



Mobile Telehealth in Malaria Mitigation Among Pregnant Mozambican Women

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Abstract

Malaria remains a significant health concern in Mozambique, particularly among pregnant women who are at higher risk of severe complications such as maternal anemia and low birth weight. The study employed a mixed-methods approach involving surveys, focus groups, and routine health record reviews. A convenience sample of 500 pregnant women was recruited from rural clinics across Mozambique. Data were analysed using descriptive statistics and thematic analysis to identify patterns in malaria prevention behaviors. Mobile telehealth services significantly reduced the incidence of self-reported malaria symptoms by 42% among participants, with a confidence interval of -38% to -46%. Mobile telehealth appears effective in improving adherence to antimalarial treatment protocols and reducing malaria prevalence among pregnant women. Further studies should explore the scalability and sustainability of mobile telehealth interventions for broader application across Mozambique's rural health systems. Malaria, Pregnancy, Telemedicine, Mobile Health, Antimalarial Treatment Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Pest Control, Geographic Information Systems, Remote Sensing, Mobile Health, Telemedicine, EpiModel, Spatial Epidemiology*

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