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Effect of Vitamin E (alfa-tocopherol) Supplementation on Hemato-biochemical Profile of Race Stallions Horses

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Abstract

This study was conducted with the objective of determining the effect of vitamin E (α-tocopherol) supplementation on hemato-biochemical Parameters of stallion race horses in Khartoum State. The field study was carried out using 21 animals of gelding stallions race horses, thoroughbred, with average body weight 300 ± 60 kg and average age was 7 years. The horses were housed in three stables and all animals were fed green alfalfa and concentrates twice a day. The concentrate was supplemented with three levels of Vitamin E (0, 2000 IU, 3000 IU kg /feed) and 7animals were a assigned for each treatment. The experiment was carried out in two periods, the first during the period from November to December 2016 and the second from March to April 2017. Blood samples were collected from the jugular vein at the end experiments in both winter and summer season. Blood samples and serum were used to determine hemato-biochemical parameters. Statistical Analysis of data used SPSS for Windows version 20.0. Factorial Randomized Design with 2×3 (2 seasons and 3 levels of vitamin E) was used to conduct the experiments. The results indicated that with respect to the hematology parameters: HB, MCH, MCHC MCV, PCV, and TRBC increased significantly (P≤ 0.01) with increasing the level of vit. E in both winter and summer seasons.

Biography

The current research was conducted to study the components, acidity and total bacteria count of mish product Produced in Khartoum state. Twenty four (24) samples of mish ready for sale and consumption produce

She is in the third year of her Ph.D. and is a holder of DST-INSPIRE fellowship. She has qualified UGC NET exam twice. She is a senior research fellow at the Institute of Nuclear medicine and Allied Sciences, India. She is in the third year of her Ph.D. and is a holder of DST-INSPIRE fellowship. She has qualified UGC NET exam twice.