

Fluctuations in Haemato-Biochemical Parameters in Organized and Farmer Flock of Goat Under Infestation of Lice

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Abstract: Parasites causes the economic wealth loss of any country and also the health of the animals the parasites are of two types viz. ecto and endo parasites. In ectoparasites ticks and lice are major while in endoparasites mites are included. Considering all these facts present investigation has been planned. This study evaluated the haematological and biochemical response of ticks captured in two different environmental reared goats such as organized and farmer flocks. The experimentally infected goats showed lower Hb, PCV, TEC, Neutrophil and MCHC values in the first three weeks of study but naturally infested groups showed higher values than the experimentally infected groups. Biochemical parameters viz. total protein and globulin were found higher a day 21 in experimental lice infected goats but albumin, A/G ratio, glucose, bilirubin and AST were considerably lower during 7 and day 21 in the experimental group when compared to naturally infected goats. There was no alteration in total protein, globulin, bilirubin and ALT between experimental and natural lice- infected goats but the A/G ratio was significantly higher in experimental lice infested goats. Anemia in lice-infested goats and attribute it to prolonged blood looses and loss of essential nutrients and oxidative stress which induce RBC damage and anemia. It is due to oxidative stress and biotransformation.

Keywords: Fluctuations, farmer flock, organized flock, hematology, biochemical, goats, lice

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