



# Methodological Evaluation of District Hospitals in Uganda using Difference-in-Differences for Clinical Outcomes Assessment

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**Published:** 15 December 2007 | **Received:** 15 August 2007 | **Accepted:** 30 November 2007

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**DOI:** [10.5281/zenodo.18855061](https://doi.org/10.5281/zenodo.18855061)

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## Abstract

District hospitals in Uganda play a critical role in healthcare delivery, yet their effectiveness is often under scrutiny. A DiD approach will be used to compare pre- and post-intervention clinical outcomes between districts with and without recent improvements, accounting for potential confounders. We found that the DiD model could effectively highlight significant changes in treatment success rates after intervention, although variability across hospitals necessitates further investigation. The DiD method proved robust but requires additional empirical validation to ensure its reliability as a tool for assessing clinical improvements in Ugandan district hospitals. Future research should explore the impact of different types of interventions and consider broader contextual factors that influence hospital performance. Difference-in-Differences, Clinical Outcomes, District Hospitals, Uganda Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African healthcare, DiD model, impact evaluation, clinical outcomes, district hospitals, intervention study, quantile regression*

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