



Methodological Assessment of Rural Clinics Systems in Kenya: A Randomized Field Trial for Clinical Outcomes Evaluation

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Abstract

This study examines the operational efficiency of rural healthcare facilities in Kenya through a randomized field trial designed to evaluate clinical outcomes. A randomized field trial was conducted, with participants randomly assigned to either control or intervention groups. Clinical data were collected using structured questionnaires and electronic health records for analysis. The results indicate that the implementation of standardised clinical procedures led to a statistically significant improvement in patient recovery rates by an average of 15% (95% CI: 4-26%). This study highlights the effectiveness of randomized field trials in evaluating healthcare system performance and suggests potential improvements for rural clinics. Healthcare providers should consider adopting standardised protocols to enhance clinical outcomes, which can be supported by further research and policy development. rural clinics, clinical outcomes, randomized trial, Kenya, health system evaluation Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African Geography, Methodological Evaluation, Randomized Field Trial, Clinical Outcomes, Rural Health Systems, Outcome Measurement, Community Health Centers

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