0 + \vec{\beta} p X_i$, and uncertainty reported using confidence-interval based inference.

**Keywords:** *Uganda, District Hospitals, Reliability Assessment, Methodology, Randomized Trials, Healthcare Systems, Evaluation Techniques*

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