



Investigation *Mycobacterium sp.* prevalence in the local birds in Baghdad

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Abstract

Tuberculosis

(Mycobacteriosis) is a global disease, which has been reported broadly in Poultry, free-living and captive wild birds and pet birds.

According to World Organization for Animal Health, tuberculosis is classified within a List B of diseases. The current study was intended to focus on incidence *Mycobacterial* in local birds in Baghdad governorate. A hundred rectal swabs were collected from a pigeon (70), chickens (5), and pet birds (25) from local birds markets in Baghdad. The swabs were cultured on Lowenstein- Jenson media and incubated at 42 C° for eight weeks. The diagnosis was based on the rate of growth, characteristics features of colonies, acid fast stain in the direct microscopic examination and the ability of production of chromogens. *Mycobacterium* isolation rate was (35%). Meanwhile, the reality of isolation numbers were 1, 6, 28 in chicken, pet bird and pigeon respectively. All isolated bacteria appeared as acid-fast bacilli with acid-fast staining, and the colonies appeared within (2-8) weeks. In conclusion, this study reported the prevalence of *Mycobacterium sp* from local domestic birds in Baghdad governorate. These *Mycobacterial* infections act as important zoonotic disease, and the infected local domestic birds might play important source to disseminate the disease to humans. The author recommends taking precautions from these local birds mainly house birds.

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