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## IN VIVO EVALUATION OF COMBINATION EFF CHLOROQUINE WITH CEPHARANTHIN<sup>®</sup> OR M HYDROCHLORIDE AGAINST BLOOD-INDUCEL CHLOROQUINE-RESISTANT PLASMODIUM BEI INFECTIONS

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Abstract: The combination effects of chloroquine with Cepharanth

hydrochloride were evaluated against a blood-induced infection wit P. berghei NK 65 in ICR mice. The infected mice in an untreated ( progressively increasing parasitemia leading to mouse death. A twobase/kg of chloroquine alone produced little effect against P. bergh all mice died from day 13 to 15 with an increasing parasitemia. A fc mg/kg of Cepharanthin<sup>®</sup> alone produced no antimalarial activity, an 10. A four-day dosage of 50 mg/kg of minocycline hydrochloride a effect, but all mice died by day 18. Furthermore, mice given chloroq Cepharanthin<sup>®</sup> died from day 14 to 15. Mice given Cepharanthin<sup>®</sup> hydrochloride also died from day 15 to 17. On the other hand, infer chloroquine plus minocycline hydrochloride survived during the exp with chloroquine alone, minocycline hydrochloride alone, chloroquin or Cepharanthin<sup>®</sup> plus minocycline hydrochloride showed low paras drug administration and a few subsequent days, but then malaria pa the bloodstream of the treated mice until death. On the other hand, 1 mice given chloroquine plus minocycline hydrochloride decreased c not be detected by microscopic examination during the observation strongly suggests that the combination effects of chloroquine and mi are worthy of evaluation in human malaria. The results also clearly c and importance of in vivo experiments in estimating the activities of

Key words: <u>*Plasmodium berghei* NK 65</u>, <u>Cepharanthin<sup>®</sup></u>, <u>minor</u> <u>activity</u>, <u>chloroquine-resistance</u>



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