

**THE EFFECT OF GENISTEIN ON SOME PRODUCTIVE  
AND BIOCHEMICAL BLOOD TRAITS OF QUAIL  
( *Coturnix coturnix japonica* )**

Waleed Y. Kasim      Sajida A. Alshaheen      Majed H. AL-Asadi

Department of Animal production ,College of Agriculture, University of Basrah, Basrah,Iraq

*(Received 10 December 2013,Accepted17 February 2014)*

**Keywords :** genistein , productive traits , Quail.

**ABSTRACT**

This study was conducted at commercial poultry farm in Aboalkassib from 9/3/2013 to 9/5/2013. A total of 60 day old quail chicks were randomly distributed to four groups , 15 birds for each treatments. Treatments were (1): control group , (2) : 100 ml genistein per 1 litter of drinking water, (3): 100 ml genistein plus 10 ml vitamin E per 1 litter of drinking water , and (4): 150 ml genistein plus 10 ml vitamin E per 1 litter of drinking water . T3 caused significantly ( $P<0.05$ ) increase in PCV and Hb during two periods of the experiment, and in the cholesterol concentration during (0-30) days of age . Whereas, T3 and T4 caused significantly ( $P<0.05$ ) increase in the cholesterol during (0-60) days of age . Glucose also increased significantly ( $P<0.05$ ) in T4 during (0-30) days of age and in T2 during (0-60) days of the of the experiment. T2 resulted in increase in estrogen concentration significantly ( $P<0.05$ ) during 0-30 days of the experiment.