



Mobile App Interventions for Malaria Prevention Among Vulnerable Groups by Community Health Workers in Democratic Republic of Congo: A Comparative Study

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Abstract

Malaria remains a significant public health issue in many African countries, particularly among vulnerable groups such as children and pregnant women. In the Democratic Republic of Congo (DRC), community health workers play a crucial role in malaria prevention efforts. The study employed quantitative methods with data from surveys conducted in two selected districts. Random sampling was used to ensure representativeness, and a logistic regression model was applied to analyse the impact of app usage on malaria incidence. Mobile apps demonstrated a statistically significant reduction in reported cases of malaria (OR = 0.75, $p < 0.01$) among participants who regularly used the apps compared to those who did not. The findings suggest that mobile app interventions can be effective tools for improving malaria prevention practices among vulnerable groups in DRC. However, further research is needed to explore long-term sustainability and scalability. Communities and policymakers should invest in ongoing support and maintenance of these apps, alongside traditional health education methods, to maximise their impact on reducing malaria cases.

Keywords: *African Geography, Community Health Workers, Mobile Technologies, Malaria Prevention, Geographic Information Systems, Epidemiology Models, Vulnerable Populations*

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