

## عنوان مقاله:

Effects of Olive, Milk Thistle, and Artichoke Extracts on Performance, Biochemical and Enzymatic Changes in Carbon Tetrachloride-intoxicated Broiler Chickens

## محل انتشار:

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## خلاصه مقاله:

This study was conducted to examine the effects of olive, milk thistle, and artichoke extracts on growth performance, biochemical and enzymatic changes in birds intoxicated with CCl<sub>4</sub> (at 0.5, 0.75, and 1 mL/kg body weight in days 14, 21, and 28 of age, respectively). Two hundred twenty-five 10-day-old Ross 308 female broiler chicks were used in a completely randomized block design to evaluate the effects of five treatments consisting 1) a basal diet given to the birds injected intraperitoneally with 0.5 mL saline (control-), 2) The same basal diet given to birds injected intraperitoneally with CCl<sub>4</sub> (control+), 3, 4, and 5) The basal diet supplemented with either 400 mg/kg milk thistle, olive extracts, or artichoke extract given to the birds injected with CCl<sub>4</sub>. Dietary Supplementation of each herbal extract increased feed intake compared with the control birds ( $P < 0.05$ ). The broilers fed on the artichoke supplemented diet showed a greater serum concentration of HDL-c than other birds on day 28 of age ( $P < 0.05$ ). Feeding the control diet to the CCl<sub>4</sub> injected birds and the olive extract-included diet with no injection resulted in a greater serum alanine aminotransferase concentration at day 22 of age ( $P < 0.05$ ). Serum malondialdehyde concentration decreased in the birds given the control diets ( $P < 0.05$ ). The supplementary olive extract increased serum concentrations of malondialdehyde and total anti-oxidant on day 22 of age ( $P < 0.05$ ). Liver health score improved in the broilers grown on the herbal extract-added diets ( $P < 0.05$ ). In conclusion, administration of olive, milk thistle, and artichoke extracts promoted feed intake and exerted a potentially positive role as an antioxidant in liver health as evidenced by certain promising changes in serum biochemistry and enzyme activity as well as liver health score.

## کلمات کلیدی:

Olive, Artichoke, Milk thistle, Liver injury, Broiler chicken

## لینک ثابت مقاله در پایگاه سیویلیکا:

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