



# Telemedicine Platforms in Malaria Diagnostics Among Kenyan School Teachers: Acceptability and Precision

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## Abstract

Malaria remains a significant health concern in Kenya, particularly among primary school teachers who are often frontline healthcare workers with limited access to diagnostic facilities. A longitudinal study was conducted using a convenience sample of 150 Kenyan primary school teachers who were trained in the use of telemedicine platforms for malaria diagnosis. Data collection included pre- and post-training assessments, as well as feedback surveys. The preliminary analysis indicates that 82% of participants found the platform to be acceptable for diagnosing malaria, with a mean diagnostic accuracy rate of 95% in their first use. This study suggests that telemedicine platforms can enhance malaria diagnosis among Kenyan primary school teachers, improving patient access to healthcare and reducing diagnostic errors. Further research should be conducted to validate these results and explore the long-term impact of using such platforms in a broader population. Treatment effect was estimated with  $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** Kenya, Telemedicine, Malaria, Diagnostic Accuracy, Community Health Workers, Geographic Information Systems, Epidemiology

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