



Methodological Evaluation of District Hospital Systems in Kenya Using Quasi-Experimental Design to Measure Risk Reduction

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Abstract

District hospitals in Kenya play a crucial role in healthcare delivery, yet their effectiveness varies significantly across different regions. A mixed-methods approach was employed, including quantitative data analysis using logistic regression models to measure the probability of successful risk reduction (OR = 1.25, CI: [1.08, 1.43]) and qualitative interviews for in-depth understanding of system inefficiencies. The quasi-experimental design demonstrated a moderate effect on reducing health risks with significant variability between districts. While the district hospital systems showed promise, further refinement is needed to achieve consistent risk reduction across all regions. Investment in training for healthcare staff and infrastructure upgrades are recommended to enhance system performance. District hospitals, Kenya, Risk Reduction, Quasi-Experimental Design

Keywords: *District hospitals, Kenya, Interventions, Quasi-experimental design, Risk assessment, Public health, Comparative analysis*

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