



Methodological Assessment of Community Health Centres Systems in Nigeria Using Panel Data for Risk Reduction Measurement

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Abstract

Community health centres in Nigeria face significant challenges in risk reduction due to inadequate data-driven decision-making. A mixed-method approach was employed, including quantitative analysis with panel data regression models. Uncertainty around the estimates is accounted for by robust standard errors. Panel data regression revealed that effective communication strategies significantly reduced patient wait times by approximately 20% in selected health centres. The methodological framework provides a robust basis for future risk reduction initiatives and policy recommendations to enhance community health centre performance. Implementing improved communication protocols is recommended as a key strategy for reducing patient waiting periods. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Sub-Saharan, Methodology, Public Health, Data-Driven, Panel Analysis, Risk Assessment*

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