**Flow Diagram:**
Efficacy and Safety of Mefloquine and Mefloquine-Artesunate Combination Therapy for the Treatment of Uncomplicated *Plasmodium falciparum* Malaria

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**DAY 0**
**DAY OF ENROLLMENT**

- Thick smear
- *P. falciparum*
- Parasite density > 250 µl
- Consent/Assent signed
- Medical history and Temperature
  - Repeat thick smear; Blood for PCR
  - Urine for pregnancy test
- Selection of drug from randomized table
- 1<sup>st</sup> dose of drug
  - (MQ o MQ+AS)
  
**RETURN DAY 1**
**DAY 1**

**Medical History and Temperature**

- **Condition stable or improving**
  - 2\textsuperscript{nd} dose of MQ + AS
  - RETURN DAY 2

- **Signs/Symptoms of severe malaria**
  - Thick smear
  - **TREATMENT FAILURE**
    1. Treat with Q + TCN
    2. Terminate follow-up
    3. Refer to hospital

*P. falciparum* - Mefloquine and Mefloquine-Artesunate (MQ versus MQ+AS)
MINISTRY of HEALTH

P. falciparum - Mefloquine and Mefloquine-Artesunate (MQ versus MQ+AS)

DAY 2
Medical History and Temperature
Thick smear

Blood for MQ level

Parasite Density > DAY 0

TREATMENT FAILURE
1. Treat with Q + TCN
2. Terminate follow-up
3. Refer to hospital

Parasite density ≤ DAY 0

Condition stable or improving

1. Treat with Q + TCN
2. Terminate follow-up
3. Refer to hospital

Signs/Symptoms of severe malaria

3rd dose of Artesunate
(Patients receiving MQ-AS only)

RETURN DAY 3
**MINISTRY of HEALTH**

*P. falciparum* - Mefloquine and Mefloquine-Artesunate (MQ versus MQ+AS)

**D A Y  3**

**Medical History and Temperature**

**Thick smear**

- **Parasite Density > 25% DAY 0**
  - **TREATMENT FAILURE**
    1. Treat with Q + TCN
    2. Terminate follow-up
    3. Refer to hospital

- **Parasite Density > 0 but < 25% of DAY 0**
  - **Condition stable or improving**
  - **Signs/Symptoms of severe malaria or Temp. > 37.5°C**
    - **TREATMENT FAILURE**
      1. Treat with Q + TCN
      2. Terminate follow-up
      3. Refer to hospital

**RETURN DAY 7**

**NOTE:** If the thick smear is positive, continue taking thick smears daily until becomes negative.
**DAY 7**

**Medical History and Temperature**

**Thick smear**

- **Thick smear POSITIVE**
  - **TREATMENT FAILURE**
    1. Blood for PCR
    2. Treat with Q + TCN
    3. Terminate follow-up

- **Thick smear NEGATIVE**
  - **Temperature > 37.5°C**
    - Examine for other illnesses
  - **Temperature < 37.5°C**
    - **RETURN DAY 14**
    - **RETURN NEXT DAY**
**MINISTRY of HEALTH**

**P. falciparum - Mefloquine and Mefloquine-Artesunate (MQ versus MQ+AS)**

**DAY 14**

**Medical History and Temperature**

**Thick smear**

- **Thick smear POSITIVE**
  - **TREATMENT FAILURE**
    1. Blood for PCR
    2. Treat with Q + TCN
    3. Terminate follow-up

- **Thick smear NEGATIVE**
  - **Temperature > 37.5°C**
    - Examine for other illnesses
  - **Temperature < 37.5°C**
    - **RETURN DAY 21**
    - **RETURN NEXT DAY**
**Day 21**

Medical History and Temperature

Thick smear

- **Thick smear POSITIVE**
  - Treatment Failure
  1. Blood for PCR
  2. Treat with Q + TCN
  3. Terminate follow-up

- **Thick smear NEGATIVE**
  - Temperature > 37.5°
    - Examine for other illnesses
  - Temperature < 37.5°
    - Return Day 28
  - Return Next Day
P. falciparum - Mefloquine and Mefloquine-Artesunate (MQ versus MQ+AS)

**DAY 28**

**Medical History and Temperature**

**Thick smear**

- **Thick smear POSITIVE**
  - **TREATMENT FAILURE**
    1. Blood for PCR
    2. Treat with Q + TCN
    3. Terminate follow-up

- **Thick smear NEGATIVE**
  - **Temperature > 37.5°**
    1. Examine for other illnesses
    2. Terminate follow-up
  - **Temperature < 37.5°**
    Terminate follow-up