



Artemisinin Combination Therapy Incentive Programmes and Malaria Treatment Outcomes among Rural Tanzanian Farmers: An Analysis of Data

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Abstract

Malaria remains a significant public health challenge in rural Tanzania, particularly among farmers who are at higher risk due to their geographic location and economic activities. A mixed-methods approach was employed, combining quantitative data from a cross-sectional survey with qualitative insights through in-depth interviews. Data were collected from a representative sample of 1000 rural farmers using standardised questionnaires designed to measure ACT use, treatment outcomes, and patient feedback. The findings indicate that adherence rates to ACT increased by 35% among incentivized participants compared to non-incentivized controls. Patient satisfaction scores also showed a significant improvement with incentives, reaching an average score of 8.2 out of 10. ACT incentive programmes appear effective in enhancing malaria treatment outcomes and patient engagement in rural Tanzania, warranting further implementation and evaluation. Public health authorities should consider expanding ACT incentive schemes to include more farmers and monitor their impact on broader population health metrics. 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: *Sub-Saharan, African, Malaria, Treatment, Ethiopia, Intervention, Healthcare*

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