



Methodological Assessment of Maternal Care Facilities Systems in Uganda: Quasi-Experimental Design for Clinical Outcome Evaluation

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Abstract

Maternal care facilities in Uganda face challenges in delivering consistent quality of care to expectant mothers. A quasi-experimental design was employed to compare the effectiveness of different maternal care facilities. Patient satisfaction surveys were conducted using a Likert scale (1-5), and data from 300 randomly selected patients across four facilities were analysed. Patient satisfaction scores varied significantly between facilities, with Facility A scoring an average of 4.2 out of 5 on the satisfaction scale, compared to Facility C at 2.8. The quasi-experimental design revealed substantial differences in patient experience across different maternal care facilities. Facilities with lower patient satisfaction should prioritise quality improvement initiatives focused on staff training and resources allocation. 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, African, Maternity, ClinicalTrials, Ethics

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