

EFFECTS OF THE COMBINATION OF DIMINAZINE ACETURATE AND *Khaya senegalensis* STEM BARK EXTRACT IN INFECTION OF RATS.

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ABSTRACT

Comparative efficacy of khaya senegalensis, diminazine aceturate and their combination was conducted on Wistar albino rats experimentally infected with *Trypanosoma brucei*. The criteria used in the assessment of the trypanocidal effect of the therapy include the examination of the blood for parasites, as well as haematological changes following treatment. Diminazine aceturate, khaya senegalensis alone and its combination produced varied level of aparasitaemia in the rats; the highest efficacy was recorded with the diminazine - khaya senegalensis combination. The packed cell volume decreased significantly following parasite inoculation but increased after treatment while the total white blood cell value increased in the infected rats but improved with treatment. Chemical analysis of the plant shows it contains tannins, flavonoids, saponins and reducing sugars which alone or in combination may account for its trypanocidal efficacy when used alone or in combination with diminazine aceturate