

PERTEMUAN 6

F. hepatica, E. malayanum, E. Ilocanum



Trematode

Flukes / leaf-shaped worm

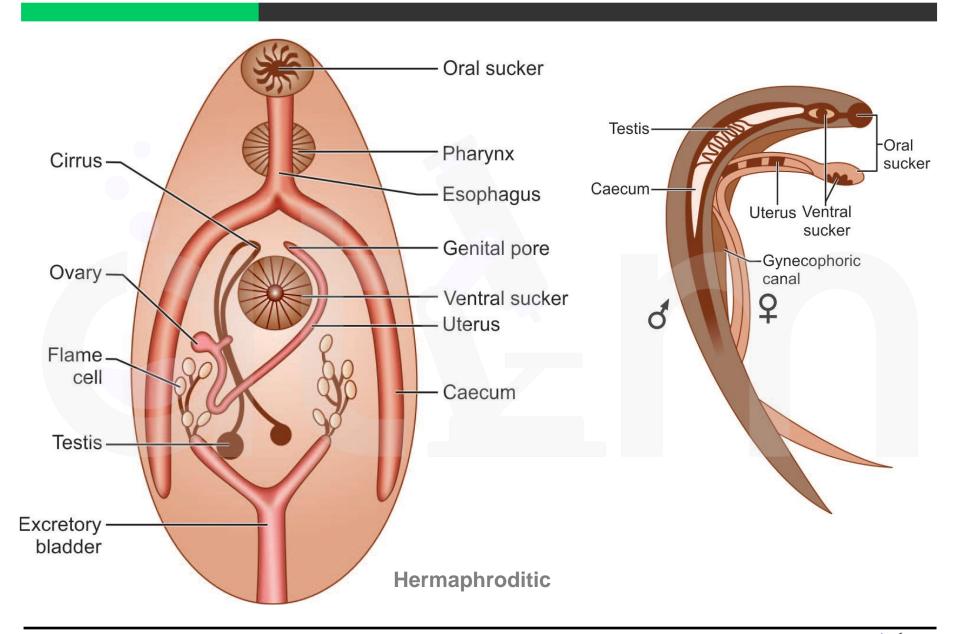
Classification of Termatodes

Superfamily	Family	Genus	Species
Schistosomatoidea	Schistosomatidae	Schistosoma	S. haematobium
			S. mansoni
			S. japonicum
Echinostomatoidea	Echinostomatidae	Echinostoma	E. ilocanum
			E. malayanum
Fascioloidea	Fasciolidae	Fasciola Fasciolopsis	F. hepatica
			F. buski
Opisthorchioidea	Opisthorchiidae	Clonorchis	C. sinensis
Plagiorchioidea	Paragonimidae	Paragonimus	P. westermani

Classification based on Habitat

Habitat	Trematodes	
Blood (Blood fluke)	Schistosoma haematobium (In the vesical and pelvic venous plexuses)	
	Schistosoma mansoni (In the inferior mesenteric vein)	
	Schistosoma japonicum (In the superior mesenteric vein)	
Biliary tract (Liver fluke)	Clonorchis sinensis	
	Fasciola hepatica	
	Opisthorchis spp.	
Gastrointestinal tract (Intestinal fluke)	Fasciolopsis buski	
Small intestine	Heterophyes heterophyes	
	Metagonimus yokogawai	
	Watsonius watsoni	
Large intestine	Gastrodiscoides hominis	
Respiratory tract (Lung fluke)	Paragonimus westermani	

Trematodes Morphology





Fasciola hepatica

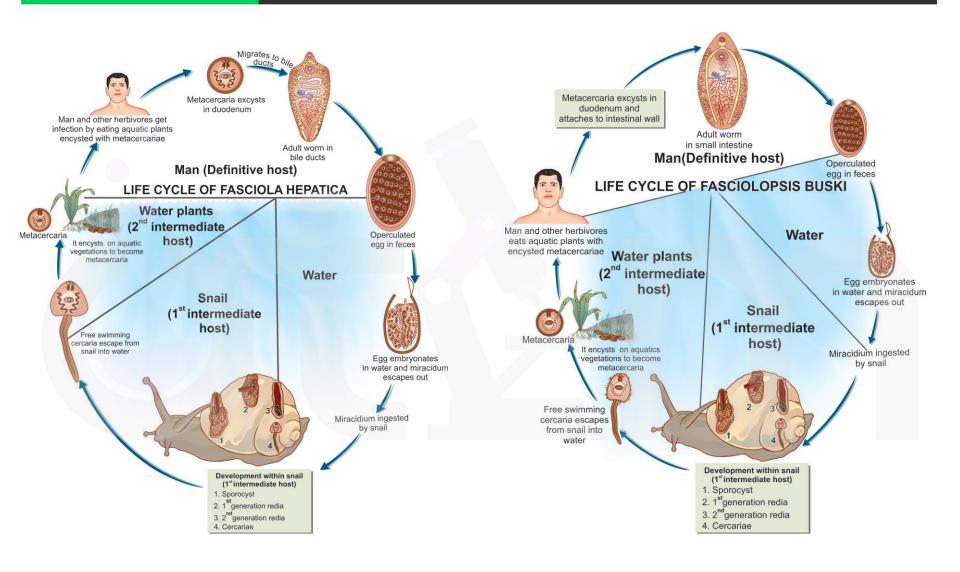
Sheep liver fluke

Fasciola hepatica

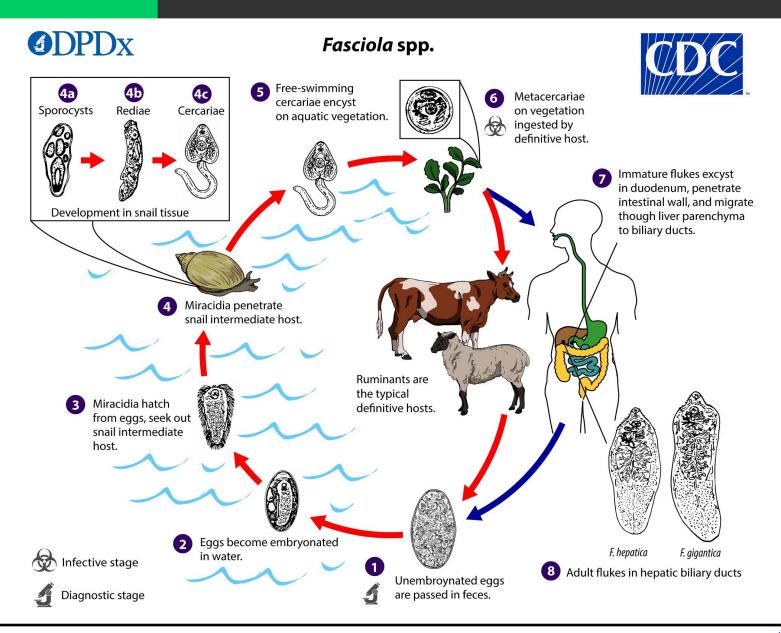
Taxonomy

- [Phylum] Platyhelminthes Gegenbaur, 1859 flatworms
- Subclass Digenea
- Order Echinostomida LaRue, 1957
- Suborder Echinostomata^T Szidat, 1939
- Superfamily Fascioloidea
- Family Fasciolidae^T Railliet, 1895
- Genus [Fasciola]^T Linnaeus, 1758
- Fasciola hepatica Linnaeus, 1758

Fasciola hepatica & Fasciolopsis Buski

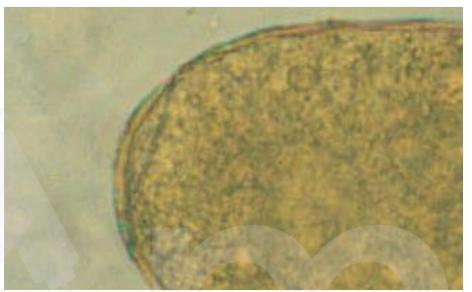


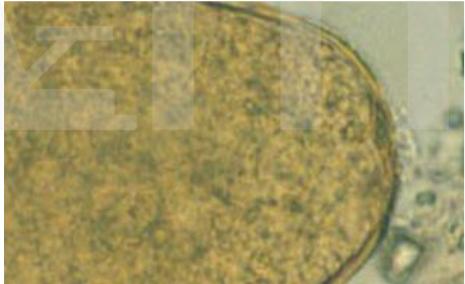
Fasciola hepatica - Sheep liver fluke



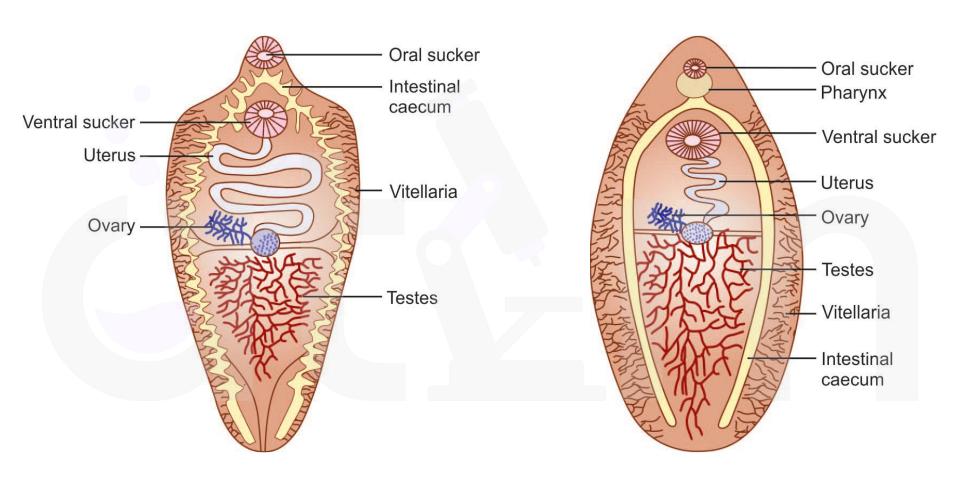
F.hepatica - Egg







F.hepatica VS F.buski - Morphology



F.hepatica VS Fasciolopsis Buski - Dewasa



F.hepatica - Dewasa





Echinostoma sp.

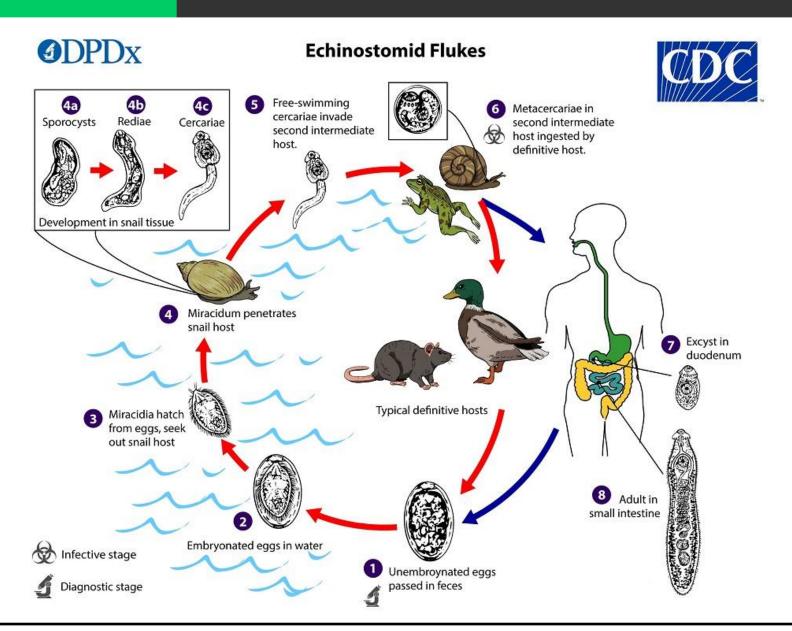
Echinostoma ilocanum & Echinostoma malayanum

Echinostoma sp.

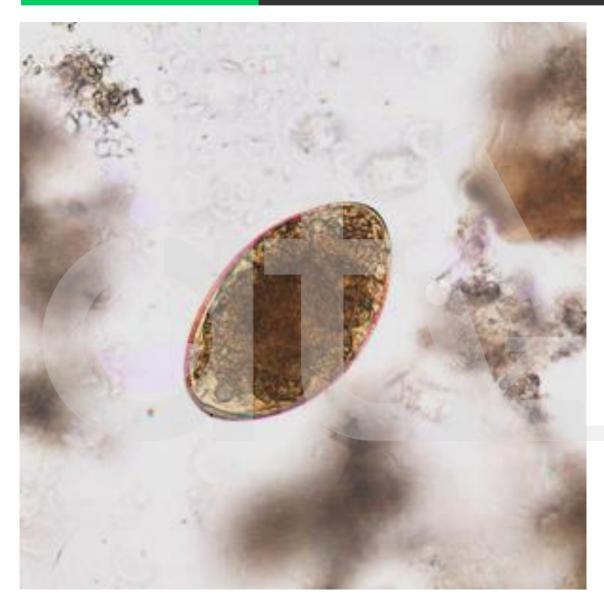
Taxonomy

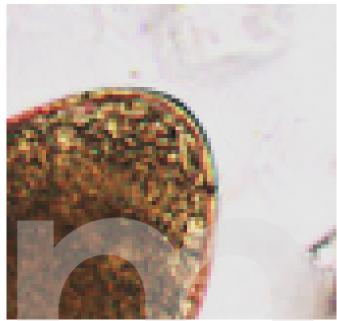
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- Order Echinostomida LaRue, 1957
- Suborder Echinostomata^T Szidat, 1939
- Superfamily Echinostomatoidea^T
- Family Echinostomatidae^T Looss, 1902
- Genus [Echinostoma]^T Rudolphi, 1809

Echinostoma sp.



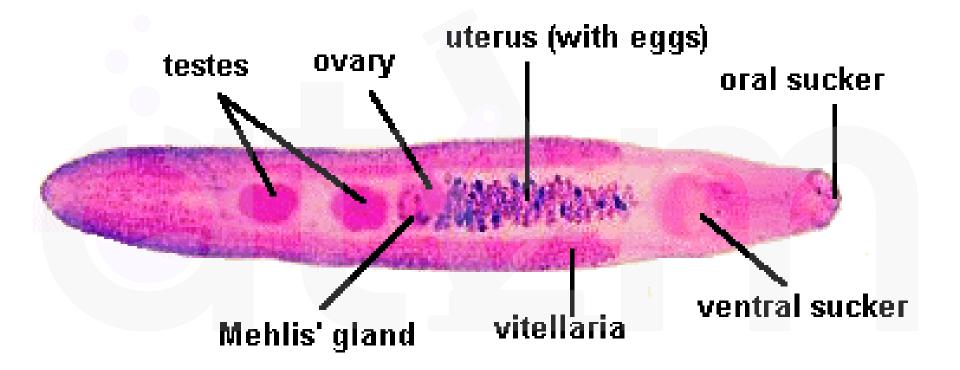
Echinostoma sp. Egg



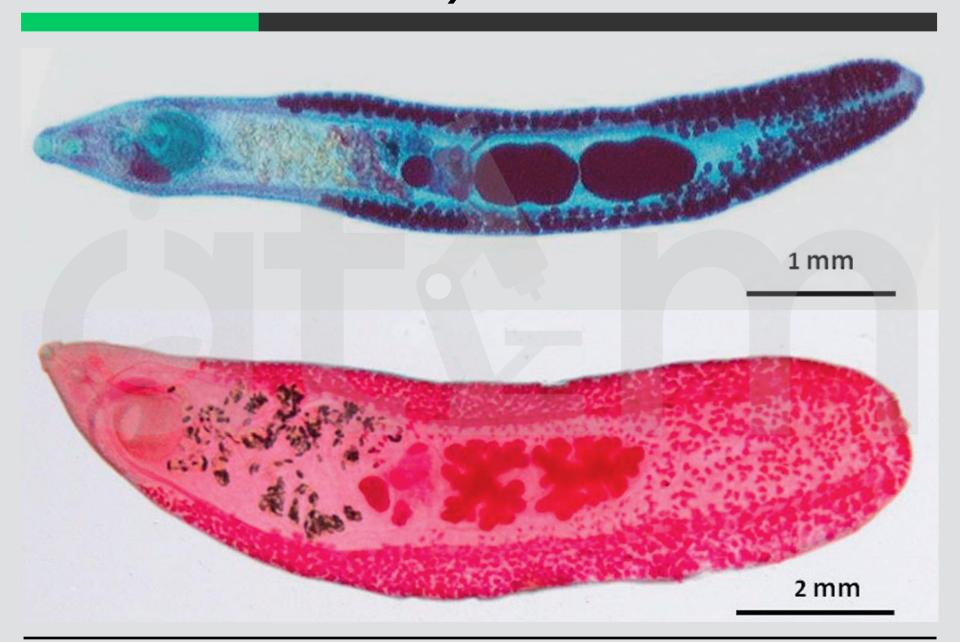




Echinostoma sp. Morphology



E.ilocanum VS E.malayanum



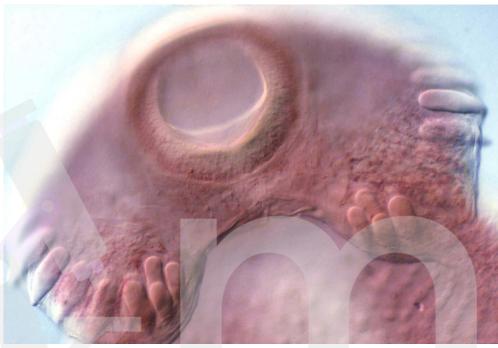
Echinostoma sp. Head

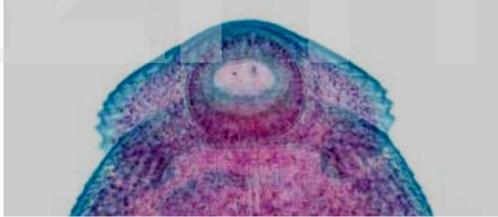




Echinostoma sp. - Circumoral disc & Collar spines









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