



Methodological Evaluation of District Hospitals Systems in Nigeria: A Randomized Field Trial for System Reliability Assessment

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Abstract

District hospitals in Nigeria face significant challenges in terms of system reliability due to resource constraints and infrastructure deficiencies. A mixed-methods approach was employed, combining quantitative data from patient records with qualitative interviews of healthcare providers. Randomization ensured that participants were evenly distributed across different districts and conditions. The analysis revealed a moderate level of variability in the reliability scores across hospitals (mean score = 75 out of 100), suggesting room for improvement but no statistically significant differences between urban and rural hospitals ($p > 0.05$). While initial findings indicate potential areas requiring intervention, further research is needed to validate these results in a larger sample. Given the identified variability, targeted training programmes should be implemented for hospital staff to enhance system reliability and patient outcomes.

Keywords: Nigerian, District Hospitals, Infrastructure, Methodology, Reliability Assessment, Quantitative Research, Qualitative Inquiry

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