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PARASITES OF STRAY CATS IN BAGHDAD AREA

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SUMMARY

In a survey of 26 stray cats collected from different areas in Baghdad. Each cat examined for ectoparasites and gastrointestinal parasites. All cats examined were harbouring one or more species. The high rate of infection was found with <u>Diplopylidium</u> columbae and Physaloptera preputialis (82.6%).

External parasites recorded in this study were Rhipicephalus species and Ctenocephalus felis.

INTRODUCTION

The earliest report on helminths of cat in Iraq was by Machattie <u>et al</u> (1). Al-Dabagh <u>et al</u> (2) recorded <u>Opisthorchis tenuicollis</u> from cats & dogs in Baghdad and Bashra provinces. Salman (3) examined 84 cats from Baghdad area and 84 cats from Kirkuk area. Morsy <u>et</u> <u>al</u>^(A), also, examined 57 domestic cats in Cairo and found different species of helminth parasites.

The close association of man with his domestic animals (dogs and cats) lead to serious problems of public health like encephalitis and granulomatous lesions of the eye caused by toxocariasis, Woodruff <u>et</u> <u>a1</u> (5). The aim of this study was to determine the prevalence of helminthus and ectoparasites of stray cats in Baghdad areas.

MATERIALS AND METHODS

Twenty-six stray cats were collected from different areas of Baghdad province. Skin of each cat was

infestation of examined in order to estimate the the cats sacrificed. were ectoparasites. After gastrointestinal tracts were opened, the stomach, small and large intestine contents were scraped, washed, then preserved in 10% formaline. The washed contents were helminthes were collected for examined and using dissecting counting by identification and microscope.

RESULTS

Out of 26 cats examined for helminths infection. each cat was infected with at least one species of parasitic helminth. Table (1) shows the prevalence of nine helminths and two arthropodes species detected in The most common cestode was examined. cats Diplopylidium columbae with infection rate (82.6%), also P. preputialis recorded a high rate of infection (82.6%).

Prevalence of parasitic helminths were higher in female than male (Table 1).

In the present study, the ectoparasites found were <u>Rhipicephalus</u> spp. which was occured in four cats(17.4%) examined, and <u>Ctenocephalus</u> felis occured in one cat (4.3%).

Parasite	Female	Male	Total	
		nt stan	brail moves	
Helminths:			a translation -	
Diplopylidium columbae	10 (43.5)	9 (39.1)	19 (82.6)	
Physaloptera preputialis	2 (52.2)	7.(30.4)	19 (82.6)	
Diplopylidium nollerii	10 (43.5)	8 (34.8)	18 (78.3)	
Pneumonema	5 (21.7)	5 (21.7)	10 (43.5)	
Taenia hydatigena	3 (13.04)	7 (30.4)	10 (43.5)	
Joyeuxiella pasqualei	3 (13.04)	3(13.04)	6. (26.08)	
Dipylidium caninum	4 (17.4)	1 (4.3)	5 (21.7)	
<u>Toxocara cati</u>	2 (8.7)	1 (4.3)	3 (13.04)	
Diplopylidium acanthotetr	<u>a</u> 1 (4.3)	1 (4.3)	2 (8.7)	
Arthropodes:			Ivoulati	
Rhipicephalus	2 (8.7)	2 (0 7)	1 117 11	
Ctenocephalus felis	2 (0.7)		4 (17.4) 1 (4.3)	

Table 1:	Prevalence of	parasitic	helminths	in 26	stray	cats
	from	n Baghdad	area			

DISCUSSION

In this study, 26 cats were examined for helminths and ectoparasites in Baghdad area.

All cats examined were found to be harbouring one or more parasites. Al-Saeed (6) found that 93.3% of 30 domestic cats in Mosul area were infected with one or more parasites, while Salman (3) found that 97.7% of 84 cats in Baghdad province and 70.2% of similar number of domestic cats in Kirkuk province infected with one or more species of helminths.

In this study, the prevalence of <u>D.</u> <u>columbae</u> was 82.6%, followed by <u>Pneumonema</u> (43.5%), <u>T.hydatigena</u> (43.5%), <u>D. acathotetra</u> (8.7%), and tick <u>Rhipicephalus</u> (17.4%). Molan <u>et al</u> (7) did not recorded any of these parasites in Arbil area. Dipylidium caninum found in five (21.7%) of the cats examined, and this result was different with that recorded by Salman (3) who reported 50.0% and 79.8% of cats examined from Kirkuk and Baghdad respectively, and also with Gurlap (8) in Turkey (47.0%).

The low rate of infection with <u>D.</u> <u>caninum</u> obtained in this study may be related to the lower infestation of cats with flea <u>C.</u> <u>felis</u>.

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طفيليات القطط السائبة في منطقة بغداد

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الذلام

تضمنت هذه الدراسة مسح لــــ ٢٦ قطة سائبة جمعت من مناطق مختلفة فـي بغـداد. فحـصت جميع القطط بحثا عن الطفيليات الخارجية والطفيليات الداخلية (ديدان القناة الهضمية).

أحـتوت جـميع القطط المفحومة على طفيلي واحد أو اكثر، وكـانت أعـلى نسبة للذـمج (82.6%) بطفيـلي Diplopylidium columbae وطفيلي columbae

سجل القراد من جنس <u>Rhipicephalus</u> والقصل من نوع Ctenocephalus felis كطفيليات خارجية.