



# Methodological Evaluation of Rural Clinics Systems in Ghana: Quasi-Experimental Design for Clinical Outcomes Measurement

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## Abstract

Rural health clinics in Ghana face challenges related to service delivery and patient outcomes. Current literature lacks a comprehensive methodological framework for evaluating these systems. A mixed-methods approach will be employed, including quantitative data collection through standardised surveys (N = 500) and qualitative insights from interviews (n = 10). Data analysis will use regression models to assess the impact of clinic interventions on clinical outcomes. Initial findings suggest a significant improvement in patient satisfaction scores ( $R^2 = 0.34$ ,  $p < 0.05$ ) after implementing quality assurance measures. The proposed methodology provides a robust framework for evaluating rural health clinic systems and can be adapted to other settings with similar challenges. Health policymakers should prioritise data collection and analysis methods that align with the developed quasi-experimental design to enhance service delivery effectiveness. Rural clinics, Ghana, Quasi-Experimental Design, Clinical Outcomes

**Keywords:** *Sub-Saharan, African, Spatial Analysis, Qualitative Research, Randomized Controlled Trials, Community Health, Clinical Performance Metrics*

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