Trichinella spiralis-

Habitat

Mucosa of small intestine of pig, rat, bear, and man

No free-living forms



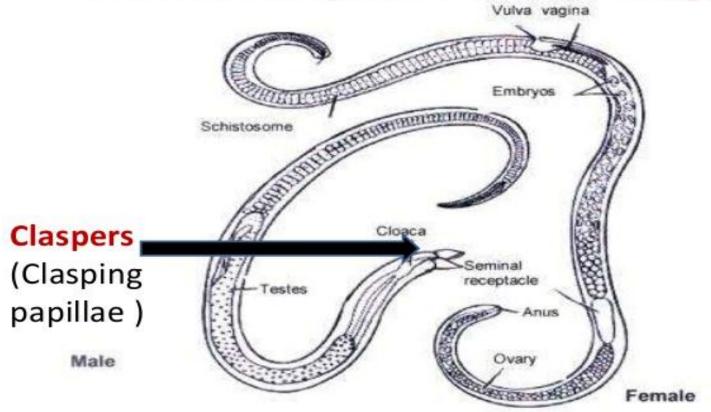
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- Trichinella species, the smallest nematode parasite of humans.
- It is an ovoviviparous.
- It is sometimes referred to as the "pork worm".
- It should not be confused with the distantly related pork tapeworm.

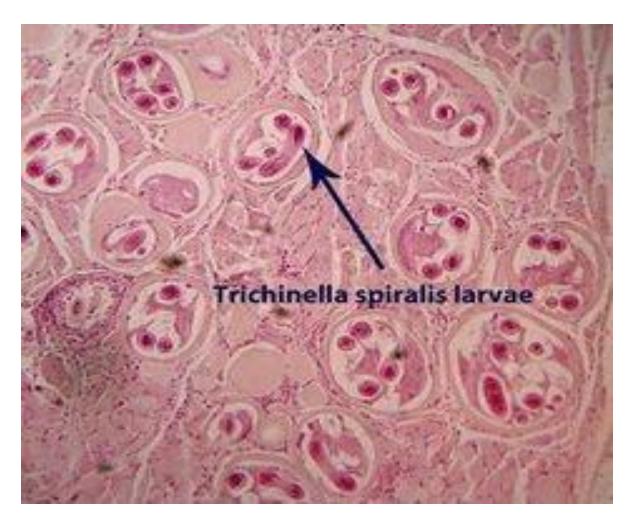
Morphology

- Adult Worm
- Male worm
- Female worm
- Larvae

Trichinella spiralis- Morphology



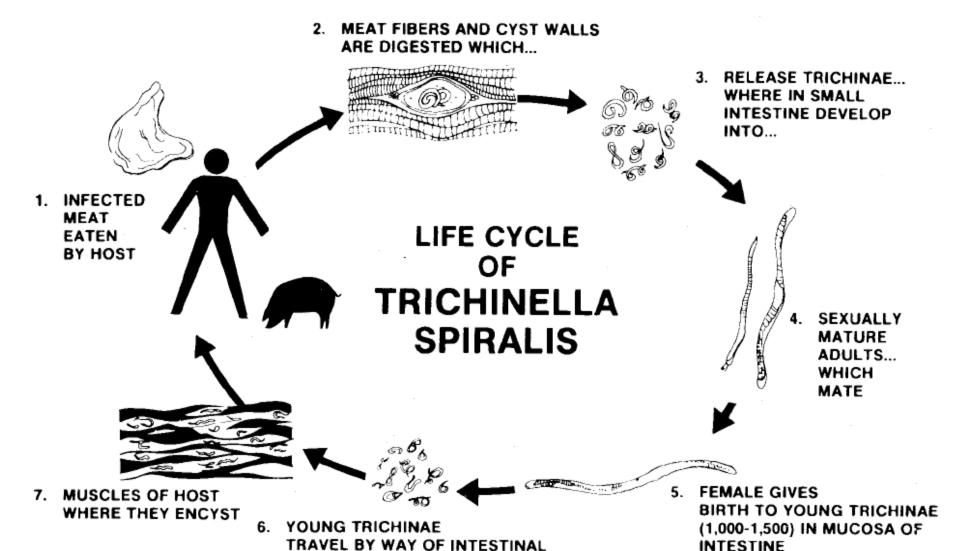
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Life cycle

- Trichinella spiralis can live the majority of its adult life in the intestines of humans.
- To begin its life cycle, Trichinella spiralis adults will invade the intestinal wall of a pig, and produce larvae that invade the pig's muscles.
- When another animal (perhaps a human) eats the infected meat, the larvae are released from the <u>nurse cells</u> in the meat (due to stomach pH), and migrate to the intestine, where they burrow into the intestinal mucosa, mature, and reproduce.



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LYMPHATICS TO BLOOD CIRCULATION TO ...

Symptoms

- Mostly gastrointestinal including:
- Nausea
- Diarrhea
- Vomiting
- Abdominal pain

- The classic trichinellosis symptoms often occur within 2 weeks after eating contaminated meat, and can last up to 8 weeks,
- Muscle pain
- Fever
- Swelling of the face, particularly the eyes
- Headache
- Weakness or fatigue
- Chills
- Itchy skin or rashCough
- Diarrhea
- Constipation

Prevention and control

- The best way to prevent trichinellosis is to cook meat to safe temperatures.
- Curing (salting), drying, smoking, or microwaving meat alone does not consistently kill infective worms.

- ▶ Freeze pork less than 6 inches thick for 20 days at -15 °C to kill any worms.
- Wash hands with warm water and soap after handling raw meat.
- Clean meat grinders thoroughly after each use.
- Do not allow pigs or wild animals to eat uncooked meat, scraps, or carcasses of any animals.