



Kingdom: Anamalia

**Phylum: Platyhelminthes** 

Class: Cestoda

## Family: Anoplocephalidae

Have pyriform apparatus (the third external egg shen have two promenents hooks intersecting with each other).

Genus 1: Moniezia

Sp.: M. expansa

Moniezia it is a large tapeworm

Host: small intestines of sheep, goats and cattle.

It is characterized by unarmed <u>scolex</u> (i.e., hooks and <u>rostellum</u> are absent), presence of two sets of <u>reproductive systems</u> in each <u>proglottid</u>, and each proglottid being very short but very broad.



#### LIFE CYCLE OF MONIEZIA EXPANSA

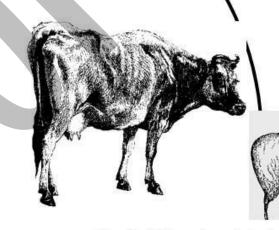


Eggs are passed in the feces.



Eggs are ingested by the intermediate host, a mite.





Definitive host is infected when it eats an infected mite





It is an extremely long tapeworm, and can reach an enormous length up to 6–10 m.

<u>Diagnosis</u>: Done by analysis <u>stool sample</u> in which eggs can be detected, or often observation of the gravid proglottids in feces and <u>anus</u>. The gravid proglottids resembles the cooked rice.





#### Genus 2: Anoplocephala



Sp. :A. magna

Infect intestine of horses and donkeys .proglottids very short. Have transverse uterus with anterior and exterior branches. Cause effects only if present in large numbers.

Is quite small, usually 2.5-5cms long but can be up to 8cm long and 1.2cm wide. scolex, is spherical and quite small with 4 suckers. The proglottides, are wide and thin.

- ry e develop to infectivity within the oribatid mite we 2 to 4 months. After the infected mites are eaten, the tapeworms mature in about 6 weeks within the horse.
- Location: Small intestine, and occasionally in the large intestine and cecum.
- Significance: Equine tapeworms are not generally regarded as clinically significant unless a large number are present or the host is already in poor condition.
- **Effect on Host**: **Anoplocephaliasis** is the disease caused by tapeworms competing with the horse for food and vitamins.
- Light infections in horses cause little damage. They especially gather around the ideo-caecal valve at the entrance to the caecum.

numbers of tapeworms may spill over into the treatine and cause irritation, producing haemorrhagic or ulcerative enteritis. Intestinal blockage or intestinal inflammation may be seen.

<u>Diagnostic Information</u>: Identification of square, rough embryonated eggs or segments in the feces, or the presence of adult worms at necropsy.









DH = horse Prepatent period = ~2 mos

2-4 months to develop

IH = Oribatid mite



cysticercoid



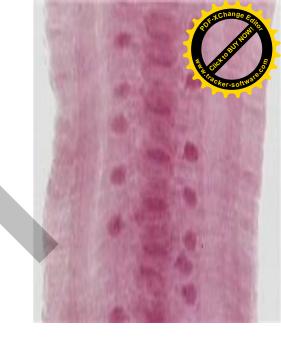
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# Family: Thysanomidae



sp.: A. centripunctata



Infect intestine of sheep, goats.

Filiform, tapered at both ends. The anterior extremity exhibits an apical cone

Length: 3m or more, width: 3mm.very short proglottids and unspecified. the worm appeared unsegmented.

Have P.U.O. (Par –Uterien Orgens)

## **Order: Davainedea**



Its rostellum have Hammer-Shaped Hooks

**Family:** Davainedae

Genus 1: Davainea

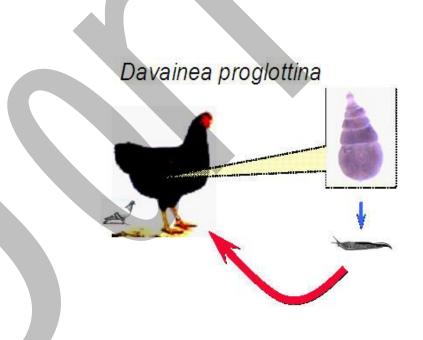
sp.: D. proglottina

size: 0.5 - 3 mm.

proglottids no.: 4 -9.

hooks on rostellum: 80 -94 which con loss easily.

Site of infection: Duodenum of chickens





#### Genus 2: Raillietina



#### sp.: R. cesticillus

Is a common tapeworm of chickens and other poultry.

The intermediate hosts of this worm, beetles but sometimes even houseflies, eat the eggs of the tapeworm, where they develop into cysticercoids. The chicken then consumes the insects while it is foraging. Large numbers can infect a single bird.

Raillietina spp.





## Family: Dipylidiidae



sp.: D. caninum



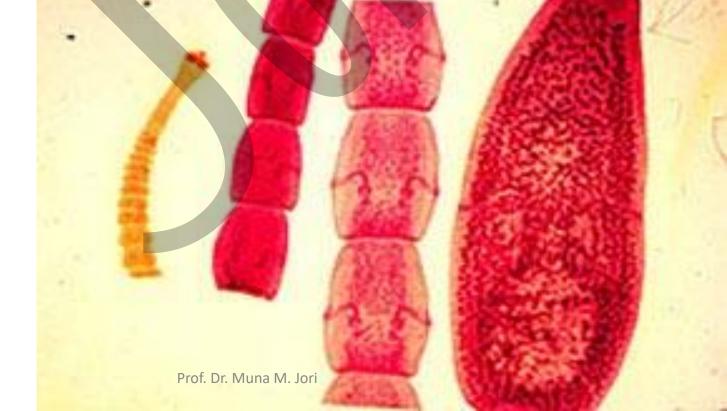
- -Presence of bilateral genital pores in each segment (di: 2; pylis: gate): 2 entrances
- 2 sets of male and female reproductive organs
- Scolex: Small and globular
- 4 deeply cupped elliptical suckers
- Protrusible/retractile rostellum
- Rostellum has 1-7 rows of rose thorn shaped hooklets.

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- the dog tapeworm reach 50 cm in length. It is ansmitted to humans by infected dog fleas. also called the cucumber tapeworm or the double-pore tapeworm.
- Each side has a set of male and female reproductive organs.
- The <u>scolex</u> has a <u>rostellum</u> with four rows of hooks, along with the four suckers that all cyclophyllid cestodes have.
- Children are the most frequently affected. By kissing a dog or having it lick the face, an infected dog flea can easily be swallowed.

particles in the stool or undergarments. These particles are actually the egg-bearing segments of the tapeworm. After the flea is swallowed, the larvae is liberated, reaching maturity in about

twenty days.







# Dipylidium caninum





