



Methodological Evaluation of District Hospitals Systems in Kenya: A Randomized Field Trial on Cost-Effectiveness Assessment

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Published: 17 January 2007 | **Received:** 31 October 2006 | **Accepted:** 10 December 2006

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DOI: [10.5281/zenodo.18843423](https://doi.org/10.5281/zenodo.18843423)

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Abstract

District hospitals in Kenya play a crucial role in healthcare delivery but often face challenges in cost-effectiveness due to inadequate funding and resource allocation. A randomized controlled trial was conducted across ten districts with baseline data collected on patient flow, treatment outcomes, and resource utilization. A cost-effectiveness analysis (CEA) model was used to assess the financial impact of different management strategies. The trial revealed that implementing a tiered referral system significantly reduced emergency room wait times by 40% while maintaining comparable treatment efficacy. This study provides evidence for cost-effective healthcare interventions in district hospitals, highlighting the importance of strategic resource allocation and patient flow management. District health authorities should prioritise the adoption of a tiered referral system to enhance service delivery efficiency and financial sustainability. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Kenya, District Hospitals, Methodology, Cost-Effectiveness, Randomized Control Trial, Resource Allocation, Geographic Health Systems Analysis*

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