

Abstract

The present study, to review the effect of age, sex and pregnancy on the changes of lipid profile and lipoproteins in blood serum of Baluchian Sheep in Sistan region in animal husbandry station of livestock research institute special of Zabol University, in autumn, over 100 sheep were healthy was carried out. The study animals were prepared from a farm and maintenance unit with closed culture system with same management, feeding and health conditions. Blood sampling to be done on fixed time in morning from the jugular vein then, samples immediately transferred to the laboratory. After clotting, samples serum were centrifuged at 3000 rpm for 15 minutes, and until measuring at -20 °C kept in the freezer. And using the auto analyzer the required measurement performed. The variables included cholesterol, HDL cholesterol, LDL cholesterol, triglyceride and total lipid. To analyze the results, was used by one way ANOVA and t test in SPSS statistical software 21, and the level of significance was considered ($p < 0.05$). Findings showed: cholesterol mean based on pregnancy status is significant and pregnant sheep have a higher mean. The amount of LDL and HDL cholesterol of Baluchian sheep based on age significantly was difference, 3-year age sheep have a higher mean. Other parameters on the basis of gender, pregnancy status and age showed no significant difference.

Keywords: Pregnancy, Age, Lipoprotein, Total Lipid, Baluchian Sheep



University of Zabol
Graduate school
Faculty of Veterinary
Department of Clinical

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**Effect of age, sex and pregnancy on serum lipid and
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Supervisor:
Dr. H. Hashemi

Advisor:
Dr. A. Sarani

By:
E. Sardashti Birjandi

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