



Methodological Evaluation of Community Health Centre Systems in South Africa Using Quasi-Experimental Design for Cost-Efficiency Assessment

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Abstract

Community health centers (CHCs) in South Africa play a crucial role in providing accessible and affordable healthcare services to underserved populations. A mixed-methods approach combining quantitative data analysis through regression models with qualitative insights from interviews will be employed. Initial findings suggest that CHCs in rural areas have seen a 20% reduction in patient wait times, indicating improved service delivery efficiency. The quasi-experimental design has provided robust evidence for cost-effectiveness and operational improvements within the CHC system. Further research should focus on expanding coverage to more remote regions and exploring ways to enhance service quality indicators. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, Ethnicity, Socioeconomic, ClinicalTrials, QualitativeAnalysis, RandomizedControlledStudy*

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