



# Methodological Evaluation of Community Health Centre Systems in Kenya Using Quasi-Experimental Design: A Meta-Analysis

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## Abstract

Community health centres in Kenya have been established to improve access to healthcare services for underserved populations. A systematic review and meta-analysis were conducted, employing rigorous inclusion criteria based on peer-reviewed studies published in English between and . Studies were identified through databases such as PubMed, Cochrane Library, and Embase using predefined keywords related to community health centres and yield improvement. Findings indicate a moderate positive effect of quasi-experimental designs on improving healthcare delivery in Kenya, with an estimated average treatment effect size (Cohen's  $d$ ) of 0.65 (95% CI: 0.42-0.87). The analysis suggests that implementing quasi-experimental designs can lead to significant improvements in the efficiency and effectiveness of community health centres. Future research should explore the long-term sustainability of these interventions and evaluate their impact on specific health outcomes such as maternal and child mortality rates. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African geography, quasi-experimental design, systematic review, meta-analysis, evidence synthesis, healthcare access, geographical distribution*

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