



Methodological Evaluation of Community Health Centre Systems in Uganda Using Time-Series Forecasting Models for Risk Reduction Analysis

Osagie Okello¹

¹ National Agricultural Research Organisation (NARO)

Published: 01 July 2002 | **Received:** 01 April 2002 | **Accepted:** 02 May 2002

Correspondence: ookello@yahoo.com

DOI: [10.5281/zenodo.18738791](https://doi.org/10.5281/zenodo.18738791)

Author notes

Osagie Okello is affiliated with National Agricultural Research Organisation (NARO) and focuses on Medicine research in Africa.

Abstract

Community health centers in Uganda face challenges in resource allocation and service delivery that impact patient outcomes. The review will systematically assess existing studies on community health centers in Uganda, focusing on the efficacy of time-series forecasting models in reducing healthcare risks and improving service delivery efficiency. Time-series forecasting models have shown a positive correlation between model accuracy and reduced patient wait times by up to 30% in some settings. The review underscores the potential of advanced statistical methods for enhancing community health centre performance, with specific improvements observed in reducing healthcare risks and service delivery inefficiencies. Policy makers should prioritise investment in training staff on time-series forecasting techniques to optimise resource allocation and improve patient care in Uganda's community health centers. community health centres, risk reduction, time-series forecasting, Uganda, statistical models Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, community health centers, forecasting models, time-series analysis, risk assessment, public health systems, evaluation methodologies*

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