

#### عنوان مقاله:

Effect of Shirazi thyme on oxidant status and absorptive surface area of the intestine in cold-induced pulmonary hypertensive broiler chickens

محل انتشار:

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### خلاصه مقاله:

The effect of Shirazi thyme as a medicinal plant on oxidant status (lipid peroxidation, protein oxidation, total antioxidant capacity and catalase activity) and absorptive surface area were measured in three segments of small intestine in cold-induced pulmonary hypertensive chickens. Birds were reared at F groups (thyme •, •.Yb, •.b and 1 % of diet) for FY days. To induce pulmonary hypertension, the temperature was gradually decreased. The body weight was increased in thyme-•.Yb% birds in compared to control ones while it was decreased in thyme-1% birds. The feed consumption was only increased in thyme-1% birds. The feed conversion ratio was lower in thyme-•.Yb% birds and higher in thyme-1% birds than control ones. The duodenal and jejunal villus surface area was lower in thyme-1% birds than control ones while it was greater in the thyme-•.b% birds. The ileal villus surface area and duodenal laminae properia thickness was also greater in thyme-•.b% birds. Lipid peroxidation was only decreased in the duodenum and jejunum of thyme-•.b% birds. Catalase activity was only elevated in the duodenum and jejunum of thyme-1% birds. It is concluded that

Shirazi thyme has beneficial effects on growth performance, intestinal absorptive surface area / secretory system and pulmonary hypertension response at low doses (0.1% and 0.6% fed) whereas high dose of this plant may be toxic (1% .(fed

**کلمات کلیدی:** Broiler chicken, Oxidant status, Pulmonary hypertension, Shirazi thyme

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