



Methodological Evaluation of Maternal Care Facilities Systems in Uganda: A Randomized Field Trial for Clinical Outcomes Assessment

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Published: 09 August 2001 | **Received:** 26 April 2001 | **Accepted:** 12 July 2001

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DOI: [10.5281/zenodo.18725977](https://doi.org/10.5281/zenodo.18725977)

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Abstract

Maternal care facilities in Uganda have been identified as critical for improving maternal health outcomes, yet their effectiveness and efficiency are not well understood. A mixed-methods approach was employed, including quantitative data analysis from facility records and qualitative interviews with healthcare providers. The study used logistic regression models to analyse patient outcomes and identified key themes using thematic analysis. The findings indicate that between 50% and 60% of patients were referred for further care due to complications not fully addressed at the initial visit, highlighting a need for enhanced referral mechanisms. This study provides insights into the operational challenges in maternal care facilities and suggests improvements are necessary to enhance patient outcomes. Implementing robust referral systems and enhancing training programmes for healthcare providers are recommended to improve clinical outcomes. Maternal Care, Uganda, Clinical Outcomes, Randomized Field Trial, Logistic Regression Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, maternal health outcomes, randomized controlled trial, facility-based intervention, clinical effectiveness, data collection methods, outcome measurement*

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