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Studies on the trematode parasites of stray dogs in Egypt

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In a study on trematodes of stray dogs in Ismailia Province, Egypt, 50 stray dogs of different sexes and ages were humanely euthanized, necropsied and examined for trematodes. The total prevalence of trematodes was 36%. Fourteen trematode species were recorded as the following; *Prohemistomum vivax* (4%), *Mesostephanus appendiculatus* (16%), *Mesostephanus melvi* (6%), *Mesostephanus* sp. (2%), *Echinochasmus liliputans* (16%), *Heterophyes dispar* (14%), *Pygidiopsis genata* (20%), *Pygidiopsis summa* (4%), *Ascocotyle rara* (4%), *Phagicola longus* (6%), *Phagicolla longicollis* (4%), *Metagonimus yokogawai* (4%), *Haplorchis pumilio* (6%) and *Apophallus donicus* (4%). *Pygidiopsis summa* and *Ascocotyle rara* were recorded for the first time in Ismailia Province and this may be the first time to be recorded among the Egyptian dogs. *Mesostephanus* spp., had the highest intensity 95.5 (18-170) followed by *Pygidiopsis* spp. 26.7 (10-40), *Echinochasmus liliputans* 19 (10-36), *Heterophyes dispar* 13 (5-20), *Phagicola longus* 5.7 (2-10), *Prohemistomum vivax* 3 (1-5), *Ascocotyle rara* and *Haplorchis pumilio* 3 (2-4) each, *Metagonimus yokogawai* 2.5 (2-3), *Phagicola longicollis* and *Apophallus donicus* 2 (1-3) each. There was a highly significant difference (p<0.01) in the prevalence of trematodes between different ages (60% in adult and 0% in young dogs), while there was no significant difference (p>0.05) in the prevalence of the detected trematodes in relation to the sex of dogs. From this study, it could be concluded that stray dogs in Ismailia City carry a multitude trematode parasites, thus posing a risk for the human population and companion dogs.

Biography

Asmaa M I Abuzeid has completed her MSVSc from Faculty of Veterinary Medicine, Suez Canal University. She is an Assistant Lecturer of Parasitology in Faculty of Veterinary Medicine, Suez Canal University.

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