Toxocara canis







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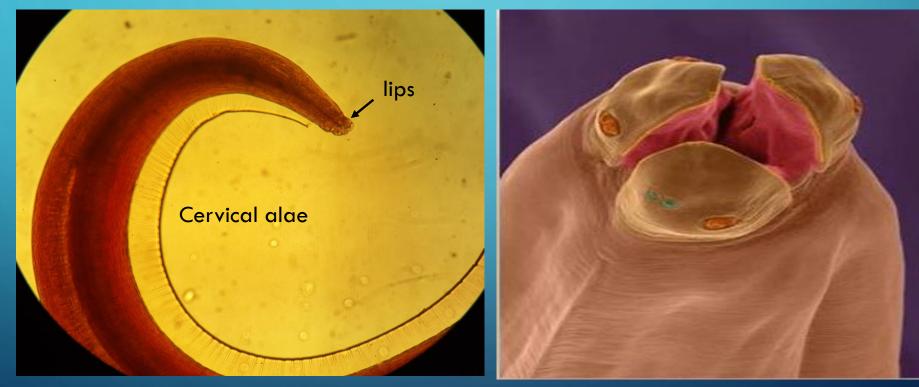
Taxonomic Consideration

Kingdom: Animalia Phylum: Nematodahelminthes Class: Rhabditea Order: Ascaridida Family: Ascarididae Genus: Toxocara Species: Canis (Dog roundworm).

Geographic Region: Worldwide Host: Dogs and canids Life cycle: Complex and consists of 1. Through the uterus to the fetus. 2. Through colostrum and milk during lactation. 3. Direct method 4. Through the emergency host, including humans and other mammals Method of transmission and infection: Oral and placental Materials transmitted by: Water, food and uterine tissue Name of Disease :Toxocariasis

Site of infection in Dogs and canids: Small Intestine Infective stage: Second larva Method of laboratory diagnosis: Stool examination, Clinical symptoms and Immunological testsls It is a zoonotic disease: Yes The most important symptom in humans: enlarged liver and spleen, allergies and granulomas The most important symptom in animals: abdominal distension, cough and diarrhea **Treatment:** Piprazine Theniumm Ivermectine **Control**: Cleanliness of dog breeding areas. Getting rid of stray dogs. Periodic examination of domestic dogs Educating humans about the risk of infection

 The frequently have three main lips surrounding their oral opening

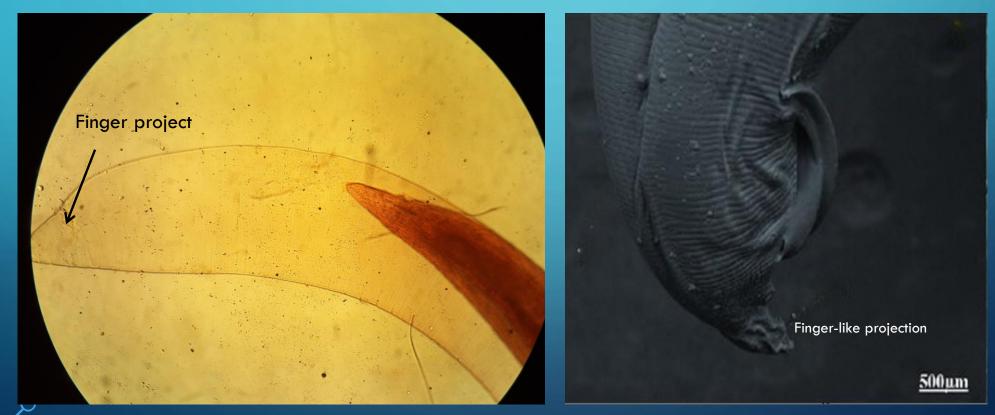


Toxocara canis (anterior part)

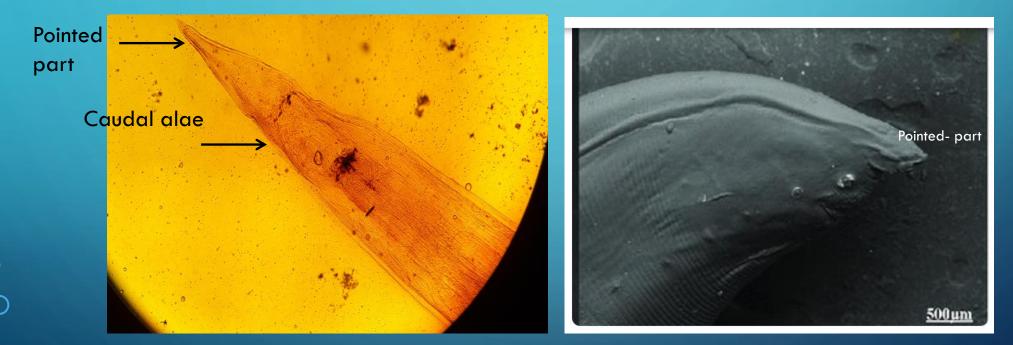
• Male worm measure 4-10cm and female worms 5-18centimeter



• The male tail has a terminal narrow appendage (Finger Project)

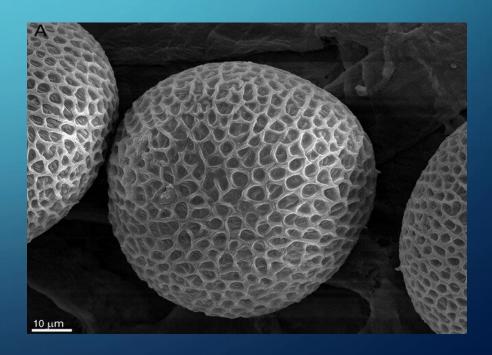


• The female tail has a pointed-part



Toxocara canis (posterior part female)

• T. canis eggs have spherical shape, thick with fine pitted shells, measure 85x75 micrometer



Toxascaris leonina





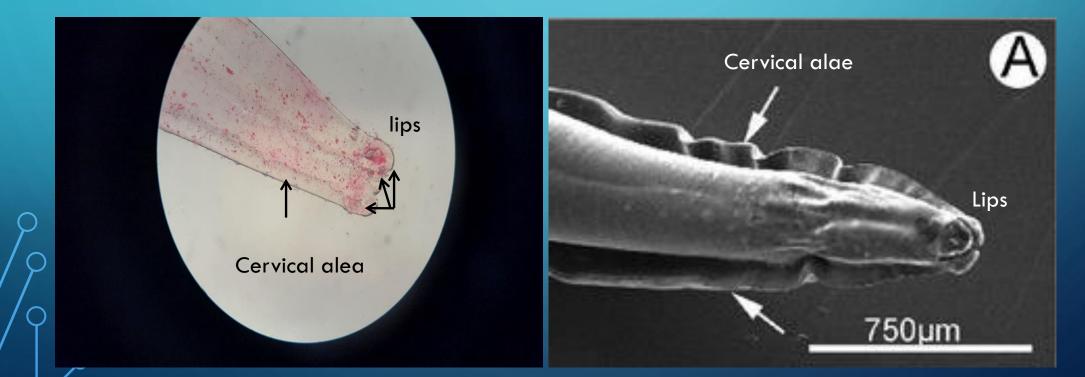


Taxonomic Consideration

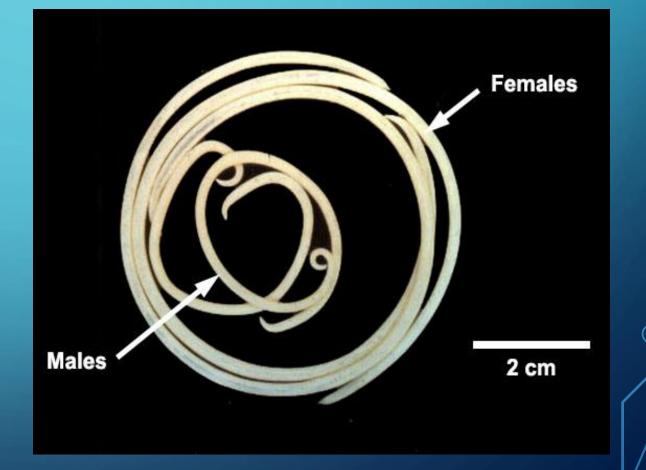
Kingdom: Animalia Phylum: Nematoda Class: Rhabditea Order: Ascaridida Family: Ascarididae Genus: Toxascaris Species: leonina

- Geographic Region: Worldwide
- Final Host: Canids (dogs, foxes, etc.) and felines (cats)
- Intermediate host: None
- Accidental Host: Human
- Name of Disease :Toxocariasis
- Site of infection: Small intestine

• The frequently have three main lips surrounding their oral opening with large cervical alae.



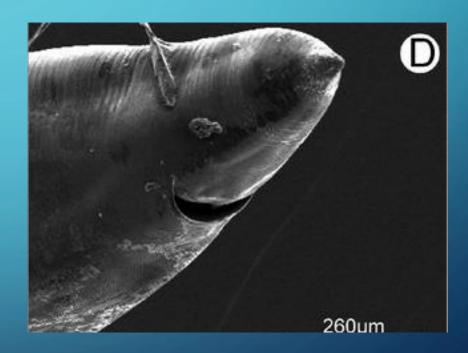
• female worms longer than males.



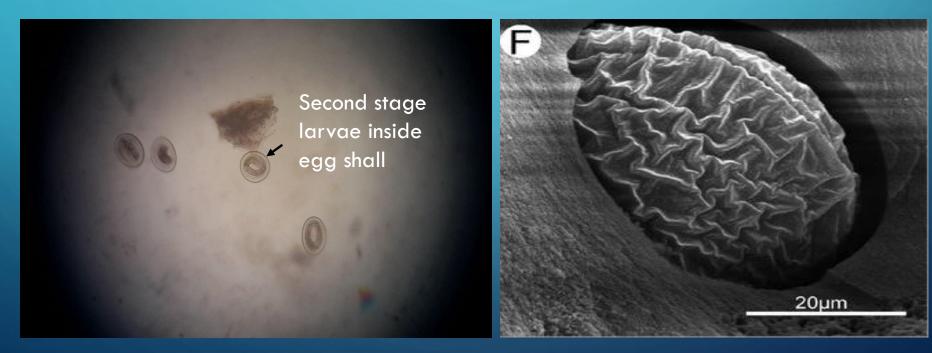
• The male tail has narrow terminal appendix and caudal alae



• The female tail



• T. leonine eggs are sub globular. It has smooth external sheath.



Toxoscaris leonine (Ova)





Life cycle of Toxocara canis



Roundworms in Dogs_ Toxocara canis & Toxascaris leonina