Methodological Evaluation of District Hospitals Systems in Tanzania Using Panel Data for Cost-Effectiveness Analysis

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Abstract

This study aims to evaluate the operational efficiency of district hospitals in Tanzania, focusing on their ability to provide effective healthcare services while managing costs. Panel data from six district hospitals in Tanzania were analysed over three years, employing econometric techniques such as fixed effects models to estimate the impact of various factors on costs and outcomes. The analysis revealed an average cost-effectiveness ratio (CER) of 100 *per patient consultation, with significant variations among districts due* ι *differences* $\in$ *infrastructure* $\wedge$ *staffing* $\text{logit}(pi)=\beta0+\beta^\top X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Tanzania, Sub-Saharan, Panel Data, Cost-Effectiveness, Econometric Analysis, Health Services, Geographic Information Systems, Stochastic Frontier Analysis*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

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