

The impact of adding ginger to the diet on productive performance , some physiological and blood biochemical of Japanese quail

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Abstract

This experiment was Conducted to investigated the effects of ginger powder onproductive performance , some physiological and blood biochemical of Japanese quail which was used in this experiment (48 birds aged 21 weeks) spread over three transactions (four replicates per treatment of all the duplicate has four birds, the first treatment was control treatment and the treatment 2 and 3 were added 0.5 and 1% of ginger powder to the diet, respectively. The results showed a significantly increased($p < 0.05$) in the rate of egg weight and high yolk and the weight of whiteness for treatment 3 , while there have been no significant differences in both the high whiteness, weight yolk, the weight of the crust, the thickness of the crust, yolk reduce , albumin reduce, and has also been observed from the results that the addition of ginger to the diet may have helped in a significant decrease ($p < 0.05$) in the level of each of the glucose ,creatinine and uric acid in the blood serum and caused a significant increase ($p < 0.05$) in numbers of white blood cells and the percentage of differentiated cells to L/H compared to control treatment , while the differences were not significant in the level of total protein in the blood serum. Derived from the current study that the addition of ginger powder has enhanced the productivity improvement of some characteristics, especially egg weight and some physiological traits and blood biochemical Japanese quail .