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	SUMMARY EVALUATION REPORT CHECKLIST		

**Study Title:** A Revised Tafenoquine Dose to Improve Radical Cure for Vivax Malaria -Tafenoquine

Dosing revised

**Short title:** TADORE

**Phase of the trial:** Phase-III

**CTA Number:** ET-CT-0042

**Protocol No.:**

**Version No.:** V2.6 dated December 19, 2024

**National Principal Investigator (NPI):** Tamru Shibiru (Dr)

**Trial Site:** Arba Minch General Hospital

**Sponsor:** Oxford

**Ethics Approval date:** April 22, 2024

**Submission Date to EFDA:** December 25, 2023

**EFDA Status of trial (Approval or Rejection):** Approved      **Date:** August 19, 2024

## Study Rationale

Tafenoquine (TQ), as a single dose regimen, has significant advantages over the longer courses of primaquine (PQ) needed to achieve radical cure of *P. vivax*. The current data available show that the recommended fixed dose of 300mg TQ in adults is too low and compromised by a lack of weight-based dosing. To ensure maximal impact on health outcomes, the recommended dose for TQ must be optimized for clinical practice. Our study will assess the efficacy and safety of a higher weight based TQ dose regimen.

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## General objective / Study aims

### Primary endpoint

- compared between TQRevised and the PQ7 (non-inferiority)
- compared between TQRevised and TQStandard (superiority)

## Primary Objectives

### Objective

- To compare the efficacy of a revised weight-based TQ regimen (TQRevised: target dose 7.5mg/kg) with high dose primaquine (PQ7: 7mg/kg over 7 days)
- To compare the antirelapse efficacy of TQRevised with the fixed-dose TQ regimen (TQStandard: 300mg fixed dose)

### Outcome measures

The incidence risk (time to first event) of any *P. vivax* parasitaemia during the 4-month follow up period as determined by microscopy.

- compared between TQRevised and the PQ7 (non-inferiority)
- compared between TQRevised and TQStandard (superiority)

## Secondary Objectives and Outcome Measures

### Objective

- To compare the tolerability and safety of TQRevised, TQStandard and PQ7
- To understand feasibility and acceptability of a weight-based dosing scheme
- To undertake host and parasite molecular analysis, serological analysis and assess markers of inflammation

### Outcome measures

- The incidence risk (time to first event) of any *P. vivax* parasitaemia during the 4-month follow up period as determined by microscopy compared between TQStandard and PQ7
- The incidence risk (time to first event) of symptomatic *P. vivax* parasitaemia during the 4 months follow up period as determined by microscopy
- The incidence risk (time to first event) of any *P. vivax* parasitaemia at 6-month follow up as determined by microscopy
- The incidence risk (time to first event) of symptomatic *P. vivax* parasitaemia at 6-month follow up as determined by microscopy.
- The incidence rate (events per person-time) of any *P. vivax* parasitaemia during the 6 months follow up period as determined by microscopy.
- The incidence rate (events per person-time) of symptomatic *P. vivax* parasitaemia during the 6 months follow up period as determined by microscopy
- The incidence risk of developing severe anaemia (Hb < 5g/dl) or moderate ( $\geq 5$ g/dl and <7g/dl) anaemia within 7 and 14 days of starting treatment and/or requiring blood transfusion within the 6 months follow up period.
- The incidence risk of an acute drop in Hb of >25% to <7g/dl within 7 and 14 days of starting treatment
- The number and proportion of adverse and serious adverse events in each arm within 42 days after start of treatment.

## Study Design

A parallel group open label, randomised, controlled non-inferiority trial in patients with uncomplicated *P. vivax* malaria.

## Study Population

Only patients with a G6PD activity  $\geq 70\%$

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## Eligibility Criteria

### Inclusion Criteria:

- *P. vivax* peripheral parasitaemia (mono-infection)
- G6PD normal status (G6PD activity  $\geq 70\%$  of the adjusted male median as determined by the Standard G6PD (SD Biosensor, ROK))
- Fever (temperature  $\geq 37.5^{\circ}\text{C}$ ) or history of fever in the preceding 48 hours
- Age  $\geq 18$  years
- Haemoglobin at presentation  $\geq 8\text{g/dl}$
- Written informed consent.
- Living in the study area and willing to be followed for six months

### Exclusion criteria:

- Danger signs or symptoms of severe malaria
- Pregnant or lactating females
- Regular use of drugs with haemolytic potential
- Known hypersensitivity to any of the study drugs
- History of any psychiatric disorder.
- History of liver disease.
- Age  $> 65$  years

## Study Duration

3 years

## Investigational Medicinal Product

Tafenoquine

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### Intervention (s)

**Formulation:** tablet

**Dose:** single weight-based dose of TQ (target dose 7.5mg/kg)

**Route of administration:** PO

**Other interventions:**

- PQ7: high dose PQ (total dose 7 mg/kg) over 7 days
- TQ Standard: single fixed dose of 300mg TQ

### Sample size

790 participants will be enrolled in the TQ Revised and PQ7 arms and 278 in the TQ Standard arm. The total sample size is therefore 1068 patients. A maximum of 450 patients in Ethiopia.

### Evaluator's Risk/Benefit Assessment:

Given the serious side effects associated with TQ and PQ, adherence to Good Clinical Practice (GCP) is essential. Considering the epidemiology of malaria in Ethiopia, this trial will provide a critical perspective on future treatment modalities.