

Last 20 years in Veterinary Parasitology: trends and future

Abstract book



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P22. Digestive helminths in badgers (Meles meles) from southeastern Spain

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Background and aims

The Eurasian badger (*Meles meles*) is a generalist omnivorous mammal of nocturnal habits. Although less present in arid areas of the south of the Iberian Peninsula, it is becoming increasingly abundant, even in areas with human pressure (Zabala et al., 2002; Revilla et al., 2007). The aim of this work was to describe the parasitic population of the digestive tract of badgers from southeaster Spain.

Methods

Thirty-three badger carcasses found roadkill in rural areas of the Region of Murcia were collected by the staff of "El Valle" Wildlife Rescue Center and analysed in the Veterinary Faculty for gastrointestinal parasites.

Results

54.5% of the badgers were parasitized, 577 helminths were isolated, and 7 species were identified: *Aonchotheca putorii, Vigisospirura potekhina* and *Pterygodermatites affinis* (nematodes), *Diplopylidium* spp. and *Mesocestoides* spp. (cestodes), and *Prostorhynchus* spp. and *Oncicola* spp. (acanthocephalans). *A. putorii* was the parasite with the highest prevalence (36.4%), and *Diplopylidium* and *Oncicola* were only present in 3% of the animals. A previous study from the Mediterranean area (Torres et al., 2001) showed the only coincidence of *A. putorii* and *V. potekhina*, also with similar prevalences. However, this is the first description of *Diplopylidium* spp., *Oncicola* spp., *Prostorhynchus* spp. and *P. affinis* in badgers of the Iberian Peninsula.

Conclusions

These nematodes would come to parasitize the badger by sharing habitat with other mesocarnivores such as the fox (*Vulpes vulpes*) or the genet (*Genetta genetta*). Alternatively, could have been assimilated during the ingestion of the parasites' host, for example a mouse (*Mus musculus*) or the common frog (*Pelophylax perezi*) since we found numerous parasites with indirect life cycle related to the trophic tendencies of the badger. These results may be relevant for the infection of other mesocarnivores with which badgers share parasitofauna and habitat, such as the Iberian lynx (*Lynx pardinus*), an endangered species.