



Mobile Health Clinics and Patient Satisfaction in Malaria Treatment Among Rural Ethiopian Farmers Over Three Years: A Longitudinal Study

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Abstract

Malaria remains a significant public health issue in rural Ethiopia, particularly among farmers who live far from healthcare facilities. We conducted a longitudinal study using structured interviews and analysed data collected through a validated patient satisfaction questionnaire (Likert scale). Patient satisfaction scores showed an average improvement of 15% from baseline, with significant variability across different seasons and clinic locations. Mobile health clinics have contributed to improved malaria treatment access in rural areas, but further attention is needed on seasonal variations and clinic placement for sustained improvements. Future studies should consider implementing mobile clinics during high-malaria season and incorporating community feedback mechanisms to enhance patient satisfaction. malaria, patient satisfaction, longitudinal study, mobile health clinics, Ethiopia

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: *Ethiopia, Geographic Mobility, Patient Retention, Qualitative Research, Longitudinal Analysis, Community Health Services, Malaria Epidemiology*

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