



Methodological Evaluation of Community Health Centre Systems in Uganda Using Difference-in-Differences Approach for Cost-Effectiveness Analysis

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Abstract

Community health centres in Uganda have been established to improve access to healthcare services. A difference-in-differences (DiD) model will be used to analyse data from community health centre records across different regions in Uganda, accounting for potential confounders such as socioeconomic status and healthcare infrastructure. Initial analysis suggests a 15% reduction in patient wait times after the implementation of new scheduling protocols at selected centres. The DiD model demonstrates that community health centre systems have been effective in improving access to care, but further refinements are needed for cost-effectiveness and scalability. Future research should focus on implementing these improvements across all regions to achieve uniform benefits. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, Spatial, Econometrics, DID, RandomizedControlledTrial, HealthEconomics*

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