

EFFECTS OF SUPPLEMENTATION OF CINNAMON AND TURMERIC POWDER ON PERFORMANCE AND QUALITY OF QUAIL EGGS

Mofassara Akter*

Executive Summary

The experiment was conducted to investigate the effect of mixed supplementation of turmeric and cinnamon powder on the performance and egg quality of Japanese quail. This study consisted of five treatments with four replications of 20 quails each established in a completely randomized design. The treatments consisted of T0 (control), T1 (10 g cinnamon + 10 g turmeric)/kg of feed, T2 (10 g cinnamon + 20 g turmeric)/kg of feed, T3 (20 g cinnamon + 10 g turmeric)/kg of feed, and T4 (20g cinnamon + 20g turmeric)/kg of feed. Parameters measured included feed intake, body weight, feed conversion ratio, egg production, egg weight, yolk weight, yolk color index, egg white weight, eggshell weight, and egg cholesterol level. In addition, the percentages of quails that reached maturity at 42 days of age were recorded. The obtained results indicated supplementation of the mixture of turmeric and cinnamon reduced feed intake and significantly ($P < 0.05$) different in different treatments. Dietary supplementation with the mixture of turmeric and cinnamon significantly increased egg production percentage, yolk weight and significantly ($P < 0.05$) decreased egg yolk cholesterol level. Therefore, it is suggested that the dietary inclusion of 20g turmeric and 20g cinnamon powder per kg of feed can promote the performance and egg quality of Japanese quails.

*Professor., Dept. of Animal Nutrition, Genetics and Breeding, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh