

# Nematodes

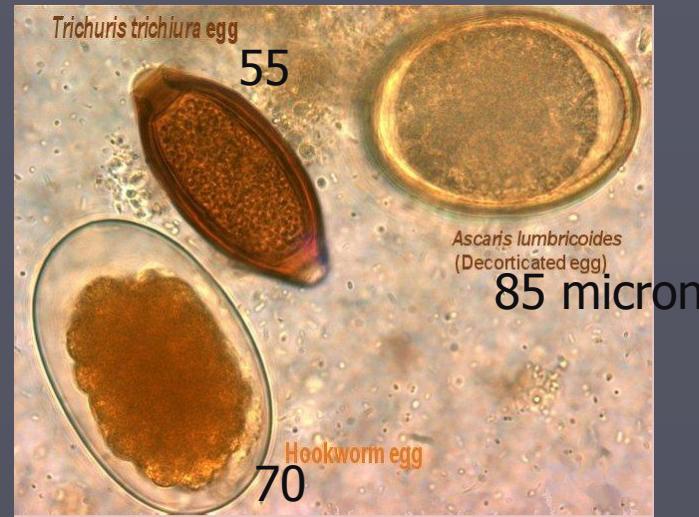
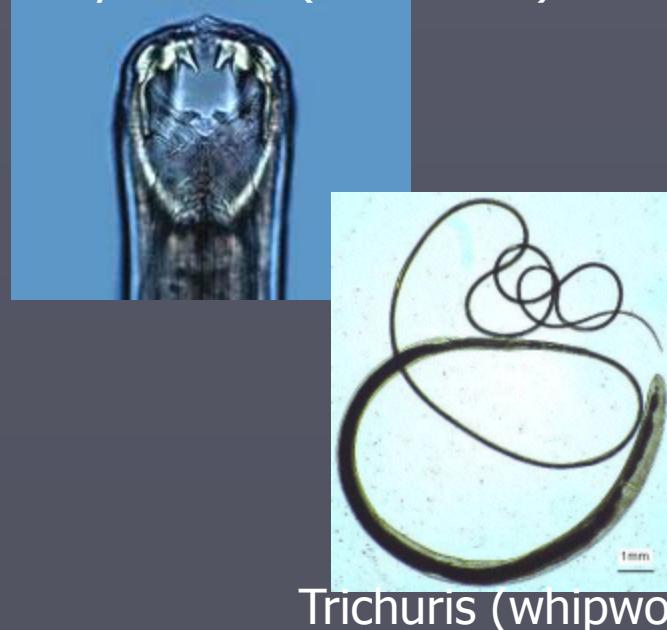
- ▶ roundworms
- ▶ Either adults or larvae (or both) can cause disease/pathology
- ▶ Like platyhelminths, usually diagnosed by demonstration of eggs

(Strongyloides:larva in stool is diagnostic)

# Intestinal nematodes



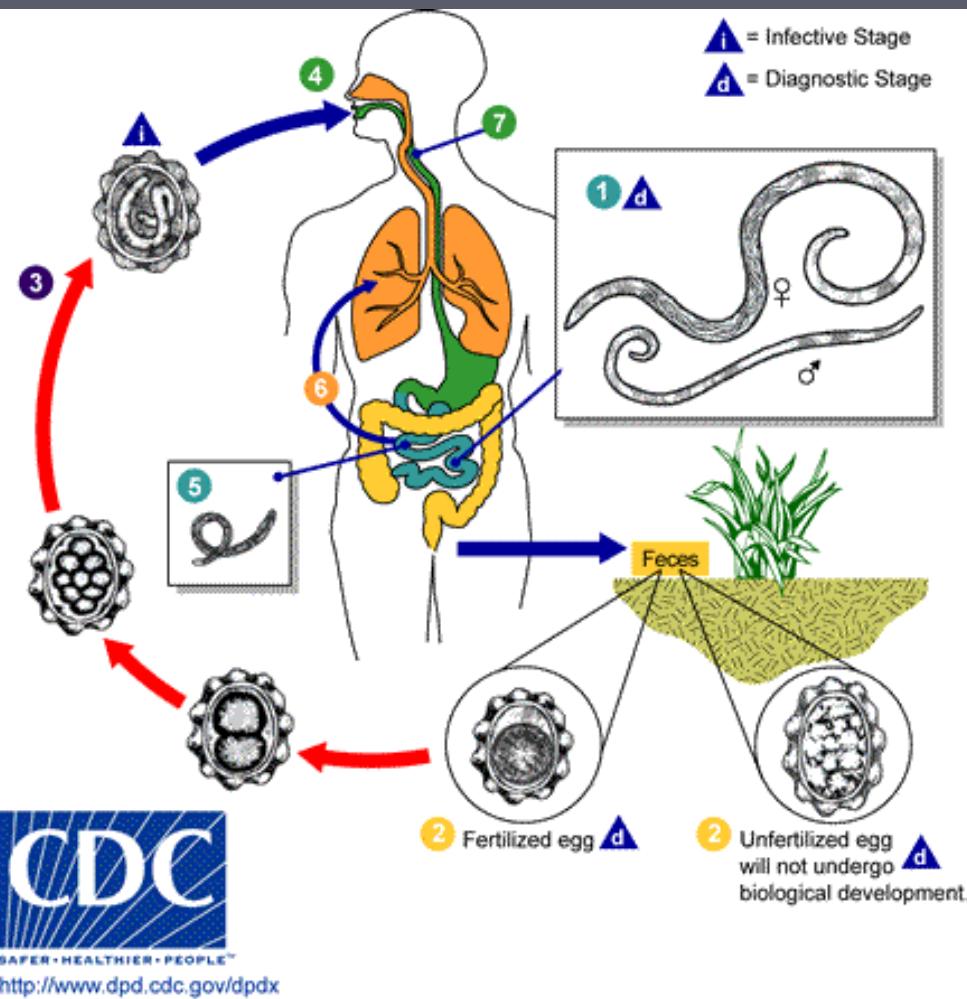
Ancylostoma (hookworm)



Trichuris (whipworm)

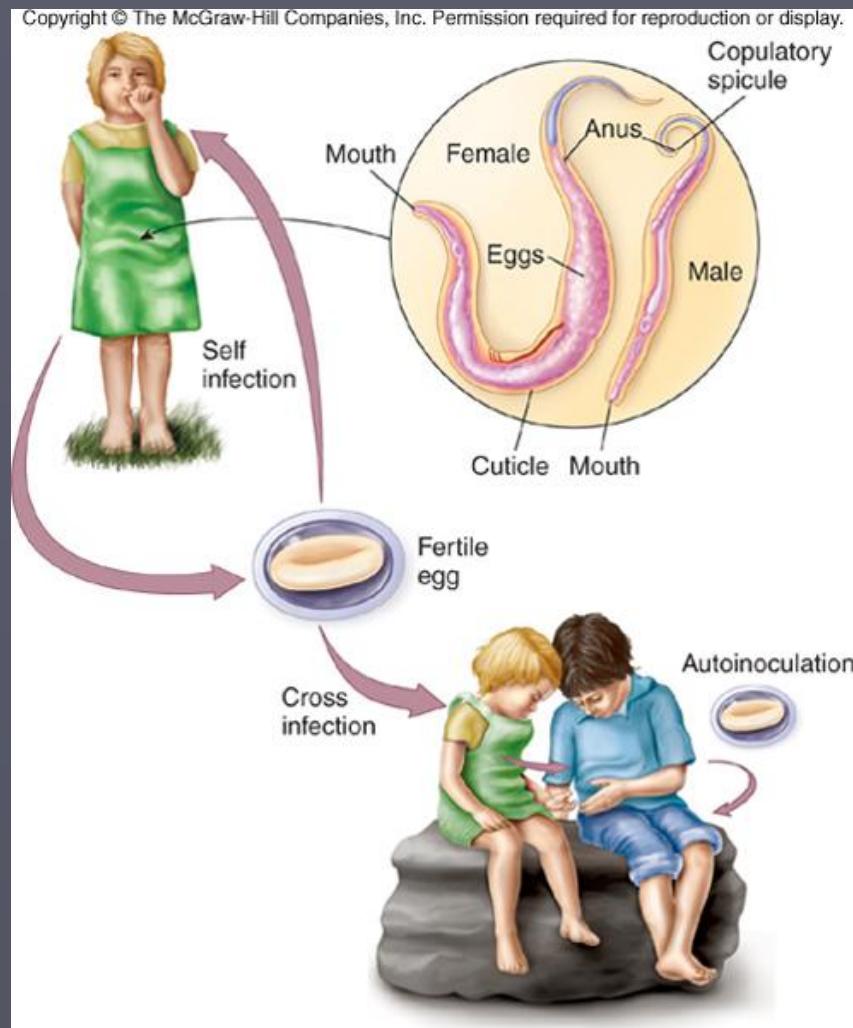
Oregon State Public Health Laboratories

# Fecal/oral transmission



*Ascaris lumbricoides* life cycle

Mebendazole, albendazole



Pinworm life cycle-*Enterobius vermicularis*

*Hookworms*

*Strongyloides*

*Dracunculus*

*Whipworm*

*Trichinella*

*Toxocara*

Filarial worms:

*Brugia, Onchocerca, Loa loa*

# Filarial nematodes

- ▶ Larvae live in blood and/or lymphatics
- ▶ Transmitted by **blood-sucking insects** (flies, mosquitoes)

# Filarial nematodes



microfilaria



**How would these be diagnosed?**

Microfilaria

What is the infective stage?

L3 larva

*Wuchereria bancrofti* - elephantiasis

## *Wuchereria bancrofti*

