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Protozoan infections of dogs and their role in contamination of public places in Belgrade

Results of parasitological examination of public places in urban environment around the world, we will see that this contamination zoonotic parasitosis makes a global problem. Most previous studies have put the emphasis on geohelminths where dogs are great hosts and who certainly have great epidemiological significance. Much less attention has been paid to a protozoan infection that is seen in the feces of dogs that also has a significant epidemiological and zootoological significance of contamination of urban areas. These are certainly *Giardia intestinalis*, *Entamoeba histolytica*, *Cryptosporidium* spp. and *Isospora* sp. During the last 30 years of constant monitoring of contamination of public areas and parks of Belgrade, we found that the percentage of the presence of protozoal infections of dogs is increasingly in the last ten years.

In our paper we presented result of examination performed in the period 2017-2019 and included examination of feces of dogs taken from the green areas and parks of Belgrade and veterinary clinics of dogs that have had intestinal problems. A total of 750 samples were examined by carpalogical methods and 120 samples using the IDEXX Snap Giardia test.

Giardia intestinalis was found in 19.78% feces from green areas and in 32.4% samples of dogs with clinical symptoms of disease is confirmed giardiasis. *Entamoeba histolytica* was observed in 10.3% and in 21.7% clinically affected dogs. *Cryptosporidium* spp establishment in 5.3% and in 8.4% dogs with diarrhea. *Isospora* sp. was found in 5.1% of samples of feces from green areas and 14.4% of feces of dogs with clinical signs of disease.

Recent Publications

1. Pavlović I., Antić V., Terzin D., Terzin V., Petković D., Čurčin Lj., Čurčin K., Pešut B. (2014) Protozoan infections in dogs and their importance in the contamination of the Belgrade urban environment. *Lucr.Štii. Medi.Vet.* 57 (3-4),198-202
2. Pavlović I., Antić V., Petković D., Terzin V., Terzin D., Nedeljković N., Simić J. (2021) Dog amebiasis in belgrade in the period 2015-2020. Book of Abstracts 26th Annual Counselling of Doctors of Veterinary Medicine of Republic of Srpska (Bosnia and Hercegovina) International Scientific Meeting, Teslić, Republika Srpska (BiH), 71-72
3. Esch K.J., Petersen C.A. (2019) Transmission and epidemiology of zoonotic protozoal diseases of companion animals. *Clin Microbiol Rev* 2013; 26:58-85

Biography

Ivan Pavlovic, PhD, MVSc, DVM was born in Belgrade on 1958. He graduated and completed PhD at Faculty of Veterinary Medicine in Belgrade. He is head of Laboratory of Parasitology in Scientific Veterinary Institute of Serbia. He is on the EFSA, WHO and FAO experts list and are the holder of several international and national awards and recognitions. He is a member of Academy of Russian of Natural Science and Academy of Veterinary Medicine. He participated in FAO, RES and COST, bilateral and 15 scientific projects of the Ministry of Science of Serbia. He published 4 university book, 18 books, 4 atlas, 1 handbook, more than 330 papers in scientific journal and more than 550 papers at symposium and conferences. He was author of Methods of examination of soil and sand to presence of parasites eggs. He was member of WVA, WSPA, WVPA, ISID, WFP, IPVS, COLOSS honey bee research association etc.

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