

The effects of powder and extract of oregano (*Origanum vulgare*) on blood parameters and immune system of broiler chicks

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This study was conducted to investigate the effects of powder and extract of oregano (*Origanum vulgare*) on blood parameters and immune system of broiler chicks. Blood biochemical parameters and immun system of broiler chickens. A total of 210 oned-old male broiler chicks (ROSS- 308) were randomly allocated to 7 treatment groups, with 3 replicates (10 birds per replicate) in a randomized block design. The treatment groups received 0 (control), 1, 2, 3% powder oregano (*Origanum vulgare*) and 100 ppm, 200 ppm, 300 ppm of extract of extract of oregano (*Origanum vulgare*), in drinking water respectively, during days 1 to 42. Total protein, glucose, cholesterol, triglycerides (TG), HDL cholesterol, and LDL cholesterol were measured. The birds were immunized with sheep red blood cells (SRBC) on days 35 and 42 of age and serum antibody levels produced in response to SRBC were measured on days 35 and 42, Skin response were measured. The results revealed that the average concentration of glucose, cholesterol, triglycerides, LDL, total protein and albumin were not significant differences between treatments ($P>0.05$). According to the results of this study, the concentration of serum HDL difference was significant between experimental treatments \rightarrow ($P0.05$). Also according to the results of this study, in 28 days mean titer immunoglobulin M was significantly different between experimental treatments ($P0.05$). As well as based on the results of this study, the mean titer of immunoglobulin G in the 42 days between experimental treatments difference was significantly (P

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