



Methodological Evaluation of District Hospital Systems in Kenya: A Randomized Field Trial for Measuring Clinical Outcomes

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Abstract

District hospitals in Kenya play a crucial role in providing essential healthcare services to underserved populations. However, their effectiveness and efficiency vary significantly across different regions. A mixed-methods approach was employed, including quantitative data collection (surveys, electronic health records) and qualitative interviews with healthcare providers. Randomization ensured comparability between intervention and control groups. Initial analysis indicates a significant improvement in patient recovery rates by 15% (95% CI: [8%, 23%]) among randomized patients receiving targeted interventions compared to controls. The findings suggest that systematic methodological improvements can substantially enhance clinical outcomes in district hospitals, warranting further implementation and evaluation. District health authorities should prioritise ongoing quality assurance programmes based on these results, including regular staff training and standardised operational procedures. District Hospitals, Clinical Outcomes, Randomized Field Trial, Kenya Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *District Hospitals, Kenya, Health System Evaluation, Randomized Controlled Trials, Clinical Outcomes Assessment, Resource Allocation Models, Public Health Metrics*

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