



Risk Reduction in District Hospitals Systems: A Panel Data Analysis of Uganda's Healthcare Governance

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Abstract

In Uganda, district hospitals play a crucial role in providing healthcare services, but their effectiveness varies significantly. A mixed-method approach was employed with secondary data from the Ministry of Health. Panel data analysis using a fixed-effects model was conducted to assess changes over time in healthcare quality metrics across districts. The analysis revealed that implementing standardised training programmes for healthcare workers led to a 20% reduction in patient mortality rates, as measured by a confidence interval (CI) [15%, 25%] from the fixed-effects model. The findings suggest that targeted interventions can significantly improve healthcare quality and outcomes in district hospitals. District health managers should prioritise training programmes to further enhance patient safety and service delivery. 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, African, Hospital, Systems, Ethiopia, Panel, Analysis, Healthcare, Governance

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