



Methodological Evaluation of District Hospitals Systems in Nigeria Using Difference-in-Differences for Cost-Effectiveness Analysis

Nnaemeka Ekwensiwa^{1,2}, Chinedu Okereishi¹

¹ Nnamdi Azikiwe University, Awka

² University of Ilorin

Published: 23 January 2004 | **Received:** 26 August 2003 | **Accepted:** 16 December 2003

Correspondence: nekwensiwa@outlook.com

DOI: [10.5281/zenodo.18797150](https://doi.org/10.5281/zenodo.18797150)

Author notes

Nnaemeka Ekwensiwa is affiliated with Nnamdi Azikiwe University, Awka and focuses on Medicine research in Africa.

Chinedu Okereishi is affiliated with Nnamdi Azikiwe University, Awka 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: difference-in-differences model for measuring cost-effectiveness in Nigeria. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. 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: difference-in-differences model for measuring cost-effectiveness, Nigeria, Africa, Medicine, original research This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Nigerian, District Hospitals, Difference-in-Differences, Cost-Effectiveness, Health Systems, Evaluation, Metrics*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge