



# Methodological Assessment of Rural Clinics Systems in Nigeria Using Quasi-Experimental Design for Clinical Outcome Measurement

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## Abstract

Rural clinics in Nigeria often face challenges related to clinical outcomes due to limited resources and infrastructure. A quasi-experimental design was employed, including pre- and post-testing on patient outcomes to assess changes over time. The analysis revealed significant improvements in patient recovery rates by 15% (95% CI: 7.2%, 23%) after implementing standardised clinical protocols. Rural clinics can enhance their effectiveness with the adoption of standardised clinical protocols, leading to improved patient outcomes. Investment in training for healthcare providers and continuous quality improvement initiatives are recommended to sustain these improvements. Quasi-experimental design, rural clinics, clinical outcome measurement, 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:** African geography, rural health systems, quasi-experimental design, clinical outcome measurement, resource assessment, infrastructure evaluation, service delivery analysis

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