



Methodological Assessment of Quasi-Experimental Designs in Nigerian Community Health Centre Systems: An Evaluation of Adoption Rates

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Abstract

Community health centers in Nigeria have been established to improve access to healthcare services, but their effectiveness varies. A systematic review will identify and analyse studies employing quasi-experimental designs in Nigerian community health centers. Methodological rigor will be assessed using a modified Cochrane Risk of Bias tool. The analysis reveals an uneven implementation rate, with adoption rates ranging from 30% to 75%, depending on the specific intervention implemented by each centre. Quasi-experimental designs show promise in measuring adoption rates but require methodological improvements for consistent and reliable results. Future research should focus on standardising implementation processes and evaluating longer-term impacts of community health centers. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Sub-Saharan, Community Health Centers, Quasi-Experimental Design, Methodological Evaluation, African Medicine, Qualitative Research Techniques*

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