



Evaluating Community Health Centre Systems in Rwanda: A Quasi-Experimental Design for Risk Reduction Assessment

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Abstract

Community health centres in Rwanda are essential for providing primary healthcare services to rural populations. However, their effectiveness and efficiency vary significantly across different regions. A mixed-methods approach was employed, including surveys, interviews, and data analysis. The primary outcome measure was the proportion of healthcare utilisation among the target population. A significant improvement ($p < 0.05$) in healthcare utilization rates was observed after implementing new risk reduction strategies at community health centres. The quasi-experimental design successfully identified areas needing further intervention to enhance service delivery and patient outcomes. Further research should be conducted on cost-effectiveness analysis of the implemented risk reduction strategies. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Rwanda, Community Health Centres, Quasi-Experimental Design, Public Health Systems, Outcome Measures, Risk Assessment*

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