



Methodological Evaluation of Community Health Centre Systems in Rwanda: Quasi-Experimental Approach to Assessing Cost- Effectiveness

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Abstract

Community health centers (CHCs) play a crucial role in Rwanda's healthcare system, aiming to improve access and quality of care for underserved populations. A mixed-methods approach combining quantitative data from financial records and qualitative insights from interviews and surveys was employed. The primary analysis used regression discontinuity design (RDD) to estimate the impact of CHC implementation on healthcare utilization and costs per beneficiary. CHCs showed a significant reduction in outpatient visits cost by 20 per patient, with an estimated average cost – effectiveness ratio of 1:3 across all evaluated districts, indicating $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Sub-Saharan, Health Systems, Quasi-Experimental, Cost-Benefit, Evaluation, Community Engagement*

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