



# Methodological Validation of Maternal Care Facilities in Ethiopia Through Randomized Field Trials

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## Author notes

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## Abstract

Maternal care facilities in Ethiopia face challenges related to quality of care and patient outcomes. A randomized field trial was conducted across selected hospitals, with a total sample size of 3000 pregnant women. Data collection included pre- and post-trial assessments using standardised scales for patient outcomes and quality metrics. The trial revealed a significant improvement in maternal health indicators such as reduced neonatal mortality by 15% (95% CI: -20, -10) compared to control groups. Quality of care scores showed an average increase of 20% across facilities. The randomized field trials provided robust evidence for the effectiveness and reliability of maternal care systems in Ethiopia, validating their clinical performance through direct observation and measurement. Further implementation should focus on scaling up validated models to all regions, with a particular emphasis on training healthcare staff and improving infrastructure where needed. Maternal Care, Randomized Trials, Quality Improvement, Neonatal Mortality 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, randomized controlled trials, quality improvement, outcome measurement, healthcare systems, biostatistics*

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