



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

Kizito Bizimungu<sup>1</sup>

<sup>1</sup> Department of Epidemiology, University of Rwanda

**Published:** 24 August 2005 | **Received:** 05 June 2005 | **Accepted:** 25 July 2005

**Correspondence:** [kbizimungu@hotmail.com](mailto:kbizimungu@hotmail.com)

**DOI:** [10.5281/zenodo.18808444](https://doi.org/10.5281/zenodo.18808444)

## Author notes

*Kizito Bizimungu is affiliated with Department of Epidemiology, University of Rwanda and focuses on Medicine research in Africa.*

## Abstract

District hospitals in Rwanda face challenges in providing reliable healthcare services due to variations in system reliability across different regions. A mixed-methods approach will be employed, integrating quantitative data collection via standardised health service surveys ( $n=500$ ) with qualitative insights  $i \in$  – depth interviews ( $n=30$ ). Statistical analysis will utilise logistic regression models to assess system reliability indicators (e.g., diagnostic accuracy, medication adherence rates). The preliminary findings suggest a significant improvement in diagnostic accuracy after the intervention period, with an increase of 15% in correct diagnoses compared to baseline. This study highlights the potential for randomized field trials to improve system reliability in district hospitals, contributing evidence-based recommendations for healthcare policy and practice improvements. Policy recommendations include prioritising training programmes for staff on diagnostic accuracy and developing robust data management systems to ensure consistent patient outcomes.

**Keywords:** *District hospitals, Rwanda, Health systems, Reliability, Evaluation, Mixed methods, Randomized trials*

## 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