

Evaluating the Impact of Maternal Care Facility Systems on Clinical Outcomes in Kenya

A Quasi-Experimental Intervention Study

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ABSTRACT

Background: Maternal mortality remains a critical public health challenge in sub-Saharan Africa. Systemic weaknesses in care delivery at health facilities are a recognised contributor to adverse outcomes, yet robust evidence on the causal impact of facility-level systems interventions is limited.

Purpose and objectives: This study aimed to quantify the causal effect of a structured maternal care facility systems intervention on key clinical outcomes. The primary objective was to estimate its impact on the rate of postpartum haemorrhage (PPH).

Keywords: *Maternal mortality, Sub-Saharan Africa, Health systems evaluation, Quasi-experimental study, Clinical outcomes, Kenya*

Article Highlights

- Quasi-experimental study across 42 public health facilities in Kenya.
- Intervention bundle included protocols, equipment, and simulation training.
- Adjusted analysis showed a significant 28% reduction in PPH rate.
- Findings support integrated systems strengthening within existing infrastructure.

Study Design

Difference-in-differences analysis using a generalized linear mixed model with facility and time fixed effects, clustered standard errors.

This study provides causal evidence for facility-level interventions in a low-resource setting.

ABSTRACT-ONLY PUBLICATION

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