



Methodological Evaluation of Community Health Centre Systems Adoption Rates in Nigeria Using Difference-in-Differences Approach

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Published: 18 September 2007 | **Received:** 14 June 2007 | **Accepted:** 29 July 2007

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DOI: [10.5281/zenodo.18841290](https://doi.org/10.5281/zenodo.18841290)

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Abstract

Community health centres in Nigeria have been established to improve access to healthcare services, particularly for underserved populations. However, there is limited empirical evidence on how effectively these facilities are being adopted and utilised. A DiD approach was employed to assess changes in the use of community health centres before and after their establishment. Data on service utilization were collected from multiple sources including administrative records and surveys conducted among healthcare providers and patients. The analysis revealed a moderate increase in patient visits to these facilities post-establishment, with an adoption rate of approximately 65% across the study regions. The DiD model demonstrated that community health centres showed significant promise in improving access to healthcare services, although further research is needed to understand long-term sustainability and impact. Public health authorities should prioritise continuous monitoring and support for these facilities to ensure they continue to meet the needs of their communities effectively. 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: Geographic Terms Related to Africa: Nigerian

*Methodological
Difference-in-Differences
Evaluation
Healthcare
Quantitative
Randomized Controlled Trials*

and

Theoretical

Terms:

*Systems
Methods*

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