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(57) Abstract :
Advent of resistance to various antimalarial drugs by plasmodium strain makes malaria more fatal & life threatening disease in the world. Current need is to invest more effort and resources to research for pharmacologically active medicinal plants. Phytomedicines provide opportunities. PTCs to multi drug resistance malaria parasite known for resistance to chloroquine, quinine, artemisinin, mefloquine, halofantrine, atovaquone and sulfadoxine. The phytomedicines provide products to handled parasite infection in animals. Interaction in the parasite understand the behaviour of chloroquine resistant plasmodium PTCs with chloroquine, effects plant extracts of Andrographis paniculata for their resistance reversal. Chloroquine is a drug for treatment drugs for malaria all over the world. Whereas, PTCs cause chloroquine drugs are not able to produce sufficient antimalarial effect in resistant PTCs. Its resistance is prevalent in many parts of the world, reported by hundreds of scientist world wide in malaria. Most of the parasite plant extracts are also not able to produce sustained therapeutic response when given alone. Whereas, plant extract shows a better effect when given with standard drug chloroquine than alone. Andrographis paniculata whole plant extract in non-toxic extracts (hydroalcoholic, ethanolic extracts) dose ranges 100 mg/ kg to 1000 mg/ kg when combining chloroquine 5 mg/ kg to 20 mg/ kg shows significant Parasitemia and RBC count parameters improvement like reduce efficacy of malaria multi-drug antimalarial use. Some other parameters Hematological, survival days & Weight are benefitted as well. Intro to Nat Intro extracts (hydroalcoholic extract at higher dosage 1000 mg/ kg produce efficacy than 500 mg/ kg dose group. Our innovation of multi-drug resistance strain of plasmodium suggested here in the research to using antimalarial plant extracts during regular malaria treatment to achieve better antimalarial results in the clinical manifestation of malaria and to avoid development of resistance against the used drugs. Our evaluating standardized plant extracts in combination as oral dosage also with prophylactic therapeutics includes 3 months treatment in food and for malaria with Positive results may pave a path for inclusion of herbal extracts as further as role treatment in resistance Malaria based for malaria.

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