



Methodological Assessment and Risk Reduction in District Hospital Systems of Kenya Using Quasi-Experimental Design

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Abstract

District hospitals in Kenya face challenges in managing patient flow and resource allocation efficiently. A mixed-method approach combining qualitative interviews with quantitative data collection was employed to evaluate current procedures and propose improvements. Analysis revealed an average of 20% inefficiency in resource distribution across hospitals, suggesting the need for targeted interventions. The quasi-experimental design demonstrated effectiveness in identifying areas for improvement, providing a roadmap for system enhancement. Immediate implementation of evidence-based risk reduction strategies is recommended to improve patient care and hospital operations. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Kenya, District Hospitals, Quasi-Experimental Design, Methodology, Evaluation, Resource Allocation, Risk Management

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