

PERTEMUAN 6

H. nana, H. diminuta, T. saginata. T. solium, D. caninum dan D. Latum

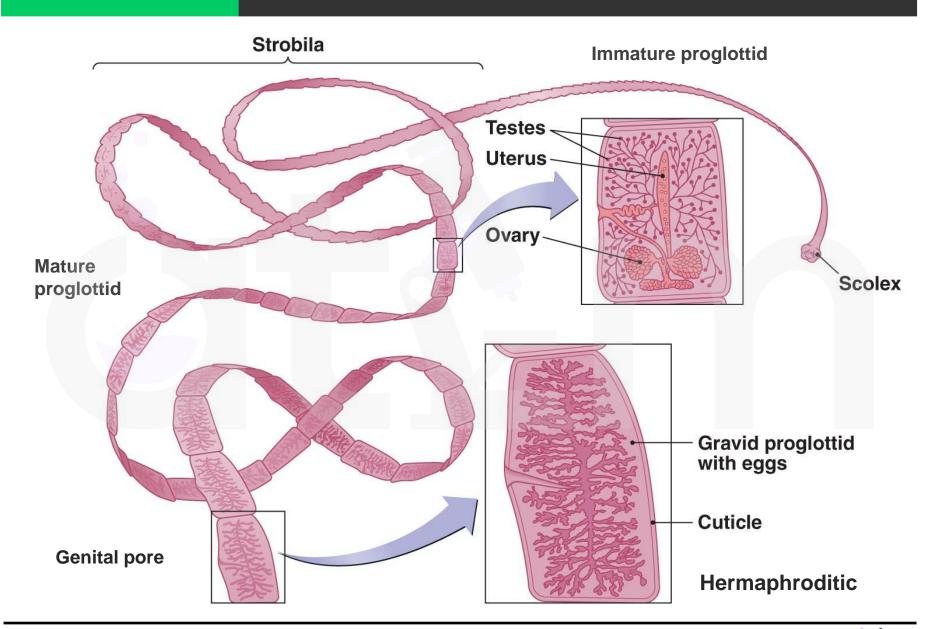


Cestode

Classification of Cestodes - Man

Order	Adult worm seen in human intestine	Larval stage seen in humans	
Pseudophyllidea	Diphyllobothrium latum, the fish tapeworm	• Spirometra mansoni	
		• Spirometra theileri	
		Spirometra erinace	
Cyclophyllidea	• Taenia saginata, the beef tapeworm	• Taenia solium, the pork tapeworm	
	Taenia solium, the pork tapeworm	• Echinococcus granulosus, the dog tapeworm	
	Hymenolepis nana, the dwarf tapeworm	• Echinococcus multilocularis	
	Hymenolepis diminuta, the rat tapeworm (rare)	 Multiceps multiceps and other species 	
	Dipylidium caninum, the double-pored dog tapeworm (rare)		

Tapeworm Morphology



Cacing Pita - *Tapeworm*

	Taenia solium	Taenia saginata	Hymenolepis nana	Hymenolepis diminuta	Diphyllobothrium latum
Heads					
	4 suckers 2 rows of hooks	4 suckers No hooks	4 suckers single row of 20–30 hooks	4 suckers No hooks	2 Suctorial grooves or bothria No suckers, No hooks
Proglottids	SIERCE SANSE TO VALUE OF ACTUAL OF A VALUE OF ACTUAL OF A VALUE OF		到 於語為美	《教教》(1988)	学能
	Longer than broad 7–12 uterine branches on each side	Longer than broad 15–30 uterine branches on each side	Broader than long	Broader than long	Broader than long
					Uterus coiled



Taenia sp.

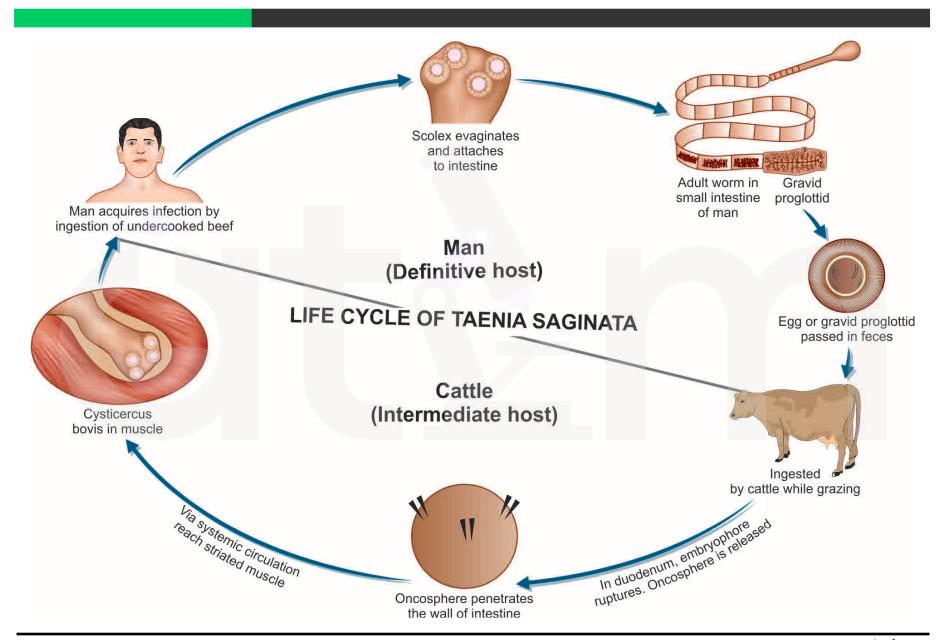
Tenia saginata & Taenia solium

Taenia sp.

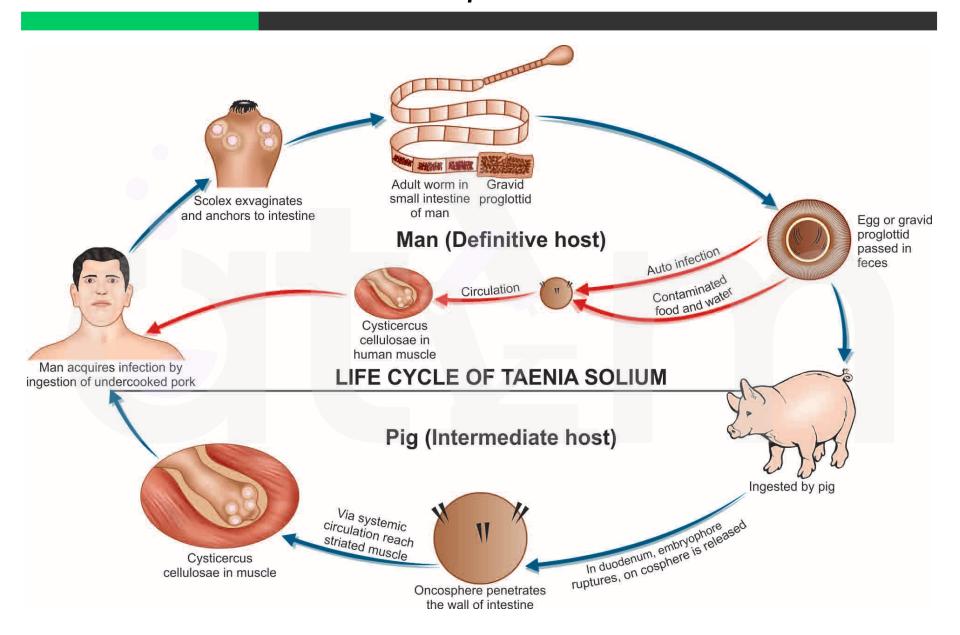
Taxonomy

- Cestoidea
- Order Cyclophyllidea Lankester, 1877, sedis mutabilis
- Family Taeniidae Ludwig, 1886
- Subfamily Taeniinae^T Ludwig, 1886
- Genus Taenia^T Linnaeus, 1758
 - Taenia solium Linnaeus, 1758
 - [Taenia saginata] see Taeniarhynchus saginata

Taenia saginata - Beef tapeworm



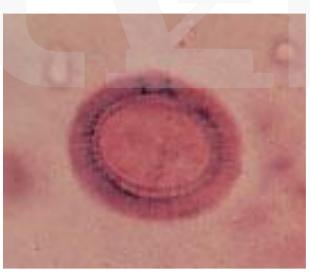
Taenia solium - Pork tapeworm

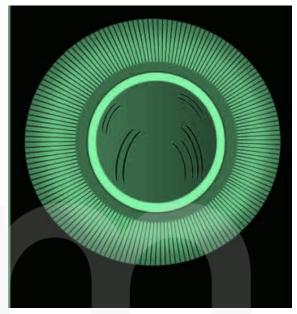


Telur *Taenia sp.*

- Bentuk bulat
- Dinding tebal
- Garis radier pada dinding
- Berisi embrio hexacanth

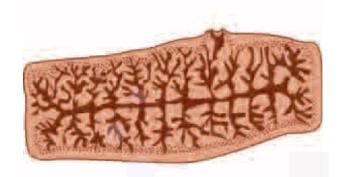






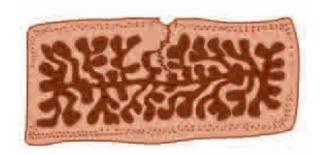


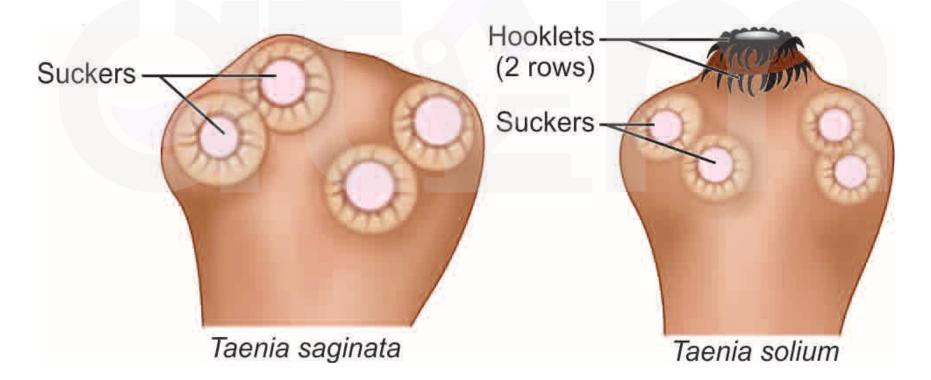
Scolex & Proglottids



Uterus 15-30 vs 7-12

Genital pore





Scolex & Proglottids









15 - 30

Rostellum

Uterus

+

7 - 12



Hymenolepis sp.

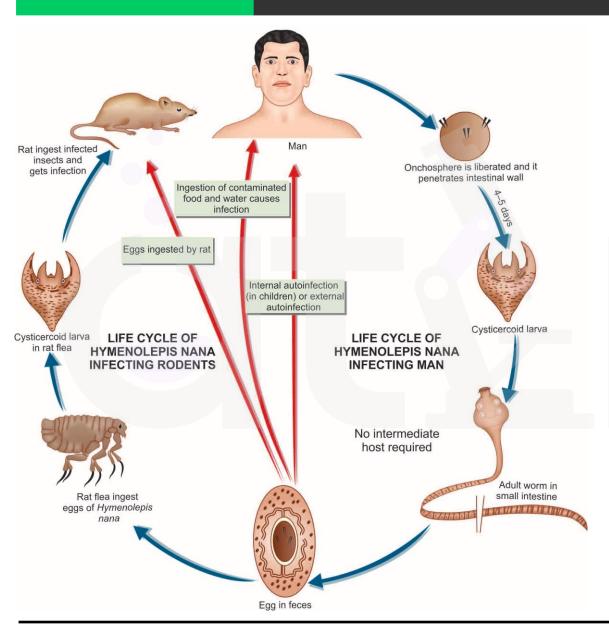
Hymenolepis diminuta & Hymenolepis nana

Hymenolepis sp.

Taxonomy

- Cestoidea
- Order Cyclophyllidea Lankester, 1877, sedis mutabilis
- Family Hymenolepididae Perrier, 1897
- Genus Hymenolepis^T Weinland, 1858
 - [Hymenolepis nana] see Vampirolepis nana
 - · Hymenolepis diminuta

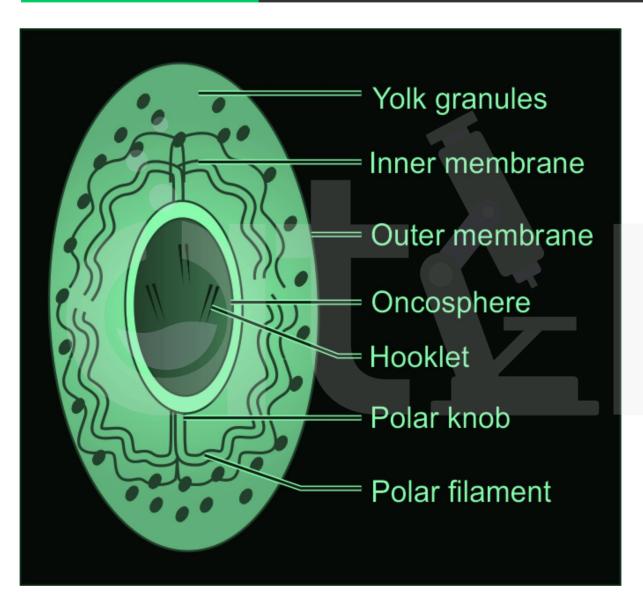
Hymenolepis nana - Dwarf tapeworm



H. Diminuta – Rat tapeworm

- lebih besar dari H. nana
- Siklus mirip H. Nana
- Infeksi tidak sengaja
- Tidak menimbulkan gejala

Telur Hymenolepis sp.



- Bentuk bulat atau sedikit oval.
- Ukuran H. nana 70 –
 85 μm X 60 80 μm,
 H. diminuta dengan
 kisaran ukuran 30–
 μm.
- H. diminuta 4-8
 filamen polar di
 antara kedua
 membran

Telur Hymenolepis sp.





Membrane

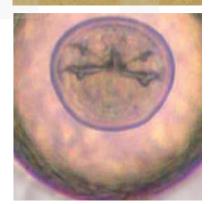
Polar filaments (4-8 filaments)

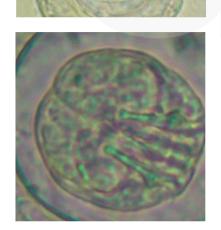
Kait (6-hooked)

Oncosphere / hexacanth embryo





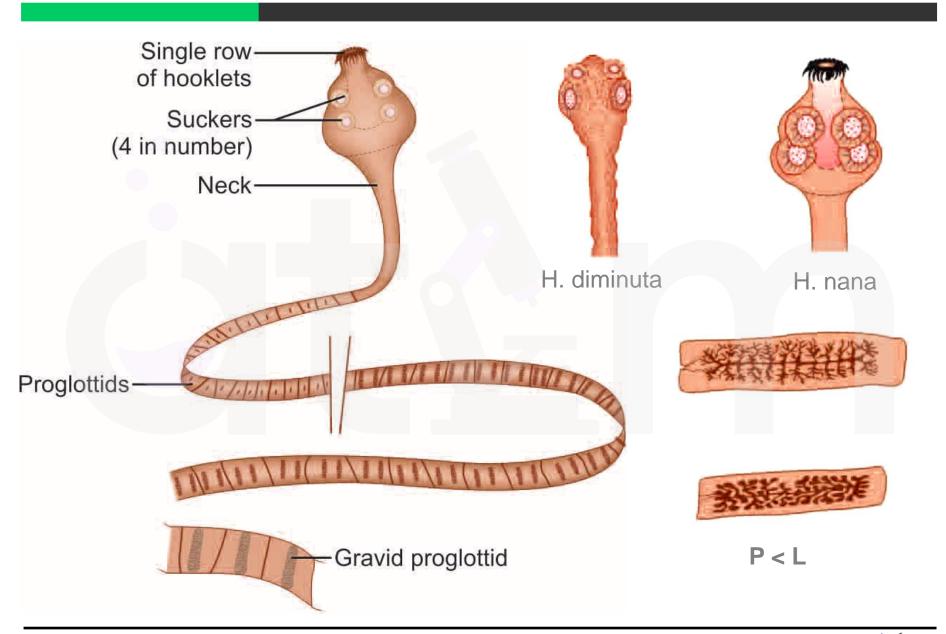








H. nana vs H. diminuta – Scolex & Proglottid

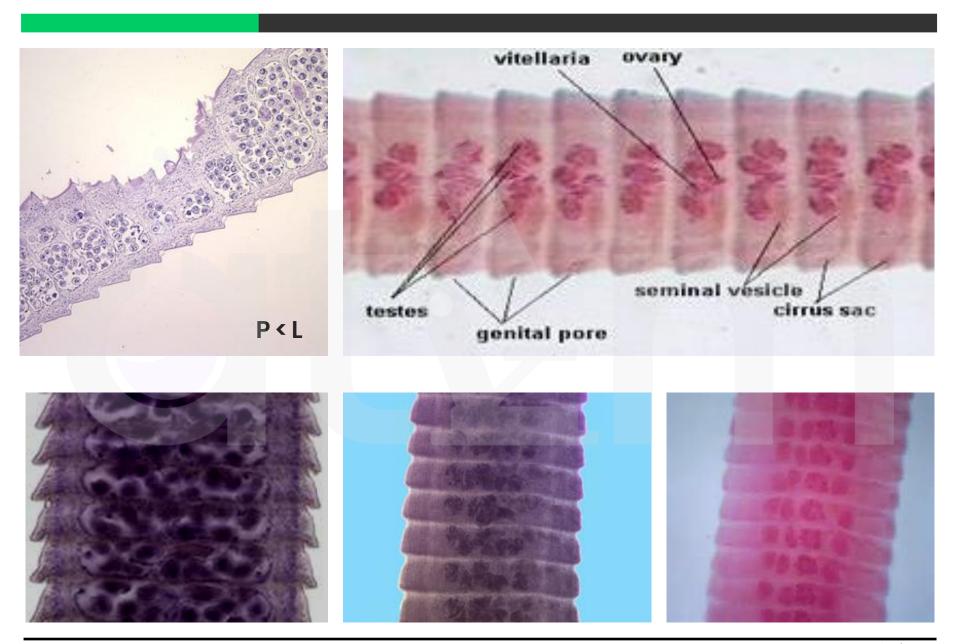


H. nana vs H. diminuta - Scolex



Rostellum

H. nana vs H. diminuta





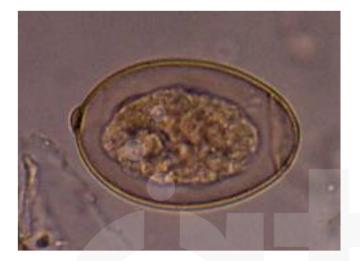
Diphyllobothrium latum

Diphyllobothrium latum

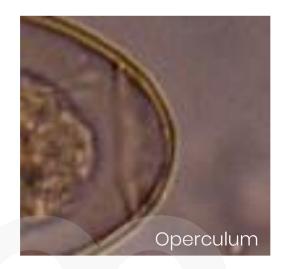
Taxonomy

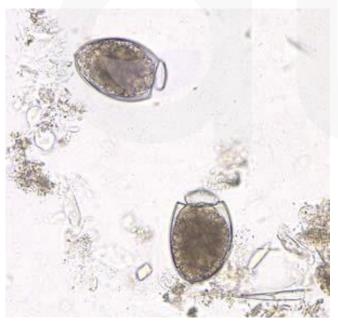
- Cestoidea
- Order Diphyllobothriidea Kuchta, Scholz, Brabec & Bray, 2008
- Family Diphyllobothriidae^T Lühe, 1910
- Genus Diphyllobothrium^T Cobbold, 1858
- Diphyllobothrium latum (Linnaeus, 1758)

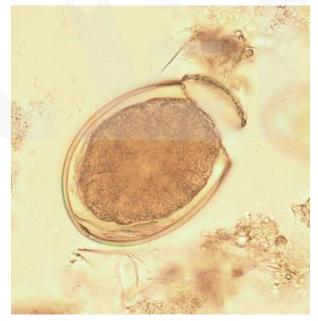
Telur D. latum





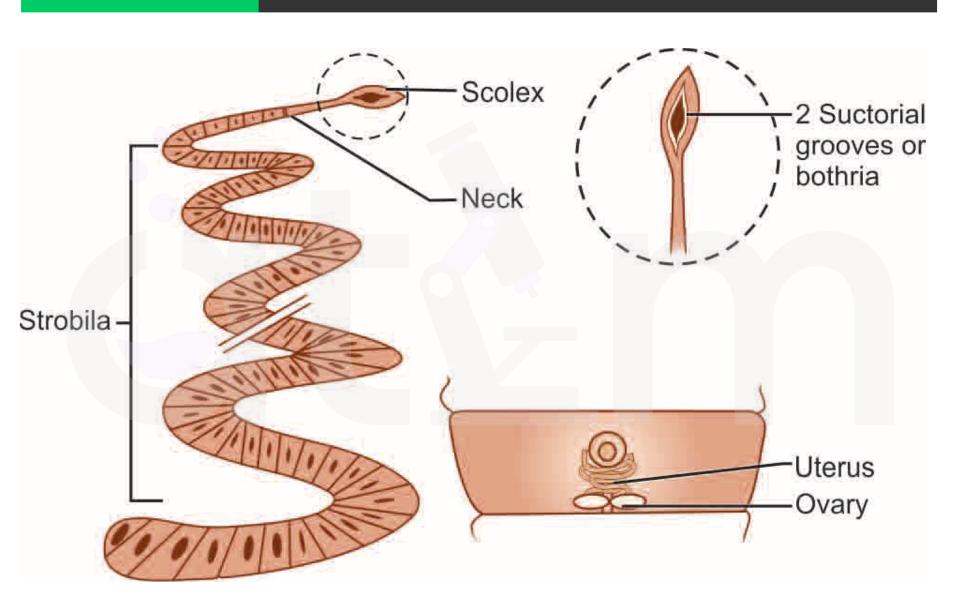




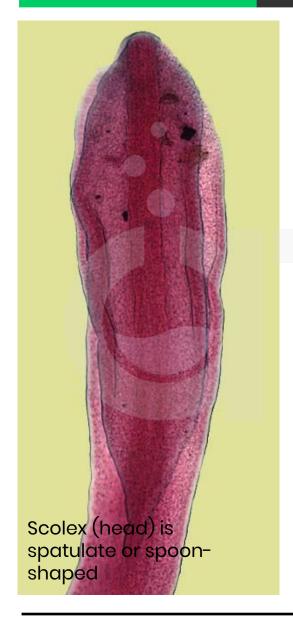




Diphyllobothrium latum



D. latum - Scolex & Proglottid











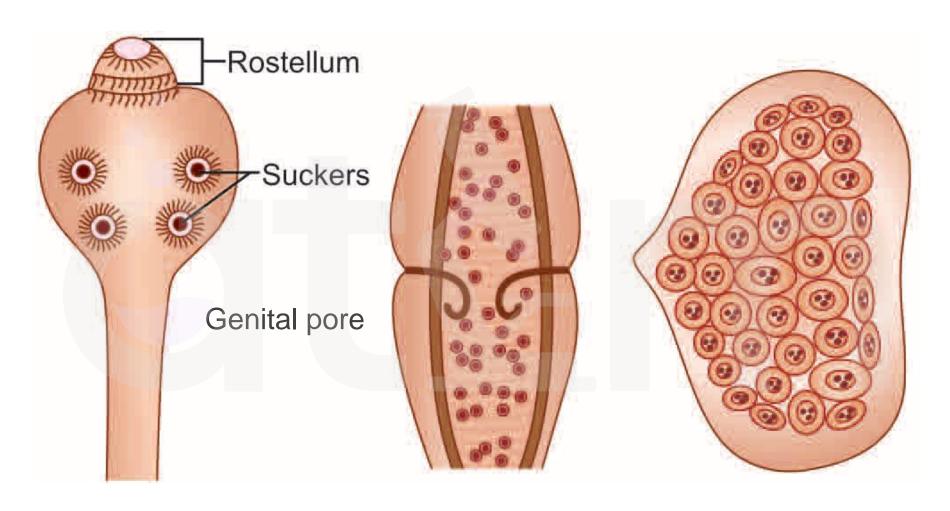
Dipylidium Caninum

Dipylidium caninum

Taxonomy

- Cestoidea
- Order Cyclophyllidea Lankester, 1877, sedis mutabilis
- Family Dipylidiidae Railliet, 1896
- Genus Dipylidium^T Leuckart, 1863
- Dipylidium caninum (Linnaeus, 1758)

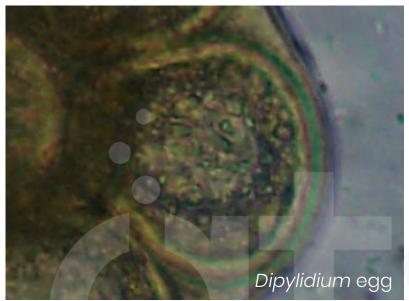
Dipylidium Caninum

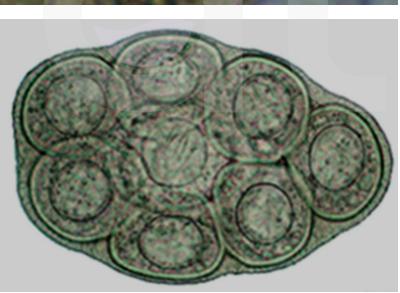


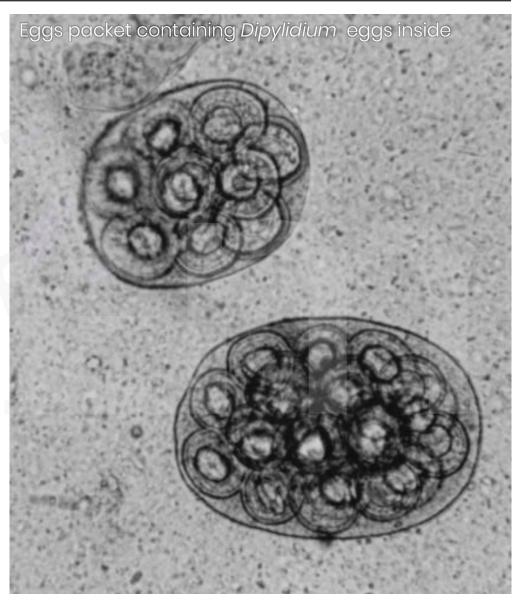
Mature proglottid

Egg

Dipylidium Caninum

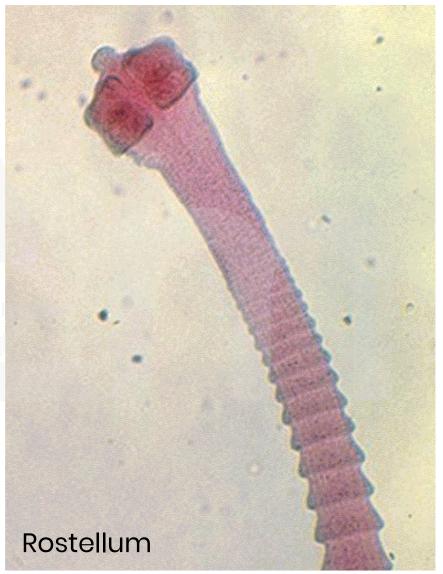




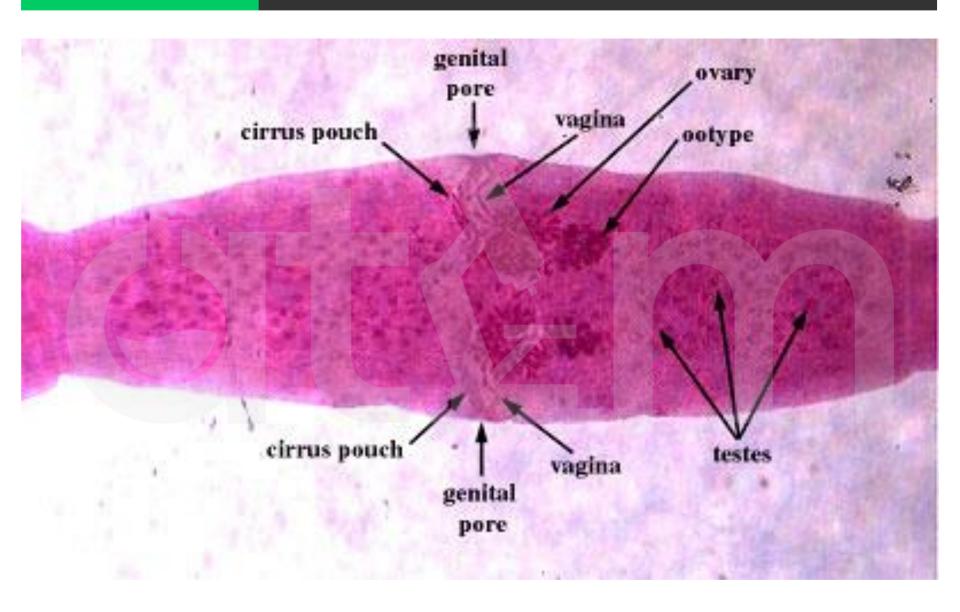


D. caninum - Scolex





Dipylidium Caninum





PERTEMUAN 6

H. nana, H. diminuta, T. saginata. T. solium, D. caninum dan D. Latum