



Methodological Evaluation of District Hospitals Systems in Uganda: A Randomized Field Trial for Yield Improvement

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Abstract

District hospitals in Uganda face challenges in delivering efficient healthcare services, impacting patient outcomes. A mixed-method approach was employed, including quantitative data collection via standardised surveys and qualitative insights from interviews and observation logs. Data analysis utilised regression models to assess yield improvements across different sectors. The regression model revealed an average $Y = 0.8X + 2$ increase in patient throughput for districts implementing the intervention compared to control, with a 95% confidence interval of (0.6, 1.0). The randomized field trial demonstrated promising yield improvements in district hospitals following strategic interventions. Further research and policy implementation are recommended based on these findings for broader application. district hospitals, Uganda, yield improvement, regression analysis

Keywords: *African healthcare, district hospitals, randomized trials, methodology, yield analysis, health systems, quantitative methods*

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