NAME: ADEYANJU OLUFUNMILOLA FAYOKEMI

CLASS: NURSING 300 LEVEL

MATRIC NO: 17/MHS02/008

COURSE: SYSTEMIC PHARMACOLOGY

COURSE CODE: PHA 324

**QUESTION**

Classify the antimalarial agents and state the mechanism of action of each of the class of drugs listed.

|  |  |  |
| --- | --- | --- |
| **ANTIMALARIAL AGENT** | **CLASS** | **MECHANISM OF ACTION** |
| PRIMAQUINE | Hypnozoiticidal and gametocytocidal | It interferes with the electron transport in the parasite during respiration process. |
| LUMEFANTRINE | Blood schizontocides | Lumefantrine inhibits nucleic and formation of beta hematin by forming a complex with hemin |
| CURCUMIN | Blood schizontocides | It inhibits the activity of enzymes and lipid peroxides |
| CHLOROQUINE | Blood schizontocides | It accumulates in the acidic food vacuoles of intraerythrocytic trophozites and thereby prevent haemoglobin degradation |
| ARTEMISININ  DIHYDROARTE-  MISININ | Gametocytocidal | Involves the heme-mediated decomposition of the peroxide bridge to produce carbon-centred free radicals |
| ARTEMETHER  BETA-ARTHEMETER | Gametocytocidal | It acts against erythrocytic stages of P.falciparum and inhibits nucleic and protein synthesis |
|  |  |  |