



Methodological Evaluation of Community Health Centre Systems in Kenya Using Quasi-Experimental Design for Cost-Effectiveness Assessment

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Abstract

Community health centres (CHCs) play a crucial role in healthcare delivery in Kenya, especially in underserved regions. A mixed-methods approach was employed, including surveys, focus groups, and cost-benefit analysis to assess the operational efficiency and financial sustainability of CHCs in Kenya. CHCs reported an average reduction in patient wait times by 25% after implementing new scheduling systems, with a corresponding decrease in healthcare costs estimated at 10 per patient visit. The quasi-experimental design demonstrated significant improvements in operational efficiency. $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African geography, quasi-experimental design, healthcare delivery, cost-effectiveness analysis, community health centres, resource allocation, service utilization studies

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