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COURSE TITLE: SYSTEMIC PHARMACOLOGY IN NURSING

COURSE CODE: PHA 324

Classification of antimalarial agents and state of the mechanism of action of each class of drug listed.

1. Antimalarial drug: PRIMAQUINE

Classification: Hypnozoiticidal and Gametocytocidal

Mechanism of action: Primaquine interferes with the electron transport in the parasite during respiration process.

2. Antimalarial drug: CHLOROQUINE

Classification: Blood schizontocides

Mechanism of action: Chloroquine accumulate in the acidic food vacuoles of intraerythrocytic throphozoites and thereby prevent haemoglobin degradation.

3. Antimalarial drug: ARTEMISININ DIHYDROARTEMISININ

Classification: Gametocytocidal

Mechanism of action: Involves the hemi-mediated decomposition of the peroxide bridge to produce carbon-centered free radicals.

4. Antimalarial drugs: CURCUMIN

Classification: Blood schizontocides

Mechanism of action: Curcumin inhibits the activity of enzymes and lipids peroxides.

5. Antimalarial drugs: ARTEMETHER ( BETA ARTEMETHER)

Classification: Gametocytodal

Mechanism of action: It acts against erythrocytic stages of P.falciparum and inhibits nucleic acid and protein synthesis.

6. Antimalarial drugs: LUMEFANTRINE

Classification: Blood schizontocides

Mechanism of action: Lumefantrine is believed inhibits nucleic ans formation of beta hematin by forming a complex with hemin.