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

K.T. BIOBAKU, O.P. AJAGBONNA, O.L AJAYI, 0.0. ADEBOWALE
Department of Veterinary Physiology and Pharmacology, Department of Veterinary Pathology, Department Of Veterinary Public Health And Reproduction, College Of Veterinary Medicine, University Of Agriculture, Abeokuta, Ogun State, Nigeria

ABSTRACT
The effect of MgCl₂, and Diminazene aceturate in experimental *Trypansoma 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 MgCl₂ orally at 100 mg/kg per os. This prolonged the life of the rats to up to 27 days. The combination of MgCl₂ and diminazene reduced the severity of trypanosome infection and hence alleviated the anaemia and leukopenia.

Key words
MgCl₂, Diminazene aceturate, Trypanosoma, blood, Parasitaemia