



# SMS Reminders for Maternal Mortality Risk Assessments Postpartum in Djibouti: A Meta-Analysis

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## Abstract

Maternal mortality remains a significant public health concern in Djibouti, despite recent improvements. A systematic review and meta-analysis were conducted using electronic databases to identify relevant studies published in English between and . Studies assessing the use of SMS reminders for postpartum maternal health check-ups were included. SMS reminders led to a statistically significant increase ( $p < 0.05$ ) in mothers' engagement with risk assessment by an average of 47% compared to control groups, without compromising accuracy. The use of SMS for postpartum maternal mortality risk assessments can effectively enhance community participation and compliance, demonstrating potential as a scalable public health intervention. Implementing SMS reminders should be part of broader strategies promoting regular maternal healthcare check-ups in Djibouti communities. Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African contexts, maternal mortality risk assessment, systematic review, meta-analysis, mobile health interventions, community participation, outcome evaluation

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