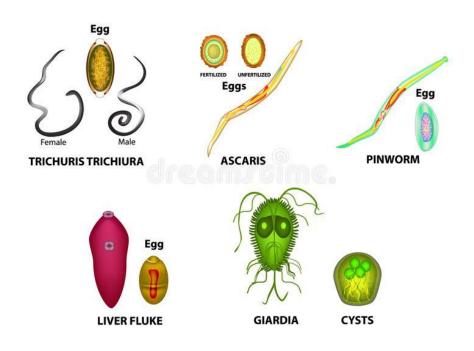
Parasitology Paper-B

Chapter No I

General Features of Helminths

SET OF HELMINTHS



Helminths

- 'Helminth' is a general term meaning worm.
- All helminths are invertebrates with long, flat or round bodies.
- Helminths infect a range of hosts, including humans.
- Their effects inside their host also vary, causing a wide spectrum of diseases, from mild to potentially deadly.

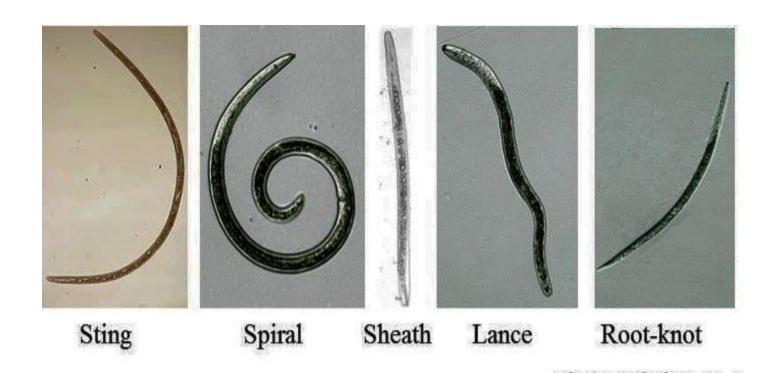
- Infection can cause physical, nutritional and cognitive impairment in young, developing children.
- There are many different kinds of helminth ranging in length from less than one millimetre to over one metre.

Helminthes

	Cestodes	Trematodes	Nematodes
Shape	Segmented plane	Unsegmented plane	Cylindrical
Body cavity	No	No	Present
Digestive tube	No	Ends in cecum	Ends in anus
Sex	Hermaphroditic - Taenia (tapeworm)	Hermaphroditic, except Schistosoma which are dioecious	Dioecious- Ascaris (roundworm)
hook organ component	Oral sucker, botridias, and double Rostellar hooks	Oral sucker and ventral sucker	Lips, teeth, filariform extremities, and dentary plates

Chapter no 2

General Features of Nematodes



Phylum - Nematoda

Nematodes/roundworms make up the phylum Nematoda.

This phylum is composed of organisms with the following characteristics:

- Thin and elongated (hair-like)
- Tubular in appearance
- Majority are microscopic while a few can be viewed with the naked eye. However, Placentonema gigantissima, a nematode that infects sperm whales has been shown to grow up to 9 meters (30 ft) in length

- Head and tail are not visually distinct
- They have a cuticle
- They have a nervous system that controls the muscle cells

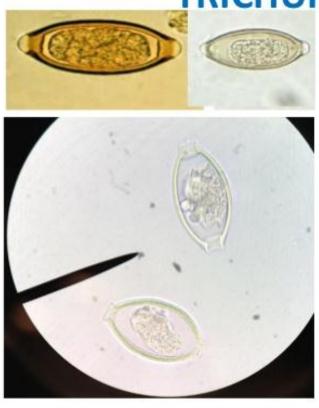
Examples

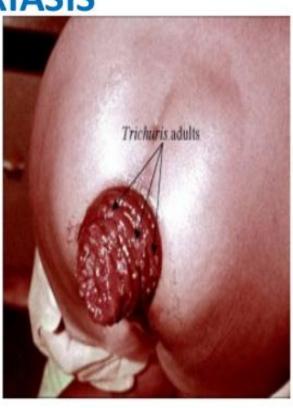
Some of the worms belonging to the phylum Nematoda include:

- Ascarids
- Filarias
- Whipworms
- Adenophorea
- Enoplea

Chapter No 3

TRICHURIASIS

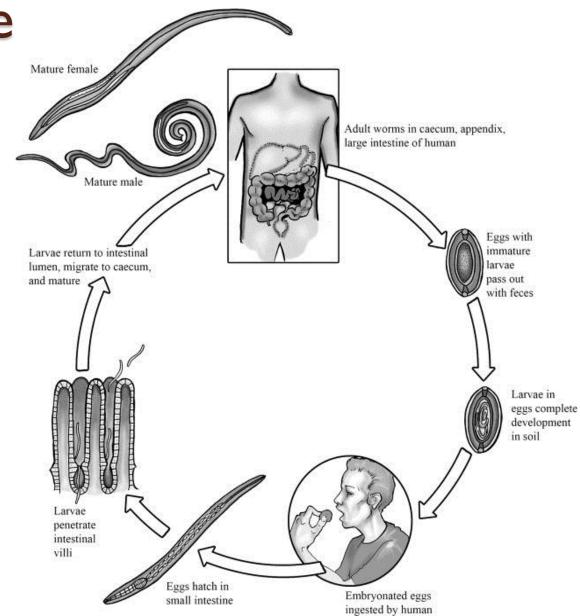




Trichuriasis

A whipworm infection, also known as trichuriasis, is an infection of the large intestine caused by a parasite called *Trichuris trichiura*. This parasite is commonly known as a "whipworm" because it resembles a whip

Life Cycle



Symptoms

A whipworm infection can cause a variety of symptoms, ranging from mild to severe. They may Include the following:

- bloody diarrhea
- painful or frequent defecation
- abdominal pain
- nausea
- vomiting
- headaches
- sudden and unexpected weight loss
- fecal incontinence, or the inability to control defecation

Diagnosis

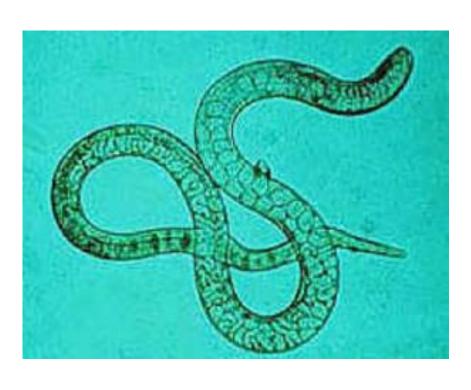
To diagnose a whipworm infection, your doctor will order a stool test

Treatment

The most common and effective treatment for a whipworm infection is an antiparasitic medication, such as albendazole and mebendazole

Chapter No 4

Trichinellosis

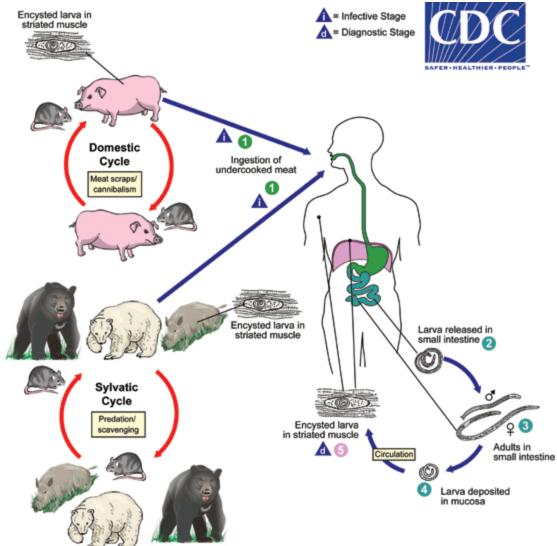




Trichinllosis

Trichinellosis (trichinosis) is caused by nematodes (roundworms) of the genus *Trichinella*. In addition to the classical agent

Life cycle



Symptoms

Symptoms include diarrhea, abdominal cramps, muscle pain, and fever. People acquire the infection by eating raw or undercooked contaminated meat.

Treatment

 Anti-parasitic(anthelminthic) medication is the first line of treatment against trichinosis.

Chapter No 5

Strogyloidiasis

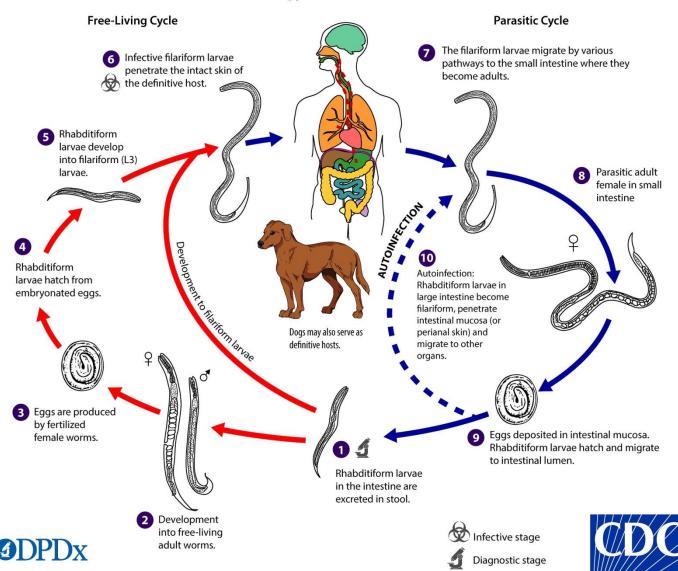


Strongyloidiasis

 Strongyloidiasis is infection by a roundworm, or nematode, called Strongyloides stercoralis. The S. stercoralis roundworm is a type of parasite.

Life Cycle

Strongyloides stercoralis



Symptoms

In around 50 percentTrusted Source of cases, strongyloidiasis causes no symptoms. If symptoms are present, they may include:

- upper abdominal burning or pain
- diarrhea, or alternating diarrhea and constipation
- a cough
- a rash
- red hives near the anus
- vomiting
- weight loss

Diagnosis

The following tests may be performed to diagnose an infection with *S. stercoralis*:

- Duodenal aspiration.
- Sputum culture.
- Stool sample for ova and parasites
- Complete blood count (CBC) with differential
- Blood antigen test.

Treatment

All patients should be treated with Albendazole