

THE EFFECTS OF BILATERAL ORCHIDECTOMY ON SOME SERUM ENZYMES AND PROTEINS IN THE WEST AFRICAN DWARF BUCK

OYEYEMI , M.O, OLAIFA, A.K., ONWUKA, S.K., AKINLOYE A.K AND UTHO O.A.

Department of Veterinary Surgery and Reproduction and Department of Veterinary Anatomy University of Ibadan, Ibadan, Nigeria

Abstract

The effects of bilateral orchidectomy on serum protein and enzyme levels were investigated in 12 healthy West African Dwarf bucks over a 7 -week period. Although the activity of alkaline phosphatase increased over the period, the increases were not statistically significant. There was a significant drop ($p < 0.05$) in the activity of Aspartate amino transferase in the last 2 weeks of the study while alanine transaminase (ALAT) and gamma glutamyl transferase (GGT) showed variation, which were in some cases significant. There was a slight hypoproteinaemia, which was traceable mainly to the globulin fraction. In fact in the 2nd – 4th post-treatment week the albumin/globulin ratio (AGR) was inverted. The implication of these findings for the functional status of the castrates are discussed.

Key words

Bilateral orchidectomy, serum, enzymes, goat