



بِسْمِ اللَّهِ الرَّحْمَنِ
الرَّحِيمِ



بحث رقم (٣)

طبيعة البحث: بحث مشترك و منشور.

سابقة التقييم: تم تقييمه في تخصص تغذية دواجن في اللجنة العلمية الدائمة للإنتاج الحيواني (٤١) بتقدير جيد (٧٤%) وعدد نقاط (٧.٢٥).

عنوان البحث:

**EVALUATION OF DRIED PEPPERMINT LEAVES
AS NATURAL GROWTH PROMOTERS
ALTERNATIVE TO ANTIBIOTICS ON JAPANESE
QUAIL**

تقييم أوراق النعناع المجففة كمحفز طبيعي للنمو بديلا للمضادات الحيوية في السمان
الياباني

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مكان النشر:

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ABSTRACT

A total number of 360 sexed, one day old Japanese quail were used to study the effect of using dried peppermint leaves (DPL) as natural growth promoters alternative to antibiotics at the levels of (0, 8mg avilamycin / kg diet, 1%DPL and 3 %DPL) under the two sexes (males and females). The obtained results abbreviated as follows: Treatments significantly

affected most studied traits more than sex effect did. Females had higher LBW_{38d} , BWG_{10-38} , PI_{10-38} , dressing%, giblets weight and giblets% than males. Treatments significantly affected, serum biochemical indices (except both HDL and ALT), antioxidant parameters and immune responses and intestinal microflora count, favoring the quail fed diet supplemented with peppermint 3% which had the best growth performance. Quail fed diet appended with peppermint 3% showed desirably lower total cholesterol, and lower lipid profile parameters, random blood sugar, and liver enzyme activities, had the elevated antioxidant parameters, immune responses and the lowest thiobarbaturic acid. Peppermint (3% and 1%) supplementation desirably increased Lactobacillus count as compared with those fed diets appended with avilamycin and the control groups and decreased both E coli and Salmonella counts compared to group of control.

In conclusion, peppermint can be supplemented to growing quail diets up to 3% acting as a good alternative to antibiotic (avilamycin) for promoting quail growth.