



# Methodological Evaluation of Community Health Centres Systems in Ghana Using Difference-in-Differences for Clinical Outcome Measurement

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## Abstract

Community health centres in Ghana face challenges in delivering consistent clinical outcomes. A DiD model was applied to assess changes in patient clinical outcomes before and after implementing new protocols at selected health centres. Data from pre- and post-intervention periods were analysed. The DiD analysis revealed a statistically significant improvement ( $p < 0.05$ ) in the proportion of patients achieving target clinical targets, suggesting enhanced effectiveness of community health centre interventions. The difference-in-differences model demonstrated potential for evaluating and improving health care delivery systems in Ghana's community health centres. Further studies should explore longer-term impacts and assess the cost-effectiveness of implemented protocols. Community Health Centres, DiD Model, Clinical Outcomes, Ghana 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, African, Spatial, Econometrics, Differential, Epidemiology, Randomized

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