



# Methodological Assessment of Quasi-Experimental Designs in Nigerian Community Health Centre Systems: Evaluating Efficiency Gains in Community Healthcare Contexts

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## Abstract

Quasi-experimental designs are increasingly being employed to evaluate the efficiency gains in community health centre systems within Nigerian healthcare contexts. A systematic review of existing literature will be conducted, focusing on methodologies such as regression discontinuity designs (RDD) and difference-in-differences (DiD), with a specific emphasis on their application to Nigerian community health centers. Regression discontinuity design has shown significant efficiency gains in certain healthcare interventions when applied across different geographical regions of Nigeria, demonstrating a positive impact on service delivery metrics such as access rates. This review underscores the importance of rigorous methodological approaches for quasi-experimental designs in evaluating community health centre systems and highlights the potential for enhancing healthcare outcomes through targeted interventions. Future research should prioritise replication studies to validate findings, ensuring broader applicability across various Nigerian communities. Additionally, continuous evaluation of intervention effectiveness is recommended to adapt strategies based on changing local needs and resources. quasi-experimental design, community health centers, regression discontinuity design, difference-in-differences, Nigeria Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, randomized, cluster, attrition, evaluation, design, impact, effectiveness*

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