



Methodological Evaluation of Community Health Centres Systems in Uganda Using Difference-in-Differences Models for Risk Reduction Measurement

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Abstract

Community health centers (CHCs) play a crucial role in healthcare delivery in Uganda, particularly for underserved populations. Despite their importance, there is limited empirical evidence on their effectiveness in reducing health risks. A comprehensive search strategy was employed to identify relevant studies, focusing on DiD models applied to CHCs. Studies were screened for methodological quality and analysed according to predefined criteria. The analysis revealed that while some studies used robust DiD models, there is variability in the application of these models across different health risks and contexts within Uganda. Despite inconsistencies, a clear trend emerged suggesting that CHCs can be effective tools for reducing specific health risks when evaluated using rigorous DiD methodologies. Future research should prioritise methodological consistency to enhance the reliability of impact assessments conducted on CHC systems in Uganda. 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, quasi-experimental, econometrics, health systems, intervention assessment, geographical variation*

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