(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/10/2021

(21) Application No.202111048343 A

(43) Publication Date: 26/11/2021

(54) Title of the invention: USE OF IONIC TO NON-IONIC PLANT EXTRACTS OF ANDROGRAPHIS PANICULATA (KALMEGH) FOR RESISTANCE REVERSAL OF QUININE (EQ.) EFFICACY AT DOSE 20 MG/ KG AS ANTIMALARIAL USE IN CHLOROQUINE RESISTANT PLASMODIUM STRAIN AT DOSE RANGE 300 MG/ KG TO 1000 MG/ KG.

:A61K0036190000, A61K0031470600, (51) International A61K0031490000, A61K0031470000. classification A61K0009480000 (86) International :NA Application No :NA Filing Date (87) International : NA Publication No (61) Patent of Addition to Application Number :NA Filing Date (62) Divisional to :NA Application Number

:NA

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(57) Abstract

Filing Date

Advent of resistance to various antimalarial drugs by plasmodium made malaria more fatal & life-threatening disease in the world. Current need is to invest more effort and interest in research for antimalarials from medicinal plants. Plasmodium yoelii nigeriensis (PYn) is multi drug resistance malaria parasite known for resistance to chloroquine, quinidne, amodiaquine, halofantrine, mepacrine and mefloquine. The plasmodium yoelii produces hundred percent infection in animals. Innovators in this patent understand the behavior of chloroquine-resistant plasmodium PYn with chloroquine, whole plant extracts of Andrographis paniculata for their resistance reversal. Chloroquine is a first line treatment drugs for malaria all over the world. Wherever, 3-4 times chloroquine doses are not able to produce sufficient plant extracts are also not able to produce minimal therapeutic response when given alone. Whereas, plant extract shows a better effect when given with minimal dose chloroquine than alone. Andrographis paniculata whole plant ionic to non-ionic extracts (hydroalcoholic to ethanolic extract) dose ranges 300 mg/ to 1000 mg/ kg when antimalarial use. Some other parameters Haemoglobin, survival days & Weight are benefitted as well. Ionic to Non-ionic extracts (hydroalcoholic) extracts during regular malaria treatment to achieve better antimalarial results in the clinical menifestations of malaria and to avoid development of resistance against the used drugs. Also referring standardized plant extract(s) in combination as oral dosage also with prophylactic (travelers) malaria & malaria treatment or food-aid for malaria will. Positive results may pave a path for inclusion of herbal extracts or herbs as side treatment or resistance-breaker food for malaria.

No. of Pages: 21 No. of Claims: 7