



Electronic Data Tracking Enhances Accuracy Assessment of Rapid Diagnostic Tests in Malaria Diagnosis, Rural Kenya 2002

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Abstract

Rapid Diagnostic Tests (RDTs) are used for malaria diagnosis in rural Kenya but their accuracy can vary. A longitudinal study was conducted in a rural Kenyan community using RDTs with electronic data tracking systems for quality control. Electronic data tracking significantly improved the accuracy assessment of RDTs, reducing false positives by 15% (95% CI: -20 to -10%). The use of electronic data tracking enhanced the reliability and consistency of malaria diagnosis in rural settings. Rural health clinics should implement electronic data tracking systems for RDTs to improve diagnostic accuracy. Malaria, Rapid Diagnostic Tests, Electronic Data Tracking, Rural Kenya Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Rapid Diagnostic Tests, Malaria, Kenya, Electronic Data Tracking, Geographic Information Systems, Spatial Analysis, Community Health Surveillance

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