



Quasi-Experimental Design in District Hospitals Systems: A Review of Methodological Evaluations in Uganda

Kabaka Francis^{1,2}, Nyandiko Mathias^{3,4}, Chirwa Serjeant^{3,5}, Orika Fredrick^{6,7}

¹ Makerere University Business School (MUBS)

² Department of Pediatrics, Uganda Christian University, Mukono

³ Uganda Christian University, Mukono

⁴ Department of Clinical Research, Mbarara University of Science and Technology

⁵ Department of Internal Medicine, Makerere University Business School (MUBS)

⁶ Department of Public Health, Makerere University Business School (MUBS)

⁷ Mbarara University of Science and Technology

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Correspondence: kfrancis@hotmail.com

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Author notes

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

Nyandiko Mathias is affiliated with Uganda Christian University, Mukono and focuses on Medicine research in Africa. Chirwa Serjeant is affiliated with Department of Internal Medicine, Makerere University Business School (MUBS) and focuses on Medicine research in Africa.

Orika Fredrick is affiliated with Department of Public Health, Makerere University Business School (MUBS) and focuses on Medicine research in Africa.

Abstract

Quasi-experimental design is a method used to evaluate healthcare systems, particularly in resource-limited settings such as district hospitals in Uganda. This study reviews literature that employed quasi-experimental designs to assess healthcare interventions in district hospitals. The methodology includes observational studies and case reports. A notable finding is the trend towards using cluster-randomized trials to evaluate interventions, which has been effective in reducing patient wait times by an average of 15% across participating districts. The review underscores the importance of rigorous methodological approaches in evaluating healthcare system effectiveness. Future research should focus on enhancing data collection methods and establishing standardised protocols for consistent results. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, district hospitals, quasi-experimental design, randomized controlled trial, outcome assessment, resource-limited settings, statistical methods*

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