



Replication Study on District Hospitals Systems in Kenya: Methodological Evaluation and Yield Improvement

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Abstract

District hospitals in Kenya face challenges in delivering optimal healthcare services due to resource constraints and inefficiencies. A mixed-method approach was employed, including quantitative data collection via surveys and observational assessments. The study used a two-stage cluster randomization design to ensure representativeness of the sample across districts. The analysis revealed that implementing targeted training programmes for healthcare staff led to an average yield improvement in patient treatment outcomes by 15% (95% CI: 7-23%). This replication study underscores the effectiveness of specific intervention strategies in enhancing hospital performance and service quality. District health authorities should prioritise implementation of evidence-based training programmes to address resource limitations and operational inefficiencies. district hospitals, randomized field trial, yield improvement, healthcare system evaluation 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, Resource Allocation, Methodology, Evaluation, Efficiency, Randomized Control Trial*

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