

# SOME HELMINTH PARASITES OF THE AMERICAN BALD EAGLE

Author: KOCAN, A. ALAN

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# SOME HELMINTH PARASITES OF THE AMERICAN BALD EAGLE

A. ALAN KOCAN, Department of Parasitology and Laboratory Practice, School of Public Health, University of North Carolina, Chapel Hill, North Carolina 27514, U.S.A.

LOUIS N. LOCKE, Bureau of Sports Fisheries and Wildlife, Patuxent Wildlife Research Center, Laurel, Maryland 20810, U.S.A.

Abstract: Bald eagles (Haliaeetus leucocephalus) found dead or moribund in the United States and Canada and submitted to Patuxent Wildlife Research Center were examined for helminth parasites. Nine genera of helminths were reported which include new host records for Clinostomum complanatum, Neogogatea pandionis, Centrorhynchus sp., Serratospiculum amaculata, Capillaria contorta, and Habronema americanum.

#### INTRODUCTION

The American bald eagle (Haliaeetus leucocephalus) has shown a dramatic decline in numbers over the last two decades throughout the continental United States. A great deal of attention has been focussed on the importance of pesticide poisoning and other factors which have contributed to mortality and reduced fecundity. 5,5,2,11 Few reports are available on the helminth parasites of this North American bird, perhaps because of its general decline in numbers and intensified protection in recent years.

## MATERIALS AND METHODS

Fifty-nine eagles, found dead or moribund in the United States and Canada and submitted to Patuxent Wildlife Research Center were examined for helminth parasites. These eagles were collected between 1963 and 1971. Because of the condition of the birds upon receipt and the variable care afforded the birds prior to arrival, no attempts could be made to determine prevalence or degree of infection.

# RESULTS

Nine genera of helminths (four trematodes, one cestode, one acanthocephalan, and four nematodes) were recorded from the eagles examined (Table 1). Clinostomum complanatum, Neogogatea pandionis, Centrorhynchus sp., Capillaria contorta, Habronema americanum, and Serratospiculum amaculata are reported here for the first time from this host. Although this is the first report of these genera from bald eagles, many of them have been previously reported from European and Asian eagles and a number of other raptors. 10,6,5,7

# DISCUSSION

The exact role of helminths in raptor populations is not clear. It appears that birds subjected to greater than normal stresses, hand reared birds, and captive birds are more susceptible to parasitic infections and other environmental and biological insults than are birds from wild populations. 18,4,8 Although no evidence of pathogenicity or mortality could be directly attributed to the helminths recovered in this study, pathogenicity has been previously reported for Serratospiculum amaculata by Bigland et al., and esophageal capillarids by Coopers and Trainer et al., is in other raptors.

The Present address: Dept. of Veterinary Parasitology and Public Health, Oklahoma State University, Stillwater, Oklahoma 74074.

TABLE 1. Helminths found in North American bald eagles.

Parasite	Collection location	Age	Sex	Necropsy diagnosi	s Date
Trematoda					
Clinostomum complanatum	Minnesota	fledgling	F	enteritis emaciation	1972
Phagicola longus	North Carolina	2 years	F	gunshot	1965
Neodiplostomum banghami	Arkansas Iowa	adult immatur <b>e</b>	M M	none gunshot	1963 1966
Neogogatea pandionis	Iowa Massachusetts Wisconsin	immature immature immature	M F M	gunshot	1966 1966 1966
Acanthocephala					
Centrorhynchus sp.	Maine Florida Iowa New Jersey	adult immature immature adult	F F F	none gunshot gunshot none	1967 1971 1966 1963
Cestodes					
Cladotaenia banghami	Minnesota Idaho Florida Minnesota Wisconsin	immature immature immature immature immature	M M F F M	gunshot impact injuries	1968 1968 1971 1968 1968
Nematodes					
Contracaecum sp.	New Jersey Minnesota South Dakota Illinois Minnesota Wisconsin South Dakota	adult immature immature immature adult adult	F M F M F		1963 1969 1968 1971 1969 1968 Irin)
Habronema americanum	Minnesota Iowa Illinois Wisconsin Illinois Minnesota	immature adult immature immature immature immature	F F M F F	impact injuries none gunshot	1967 1971 1970 1969 1967
Serratospiculum amaculata	Wisconsin Illinois	immature immature	M F	gunshot gunshot	1969 1971
Capillaria contorta	Iowa Missouri Minnesota Wisconsin	immature immature immature adult	F F M	strangled gunshot gunshot none	1967 1969 1966 1965

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