COMPARISON OF TESTOSTERONE LEVEL ON STALLION AND GELDING

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ABSTRACT

The aim of this study was to identify the difference of testosterone concentration in stallion and gelding using ELISA method. Blood samples of stallion and gelding were collected from jugular vein and let them until clotted. The edge of the blood bordered by tube wall pinned 4 to 5 times until loose from tube wall and wait for 1 hours. The clot of blood samples then were centrifuges at 3000 rpm for 10 minutes, the liquid part is serum and separated. The blood serum were stored frozen at -18°C until assay for testosterone. The counting of each stallion and gelding serum total testosterone using competitive ELISA method. The data were analyzed by t-test. The result test of equine’s blood serum testosterone levels an average of 0.64 ± 0.003 ng/ml for stallion and gelding had an average of 0.63 ± 0.001 ng/ml. It is higher for gelding because the time of castration for about 1 month. Calculation of statistical analysis with independent t-test showed t count = 8.153 and t table 0.05 = 2.16. The result of research showed significant differences between total testosterone of stallion with total testosterone of gelding (p > 0.05). It is concluded that total testosterone on stallion higher than gelding and testosterone can be found on gelding.

Key words: Testosteron, Gelding, Equine, Blood Serum, ELISA Method.