



Methodological Evaluation of District Hospitals Systems in Uganda Using Panel Data for Adoption Rate Measurement

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Abstract

Uganda faces challenges in healthcare delivery, particularly in district hospitals where resource allocation and service adoption rates vary significantly. A meta-analysis approach was employed using longitudinal data from multiple districts. Panel-data techniques were applied to account for both time-invariant and time-varying factors influencing service utilization. The analysis revealed a positive correlation between district-level funding and adoption rates of preventive healthcare services, with an estimated coefficient of 0.85 (95% CI: [0.72, 0.98]). Panel-data methods provided robust insights into the dynamics of service adoption in Ugandan district hospitals, highlighting the importance of consistent resource allocation. District health authorities should prioritise equitable funding distribution to enhance the effectiveness and sustainability of healthcare services. district hospitals, panel data, adoption rates, preventive healthcare, 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, district hospitals, meta-analysis, panel data, econometrics, health services, resource allocation*

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