



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

Oscar Kioni^{1,2}, Jane Omondi^{2,3}

¹ Egerton University

² Kenya Agricultural and Livestock Research Organization (KALRO)

³ Department of Clinical Research, Egerton University

Published: 02 December 2007 | **Received:** 30 June 2007 | **Accepted:** 15 October 2007

Correspondence: okioni@hotmail.com

DOI: [10.5281/zenodo.18846095](https://doi.org/10.5281/zenodo.18846095)

Author notes

Oscar Kioni is affiliated with Egerton University and focuses on Medicine research in Africa.

Jane Omondi is affiliated with Department of Clinical Research, Egerton University and focuses on Medicine research in Africa.

Abstract

Maternal care facilities in Kenya are crucial for newborn health; however, their effectiveness varies significantly. A randomized controlled trial was conducted with 200 pregnant women at four randomly selected facilities. The primary outcome measures included neonatal Apgar scores, birth weight, and early postnatal complications. Among the facilities tested, Facility B demonstrated a statistically significant improvement in neonatal Apgar scores (mean difference of 3 points on a scale of 0 to 10) compared to baseline. This was within the 95% confidence interval. Facility B's maternal care system significantly improved newborn health outcomes, warranting further investigation and implementation in other facilities. Health authorities should prioritise implementing Facility B's maternal care protocols across Kenya to enhance neonatal survival rates. Maternal Care Facilities, Neonatal Health Outcomes, Randomized Field Trial Treatment effect was estimated with $\text{text}\{ \text{logit} \}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Kenya, Maternal Health, Randomized Controlled Trial, Outcome Evaluation, Community Health Services, Data Collection Methods, Quality Assurance

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge