



Home Visits and SMS Alerts in Antenatal Care Follow-Up Systems in Kenyan Primary Healthcare Facilities: A Systematic Literature Review

Oscar Kinyanjui¹, Winnie Murithere²

¹ Maseno University

² Department of Clinical Research, Egerton University

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Correspondence: okinyanjui@hotmail.com

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Author notes

Oscar Kinyanjui is affiliated with Maseno University and focuses on Medicine research in Africa.

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

Abstract

This study addresses a current research gap in Medicine concerning Implementing Antenatal Care Follow-Up Systems Using Home Visits and SMS Alerts in Kenyan Primary Healthcare Facilities in Kenya. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured review of relevant literature was conducted, with thematic synthesis of key findings. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Implementing Antenatal Care Follow-Up Systems Using Home Visits and SMS Alerts in Kenyan Primary Healthcare Facilities, Kenya, Africa, Medicine, systematic review This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. 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, Geographic, Methodology, MobileHealth, AntenatalCare, Telemedicine, PrimaryHealthcare

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