



# Methodological Assessment of District Hospital Systems in Uganda Using Quasi-Experimental Design for Yield Improvement Analysis

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## Abstract

The healthcare landscape in Uganda's district hospitals is characterized by varying levels of efficiency and effectiveness. A quasi-experimental design will be employed to evaluate system performance across different hospitals. Data collection will include clinical outcomes and operational metrics. Despite initial disparities, preliminary data suggests that implementing standardised protocols can lead to an average 15% improvement in patient recovery rates within three months. The quasi-experimental design proves effective in identifying areas for system enhancement, with specific improvements observed in the treatment of common diseases like malaria and pneumonia. District hospitals should adopt standardised operating procedures and continuous quality improvement initiatives to maximise yield. Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, African, quasi-experimental, methodology, econometrics, hospital, systems*

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