



Methodological Evaluation of District Hospitals Systems in Uganda Using Difference-in-Differences Model for Yield Improvement Analysis

Nyarike Nabakalya^{1,2}, Kabinyarwa Okello³, Ssenooba Agaba³

¹ Department of Internal Medicine, Uganda National Council for Science and Technology (UNCST)

² Kampala International University (KIU)

³ Uganda National Council for Science and Technology (UNCST)

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Correspondence: nnabakalya@hotmail.com

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Author notes

Nyarike Nabakalya is affiliated with Department of Internal Medicine, Uganda National Council for Science and Technology (UNCST) and focuses on Medicine research in Africa.

Kabinyarwa Okello is affiliated with Uganda National Council for Science and Technology (UNCST) and focuses on Medicine research in Africa.

Ssenooba Agaba is affiliated with Uganda National Council for Science and Technology (UNCST) and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Methodological evaluation of district hospitals systems in Uganda: difference-in-differences model for measuring yield improvement in Uganda. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured review of relevant literature was conducted, with thematic synthesis of key findings. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Methodological evaluation of district hospitals systems in Uganda: difference-in-differences model for measuring yield improvement, Uganda, Africa, Medicine, systematic review This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $text \{ logit \} (\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Sub-Saharan, district hospitals, yield improvement, difference-in-differences, econometric methods, health systems, randomized control trials

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