



Methodological Evaluation of Quasi-Experimental Designs in Rural Clinics Systems in Nigeria: A Meta-Analysis

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Abstract

Recent literature on rural clinics in Nigeria has highlighted the need for rigorous evaluation methods to assess clinical outcomes accurately. The analysis employs a mixed-effects logistic regression model to aggregate effect sizes from multiple studies. Uncertainty is addressed through robust standard errors. A specific direction of bias was observed in clinic performance metrics across different study designs, with an estimated proportion of 30% favoring the control group's outcomes. The findings suggest a need for standardised protocols to enhance consistency and reliability in clinical evaluations within rural settings. Rural clinics should adopt validated quasi-experimental methodologies to ensure more accurate assessment of their impact on patient care. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Nigeria, rural, clinics, design, evaluation, analysis*

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