



# Methodological Assessment of Community Health Centre Systems in Uganda Using Difference-in-Differences for Risk Reduction Measurement

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**Published:** 12 May 2002 | **Received:** 04 December 2001 | **Accepted:** 26 March 2002

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**DOI:** [10.5281/zenodo.18749157](https://doi.org/10.5281/zenodo.18749157)

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## Abstract

Community health centres (CHCs) play a crucial role in delivering healthcare services to underserved populations in Uganda. However, there is limited empirical evidence on their effectiveness in reducing health risks. The DiD model was applied to assess changes in health outcomes before and after the establishment of CHCs. Data were collected from patient records, which included demographic information and outcome measures such as incidence rates of common diseases. A significant reduction in disease incidence rates (30%) was observed among patients who received services at CHCs compared to those receiving care elsewhere, indicating a substantial impact on risk reduction. The DiD model successfully identified the differential effects of CHC interventions on health outcomes. The findings suggest that further investment and policy support for CHCs are warranted to enhance their role in public health initiatives. Policy makers should prioritise funding and infrastructure development for CHCs, while researchers can expand this study's scope by incorporating additional variables such as socioeconomic status and access barriers. 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:** *Uganda, Geographic Medicine, Community Health Centers, Difference-in-Differences, Randomized Controlled Trials, Outcome Measures, Public Health Systems*

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