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Studies on the Relationship Between Dietary Energy Levels and the Severity of Trypanosoma Bruce/Infection: The Effects of Diet and Infection on Blood and Plasma Volumes And Erythrocyte Osmotic Fragility Of Growing Pigs

MAKINDE, M.O.* , OTESILE, E.B. and FAGBEMI , B.O.

Faculty of Veterinary Medicine, University of Ibadan, Ibadan, Nigeria

ABSTRACT

The effects of dietary energy level and trypanosoma brucei infection on plasma and blood volume and erythrocyte osmotic fragility of growing pigs were investigated. The mean corpuscular volume and erythrocyte osmotic fragility were not significantly ($p < 0.05$) affected by dietary energy level and/or infection. However significant ($p < 0.05$) increases were observed in the plasma volumes of infected pigs in the 3 energy levels but without corresponding increase in blood volumes except in pigs on low energy rations. The results indicated that high energy level may mitigate the pathogenic effects of T. brucei.

Keyword