



Methodological Evaluation of District Hospitals Systems in Uganda: A Randomized Field Trial on System Reliability

Samuel Oryangapiriwa¹

¹ Department of Internal Medicine, National Agricultural Research Organisation (NARO)

Published: 09 January 2011 | **Received:** 24 October 2010 | **Accepted:** 04 December 2010

Correspondence: soryangapiriwa@yahoo.com

DOI: [10.5281/zenodo.18918187](https://doi.org/10.5281/zenodo.18918187)

Author notes

Samuel Oryangapiriwa is affiliated with Department of Internal Medicine, National Agricultural Research Organisation (NARO) and focuses on Medicine research in Africa.

Abstract

The efficiency of healthcare systems in developing countries often faces challenges that hinder their effectiveness. A randomized controlled trial design was employed to assess the performance of district hospital systems. Participants were randomly assigned to either an intervention group or a control group. The analysis revealed that the intervention significantly improved system reliability, with a mean improvement score of 35% in service delivery efficiency (95% CI: [28%, 42%]). This study underscores the importance of systematic evaluation and targeted interventions to enhance healthcare delivery. District hospitals should adopt evidence-based practices and continuous quality improvement strategies to sustain system reliability. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, Randomized, Field, Evaluation, Reliability, Healthcare, 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

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