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FEATURES OF THE CLINICAL COURSE OF CANINE CYSTOISOSPOROSIS

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Abstract: The conducted studies have established the features of the clinical course of cystoisosporosis in dogs with an invasion intensity of up to 500 oocysts/g, taking into account the severity of symptoms. A total of 13 clinical symptoms were identified, which have a slightly pronounced manifestation, and 6 - are expressed to a significant extent. The most frequent symptoms with a slight intensity of invasion are thirst (up to 30.77 %), decreased appetite and dullness of the coat (up to 23.08 %), abdominal wall tenderness (up to 20.51 %). Diarrhea was detected in 10.26 % of dogs.

Keywords: cystoisosporosis, invasion, dogs, course, clinical signs.

Introduction. Pathologies of parasitic origin occupy a significant part among diseases of infectious origin. Intestinal parasites are of particular relevance, the existence of which in the host organism leads to a violation of homeostasis. It is known that diseases of the digestive system are in the first place in terms of prevalence among animals, including dogs. One of the common protozoan diseases, especially in puppies, is parasitic enteritis caused by *Cystoisospora spp.* [1, pp. 252;

2, pp. 190–199]. Cystoisosporosis in carnivorous animals has been reported to cause digestive disorders, loss of appetite, bloating and abdominal cramps, dehydration, and weight loss, which in turn can be life-threatening. Cystoisosporosis can be fatal in puppies [3, pp. 11–20].

Researchers note that in animals with cystoisosporosis, the integrity of the mucous membrane of the small and partially large intestine is disrupted. There is massive destruction of intestinal epithelial cells, as a result of which putrefactive bacteria develop and multiply [4, pp. 34–48]. Scientists also report that the products of cell decay and metabolism of parasites and opportunistic microflora are absorbed into the blood, which leads to intoxication of the animal body and the occurrence of intestinal dysfunction. This, in turn, leads to an increase in its peristalsis, dehydration of the body, an increase in blood viscosity and a weakening of the heart [5, pp. 181-190].

Also, in scientific works it is reported that the degree of immunity of animals to the causative agent of cystoisosporosis depends on many factors and, first of all, on the immune status of the organism, as well as on the intensity of invasion and the type of pathogen [6, pp. 163–616].

Purpose of the work. The purpose of the research was to establish the features of the clinical course of cystoisosporosis in dogs.

Materials and methods. The studies were conducted during 2024–2025 on the basis of the Laboratory of the Department of Parasitology and Veterinary and Sanitary Expertise of the Poltava State Agrarian University and in the conditions of the Private Veterinary Clinic "Dovira" (Kharkiv). In order to study the clinical symptoms of cystoisosporosis invasion, a research group of dogs (n=39) was formed with invasion intensity indicators up to 500 oocysts/g. Symptoms that were slightly expressed and expressed to a significant extent were taken into account in %.

Research results. The conducted studies revealed a total of 13 clinical symptoms with a low intensity of cystoisosporosis invasion, which have a slightly expressed manifestation (Fig. 1).

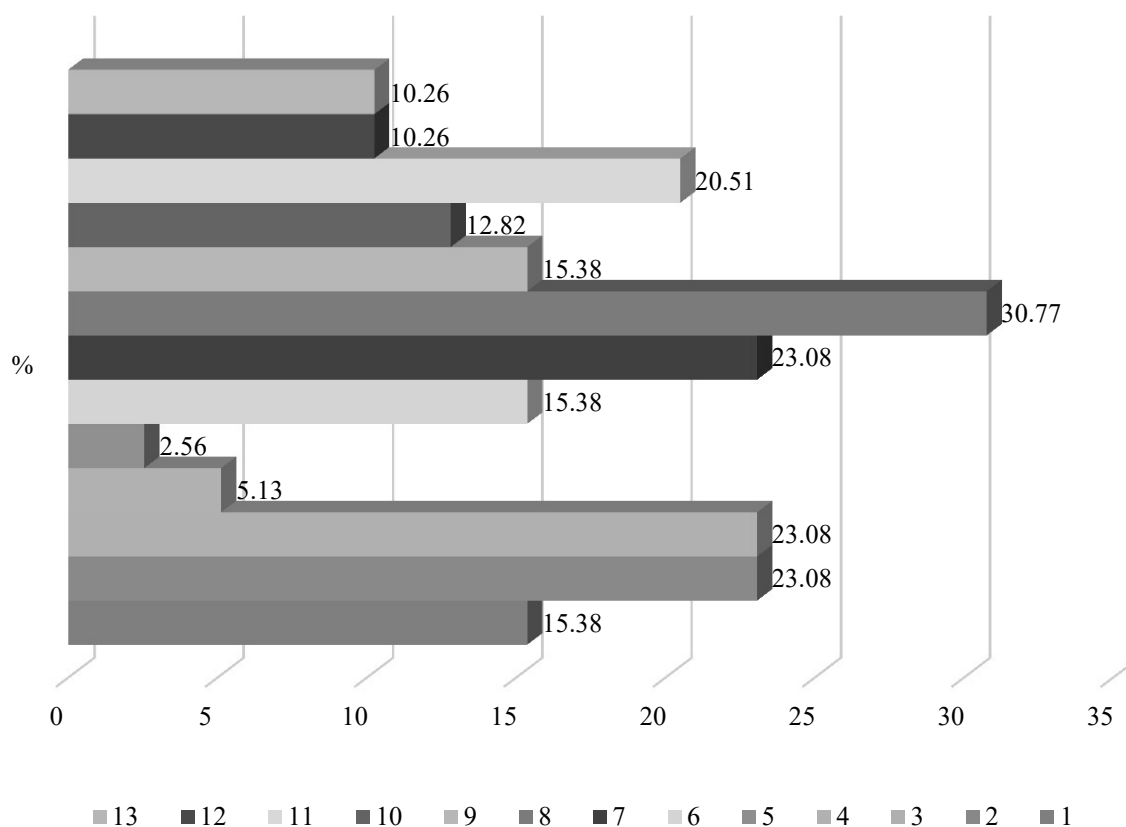


Fig. 1. Clinical signs of cystoisosporosis in dogs, which are slightly expressed:
1 – anemic mucous membranes, 2 – dull coat, 3 – depression,
4 – apathy, 5 – exhaustion, 6 – dehydration, 7 – decreased appetite,
8 – thirst, 9 – vomiting, 10 – abdominal distension, 11 – abdominal wall
tenderness, 12 – diarrhea (watery consistency), 13 – diarrhea (with mucus)

In particular, anemic mucous membranes were found in 15.38 % of dogs, dull coat – in 23.08 %, depression – in 23.08 %, apathy – in 5.13 %, exhaustion – in 2.56 %, dehydration – in 15.38 %, decreased appetite – in 23.08 %, thirst – in 30.77 %, vomiting – in 15.38 %, abdominal distension – in 12.82 %, abdominal wall tenderness on palpation – in 20.51 %, diarrhea, where fecal masses were of a watery consistency – in 10.26 %, diarrhea, where fecal masses were mixed with mucus – in 10.26 %.

6 clinical symptoms were also found, which had a significantly pronounced manifestation (Fig. 2).

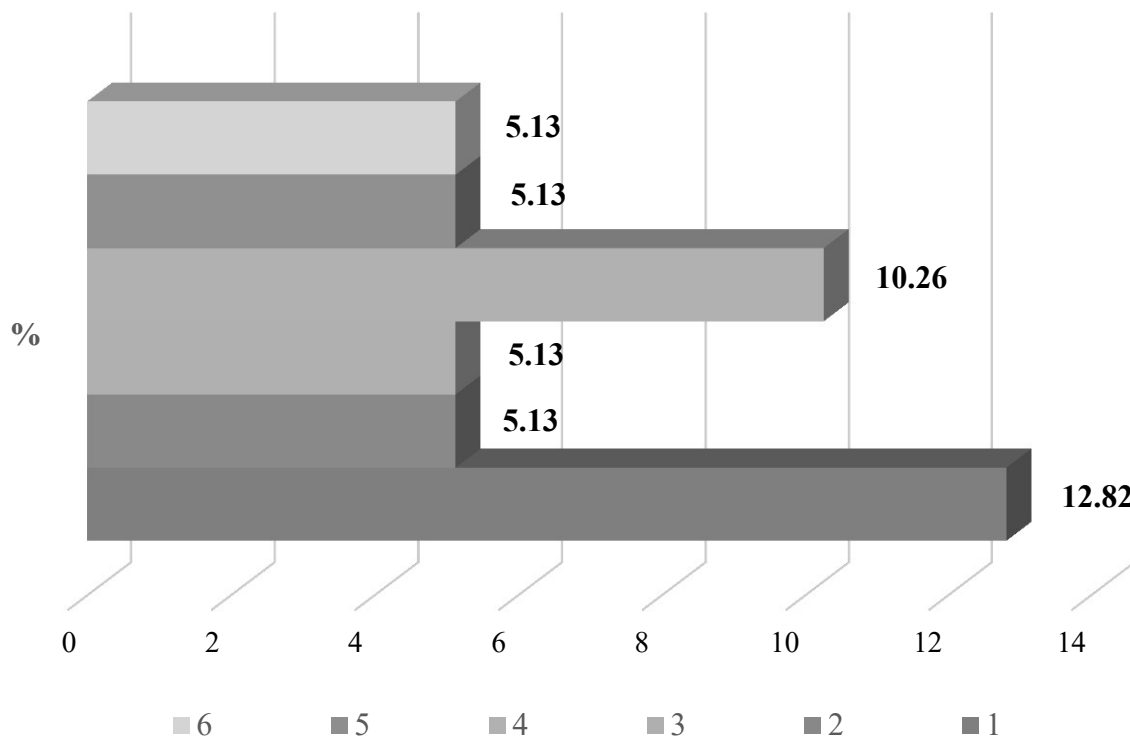


Fig. 2. Clinical signs of cystoisosporosis in dogs, which are expressed to a significant extent: 1 – dullness of the coat, 2 – depression, 3 – decreased appetite, 4 – thirst, 5 – abdominal distension, 6 – tenderness of the abdominal wall

In particular, dullness of the coat was found in 12.82 % of dogs, depression in 5.13 %, decreased appetite in 5.13 %, thirst in 10.26 %, abdominal distension in 5.13 %, and abdominal wall tenderness upon palpation in 5.13%.

Conclusions. 1. It was established that with the intensity of cystoisosporosis invasion up to 500 oocysts/g in dogs, the clinical course has a slight manifestation of symptoms, which are characterized by general changes and changes in the gastrointestinal tract.

2. The most frequent symptoms of cystoisosporosis in dogs with low intensity of invasion are thirst (up to 30.77 %), decreased appetite and dullness of the coat (up to 23.08 %), and abdominal wall tenderness (up to 20.51 %).

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