



Methodological Evaluation of Rural Clinics Systems in Kenya Using Quasi-Experimental Design for Assessing Clinical Outcomes

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Abstract

Rural clinics in Kenya often face challenges in delivering consistent quality healthcare due to resource limitations and staff training gaps. A mixed-methods approach will be employed, including quantitative data analysis using logistic regression models to assess the impact of clinic interventions on patient health outcomes. Qualitative interviews with staff and patients will complement these statistical analyses. The preliminary findings suggest a significant improvement in diagnostic accuracy ($p < 0.05$) following training programmes for healthcare providers, highlighting the potential benefits of targeted educational initiatives. This study provides evidence that structured training can enhance clinical performance in rural settings, offering actionable insights for policy makers and health administrators. Investment in ongoing staff development should be prioritised to sustain improvements observed during this research period. rural clinics, Kenya, quasi-experimental design, clinical outcomes, logistic regression Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Kenya, Rural Clinics, Quasi-Experimental Design, Outcome Assessment, Methodology, Evaluation, Community Health Services

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