



Methodological Evaluation of District Hospital Systems in Uganda: A Randomized Field Trial for Cost-Effectiveness Assessment

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Abstract

Ugandan district hospitals face significant challenges in resource allocation and operational efficiency. A randomized controlled trial design was employed to assess cost-effectiveness metrics including direct healthcare costs per patient visit and indirect costs related to staff productivity. Data collection involved standardised surveys and cost accounting records over one year. The trial revealed a 10% reduction in average daily operational expenses for hospitals implementing resource optimization strategies compared to control. The logit model $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Uganda, District Hospitals, Randomized Control Trial, Cost-Effectiveness, Health Economics, Geographic Medicine, Methodology*

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