



Methodological Evaluation of Community Health Centres Systems in Ghana Using Difference-in-Differences for Cost-Effectiveness Analysis

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Abstract

Community health centers (CHCs) in Ghana play a pivotal role in healthcare delivery, yet their effectiveness and cost-effectiveness are not well understood. A DiD model was employed to assess changes in health outcomes before and after the implementation of CHC reforms, comparing pre- and post-intervention periods. CHCs showed a significant improvement in patient satisfaction scores from baseline ($n=120$) to follow-up ($n=95$), indicating enhanced service quality. The DiD model demonstrated high sensitivity in detecting changes attributable to CHC reforms, validating its utility for future cost-effectiveness studies. Future research should expand the study to include additional health outcomes and incorporate longitudinal data for comprehensive evaluation. Community Health Centers, Difference-in-Differences, Cost-Effectiveness Analysis, Ghana

Keywords: *Sub-Saharan, DiD, econometrics, health financing, service delivery, intervention effectiveness, cost-benefit analysis*

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