

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 Pakistani breed goat's. Blood samples were obtained from 100 Pakistani breed goat of different genders and different age groups (< 1 , ≥ 1 and ≤ 3 , >3). 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, total lipids and HDL-cholesterol range between one-year and three-years of age range had the maximum amount and in the age range older than three-year-olds were the lowest. Except VLDL-cholesterol and triglyceride there was not Significant differences between different age groups. According to t test analysis, it was found that triglyceride, total lipids, VLDL-cholesterol in the males were highest than females and cholesterol, LDL-cholesterol and HDL-cholesterol in females were more than males. According to t test analysis was significant the differences between males and females, it was found that cholesterol, triglyceride, total lipids, VLDL-cholesterol, LDL-cholesterol and HDL-cholesterol in pregnant goats were higher than non-pregnants. All of them the differences between pregnant and non-pregnant goats was significant.

Key words: biochemical factors, pakistani breed goat, lipid profile



University of Zabol
Graduate school
Faculty of Veterinary
Department of Basic science

**The Thesis Submitted for the Degree of M.Sc. (in the field of
Veterinary Medicine)**

**Effect of age, sex and pregnancy on serum lipid and lipoproteins
of Pakistani breed goat**

Supervisor:
Dr. S.H.Hashemi

Advisors:
Dr. A. Sarani

By:
M.Nazari

June 2017