



Methodological Evaluation of Rural Clinic Systems in Rwanda: A Randomized Field Trial for Clinical Outcomes Assessment

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Abstract

Rural clinics in Rwanda face challenges related to service delivery quality and patient outcomes. A randomized controlled trial was conducted with 100 randomly selected patients across four rural clinics. Data collection included baseline assessments, follow-up visits, and standardised outcome measurements. The analysis revealed significant variability in patient recovery rates (mean difference of 25% between clinics) with a confidence interval indicating the true effect size is likely above zero. Rural clinic systems require targeted improvements to enhance clinical outcomes. Implementing standardised training programmes and regular performance evaluations are recommended for rural healthcare providers. Rural Clinic Systems, Clinical Outcomes Assessment, Randomized Field Trial 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: *Rural, Service Delivery, Quality Improvement, Randomization, Clinical Outcomes, Evaluation, Geographical Analysis*

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