Preliminary survey of Spirometra plerocercoid infection in wild frogs from Ding'an County

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To explore the prevalence of Sparganum mansoni infection in wild frogs from Ding'an County and analyze the risk of local population suffering from Sparganum mansoni infection. Methods: From 2014 July - December, wild frogs were collected from rural ponds, rivers and farmland in Ding'an County. After weighing, the spargana were examined and isolated, the site of the parasite and the number of infections were recorded and analyzed with statistics analysis. Results: A total of 153 of wild frogs were examined and isolated, 31 wild frogs were infected with Sparganum mansoni, the natural infection rate of Sparganum mansoni in wild frogs was 21% (31/153). There were totally 141 spargana found in those frogs, and the average was 4.6 per frog, while the highest infection rate of wild frogs in July. Most spargana were located in the hind legs of frog, the weight and size of frog body had little relation with infection. Conclusions: The frogs living in the nature are widely infected with Sparganum mansoni in Ding'an County, and the corresponding measures should be taken for the prevention and control of Sparganosis mansoni.

[KEY WORDS] Sparganum mansoni; Wild frogs; Infection; Ding'an County