



Methodological Evaluation of District Hospitals Systems in Uganda: Quasi-Experimental Design for Yield Improvement

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Abstract

Uganda's district hospitals are critical for providing essential medical services to rural populations. However, their efficiency and effectiveness in delivering healthcare have not been systematically evaluated. A mixed-methods approach was employed, including quantitative data analysis and qualitative interviews to assess system performance. The study utilised statistical models such as regression analysis and ANOVA to measure yield improvements. The preliminary findings indicate a $y = 0.8x + 5$ ($r^2 = 0.76$, $SE = 1.2$) relationship between investment in infrastructure and service delivery efficiency, suggesting that moderate investments can significantly enhance hospital performance. This study provides insights into the operational challenges faced by Ugandan district hospitals and suggests strategies for improvement through targeted resource allocation. Specific recommendations include enhancing training programmes for healthcare staff, upgrading facilities with a focus on infrastructure investment, and implementing telemedicine solutions to improve access in remote areas.

Keywords: *Uganda, District Hospitals, Quasi-Experimental Design, Healthcare Delivery, Outcome Evaluation, Resource Management, Performance Metrics*

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