



Methodological Evaluation of District Hospitals Systems in Uganda Using Quasi-Experimental Design for Clinical Outcomes Measurement

Ayub Ssebuloba¹, Gwamma Okello^{2,3}, Abagi Namaganda^{4,5}, Ireri Mugenyi^{1,6}

¹ Makerere University Business School (MUBS)

² Gulu University

³ Kyambogo University, Kampala

⁴ Department of Internal Medicine, Kyambogo University, Kampala

⁵ Department of Public Health, Gulu University

⁶ Department of Epidemiology, Kyambogo University, Kampala

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Correspondence: assebuloba@gmail.com

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Author notes

Ayub Ssebuloba is affiliated with Makerere University Business School (MUBS) and focuses on Medicine research in Africa.

Gwamma Okello is affiliated with Gulu University and focuses on Medicine research in Africa.

Abagi Namaganda is affiliated with Department of Internal Medicine, Kyambogo University, Kampala and focuses on Medicine research in Africa.

Ireri Mugenyi is affiliated with Makerere University Business School (MUBS) and focuses on Medicine research in Africa.

Abstract

District hospitals in Uganda play a crucial role in healthcare delivery, yet their efficiency and effectiveness are often under-researched. A mixed-methods approach was employed, combining quantitative data from patient outcomes with qualitative insights from hospital staff interviews. A significant improvement ($p < 0.05$) was observed in emergency response times across participating district hospitals, indicating a more efficient system. The quasi-experimental design proved effective for measuring clinical outcomes and improving the operational efficiency of district hospitals. Implementing standardised protocols based on findings will further enhance healthcare delivery in Uganda's district hospitals. district hospitals, clinical outcomes, quasi-experimental design, Uganda Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African Geography, District Hospitals, Quasi-Experimental Design, Clinical Outcomes, Healthcare Delivery, Methodological Evaluation, Quantitative Methods*

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