



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

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Abstract

Maternal care facilities in Kenya often face challenges related to quality of care, leading to suboptimal clinical outcomes for mothers and infants. A randomized controlled trial was conducted with 400 participants across five randomly selected hospitals. Data collection included pre- and post-trial assessments using validated scales for clinical outcomes. Maternal mortality rates showed a significant reduction of 25% in the intervention group compared to the control group ($p < 0.01$, CI: -30%, -20%). The randomized field trial demonstrated substantial improvements in maternal health outcomes across participating facilities. Immediate implementation of evidence-based care protocols and continuous monitoring are recommended for further improvement. Maternal Care, Clinical Outcomes, Randomized Field Trial, Kenya 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: African geography, maternal health metrics, randomized trials, clinical outcomes, quality improvement, patient safety protocols, resource allocation assessment

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