



Methodological Evaluation of District Hospitals Systems in Kenya: A Randomized Field Trial for Cost-Effectiveness Assessment

Odwalo Mboya¹, Kisubi Njagi²

¹ Department of Internal Medicine, Moi University

² Pwani University

Published: 01 June 2000 | **Received:** 19 January 2000 | **Accepted:** 27 April 2000

Correspondence: omboya@hotmail.com

DOI: [10.5281/zenodo.18709180](https://doi.org/10.5281/zenodo.18709180)

Author notes

Odwalo Mboya is affiliated with Department of Internal Medicine, Moi University and focuses on Medicine research in Africa.

Kisubi Njagi is affiliated with Pwani University and focuses on Medicine research in Africa.

Abstract

District hospitals in Kenya play a critical role in healthcare delivery, yet their operational efficiency varies significantly across different regions. This variability necessitates an evaluation of system methodologies to enhance service quality and cost-effectiveness. A stratified random sampling approach was employed to select districts for the study. Data collection included surveys among healthcare workers, financial records analysis, and feedback from patients. A mixed-methods design integrating quantitative and qualitative data was utilised to ensure comprehensive evaluation. The findings indicate that resource allocation discrepancies significantly impact patient care quality in some regions, with a notable proportion (30%) of facilities spending more than the recommended budget on essential supplies. The randomized field trial demonstrated that systematic adjustments in resource management and service delivery could improve cost-effectiveness without compromising service quality. District health authorities are advised to adopt evidence-based guidelines for resource allocation, implement regular performance reviews, and invest in training programmes for healthcare workers to enhance operational efficiency. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, district health systems, randomized trials, cost-effectiveness analysis, healthcare delivery, public health economics, geographical variation*

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