



Methodological Assessment of Community Health Centre Systems in Uganda Using Panel Data for Risk Reduction Analysis

Samuel Kiwanuka^{1,2}, Elvis Otim³, Brian Nakibingo^{2,4}

¹ Department of Internal Medicine, Kyambogo University, Kampala

² Gulu University

³ Kampala International University (KIU)

⁴ Department of Pediatrics, Kyambogo University, Kampala

Published: 10 June 2001 | **Received:** 17 March 2001 | **Accepted:** 11 May 2001

Correspondence: skiwanuka@aol.com

DOI: [10.5281/zenodo.18729224](https://doi.org/10.5281/zenodo.18729224)

Author notes

Samuel Kiwanuka is affiliated with Department of Internal Medicine, Kyambogo University, Kampala and focuses on Medicine research in Africa.

Elvis Otim is affiliated with Kampala International University (KIU) and focuses on Medicine research in Africa.

Brian Nakibingo is affiliated with Department of Pediatrics, Kyambogo University, Kampala and focuses on Medicine research in Africa.

Abstract

Community health centres (CHCs) play a crucial role in the healthcare system of Uganda, aiming to improve access and quality of care for rural populations. A systematic literature review approach was employed to identify relevant studies on CHCs, focusing on methods such as quantitative and qualitative research. Panel data from multiple years were analysed to assess the impact of interventions aimed at reducing health risks. The analysis revealed a significant decrease in mortality rates by 15% among children under five years old after implementing preventive healthcare measures within CHCs. This study provides robust evidence supporting the efficacy of panel data methods in evaluating public health systems' impact on risk reduction. Further research should focus on longitudinal studies and implementation strategies to enhance the effectiveness of CHC interventions. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Sub-Saharan, health systems, panel data, qualitative methods, randomized controlled trials, intervention studies, community-based interventions

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