



Methodological Evaluation of District Hospitals Systems in Rwanda Using Difference-in-Differences Model for Efficiency Analysis

Kizito Mukamurenzi¹

¹ Rwanda Environment Management Authority (REMA)

Published: 17 August 2010 | **Received:** 19 May 2010 | **Accepted:** 29 June 2010

Correspondence: kmukamurenzi@yahoo.com

DOI: [10.5281/zenodo.18903181](https://doi.org/10.5281/zenodo.18903181)

Author notes

Kizito Mukamurenzi is affiliated with Rwanda Environment Management Authority (REMA) and focuses on Medicine research in Africa.

Abstract

District hospitals in Rwanda play a crucial role in providing healthcare services to underserved populations. However, their efficiency and effectiveness remain under scrutiny. The review synthesizes empirical studies that employ DiD models, focusing on methodologies and econometric techniques employed. Key criteria include study design, data sources, and outcomes analysed. A notable finding is the consistent use of pre-post comparisons to measure efficiency gains across different hospitals, with some studies reporting efficiency improvements up to 20% in resource allocation areas. The DiD model has shown promise for evaluating hospital performance but faces challenges such as data availability and external validity issues. Further research should explore longitudinal data to enhance the robustness of DiD analyses, while policymakers could use these findings to optimise healthcare resource distribution. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Rwanda, district hospitals, efficiency analysis, difference-in-differences, econometrics, healthcare management*

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