

# Veterinary Parasitology

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## Fluke Answers



# Question

Regarding Clinical Signs: what other helminth disease does fascioliasis resemble?

(CS: Ruminant Host. Weakness, anemic pallor, bottle jaw.)

- A. Cyathostomiasis
- B. Haemonchosis
- C. Babesiosis
- D. Toxoplasmosis
- E. Coccidiosis

# Question

- Matching: *Fasciola hepatica* and *Haemonchus contortus* are parasitic worms of ruminants. Match each of these parasitic worms with the appropriate association.

C 1. Anemia

A 2. Nematode

B 3. Bile ducts

B 4. Sedimentation

C 5. Bottle Jaw

A 6. McMasters

A. *Haemonchus contortus*

B. *Fasciola hepatica*

C. Both

# Question

- **Matching:** *Fasciola hepatica* may present as Acute fascioliasis or Chronic fascioliasis. Match each of these presentation with the appropriate association.

B 1. Eggs in feces

A. Acute fascioliasis

B 2. Adult worms

B. Chronic fascioliasis

A 3. Traumatic hepatitis

B 4. Stenotic bile ducts

A 5. Migrating juvenile worms

A 6. Unwilling to stand / sudden death

# Question

What bacterium is associated with *Fasciola hepatica* and causes black disease in sheep & goats?

- A. *Staphylococcus aureus*
- B. *Streptococcus mutans*
- C. *Proteus mirabilis*
- D. *Clostridium novyi*
- E. *Escherichia coli*

# Question

- Regarding a goat infection with *Fascioloides magna*, would one find eggs in a fecal sedimentation ?

A. Yes, patent adults in the bile ducts

B. No, death by migrating juvenile flukes

# Question

- Matching: *Fasciola hepatica* and *Fascioloides magna* are parasites of ruminants. Match each of these parasitic worms with the appropriate association.

C 1. Sudden death

A 2. Bile ducts

B 3. North Carolina

A 4. Sheep definitive host

B 5. Goat dead-end host

C 6. Wet pastures / ponds

A. *Fasciola hepatica*

B. *Fascioloides magna*

C. Both

# Question

Which liver fluke causes a chronic wasting pathology in small ruminants, resulting in decreased productivity in older animals?

A. *Dicrocoelium*

B. *Paragonimus*

C. *Nanophyetus*

D. *Fascioloides*



# Question

- **Matching:** *Fasciola hepatica*, *Fascioloides magna* & *Dicrocoelium dendriticum* are liver flukes of ruminants. Match each of these parasitic worms with the appropriate association. (some blanks may have more than one letter)

B,C 1. Zoonotic

C 2. Ants

B,C 3. Bile ducts

A,B 4. Aquatic vegetation

C 5. Pennsylvania

B,C 6. Sedimentation for sheep

A. *Fascioloides*

B. *Fasciola*

C. *Dicrocoelium*

# Question

In goats, which 2 liver flukes can cause sudden death from acute hepatitis due to migrations of juvenile worms?

- A. *Dicrocoelium* & *Fasciola*
- B. *Fasciola* & *Fascioloides*
- C. *Paragonimus* & *Nanophyetus*

# Question

In sheep, which 2 liver flukes can cause decreased productivity due to chronic damage caused by adult worm activity in the bile ducts?

- A. *Dicrocoelium* & *Fasciola*
- B. *Fasciola* & *Fascioloides*
- C. *Paragonimus* & *Nanophyetus*

# Question

Second Intermediate Host: One often controls fluke infections by not allowing access to the 2<sup>nd</sup> intermediate host. Match the Fluke with its 2<sup>nd</sup> intermediate host.

D 1. *Fasciola*

E 2. *Heterobilharzia*

C 3. *Dicrocoelium*

A 4. *Paragonimus*

D 5. *Fascioloides*

B 6. First Intermediate host

A. Crayfish

B. Snail

C. Ant

D. Aquatic Vegetation

E. No 2<sup>nd</sup> intermediate host

# Question

Disease Carriers: Some flukes carry / induce other disease pathogens. Match the fluke with its associated characteristics .

C 1. Potomac Horse fever

A 2. Canids

A 3. Raw Fish

B 4. *Clostridium novyi*

A 5. *Neorickettsia helminthica*

B 6. Red Water Fever

C 7. Bats

A. *Nanophyetus salmincola*

B. *Fasciola hepatica*

C. *Acanthatrium oregonensis*

# Question

Which is the standard diagnostic technique when trematode parasites are suspect?

- A. McMaster
- B. Fecal Float Centrifugation
- C. Passive Fecal Float
- D. Fecal Sedimentation
- E. FAMACHA

# Question

1. What is the ecological relationship between the definitive host and the intermediate host of most digenetic trematodes (and cestodes)?

Predator / Prey relationship  
Predation

# Question

2. Which one of the following is a good general statement about the life cycle of digenetic trematodes ?

- A. The infective (metacercarial) stage always encysts on aquatic vegetation.
- B. The miracidial stage is always aquatic: hatching from the ova and swimming to its next host.
- C. A snail intermediate host is required.
- D. The second intermediate host is always a vertebrate.
- E. The adult fluke is always found in the small intestine of the definitive host.