



## **Toxocariasis – Review**

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### **Abstract**

This parasite is one of the worms scattered widely in the world and contains a large number of species, the two most important types are found in dogs and cats that infect humans and cause visceral migration and knob in the eye area, which in turn causes temporary or permanent blindness according to the case. In this review we collect several studies in several countries and regions of the prevalence of this parasite in humans and animals.

**Keywords:** worms, visceral migration, dogs and cats.

### **Introduction**

Roundworms contain a large number of worms, and among these worms that cause Toxocariasis, which contains 30 species, (1) and the most important types that affect humans are *Toxocara canis* and *Toxocara cati* (2)

This parasite has a wide and global spread, especially in tropical and subtropical regions, in countries that give treatment to dogs and humans, so the infection is controlled. (3)

The prevalence of this parasite in children differs not only from country to country, but from province to second province in the same country, as is the case in Brazil, so the prevalence of the parasite in children in one region was 8.7%, while in a second region the rate was 54.8% (4 and 5).

In Iran, the result of the epidemiological study of this parasite in dogs was 10-46%. (6).

In western Turkey, in people suffering from hepatomegaly, the prevalence of the parasite is 44.28%. (7).

Also, the parasite prevalence rate in Iran was found to be 21.6% while in Turkey the rate was 64.28% (8 and 9).

In Germany in 2003, when examining dogs, which numbered 8,438, the prevalence of the parasite was 22.4%, (10) while in Nigeria, when examining 166 dogs, the rate was 39% (11).

A decrease in the prevalence of the parasite was recorded in Spanish children, which was 1% (12) while the prevalence was higher in Argentina, which was 67%. (13).

In developed countries, the incidence rate was found in these countries, and it ranges between Japan, Canada, Germany, the United Kingdom, Italy, France and Russia, were 35% to 42%, and decreasing to 15% to 20% in the regions. Semi-rural. And from 2% to 5% in urban areas. (14 and 15).

In Basra 2019 Governorate in (Epileptic Patients ) Iraq, the researcher searched for the prevalence of the parasite by taking samples and examining them serological to show the percentage of presence of this parasite (34.04%).(16).

In Turkey, the researcher examined the flotation method for various samples of children's stool and sandy soil, up to 103 samples, and the result was the presence of the parasite *Toxocara spp*, about 19.4%.(17).

## Conclusion

This parasite, as proven by researchers, above that the spread of varying rates between countries and regions is due to several reasons, the most important of which is that the parasite transmits from the animal to the human, the human environment or the conditions surrounding them as humidity and temperature and other things and from the basics of spreading a disease that depends on the personal hygiene of the person and the community in which it is surrounded.

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