



# Methodological Evaluation of Community Health Centre Systems in Rwanda: Quasi-experimental Design for Efficiency Gains

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## Abstract

Community health centres in Rwanda are essential for providing primary healthcare services to a large population with limited resources. A mixed-methods approach combining quantitative analysis of service utilization data and qualitative interviews to assess system performance. Community health centres reported an average service utilization rate of 45% with significant variation in service quality across different regions, indicating the need for targeted interventions. The quasi-experimental design highlights areas where efficiency gains can be achieved through improved resource distribution and training programmes. Targeted capacity building initiatives should focus on enhancing service delivery, particularly in rural areas with lower utilization rates. Community health centres, Rwanda, Efficiency evaluation, Quasi-experimental design 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:** Rwanda, Geographic Information Systems (GIS), Quasi-experimental design, Health economics, Outcome evaluation, Cluster randomized trials, Cost-effectiveness analysis

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