



# SMS-Mediated Malaria Prevention Strategies and Their Impact on Child Mortality in Ugandan Indigenous Communities,

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## Abstract

Malaria is a significant public health issue in Uganda, particularly affecting indigenous communities where traditional methods of malaria prevention are often insufficient. A mixed-methods approach was employed, including a cross-sectional survey and qualitative interviews. Data were collected from 150 Indigenous Ugandan households over two years. SMS reminders for malaria prevention resulted in an 8% reduction in child mortality rates compared to non-SMS groups ( $p < 0.05$ ). The SMS intervention showed promise in enhancing community awareness and adherence to preventive measures, though further studies are needed. Communities should be actively involved in the design of malaria prevention campaigns to ensure long-term effectiveness. SMS reminders, Malaria prevention, Child mortality, Indigenous Ugandan communities Treatment effect was estimated with  $\text{text}\{\logit\}(\pi) = \beta_0 + \beta_1 X_1$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Malaria, Indigenous Communities, SMS Technology, Mortality Rates, Public Health, Community Intervention, Geographic Epidemiology*

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