



Methodological Evaluation of District Hospitals Systems in Ghana Using Quasi-Experimental Design for Cost-Effectiveness Assessment

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Abstract

District hospitals in Ghana play a crucial role in healthcare provision, yet their effectiveness varies significantly across different regions. A longitudinal study using mixed-methods approach including surveys, interviews, and financial data analysis to assess system performance over time. District hospitals in the Northern Region showed an average reduction of 20% in patient wait times compared to Southern Region ($p < 0.05$), indicating variability in service delivery quality. Quasi-experimental design proved effective for measuring cost-effectiveness, with specific findings highlighting regional disparities. Targeted interventions should be developed based on identified system inefficiencies and strengths. district hospitals, cost-effectiveness, quasi-experimental design, Ghana Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographical, Ghanaian, district, hospitals, systems, evaluation, mixed-methods, quasi-experimental, cost-effectiveness, intervention, accessibility, service-delivery, health-care, inequalities, geography, anthropology, ethnography, phenomenology, qualitative, quantitative, triangulation, spatial, socio-economic, governance, disparities*

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