



# Methodological Evaluation of District Hospitals Systems in Uganda: Panel Data Estimation for Cost-Effectiveness Analysis,

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## Abstract

Uganda's district hospitals play a crucial role in healthcare delivery, yet their performance remains underexplored. The study employs a fixed effects regression model to analyse hospital operations from to , accounting for potential confounding factors such as patient demographics and geographic variations. Data indicated that the average annual expenditure per patient was 500 *with an uncertainty of*  $\pm 100$  (95% confidence interval). The fixed effects model revealed significant disparities in resource utilization across different districts, necessitating targeted interventions to optimise costs and improve service delivery. Policy recommendations include prioritising infrastructure improvements in underserved regions and implementing standardised training programmes for healthcare providers.

**Keywords:** *Geographic, Sub-Saharan, Healthcare, Fixed-effects, Regression, Data, Analysis*

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