

Antimalarial

CHLOROQUINE

- agamz

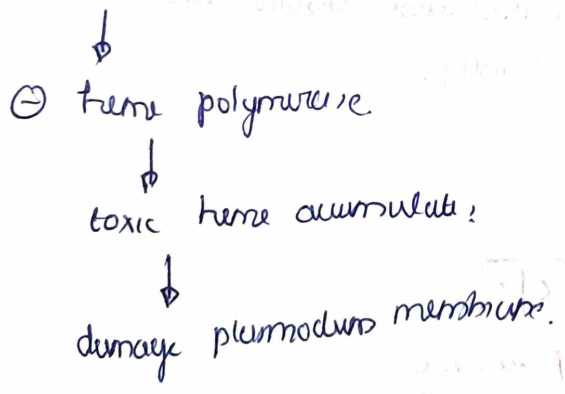
- rapidly acting - Erythrocytic
- 4-aminoquinoline derivative.

DOC is

- p. vivax, ovale, malariae.
- large Vd → tissue accumulation.

MOA

Chloroquine concentrates in acidic food vacuole.



(diff MOA in autoimmune disease)

USE

- 1) malaria
- 2) autoimmune - SLE, RA.
- 3) Amoebiasis. Extra intestinal (-liver)
- 4) lupus reaction.

short term itching

ADR

long term

• ocular toxicity (retinopathy)

• hair bleaching, skin pigmentation.

- rashes
- photoallergy

C/E

• G6PD deficiency.

• porphyria.

* does not kill liver schizonts.

* accumulates in melanin-rich tissues (eye - risk of retinal toxicity).

* safe in pregnancy

⊖ treatment of . on

Treatment of uncomplicated malaria.

I. vivax, ovale, malariae.

→ Chloroquine + 300mg + for next 2 day. + primaquine 15 mg/day - 14 days.
 600mg after 8 hours
 1st day.

in chloroquine resistance.

DOXY + meflo → chemo prophylaxis

→ ABCT.

→ (Quinine 600mg 8 hourly) x 7 days + (doxycycline 100mg/day) x 7 days + primaquine 15mg/day x 14 days.

II. chloroquine sensitive f. malariae.

Chloroquine + 300mg after 8 hours + for 2 days + primaquine 45mg.
 600mg 1st day.
 Single dose on day 2.

in chloroquine resistant f. malariae.

→ ABCT.
 • (Quinine 600mg 8 hourly) x 7 days + (doxycycline 100mg/day) x 7 days + primaquine 45mg single on day 2.

Treatment of Complicated f.m. Cerebral malaria.

IV

- ① Artesunate:
- 2.4 mg/kg IV/IM
 - 2.4 mg/kg after 12 hours, 24 hours.
 - 2.4 mg/kg - once daily - 7 days.

Switch to 3 day oral ACT in between whenever patient can take/tolerate.

- ② Artemether:
- 3.2 mg/kg IM - 1st day.
 - 1.6 mg/kg daily - 7 days.
 - Switch over - same as above.

ACT for uncomplicated f. malaria

① Artesunate - Sulfadoxine + pyrimethamine

first line drug for uncomplicated f. malaria. 2nd 3rd trimester can be used

- Artesunate - 100mg BD - 3 days.
- sulfadoxine 1500mg.
- pyrimethamine - 75mg.

single dose

ACT = Artesunate + Sulfadoxine + Pyrimethamine

2. Artesunate - mefloquine

- artesunate - 100mg BD - 3 days.
- mefloquine - 750mg on 2nd day
500mg on 3rd day.

3. ^{meflo}Artesunate - lumefantrine

- artesunate 80mg BD
 - lumefantrine 480mg BD
- x 3 days.

4. Artesunate - amodiaquine

- artesunate 200mg/day
 - amodiaquine 600mg/day
- x 3 days.

Artemisinin based combination
Therapy

WHO recom for all

acute uncomplicated falciparum
malaria.

adv

- rapid clinical & parasitological cure
- High cure rate, low recrudescence rate.
- absence of parasite resistance
- good tolerability profile.