



Methodological Evaluation of District Hospitals Systems in Nigeria: A Randomized Field Trial for Cost-Effectiveness Assessment

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Abstract

District hospitals in Nigeria play a crucial role in healthcare provision but often face challenges related to system inefficiencies and cost-effectiveness. A randomized controlled trial was conducted among randomly selected district hospitals, with data collected on resource utilization and patient outcomes. There were significant variations in resource allocation ($p=0.02$) across different hospitals, indicating disparities in service provision effectiveness. The findings suggest that current system configurations need optimization to enhance cost-effectiveness and improve healthcare delivery. Implementing standardised protocols for resource management could lead to more equitable and efficient use of resources within district hospital systems. 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: *Sub-Saharan, African, Healthcare, Systems, Methodology, Evaluation, Randomization, FieldStudy*

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