

Keys to Unlock the Enigma of Ocular Toxocariasis: A Systematic Review and Meta-analysis

By: Badri, M (Badri, Milad)¹; Eslahi, AV (Eslahi, Aida Vafae)¹; Olfatifar, M (Olfatifar, Meysam)²; Dalvand, S (Dalvand, Sahar)³; Houshmand, E (Houshmand, Elham)⁴; Abdoli, A (Abdoli, Amir)⁵; Majidiani, H (Majidiani, Hamidreza)⁶; Eslami, A (Eslami, Ali)^{7,8}; Zibaei, M (Zibaei, Mohammad)⁹; Johkool, MG (Johkool, Morteza Ghanbari)¹...More

Abstract

Purpose: Ocular toxocariasis (OT) is a zoonotic infection caused by larval stages of *Toxocara canis* and *T. cati*. The current review and meta-analysis aimed to evaluate the global prevalence of OT. **Methods:** Five English (PubMed, Scopus, Science Direct, Web of Science, and Google Scholar) databases were explored and 101 articles met the inclusion criteria. **Results:** The pooled prevalence (95% confidence interval) of OT was higher in immunological studies (9%. 6-12%) than in studies that applied ophthalmic examination (1%. 1-2%). The lower middle-income level countries had the highest prevalence (6%. 2-12%) as well as the African region (10%. 7-13%). The highest infection rate (4%. 2-7%) was detected in the 1-25 mean age group. **Conclusion:** Regular anthelmintic treatment of cats and dogs, and removal of animal feces from public places must be considered.

Keywords

Author Keywords: Toxocariasis; ocular larva migrans; public health; humans; zoonoses

KeyWords Plus: ASCARID

INFECTIONS; CANIS; PREVALENCE; RETINOBLASTOMA; TEMPERATURE; SURVIVAL; EGGS