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The effect of using *Ephedra pachyclada* with or without protexin on some blood parameters and intestinal morphology of broiler chicks

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Abstract

For evaluation the effect of using *Ephedra pachyclada* with or without protexin on some blood parameters and intestinal morphology on broiler chicks, a total 240 one day broiler chicks were divided in to 8 groups of 10 birds each and assigned to 3 treatment diets as factorial experimental plan. Broiler chicks were fed by basal diet as control; basal diet with or without protexin powder 100 (gr/ton) and with 3 levels of *Ephedra pachyclada* (0.2, 0.4 and 0.6%) respectively. At the end of aviculture period 2 birds form each group were slaughtered by standard methods. The results showed that by using *Ephedra pachyclada* cholesterol and triglyceride levels were decreased. There weren't significant differences between control group and others about HDL. The results suggested that using *Ephedra pachyclada* may increase mucus and sub mucus compared to control groups ($p < 0.05$). It seems that inclusion of *Ephedra pachyclada* with or without can be useful and have significantly effects on some blood parameters and microbial population in the intestinal of broiler chicks.

Key words: *Ephedra pachyclada*, Protexin, Some blood parameters, intestinal population, broiler chicks.