



Methodological Evaluation of District Hospitals Systems in Uganda Using Quasi-Experimental Designs for Efficiency Measurement

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Abstract

District hospitals in Uganda play a crucial role in healthcare delivery but face challenges in managing resources efficiently. A systematic literature review was conducted to identify relevant studies, analyse methodologies used, and assess their robustness and applicability in Ugandan settings. One study employed a stochastic frontier analysis (SFA) model with robust standard errors indicating significant efficiency improvements from resource reallocation strategies. The identified quasi-experimental designs show promise for measuring district hospital system efficiencies, particularly when using SFA models. Further research should consider the scalability of these methods and their applicability to diverse healthcare contexts in Uganda. 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: *Sub-Saharan, health systems, performance measurement, randomized controlled trials, quasi-experimental designs, resource allocation, evaluation methods*

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