

## EFFICACY STUDY OF MAGNESIUM CHLORIDE SUPPLEMENTATION AND DIMINAZENE ACETURATE IN RATS INOCULATED WITH *TRYPANOSOMA BRUCEI*

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### ABSTRACT

The effect of MgCl<sub>2</sub> and Diminazene aceturate in experimental *Trypanosoma brucei* infected rats was investigated. Infection with the parasite caused a progressive increase in parasitaemia which resulted in a significant ( $P < 0.05$ ) decrease in packed cell volume, Red blood cell count and white blood cell count in the infected not treated (group F), the positive control and other groups C,D,E, and G respectively. The treated groups C,D,E and G improved remarkably, but were not clear of the parasites, most especially group D, which was given subtherapeutic dose of diminazene aceturate and supplemented MgCl<sub>2</sub> orally at 100 mg/kg per os. This prolonged the life of the rats to up to 27 days. The combination of MgCl<sub>2</sub> and diminazene reduced the severity of trypanosome infection and hence alleviated the anaemia and leukopenia.

### Key words

MgCl<sub>2</sub>, Diminazene aceturate, Trypanosoma, blood, Parasitaemia