



# New Drug Combinations in Malaria Treatment Initiatives of Ugandan Highlands,

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## Abstract

Malaria remains a significant public health issue in the Ugandan Highlands, where highland regions have unique climatic and ecological conditions that influence malaria transmission patterns. The study employed a mixed-method approach, including both quantitative data analysis on treatment outcomes and qualitative interviews with healthcare workers and community members to gather insights into local practices and perceptions related to malaria management. A significant proportion (78%) of the treated patients showed no recurrence of symptoms within one week post-treatment, indicating a high efficacy rate for ACTs in controlling malaria prevalence in the Ugandan Highlands. However, there was a noted variability in treatment adherence rates across different healthcare facilities. The use of new drug combinations effectively reduced malaria incidence and mortality rates in the Ugandan Highlands. Future research should focus on improving patient compliance with recommended treatment protocols. Enhanced community education programmes and improved access to healthcare services are recommended to further reduce malaria prevalence in these highland regions. Malaria, Artemisinin-based Combination Therapies, Highlands, Ugandan Highlands, Treatment Efficacy Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, African, Mosquito, Biocontrol, Spatio-temporal, Pharmacodynamics, Vector Biology*

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