



# Methodological Evaluation of Community Health Centre Systems in Ghana: A Meta-Analysis

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## Abstract

Community health centres in Ghana play a crucial role in healthcare delivery, yet their effectiveness has not been systematically evaluated. A comprehensive literature review was conducted to identify relevant studies, with inclusion criteria based on study design and data quality. A mixed-methods approach combining quantitative analysis (meta-regression) and qualitative synthesis of findings was employed to address heterogeneity in reported adoption rates. Adoption rates varied significantly across regions, ranging from a low of 30% in the Northern Region to a high of 65% in Greater Accra. The meta-analysis revealed significant variation in implementation strategies and resources allocation as key factors influencing adoption rates. This study provides insights into the variability in community health centre systems across Ghana, highlighting the importance of tailored interventions based on regional context. Future research should focus on identifying effective models for scaling up community health centres in underserved regions to improve healthcare access and quality. Treatment effect was estimated with  $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, randomized-controlled, meta-analysis, systematic-review, healthcare-systems, outcome-measurement, geographic-distribution*

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