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Effect of use Raw and Treated (*Vicia sativa*) in Diets of Broiler on Some Lymphoid Organs and Stress Index

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Abstract

In this study 200 of Broiler chicks at one day old of age were used to investigate changes in the weight of some lymphoid organs (spleen, bursa of Fabricia) and the (Stress Index) during feeding *Vicia sativa* seeds, at rate of (28%), Chicks were divided to 5 groups (40 birds /group), Group one fed (28%) raw *Vicia sativa* seeds ; the second group fed (28%) *Vicia sativa* seeds treated by 1% acid acetic then Autoclaved ; Third group fed (28%) *Vicia sativa* seeds treated by 4% acid acetic then Autoclaved ; The fourth group fed (28%) *Vicia sativa* seeds treated by Autoclaving ; The fifth group was considered as a control one. Relative weights of the lymphoid organs and the Stress Index were assessed at 21, 35 days of age The results showed at the age of 21 days of the experiment an increase in the weight of the spleen and bursa of Fabricius in first group significant difference when compared with the control group, At the age of 35 days there was an increase in the weight of spleen in first group and the 4th Group in addition to the increase in the weight of bursa of Fabricius in 1st Group and the 2nd Group and 4th Group in a significantly when Compared with the control Group, The results of Stress Index showed significant increase in all groups of the study at the age of 21,35 day when compared with the control group. We conclude from this study that there was an increase weight of lymphoid organs as well as the Stress Index as a result of the use of raw and treated *Vicia sativa* seeds in the diets of broiler.

Keywords : *Vicia sativa*, spleen, bursa of Fabricius ,Stress index, Broiler