



# Methodological Evaluation of Community Health Centre Systems in Nigeria: A Quasi-Experimental Approach to Risk Reduction Analysis

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## Abstract

Community health centres in Nigeria have been established to improve access to healthcare services, but their effectiveness varies significantly. A quasi-experimental study was conducted in Nigeria's northern region. Data were collected from both intervention (enhanced services) and control (standard services) areas, using logistic regression models with robust standard errors for analysis. The findings indicate that the enhanced service model reduced healthcare utilisation risk by approximately 15% compared to the control group. This study highlights the importance of a rigorous methodological approach in evaluating community health centre systems and demonstrates the potential of such models in reducing healthcare risks. Future research should consider expanding the sample size and implementing additional qualitative assessments to further validate these findings. Community Health Centres, Quasi-Experimental Design, Risk Reduction, 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:** *Geographic, Sub-Saharan, Public Health, Quasi-Experimental, Evaluation, RiskAssessment, CommunityHealthCentres*

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