



# Methodological Assessment of Quasi-Experimental Designs in Community Health Centre Systems in Uganda,

Mwesigwa Nsubuga<sup>1</sup>

<sup>1</sup> Makerere University, Kampala

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**Correspondence:** [mnsbuga@outlook.com](mailto:mnsbuga@outlook.com)

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## Author notes

*Mwesigwa Nsubuga is affiliated with Makerere University, Kampala and focuses on Medicine research in Africa.*

## Abstract

Community health centers in Uganda have implemented various interventions aimed at improving healthcare access and utilization. However, the effectiveness of these interventions is often evaluated through quasi-experimental designs. A comprehensive search strategy was employed, including electronic databases and grey literature. Studies were assessed using established guidelines for assessing the validity and reliability of quasi-experimental designs. The review identified a total of 15 studies meeting inclusion criteria. Methodological quality varied widely across these studies, with some showing strong adherence to quasi-experimental design principles such as randomization or matching controls. Despite the methodological heterogeneity observed, this systematic literature review provides insights into common strengths and weaknesses in the evaluation of community health centre systems in Uganda. Future research should prioritise clear reporting of study methods to enhance transparency and comparability. Standardised methodologies could improve consistency across studies. Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African health systems, quasi-experimental design, randomized controlled trials, programme evaluation, community engagement, outcome measurement, intervention effectiveness*

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