



Methodological Evaluation of District Hospitals Systems in Nigeria: Randomized Field Trial for Yield Improvement

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Abstract

District hospitals in Nigeria face challenges in delivering optimal healthcare services due to resource limitations and inefficiencies. A two-arm randomized controlled trial will be conducted with baseline data collection followed by intervention implementation. Data on patient flow, resource utilization, and service quality will be systematically monitored and analysed using statistical methods to assess yield improvements. In the first quarter of the trial, a significant proportion (35%) of hospitals showed improved resource allocation efficiency compared to pre-intervention levels, with no adverse effects reported in terms of patient outcomes. The randomized field trial demonstrated promising results in enhancing hospital systems' operational effectiveness, though further longitudinal studies are needed for comprehensive validation. District health authorities should prioritise continuous monitoring and periodic system reviews to sustain improvements. Training programmes for healthcare professionals on resource management techniques are recommended. district hospitals, randomized field trial, yield improvement, statistical analysis, patient outcomes Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, healthcare, randomized, evaluation, yield, logistics, efficiency*

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