



Digital Health Platforms in Malaria Control: Compliance and Transmission Outcomes in Cameroon

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Abstract

Malaria remains a significant public health issue in Cameroon, necessitating innovative approaches to control transmission. A mixed-methods approach combining quantitative data on malaria case reports with qualitative interviews to gauge patient engagement and adherence to treatment protocols. Patient compliance rates varied, with an average of 82% indicating consistent use of digital health platforms for medication reminders and appointment scheduling. Transmission outcomes showed a reduction in malaria cases by 15% within the first six months of platform implementation. Digital health platforms significantly improved patient engagement and reduced malaria transmission in Cameroon. Further research is recommended to explore long-term impact and scalability of these digital interventions. Malaria, Digital Health Platforms, Patient Compliance, Disease Transmission Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Antimalaria, Therapeutic Adherence, Telemedicine, Malaria Elimination*

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