



Methodological Evaluation of District Hospitals Systems in Kenya: A Randomized Field Trial for Measuring Adoption Rates

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Abstract

District hospitals in Kenya play a crucial role in healthcare delivery, yet their operational efficiency varies significantly. A mixed-methods approach combining quantitative data from surveys and qualitative insights from interviews was employed to assess the effectiveness of interventions aimed at increasing technology adoption. In one hospital, there was an observed increase in adoption rate by 15% after implementing a targeted training programme, which could be attributed to enhanced staff capabilities. The randomized field trial provided valuable insights into the impact of different strategies on technology adoption rates among district hospitals in Kenya. Further studies should explore additional factors influencing technology uptake and consider scalability of recommended interventions. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, Heterogeneity, Stratification, SensitivityAnalysis, QualitativeData, RandomizationTesting*

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