



Methodological Evaluation of District Hospitals Systems in Tanzania Using Quasi-Experimental Design to Measure Efficiency Gains

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Abstract

District hospitals in Tanzania face challenges in efficiency due to resource limitations and varying service quality. A quasi-experimental design was employed, comparing baseline data from randomly selected districts with post-intervention data. Statistical analysis included regression models to assess the impact of interventions on efficiency metrics. Resource reallocation led to a modest but statistically significant increase ($p < 0.05$) in patient satisfaction scores by 12% after one year of intervention, despite resource constraints. The quasi-experimental design successfully highlighted areas for improvement and provided evidence-based recommendations for enhancing efficiency in district hospitals. Resource reallocation strategies should be prioritised to improve patient outcomes. Monitoring systems should also focus on sustainability and cost-effectiveness of interventions. 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, Tanzania, efficiency, econometric, evaluation, healthcare, intervention*

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