



# Methodological Evaluation of Maternal Care Facilities Systems in Rwanda: A Quasi-Experimental Design for Clinical Outcome Measurement

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## Abstract

Maternal care facilities in Rwanda have been pivotal for improving maternal health outcomes. However, there is a need to evaluate and improve their operational effectiveness. A mixed-methods approach was employed, including quantitative data analysis and qualitative interviews. Data were collected from 50 randomly selected facilities in four provinces of Rwanda. The findings indicate that while overall service utilization rates improved by 17% compared to baseline ( $p < 0.05$ ), there was a significant variation in performance across different regions, with some areas showing a decrease in care-seeking behaviors. This study provides insights into the effectiveness of maternal care facilities and highlights regional disparities that require targeted interventions. Specific recommendations include enhancing community engagement strategies and improving facility-based training programmes to address identified gaps. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** Rwanda, Geographic Medicine, Maternal Health, Quasi-Experimental Design, Outcome Measurement, Clinical Trials, Public Health Systems

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