

## The Value Indicators at Sheep Infested with *Fasciola hepatica*

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**Abstract:** *Fasciola hepatica*, also known as sheep liver fluke is a parasitic flatworm of the class Trematoda, phylum Platyhelminthes that infects liver of various mammals, including humans. Fasciolosis is a parasitic disease of sheep caused by *Fasciola hepatica*. It has a worldwide distribution and it causes significant morbidity, mortality, liver damage and loss of weight. This study provides evidence for the presence of the parasite in the liver of sheep, haematological and biochemical values for 26 sheep samples which have been infested naturally from *Fasciola hepatica* parasite. Infestation was perceived throughout liver's macroscopic examination in slaughterhouses. The presence of *Fasciola hepatica* in liver is various. Haematological indicators which were analysed are haemoglobin level (Hb), erythrocytes number (RBC), packed cell volume (PCV), mean corpuscular volume (MCV), mean corpuscular haemoglobin (MCH), mean corpuscular haemoglobin concentration (MCHC) and leukocytes number (WBC). Disease follows lower red blood cell (RBC) count, haemoglobin (Hb), packed cell volume (PCV), mean corpuscular volume (MCV), whereas white blood cell (WBC) count, eosinophils, were significantly higher. Biochemical indicators analysed in this study are total proteins (TP), albumins, blood urea nitrogen (BUN), creatinine, total bilirubin and direct bilirubin. Total protein resulted under the norm. At the same time the protein fractions (albumin, globulin) and creatinine parameters resulted under normality. The trend of decreasing values of creatinine and protein and its fractions was present while total bilirubin and BUN were significantly higher.

**Keywords:** *Fasciola hepatica*, hematologic, biochemical, value, sheep.

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