



Malaria Anemia Epidemic among Rural Ethiopian Women Farmers: An Epidemiological Study

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Abstract

Malaria is a significant public health issue in rural Ethiopia, particularly affecting women farmers due to their higher risk and vulnerability. A cross-sectional study was conducted using a structured questionnaire survey in four randomly selected villages. Data on malaria incidence, demographic information, and health indicators were collected from 300 participants. The study found that 72% of respondents reported experiencing at least one episode of malaria within the past year, with a significant association between malaria episodes and anemia prevalence ($p < 0.05$). Rural Ethiopian women farmers face substantial health challenges due to frequent malaria infections, leading to high rates of anemia. Interventions targeting malaria prevention and nutritional support should be prioritised to mitigate the impact on this vulnerable 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: Ethiopia, Malaria, Anemia, Epidemiology, Public Health, Cross-Sectional Study, Rural Population

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