



Methodological Evaluation of District Hospitals in Rwanda: A Randomized Field Trial on Efficiency Enhancement Systems

Gaterwa Umunyika¹, Kashambuzi Mugaba², Hutu Ngoga²

¹ Department of Clinical Research, University of Rwanda

² Rwanda Environment Management Authority (REMA)

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Correspondence: gumunyika@gmail.com

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Author notes

Gaterwa Umunyika is affiliated with Department of Clinical Research, University of Rwanda and focuses on Medicine research in Africa.

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

Hutu Ngoga 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 healthcare delivery, but their efficiency is often suboptimal. A systematic review of existing literature on methods used for evaluating and improving the operational efficiency of health facilities in Rwanda. District hospitals show varying degrees of inefficiency, with some achieving improvements when adopting evidence-based management practices. Current methodological approaches to assessing hospital efficiency are varied but generally lack robust statistical validation. More rigorous randomized field trials and standardised protocols for evaluating hospital efficiency should be implemented. district hospitals, Rwanda, healthcare efficiency, systematic review, randomized field trial 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, evaluation methods, healthcare systems, performance measurement, intervention effectiveness, geographic determinants*

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