



Evaluation of Maternal Care Facilities Systems in Uganda: Panel Data Estimation for Clinical Outcomes Analysis

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Abstract

Maternal care in Uganda faces significant challenges, particularly in terms of facility quality and accessibility. A mixed-methods research design incorporating both quantitative (panel data) and qualitative approaches was employed to assess the effectiveness of maternal care facilities. The study utilised a generalized linear mixed model (GLMM) with robust standard errors to estimate the impact of facility quality on patient outcomes. There is evidence suggesting that higher levels of investment in infrastructure and staff training are associated with improved clinical outcomes, as measured by reduced neonatal mortality rates. The findings underscore the need for continued improvements in maternal care facilities to enhance clinical effectiveness and patient safety. Investment in upgrading infrastructure and enhancing professional development programmes is recommended to improve the quality of maternal care services in Uganda. Maternal Care, Panel Data Estimation, Clinical Outcomes, Mixed-Methods Research Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Uganda, Maternal Health, Panel Data, Quantitative Analysis, Outcome Measures, Facility Assessment, Regression Analysis*

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