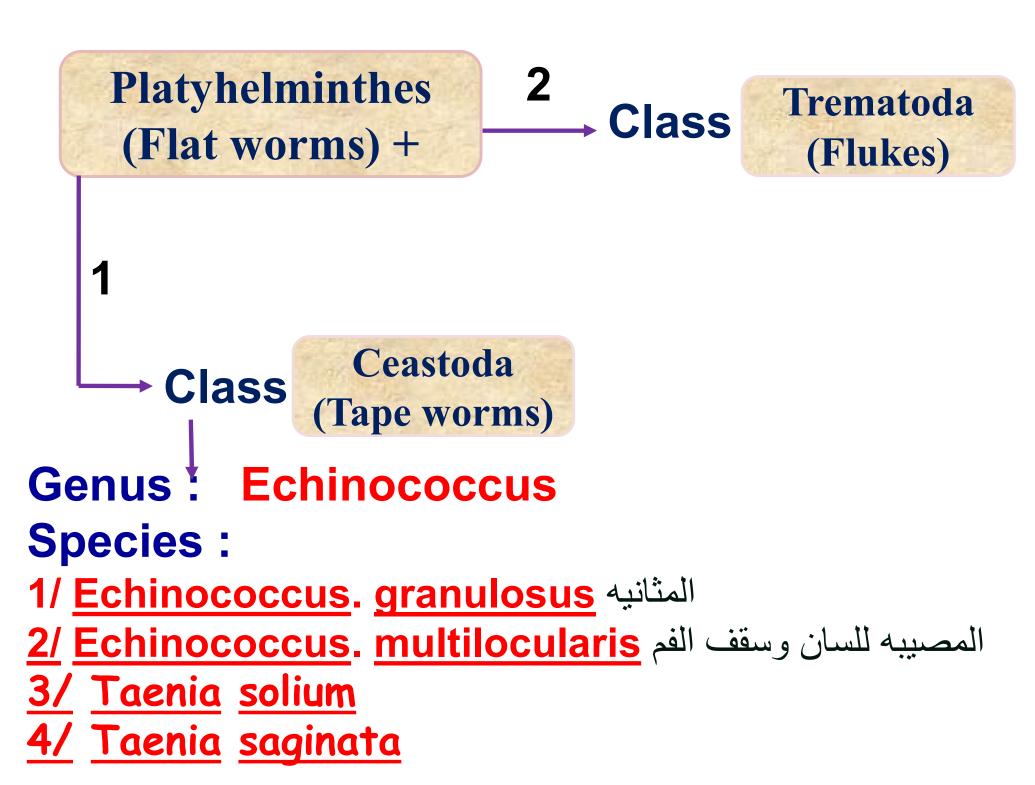
Al-Mustaqbal University college Department of pharmacy



PARASITOLOGY

Lab:5

Asst. Lec. Noor Muhsen



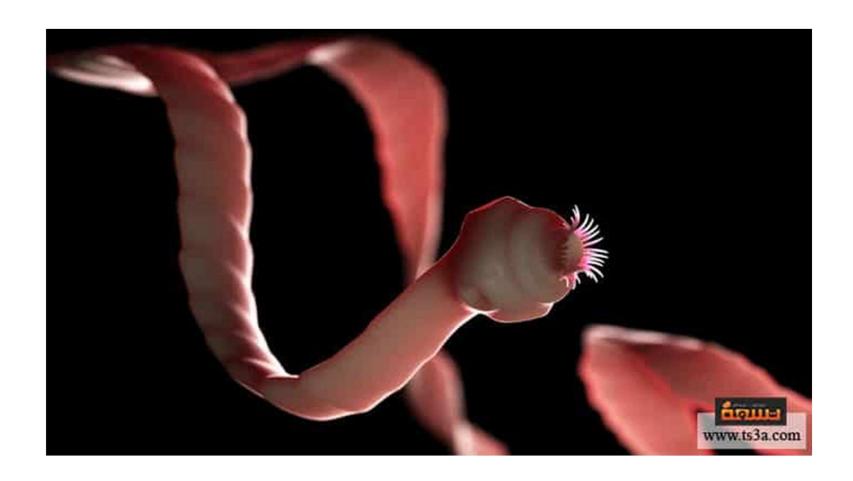
General Characters

- Tape shaped.
- Adult worm composed of:
 - a. Rounded scolex with appendages for attachment (e.g. Suckers ماصات or hooked کلاب or stella).
 - b. Neck (region of growth).
 - c. Strobillum (composed of 3- 4000 segments [proglottide]).
- Length varies between 3mm-10m.

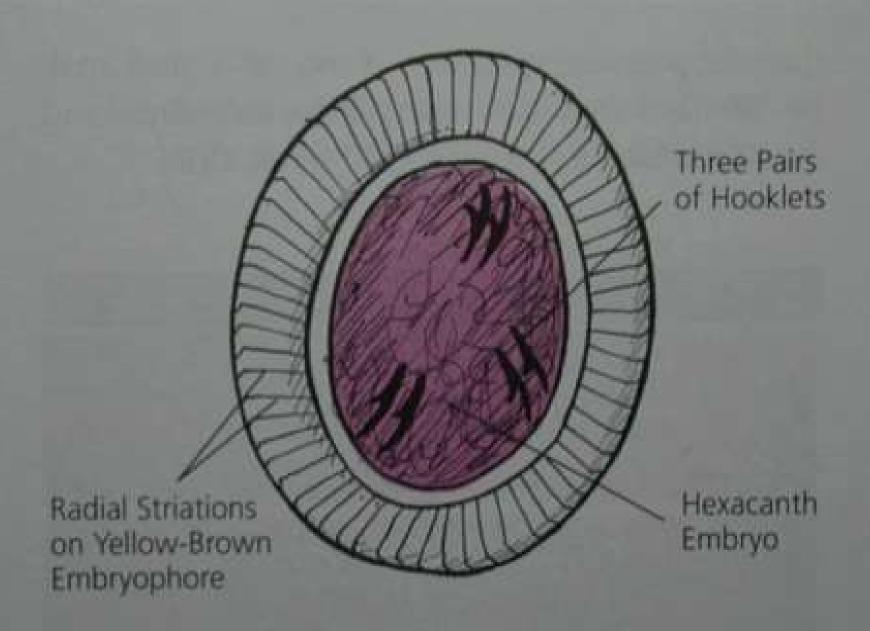








- All cestodes are hermaphrodite
 - (Each segment contains male & female reproductive system).
- No body cavity.
- No digestive tract.
- No vascular system.
- 1- Habitat:
 - a. Adult worms live in small intestine of their definitive hosts.
 - b. Larval stage found in intermediate hosts tissues.
- Eggs are diagnostic stage
 (Spherical, with shell embryonic membranes for embryo protection the embryo [onchosphere] carries 6 elongated hooks [hexacanth])



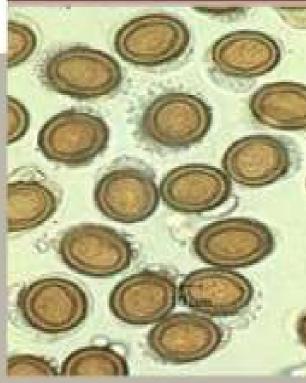
Size Range: 28 – 40 μm by 18 – 30 μm Average Length: 33 μm by 23 μm

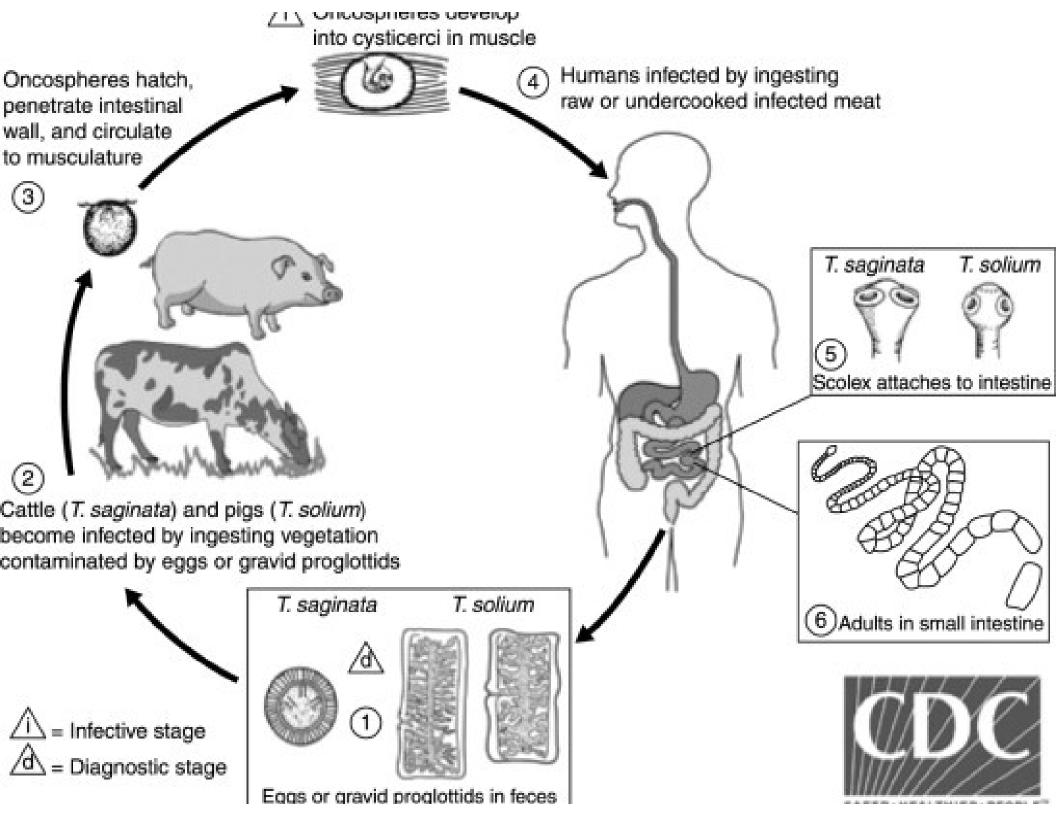
Egg

- The eggs of Taenia saginata and T. solium are indistinguishable morphologically.
- The eggs are spherical, diameter
- 31 to 43 µm, with a thick radially striated brown embryophore.
- Inside each is an oncosphere with 6 hooklets.









Taenia solium & Taenia saginata

	Taenia solium	Taenia saginata		
Disease:	TaeniasisCysticercosis	 Taeniasis 		
Habitat:	•Adult: Small intestine of man	•Adult: Small intestine of man		
	 Larva: As cysticercus in pigs muscles or in human tissues. 	 Larva: As cysticercus in beef muscles. 		

	Taenia solium	Taenia saginata	
Definitive host:	Human		
Intermediate host:	Pigs	Cattle, sheep & various herbivores	

	-	Taenia solium		Taenia saginata
Diagnostic	In case of Taeniasis:			
stage:	*	* Eggs and active gravid segments in stool.		
		Eggs		Gravid Segments
		• Spherical		*Appears • in stool
		• Hexacanth		• perianal regions
		embryo		 underclothing
		• Radially striated		*Disintegrate to realase egg
		embryophore		