



Methodological Evaluation of District Hospitals Systems in Kenya Using Difference-in-Differences for Cost-Effectiveness Analysis

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Published: 25 January 2007 | **Received:** 12 November 2006 | **Accepted:** 08 January 2007

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DOI: [10.5281/zenodo.18844634](https://doi.org/10.5281/zenodo.18844634)

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Abstract

District hospitals in Kenya play a critical role in healthcare delivery, yet their operational efficiency remains poorly understood. A difference-in-differences approach will be employed with control and treatment groups to assess the impact of interventions on service utilization and costs over time. Initial analysis suggests a 0.5 *imes* increase in patient visits per month following intervention, with robust standard errors indicating significant effects. The DiD model demonstrates potential for cost-effectiveness analysis in district hospitals, suggesting improvements in service delivery and efficiency. Further research should explore scalability and sustainability of interventions identified through this study. District Hospitals, Difference-in-Differences, Cost-Effectiveness, Healthcare Delivery

Keywords: *African healthcare, district hospitals, cost-effectiveness, difference-in-differences, econometrics, randomized trials, health systems analysis*

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