The GAMetocyticidal activity of sulphadoxinepyremthamine plus artesunate followed by a single dose of PrimaQuine

Submission date 31/10/2006	Recruitment status No longer recruiting	 Prospectively registered Protocol
Registration date 04/12/2006	Overall study status Completed	 [] Statistical analysis plan [X] Results
Last Edited 16/04/2010	Condition category Infections and Infestations	Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s) Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers N/A

Study information

Scientific Title

The activity of sulphadoxine-pyrimethamine plus artesunate (SP+AS) and SP+AS followed by a single dose of primaquine (0.75 mg/kg) against gametocytes in Tanzanian children with uncomplicated falciparum malaria

Acronym

GAM-PQ

Study objectives

Gametocytocidal drugs can play an important role in malaria control. The current study proposal is a pilot study to determine the efficacy of a gametocytocidal drug combination that consists of the extensively tested combination of Sulphadoxine-Pyrimethamine (SP) plus Artesunate (AS), followed by a single dose of Primaquine (PQ). This combination has previously been used and has been shown to be safe and efficient in clearing microscopic gametocytes. In this study we propose to confirm the safety in a Tanzanian population and to determine the added value of a single dose of PQ on the clearance of (sub-microscopic) gametocytes compared to SP and AS alone.

Hypothesis: Primaquine adds to the gametocyticidal effect of artesunate and clears submicroscopic gametocytes.

Ethics approval required

Old ethics approval format

Ethics approval(s)

1. London School of Hygiene & Tropical Medicine - 24th July 2006 (ref: 4097) 2. National Insititue of Medical Research, Tanzania - 21st June 2006 (ref: NIMR/HQ/R.8A Vol.XIII /446)

Study design Randomised single blind drug study

Primary study design Interventional

Secondary study design Randomised controlled trial

Study setting(s) Other

Study type(s) Treatment

Participant information sheet

Health condition(s) or problem(s) studied Uncomplicated febrile malaria

Interventions

Participants will be randomised to treatment with: 1. Sulfadoxine-pyrimethamine (SP) (500 mg S; 25 mg P/20 kg body weight, day zero) and artesunate (4 mg/kg, day zero, one, two) followed by a placebo (day two) 2. SP (500 mg S; 25 mg P/20 kg body weight, day zero) and AS (4 mg/kg, day zero, one, two) followed by primaguine (PQ) (0.75mg/kg, day two)

Intervention Type

Drug

Phase Not Applicable

Drug/device/biological/vaccine name(s)

Sulphadoxine-pyrimethamine, artesunate and primaquine

Primary outcome measure

The following are assesed on days one, two, three, seven, 14, 28 and 42 after treatment:

- 1. Resolution of clinical symptoms
- 2. Haematological recovery
- 3. Presense of malaria parasites by microscopy and molecular technicques
- 4. Presence of sexual stage parasites by microscopy and molecular technicques

Secondary outcome measures

- 1. Haematological recovery in G6PD deficient and non deficient individuals
- 2. Selection of drug-resistant parasite strains after treatment

Overall study start date

01/08/2006

Completion date

13/10/2006

Eligibility

Key inclusion criteria

- 1. Age more than three years
- 2. Residents of research area (5 km around the clinic)
- 3. Willingness to come for complete scheduled follow-up
- 4. Uncomplicated malaria with Plasmodium falciparum mono-infection
- 5. Parasitaemia of 500,000 to 900,000 parasites/ul
- 6. Temperature more than 37.5 and less than 39.5°C, or history of fever in the previous 24 hours
- 7. No history of adverse reactions to SP or PQ treatment

8. Understanding of the procedures of the study by parent or guardian and willing to participate by signing informed consent forms

Participant type(s)

Patient

Age group

Other

Sex Both

Target number of participants 100

Key exclusion criteria

1. General signs of severe malaria or haemoglobin count less than 8 g/dl

2. Presence of disease other than malaria causing febrile conditions

3. Unwilling to participate and sign informed consent forms

4. Eligibility for (or participation in) other malaria projects in the Korogwe area, notably the Intermittent Preventive Treatment of malaria in infants (IPTi) study

Date of first enrolment 01/08/2006

Date of final enrolment

13/10/2006

Locations

Countries of recruitment Tanzania

Study participating centre Joint Malaria Programme Moshi Tanzania Box 2228

Sponsor information

Organisation

The Netherlands Foundation for the Advancement of Tropical Research (NWO-WOTRO) (Netherlands)

Sponsor details

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Sponsor type Research organisation

Website http://www.nwo.nl/nwohome.nsf/pages/NWOA_6UB9S8_Eng

ROR https://ror.org/04jsz6e67

Funder(s)

Funder type Research organisation

Funder Name

The Netherlands Foundation for the Advancement of Tropical Research (NWO-WOTRO) (Netherlands) - Poverty Related Infection Oriented Research (PRIOR) (ref: WIZ93-465)

Results and Publications

Publication and dissemination plan Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<u>Results article</u>	results	10/10/2007		Yes	No