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CLASS: NURSING 300 LEVEL

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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.

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| **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 |
| ARTEMISININDIHYDROARTE-MISININ | Gametocytocidal | Involves the heme-mediated decomposition of the peroxide bridge to produce carbon-centred free radicals |
| ARTEMETHERBETA-ARTHEMETER | Gametocytocidal | It acts against erythrocytic stages of P.falciparum and inhibits nucleic and protein synthesis |
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