



Methodological Evaluation of District Hospital Systems in Uganda Using Difference-in-Differences Models for Yield Improvement Assessment

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Abstract

District hospitals in Uganda play a crucial role in healthcare delivery, yet their performance varies significantly across different districts. The study employed DID models to analyse yield improvements in district hospitals, comparing pre- and post-intervention periods. Data from multiple districts were analysed using robust standard errors to account for potential confounders. A significant proportion (60%) of district hospitals showed positive yield improvement after implementing new interventions, with variations across regions. The DID models provided valuable insights into the effectiveness of interventions in improving hospital performance, contributing to evidence-based policy recommendations. Further research should focus on replicating these findings and exploring long-term effects of interventions. Difference-in-Differences (DID), District Hospitals, Yield Improvement, Uganda, Healthcare Systems Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African healthcare, district hospitals, yield improvement, difference-in-differences, econometrics, health systems, randomized evaluations*

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