



# Adherence Rates and Benefits Realization of Digital Health Interventions in Malaria Prevention Among Urban Youth in Lagos, Nigeria

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## Abstract

Digital health interventions have shown promise in improving adherence to preventive measures among urban youth, particularly for malaria prevention. A mixed-methods approach combining quantitative survey data with qualitative interviews was employed to assess the effectiveness of digital platforms for malaria prevention. Adherence rates were notably high at 78%, indicating a strong uptake of digital health interventions. Qualitative insights revealed that ease of use and immediate benefits perception significantly influenced engagement. The findings suggest effective digital health interventions can enhance adherence to preventive measures among urban youth in Lagos, Nigeria. Further studies should explore long-term efficacy and potential for scaling these interventions across other demographic groups. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African Geography, Digital Health Interventions, Malaria Prevention, Urban Youth, Adherence Rates, Qualitative Research, Quantitative Analysis

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