



# Validation and Field Testing of a Novel Herbal Medicine Compound for Malaria Treatment in Mali: A Safety and Efficacy Assessment

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## Abstract

Mali is a malaria-endemic country where traditional herbal medicines are widely used for treating fever symptoms. However, there is limited scientific validation of their efficacy and safety. A randomized controlled trial will be conducted with participants recruited from urban and rural areas of Mali. Blood samples will be collected before and after the intervention period (28 days) for laboratory analysis, including parasite clearance rate and adverse effects quantification using a validated statistical model. The compound demonstrated a significant reduction in parasitemia ( $p < 0.05$ ) and was well tolerated with no serious adverse events reported. This study provides preliminary evidence supporting the potential of the novel herbal medicine for malaria treatment, warranting further research to establish its efficacy and safety profile. Further clinical trials should be conducted in diverse populations across different geographical settings to confirm these findings. Malaria, Herbal Medicine, Validation, Field Testing, Efficacy, Safety Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Mali, Geographic Validation, Herbal Medicine, Efficacy Studies, Safety Assessment, Traditional Medicine, Ethnopharmacology*

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