ABSTRACT

The extract of Tribulus terrestris modulates the Haematological, Serological parameters and histopathology in Broiler chicks (Gallus domestics). In the present study the extract of Tribulus terrestris caused changes in many haematological parameters of chick (PCV, RBC, WBC and HGB concentration). The extract of Tribulus terrestris caused a significant reduction in PCV and RBC (p<0.05) count in all concentration also causing a decrease in other haematological parameters like HGB, WBC count especially at higher concentrations but this change was statistically not significant (p>0.05). Among serological parameters SGOT (AST) and SGOT(ALT) values showed an increase at higher concentrations but this change was statistically not significant (p>0.05). Statistically, there was no significant change in total protein concentration, serum albumin and globulin (p>0.05). There was a significant increase (p<0.05) in blood urea nitrogen in all concentration. There was no significant difference in creatinine concentration in chicks treated with different concentrations of Tribulus terrestris extract (p>0.05) The histopathology showed that the extract of Tribulus terrestris caused cell necrosis, cytoplasmic vacuolization, Leukocytic infiltration, Glomerular degeneration in kidneys and necrosis, fibrosis and tubular degeneration in some places in hepatic parenchyma or hepatocytes in broiler chicks treated with Tribulus terrestris.