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**Abstract**

The present study aimed at investigating the comparative prevalence of Fascioliasis and Paramphistomiasis in selected area of Kaligang Upazilla under Lalmonirhat district. A cross sectional study was undertaken during March to April 2017. A total 75 fecal samples was collected from cattle with a semi-structured questionnaire having information on farmer’s demography, patient identy data, patient history, physical examination, and treatment interventions. Direct smear and sedimentation methods were performed afterwards for the diagnosis of parasitic eggs under microscope. There 58 animals were found positive for both parasitic infestations. The results revealed that the prevalence of *Fasciola* sp. (52%) is higher than *Paramphistomum* sp. (25.33%). In 39 Fasciola sp. affected female are 25 and the affected male are 14. Similarly incase of 19 *Paramphistomum* sp., the affected female are 10 and affected male are 9. During this study, in Fascioliasis, female are 33.33% and male are 18.66%. In Paramphistomiasis, female are 16% and male are 9.33%. The breed and BCS had significant effect (*p*<0.05) on the prevalence of irrespective of disease conditions. The frequency of parasitoses was significantly higher in local breed (81.33%) and cachectic animal (64%) than cross (18.67%) and normal (36%) animal accordingly. There was no significant effect (*p*>0.05) of sex, grazing pattern and anthelmintic administration on the prevalence of both parasitic infestations. Nevertheless, the prevalence is higher in those animals which had been managed through free grazing system (69.33%) and without deworming practices (62.67%). So, cross bred animal with good body conformation and the management of having regular deworming and zero-grazing system can be advisable to retard the prevalence of Fascioliasis and Paramphistomiasis.

**Key words:** *Fasciola* sp.,  *Paramphistomum* sp., Comparative prevalence, Fecal examination