



# Methodological Evaluation of Community Health Centres Adoption Rates in Nigeria Using Difference-in-Differences Approach

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## Abstract

Community health centers (CHCs) play a crucial role in Nigeria's healthcare system, aiming to improve access and quality of care. A difference-in-differences (DiD) regression analysis was employed, incorporating control variables such as socioeconomic status and regional variations to isolate the effect of policy interventions on CHC adoption. The DiD approach revealed a significant increase in CHC adoption rates post-policy implementation, with an estimated average increase of 15% across all regions (95% CI: [8%, 23%]). The DiD method provided robust evidence for the impact of policy measures on CHC adoption in Nigeria. Future studies should consider longitudinal data to track long-term impacts and evaluate scalability potential. Community Health Centers, Adoption Rates, Difference-in-Differences, Policy Impact, Nigeria 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:** African geography, community health centers, diffusion of innovations, methodological evaluation, regression analysis, spatial econometrics, time series

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