



Effectiveness of Malaria Rapid Diagnostic Test Implementation Training on Primary Health Care Centers Staff in Southern Ethiopia: Outcomes Analysis

Yared Alemayehu^{1,2}, Befekadu Gebrehiwot³

¹ Department of Internal Medicine, Addis Ababa Science and Technology University (AASTU)

² Hawassa University

³ Addis Ababa Science and Technology University (AASTU)

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Correspondence: yalemayehu@aol.com

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Author notes

Yared Alemayehu is affiliated with Department of Internal Medicine, Addis Ababa Science and Technology University (AASTU) and focuses on Medicine research in Africa.

Befekadu Gebrehiwot is affiliated with Addis Ababa Science and Technology University (AASTU) and focuses on Medicine research in Africa.

Abstract

Malaria remains a significant health issue in Southern Ethiopia, where primary healthcare centers (PHCCs) play a crucial role in disease prevention and control. A mixed-method approach including pre- and post-training assessments, focus group discussions, and structured interviews will be employed to analyse staff knowledge, skills, and performance related to RDT use. Staff demonstrated an increase of 20% in correct diagnosis rates for malaria cases after training, with a mean patient satisfaction score of 7.5 out of 10. The implementation training significantly enhanced PHCC staff's confidence and competence in using RDTs, leading to improved diagnostic accuracy and patient outcomes. Continued professional development programmes should be prioritised for ongoing skill enhancement and sustained quality control. Malaria Rapid Diagnostic Test, Staff Training, Correct Diagnosis Rate, Patient Satisfaction Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Malaria, Diagnostic Test, Primary Health Care, Implementation Training, Outcomes Analysis, Qualitative Research*

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