



Methodological Evaluation of Community Health Centres Systems in Rwanda Using Quasi-Experimental Design

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Abstract

Community health centres in Rwanda have been established to improve access to healthcare services for rural populations. However, their efficiency and effectiveness remain under scrutiny. A mixed-methods approach was employed, including both quantitative data analysis and qualitative interviews to assess service delivery and patient outcomes across different health centres. The study used a difference-in-differences (DiD) model for causal inference. The DiD model revealed an average improvement in service efficiency of 15% with significant variations observed between rural and urban settings. This quasi-experimental design provided robust evidence to support the need for further policy interventions aimed at enhancing healthcare delivery in Rwanda's community health centres. Policy makers should prioritise resource allocation towards areas where service efficiency gains are most pronounced, such as improving infrastructure and training staff. 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: *Rwandan, Quasi-experimental, Health systems, Evaluation, Community health centres, Randomised control trial, Outcome measures*

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