



# Methodological Evaluation of District Hospital Systems in Rwanda: A Randomized Field Trial for Yield Improvement Analysis

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**Published:** 19 July 2011 | **Received:** 03 February 2011 | **Accepted:** 26 May 2011

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**DOI:** [10.5281/zenodo.18922863](https://doi.org/10.5281/zenodo.18922863)

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### Abstract

District hospital systems in Rwanda face challenges in delivering healthcare services efficiently and effectively. A mixed-method approach was employed, including quantitative data collection via standardised surveys and qualitative insights from interviews with hospital staff. The analysis revealed an average yield increase of 15% in outpatient services due to improved operational procedures implemented through the trial. The randomized field trial demonstrated significant potential for enhancing healthcare delivery at district hospitals, leading to better service outcomes and patient satisfaction. District hospital managers should adopt standardised operational protocols based on those tested during the trial to further improve yield. district hospitals, health system improvement, yield analysis, Rwanda, randomized field trials Treatment effect was estimated with  $text \{ \text{logit} \} (\pi) = \beta_0 + \beta^{-1} p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Geographic, Rwanda, District Hospitals, Methodology, Evaluation, Randomized Controlled Trial, Yield Improvement*

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