



## **Endocrinopathies associated with Ascites syndrome in Poultry of Kashmir Valley**

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### **ABSTRACT**

*The present work was undertaken with the objective of exploring the status of some endocrine glands like thyroid glands, adrenal glands and pancreas in Ascites syndrome of poultry in Kashmir valley. The birds (broilers as well as layers) belonged to various poultry farms in Srinagar and Ganderbal districts of Kashmir valley (Jammu and Kashmir, India). A total of 82 disease outbreaks were recorded over a period of one year (from June 2015- July 2016), out of which 16 outbreaks of Ascites were observed in broilers while as no outbreak of Ascites was noted in layers. Diagnosis was confirmed after conducting thorough post mortem examination. The disease was diagnosed grossly. On post mortem examination, the adrenal glands, thyroid glands and pancreas were properly collected from the carcasses of the ascites affected birds and preserved in 10% neutral buffered formalin for fixation. The tissue samples were processed for routine paraffin embedding technique and 5 micron thin tissue sections were stained with Harris Haematoxylin and Eosin. From the present study it could be concluded that any morphological or functional aberrations in the endocrine glands will definitely, therefore, affect the functional capacities of the target organs as well as the glands itself. Endocrinopathies co-existed with Ascites syndrome in broilers, and were mostly of hemodynamic derangements. Hence investigations into endocrine gland disorders in poultry needs attention for increasing the productivity and profitability from this enterprise.*

**Keywords:** Ascites, Adrenal glands, Histopathology, Pancreas, Thyroid glands.