



Methodological Assessment of Community Health Centre Systems in Uganda Using Panel Data to Measure Cost-Effectiveness,

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Abstract

This case study evaluates the cost-effectiveness of community health centre systems in Uganda by analysing panel data. Panel-data estimation was employed to analyse the costs and outcomes of community health centres, with robust standard errors accounting for potential confounders. A significant proportion (85%) of healthcare resources were directed towards preventive care measures, indicating an effective allocation strategy. The analysis suggests that targeted investments in preventive healthcare have led to improved patient outcomes and cost savings. Future policy should prioritise continued investment in community health centres with a focus on expanding access to preventive services. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Uganda, Community Health Centres, Panel Data, Cost-Effectiveness Analysis, Econometrics, Healthcare Delivery Systems, Geographic Information Systems (GIS)

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