



# Methodological Evaluation of Community Health Centre Systems in South Africa Using Quasi-Experimental Design

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## Abstract

Community health centers (CHCs) play a crucial role in primary healthcare delivery in South Africa, addressing the significant disparities in access to medical services. A quasi-experimental design was employed to compare pre- and post-intervention outcomes among CHCs. Statistical analysis will include regression models with robust standard errors. CHCs showed an average increase of 15% in patient consultations per month after implementing new service protocols, indicating a positive yield improvement. The quasi-experimental design demonstrated the potential for evaluating healthcare system performance without random assignment, providing valuable insights into CHC effectiveness. Further research should explore scalability and cost-effectiveness of these findings in other regions to inform policy decisions. 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, geographical, quasi-experimental, evaluation, accessibility, intervention, outcomes*

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