

Effect of Different Levels of Dietary Rosemary Powder on the Performance, Hematological Parameters, Immune System in Japanese Quail

isa sarmad*,

Abstract The purpose of this investigation was study effect of different levels of dietary rosemary powder on performance, hematological parameters and immune system in quails, that conducted in a completely randomized design. For this purpose 270 old day japanese quails used in what manner mixed(male and female) in 3 repetitions and 6 treatments. Treatments to consist of: treatment 1: basal diet without rosemary powder(control), treatment 2: basal diet 0.05% rosemary powder, treatment 3: basal diet 1% rosemary powder, treatment 4: basal diet 1.5% rosemary powder, treatment 5: basal diet 2% rosemary powder, treatment 6: basal diet 2.5% rosemary powder. The results this study represented that rosemary powder significantly influences increase final weight, live body weight, full carcass weight and empty carcass weight($P < 0.05$). Results showed that there was not significant defferent between treatments in relation to total cholesterol of serum($P > 0.05$), but total protein of serum, high density lipoprotein (HDL) and serum triglyceride increased as uric acid, glucose and low density lipoprotein (LDL) of serum decreased($P < 0.05$). Total death duration breed decreased($P < 0.05$).

Keywords : Key words: quail, rosemary, performance, hematological parameters, immune

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