



Evaluation of Community Health Centre Systems in Rwanda Using Panel Data for Adoption Rates Measurement

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Abstract

Community health centres (CHCs) play a pivotal role in primary healthcare delivery in Rwanda, yet their effectiveness and adoption rates vary across different regions. A mixed-method approach was employed including quantitative analysis through a linear regression model with robust standard errors estimated via panel-data estimation. The study utilised detailed survey responses from over 500 community members across 12 districts in Rwanda to gauge adoption rates and factors affecting CHC utilization. The panel data revealed a significant positive relationship ($p < 0.01$) between the number of health education sessions conducted by CHCs and increased CHC usage, suggesting that enhanced public awareness leads to higher adoption rates. This research contributes to understanding the dynamics of CHC systems in Rwanda and highlights the importance of community engagement for improved healthcare access. Policy makers should consider implementing targeted interventions such as increasing health education sessions to improve the utilization of CHCs, thereby enhancing overall healthcare accessibility and quality in rural areas. Community Health Centers, Adoption Rates, Panel Data, Rwanda, Public Health Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Rwanda, Geographic Distribution, Community Health Centres, Panel Data Analysis, Healthcare Delivery, Methodology, Evaluation

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