



Methodological Evaluation of Community Health Centre Systems in Kenya Using Quasi-Experimental Design to Measure Risk Reduction

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Abstract

Community health centres (CHCs) in Kenya play a critical role in delivering primary healthcare services to underserved populations. However, their effectiveness and efficiency require rigorous evaluation. A mixed-method approach was employed, combining quantitative data from surveys and administrative records with qualitative insights through interviews. Data were analysed using regression analysis for statistical significance testing. Quasi-experimental results indicated that CHCs in certain regions reduced healthcare risks by 20%, specifically in areas with lower socioeconomic status. The quasi-experimental design successfully identified risk reduction effects, contributing to a more evidence-based understanding of CHC systems' impact on public health outcomes. Future research should focus on scaling up successful interventions and exploring additional factors influencing healthcare access and utilization. Community Health Centres, Risk Reduction, Quasi-Experimental Design, Kenya Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, community health centres, quasi-experimental design, risk assessment, healthcare system evaluation, outcome measurement, intervention effectiveness*

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