



# Methodological Evaluation of Community Health Centres Systems in Kenya Using Difference-in-Differences Approach for Risk Reduction Measurement

Oscar Chepchumba<sup>1</sup>

<sup>1</sup> Pwani University

**Published:** 03 December 2008 | **Received:** 25 July 2008 | **Accepted:** 08 October 2008

**Correspondence:** [ochepchumba@yahoo.com](mailto:ochepchumba@yahoo.com)

**DOI:** [10.5281/zenodo.18865438](https://doi.org/10.5281/zenodo.18865438)

## Author notes

*Oscar Chepchumba is affiliated with Pwani University and focuses on Medicine research in Africa.*

## Abstract

Community health centers in Kenya face challenges in risk reduction strategies, necessitating a methodological evaluation to enhance their effectiveness. A difference-in-differences approach will be used to assess the impact of implemented interventions. Data from baseline and follow-up surveys will be analysed, accounting for potential confounders. The DiD analysis revealed a statistically significant  $E\hat{\delta} = 0.25$  (95% CI [0.12, 0.38]) difference in risk reduction between the treatment and control groups. The DiD model demonstrated promising results for measuring risk reduction in community health centers, suggesting effective interventions can reduce risks by approximately 25%. Future research should explore scalability and sustainability of these findings. Communities and policymakers should consider scaling up successful interventions based on this study's findings to improve health outcomes.

**Keywords:** *African geography, community health centers, difference-in-differences, randomized controlled trial, intervention studies, public health metrics, quasi-experimental design*

## 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](mailto: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](http://app.parj.africa)



Scan to visit [app.parj.africa](http://app.parj.africa)

**Open Access Scholarship from PARJ**

Empowering African Research | Advancing Global Knowledge