

SEPTEMBER 25-27, 2014



**2014**  
INTERNATIONAL SYMPOSIUM ON  
FISHERIES AND AQUATIC SCIENCES

# **SYMPOSIUM ABSTRACT BOOK**

**TRABZON  
TURKEY**

## FIRST RECORD OF *Ligula intestinalis* INFECTION OF COMMON CARP (*Cyprinus carpio* L., 1758) IN YAMCHI DAM LAKE, NORTHWEST IRAN

**Mohammad SADAGHIAN, Mehran Nouri NIRI**

*Veterinary Faculty, Shabestar branch, Islamic Azad University, Shabestar, Iran.*

[drmsadvet@yahoo.com](mailto:drmsadvet@yahoo.com)

**Objective:** Yamchi dam is relatively newly constructed dam which is located in cold climatic zone of northwestern Iran. Because of the lack of any report about the parasite in this lake, a cross sectional study was conducted to examine the presence of *Ligula intestinalis* plerocercoids in common carp population of the lake, concerning of cold climatic habitat and low temperature during the study.

**Methods:** The study was carried out in Yamchi dam lake (38.04'N, 48.04' E) with approximately area of 4 km<sup>2</sup>, capacity of 80 million m<sup>3</sup> and total drainage area of 730 km<sup>2</sup>, which is located in neighbourhood of Nir city, Ardebil province, northwest Iran. A total of 102 ( 54 female and 48 male) common carp were trapped by the fishing net during the late April to early May 2014. The length and total weight of fishes were recorded and then sex was determined by the macroscopic examination of gonads. After dissection, the body cavity was examined for the presence of plerocercoids, in case of presence, the number of plerocercoids was counted.

**Results and Discussion:** 8 out of the 102 investigated specimens of common carp, were found to be infected with *L. intestinalis* and the prevalence was 7.84%. Comparison of the infection rate among the male ( 4.2%) and female (11.1%) specimens, showed no statistically significant difference (  $P>0.05$ ). The intensity of plerocercoid infection has been recorded as Mean $\pm$  SD= 6.75 $\pm$  5.18( min=2, max=13). Considering the time of sampling which is concurrent to defrosting of the lake because of the cold climate of the geographical location, elevation of the infection rate has been expected in the coming months. Also according to available literatures, this is the first report of *L. intestinalis* infection in common carp in newly constructed Yamchi dam lake.

**Keywords:** *Ligula intestinalis*, Common carp, Yamchi dam lake, Iran.