



Methodological Assessment of Community Health Centre Systems in Nigeria: A Randomized Field Trial

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Abstract

Community health centres in Nigeria play a crucial role in primary healthcare delivery. A randomized field trial design was employed to measure yield improvement, with data collection and analysis methods validated for reliability and validity. The study revealed an average yield improvement of 15% in targeted healthcare services across randomly selected community health centres. Randomized field trials provided robust evidence on the operational efficiency and effectiveness of community health centre systems in Nigeria. Continuous monitoring and periodic re-evaluation are recommended for optimal service delivery and continuous improvement. Community Health Centres, Randomized Field Trial, Yield Improvement, Primary Healthcare 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, randomized controlled trial, primary healthcare, community health centers, evaluation methodology, intervention effectiveness, outcome assessment*

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