



Methodological Evaluation of Community Health Centre Systems in Uganda Using Difference-in-Differences for Adoption Rates

John Mukasa Mutwali¹

¹ Department of Clinical Research, Medical Research Council (MRC)/UVRI and LSHTM Uganda Research Unit

Published: 22 October 2001 | Received: 25 July 2001 | Accepted: 13 September 2001

Correspondence: jmutwali@gmail.com

DOI: [10.5281/zenodo.18727014](https://doi.org/10.5281/zenodo.18727014)

Author notes

John Mukasa Mutwali is affiliated with Department of Clinical Research, Medical Research Council (MRC)/UVRI and LSHTM Uganda Research Unit and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Methodological evaluation of community health centres systems in Uganda: difference-in-differences model for measuring adoption rates in Uganda. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Methodological evaluation of community health centres systems in Uganda: difference-in-differences model for measuring adoption rates, Uganda, Africa, Medicine, case study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. 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, Community Health Centres, Methodology, Difference-in-Differences, Adoption Rates, Public Health Systems, Spatial Analysis*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge