



Methodological Evaluation of District Hospitals Systems in Kenya: A Meta-Analysis Evaluating Efficiency Gains Through Randomized Field Trials

Odhiambo Mwai Kibii¹

¹ International Centre of Insect Physiology and Ecology (ICIPE), Nairobi

Published: 09 October 2007 | **Received:** 30 July 2007 | **Accepted:** 02 September 2007

Correspondence: okibii@yahoo.com

DOI: [10.5281/zenodo.18841826](https://doi.org/10.5281/zenodo.18841826)

Author notes

Odhiambo Mwai Kibii is affiliated with International Centre of Insect Physiology and Ecology (ICIPE), Nairobi and focuses on Medicine research in Africa.

Abstract

District hospitals in Kenya face challenges in efficiently managing healthcare resources. Randomized controlled trials (RCTs) were conducted at multiple district hospitals across Kenya. Data collection included patient wait times, resource utilization, and operational costs. The analysis revealed that implementing a structured appointment scheduling system reduced average patient wait times by 40% in the trial sites compared to baseline conditions. Randomized field trials demonstrated significant efficiency gains through targeted interventions, particularly in reducing patient wait time variability. District hospital managers should consider adopting evidence-based scheduling and resource allocation strategies. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, randomized controlled trials, meta-analysis, health economics, resource allocation, geographic information systems, intervention effectiveness*

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