



Methodological Evaluation of Community Health Centre Systems in Uganda Using Difference-in-Differences for Yield Improvement Analysis

Kizza Musoke¹

¹ Uganda Christian University, Mukono

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Correspondence: kmusoke@outlook.com

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Author notes

Kizza Musoke is affiliated with Uganda Christian University, Mukono and focuses on Medicine research in Africa.

Abstract

Community health centres in Uganda have been established to improve access to healthcare services, particularly for underserved rural populations. However, their effectiveness in achieving desired outcomes remains uncertain. A DiD approach was employed to analyse data from community health centres, comparing pre- and post-intervention periods. Uncertainty in results was quantified through robust standard errors. The analysis revealed a significant increase in vaccination coverage by 15% (95% CI: 8%, 23%) after the intervention period, indicating improved service delivery. The DiD model successfully highlighted yield improvements in community health centre operations, providing evidence for effective healthcare system enhancement strategies. Future research should explore scalability and sustainability of identified interventions across different regions and contexts. Community Health Centres, Uganda, Difference-in-Differences (DiD), Yield Improvement Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^* p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, yield improvement, difference-in-differences, randomized control trials, public health systems, econometrics, community healthcare effectiveness*

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