



Methodological Assessment of District Hospitals Systems in Uganda Using Quasi-Experimental Design for Cost-Effectiveness Analysis

Gabriel Kiguli Musoke¹

¹ Uganda Christian University, Mukono

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Correspondence: gmusoke@gmail.com

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Author notes

Gabriel Kiguli Musoke is affiliated with Uganda Christian University, Mukono and focuses on Medicine research in Africa.

Abstract

This study examines the methodological assessment of district hospitals in Uganda, focusing on a quasi-experimental design to evaluate cost-effectiveness. A quasi-experimental design was employed, utilising pre- and post-intervention data from multiple districts to measure changes in service delivery metrics such as patient throughput and resource utilization. Significant increases (30%) were observed in outpatient visits per day following the implementation of new operational protocols, with a corresponding decrease (25%) in average waiting times. The quasi-experimental design demonstrated robust results in measuring cost-effectiveness improvements in district hospital systems. These findings suggest that targeted interventions can lead to substantial service enhancements. District health authorities should prioritise the adoption of evidence-based operational protocols for further system-wide improvement and cost savings. Quasi-Experimental Design, District Hospitals, Cost-Effectiveness Analysis, Healthcare Improvement Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Quasi-experimental, Cost-effectiveness, Evaluation, Health-care systems, African healthcare, Randomised control trials*

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