

Effect of licorice (*Glycyrrhiza glabra*) powder supplemental on some hematology and biochemical parameters in Awassi local ewes

AL.Kaisy, A. S.A.

AL.Tamemy, S.M. A.

AL.Zuhairy, N.A.M.

College of Agric. University of Diyala

Abstract

This experiment was carried out at baquba in Diyala 60 Km east of Baghdad. During the period from 1/3/2013 to 1/5/2013. Fifteen Awassi ewes at similar ages (2.5 years) and weights (46.7 ± 0.29 kg) were chosen randomly and divided into three groups (5ewes/group). All animal were fed on same basal ration and supplemental with 2% and 4% of licorice powder for second and third groups, respectively, While first group was left without supplemental as a control group. At the end of the experiment, blood samples were taken from Jugulars vein from all ewes to measure some blood aspects including total white blood cells (WBC), total red blood cells and Packed cell volume (PCV), in addition to some (RBC) , Haemoglobin concentration (Hb), biochemical parameters (glucose , cholesterol and Urea) in the serum . The results showed a significant increase in WBC in both second and third group when compared with control group. On the contrary a significant decrease was found in blood cholesterol level in both second and third groups when compared with cholesterol level in both of control group