



Methodological Evaluation of District Hospitals Systems in Nigeria: Quasi-Experimental Design for System Reliability Assessment

Chinedu Okoli¹

¹ Ahmadu Bello University, Zaria

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[Correspondence: cokoli@hotmail.com](mailto:cokoli@hotmail.com)

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Author notes

Chinedu Okoli is affiliated with Ahmadu Bello University, Zaria and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Methodological evaluation of district hospitals systems in Nigeria: quasi-experimental design for measuring system reliability in Nigeria. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Methodological evaluation of district hospitals systems in Nigeria: quasi-experimental design for measuring system reliability, Nigeria, Africa, Medicine, qualitative study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. 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: Nigerian, District, Healthcare, Quality, Evaluation, Design, Reliability

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