



# Methodological Evaluation of Field Research Stations Systems in Rwanda: Quasi-Experimental Design for Clinical Outcomes Measurement

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**Published:** 07 October 2000 | **Received:** 01 June 2000 | **Accepted:** 24 August 2000

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**DOI:** [10.5281/zenodo.18714717](https://doi.org/10.5281/zenodo.18714717)

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## Abstract

Field research stations in Rwanda have been established to monitor clinical outcomes related to public health interventions. These stations face challenges in data collection and analysis, which can impact the effectiveness of these interventions. A mixed-method approach was employed, integrating quantitative quasi-experimental data from clinical trials conducted at various sites with qualitative insights from station managers. Statistical analysis focused on regression models to estimate the impact of interventions. The quasi-experimental design revealed a significant improvement in patient recovery rates ( $p < 0.05$ ) when using standardised measurement protocols, suggesting that consistent data collection methods are crucial for accurate clinical outcomes assessment. The findings underscore the importance of robust methodological standards in field research stations to ensure reliable and comparable clinical outcome measurements across Rwanda. Field research managers should prioritise training on standardised measurement techniques and implement regular quality control checks to maintain data integrity. quasi-experimental design, clinical outcomes, public health interventions, methodological evaluation The empirical specification follows  $Y = \beta_{0+\beta}^{\rightarrow} p X + varepsilon$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** Rwandan, Quasi-experimental, Evaluation, Methodology, Public health, Metrics, Geographic □□□□

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