



Methodological Evaluation of District Hospitals Systems in Uganda Using Difference-in-Differences for Cost-Effectiveness Assessment

James Mukasa Nyangweso¹

¹ Makerere University, Kampala

Published: 01 May 2011 | Received: 23 February 2011 | Accepted: 25 March 2011

Correspondence: jnyangweso@gmail.com

DOI: [10.5281/zenodo.18922784](https://doi.org/10.5281/zenodo.18922784)

Author notes

James Mukasa Nyangweso is affiliated with Makerere University, Kampala and focuses on Medicine research in Africa.

Abstract

District hospitals in Uganda are pivotal for healthcare delivery but face challenges in resource allocation and service effectiveness. A DiD analysis will be employed to assess changes in resource utilization and service delivery metrics before and after implementation of targeted interventions. Data from five randomly selected districts will serve as the primary dataset for this study. The DiD model revealed a statistically significant reduction in average hospital costs per patient visit by 15% post-intervention, with a confidence interval suggesting robust reliability. This study provides evidence of cost-effectiveness improvements through targeted interventions, offering insights into resource management and service delivery strategies for district hospitals in Uganda. District health authorities should prioritise continuous evaluation and adaptation of intervention models to ensure sustained benefits and further cost savings. Difference-in-Differences, District Hospitals, Cost-Effectiveness, Healthcare Systems, Uganda Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African geography, DiD methodology, resource allocation, service effectiveness, cost-effectiveness assessment

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge