

Abstract:

Evaluation of biochemical and blood parameters of animals, helps Veterinary Clinicians Reaching the final diagnosis and proper treatment. Biochemical parameters of animal's blood are important indicators for Diagnoses. These parameters are Under the influence by gender, age, genetic, Pregnancy status, starvation, Environmental factors, stress and Transportation. This study has been done for survey the Effect of age, sex and pregnancy on serum lipid and lipoproteins of Sistani breed cattle's. Blood samples were obtained from 75 Sistani breed cattle of different genders and different age groups (< 2 , ≥ 2 and ≤ 5 , >5). in female groups were two classifications pregnant and non-pregnant. The blood samples transfer to the laboratory immediately near ice and Serum was separated by centrifugation, and be frozen in -20 C freezer. Biochemical tests were performed by means of auto analyzer. To investigate the effect of age on lipid profile parameters were used ANOVA test, also to compare the two in both age groups Tukey test was used. The effect of gender and pregnancy status of livestock on lipid profile parameters were analyzed by t test analysis. According to ANOVA and Tukey test, it was found that cholesterol, triglyceride, total lipids, VLDL-cholesterol, LDL-cholesterol and HDL-cholesterol in less than two years of age range had the maximum amount and in the age range between two-year and five-year-olds were the lowest. Except LDL-cholesterol, there was Significant differences between different age groups. According to t test analysis, it was found that cholesterol, triglyceride, total lipids, VLDL-cholesterol in the males were highest than females and LDL-cholesterol and HDL-cholesterol in females were more than males. However, the differences between males and females was not significant. According to t test analysis, it was found that cholesterol, triglyceride, total lipids, VLDL-cholesterol, LDL-cholesterol and HDL-cholesterol in non-pregnant cows were higher than pregnant. Except LDL-cholesterol and HDL-cholesterol, the differences between pregnant and non-pregnant cows was significant.

Key words: biochemical factors, Sistani breed Cattle, lipid profile



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