

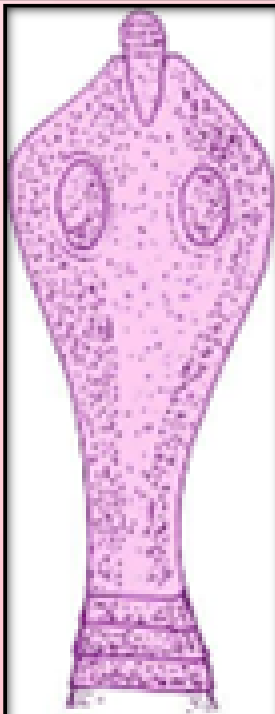
**Lecture  
On  
Genus – Dipylidium**

**Delivered by  
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## *Dipylidium caninum*

<b>Definitive host</b>	Dog, cat & rarely man
<b>Intermediate host</b>	<b>Dog flea:</b> ( <i>Ctenocephalides canis</i> , <i>C. felis</i> ) <b>Dog lice:</b> ( <i>Trichodectes canis</i> )
<b>Location</b>	Small intestine
<b>Metacestode stage</b>	Cysticercoid
<b>Common name</b>	Double pored dog tapeworm

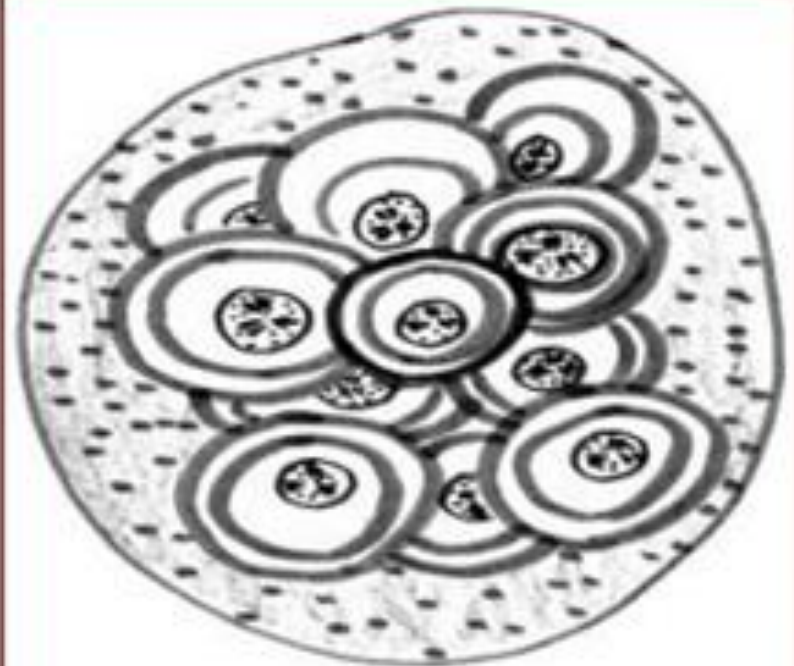
# MORPHOLOGY



*Scolex*



*Mature Segments*



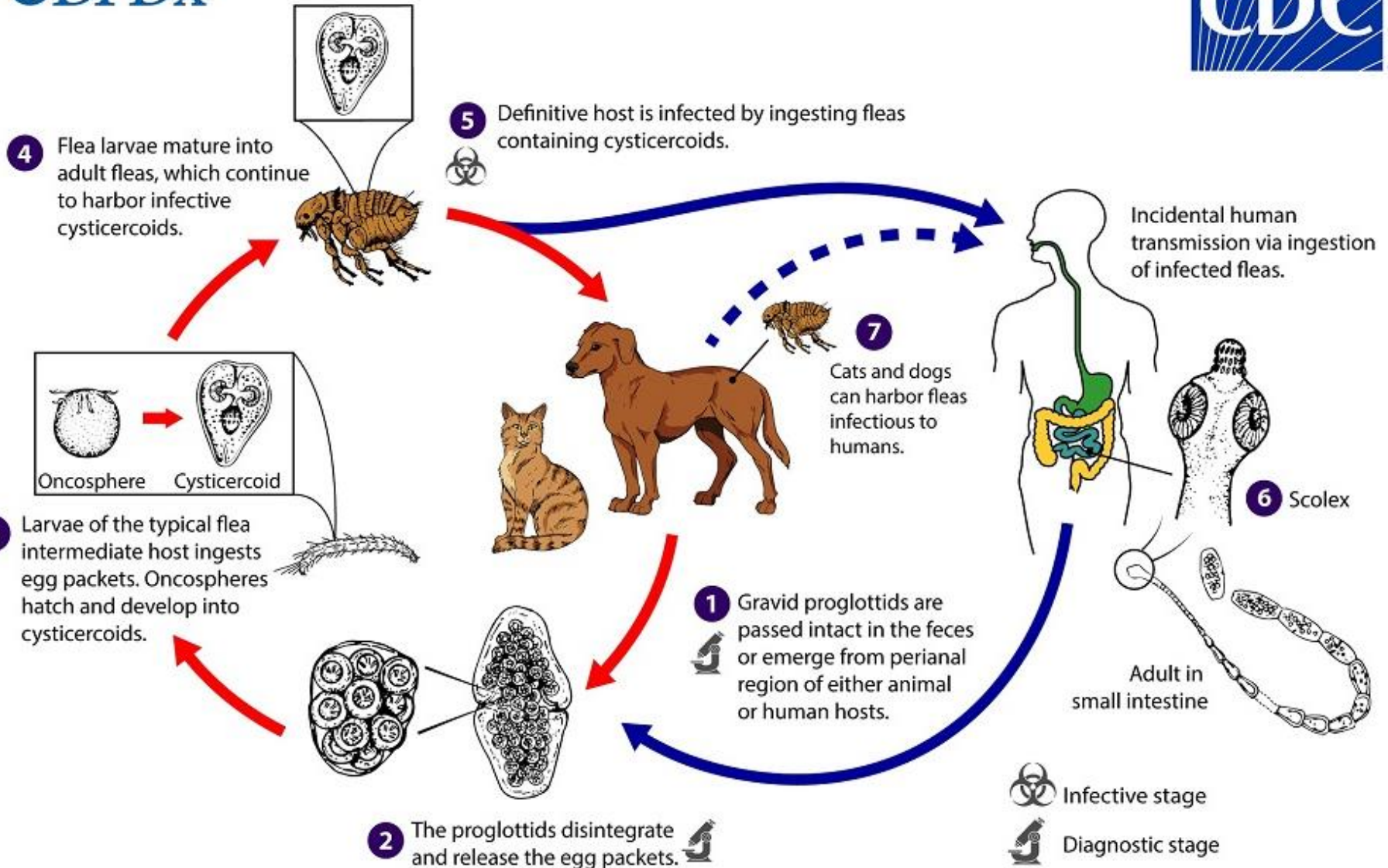
*Egg Packets*

- They are 15-50 cm in length.
- Scolex has a rostellum which is armed with 3-4 rows of **rose thorn shaped hooks**.
- Each segment contains two sets of genital organ.
- Vitelline glands and ovary form a mass on either side resembling a **bunch of grapes**.
- In the gravid segment uterus are replaced by egg capsule or egg packets.
- Egg packets contain 30 eggs per packet. Gravid segments are elongate and oval in shape resembling **cucumber seed shape**.

# LIFE CYCLE

4DPDx

*Dipylidium caninum*



## PATHOGENESIS

- It depends upon the age of host. Adult worms are not pathogenic to dog but heavy infection causes abdominal pain, unthriftiness, diarrhoea or constipation and rarely intestinal obstruction may occur.
- When gravid segment leave the intestines they cause severe irritation around the perianal area and due to constant irritation the dog will **drag its anus over the ground**. This condition is known as “**anal pruritus**”.

## DIAGNOSIS

- Demonstration of egg packets in faeces.
- Macroscopic examination of faeces for gravid segment.



## TREATMENT

- Arecoline hydrobromide - 1 to 2 mg/Kg b wt.
- Praziquantel – 5 mg/Kg b wt.
- Niclosamide – 100 to 150 mg/Kg b wt.
- Mebendazole – 100 to 200 mg/Kg b wt. Twice daily fo 5 days.
- Bithionol – 200 mg/Kg b wt.



## CONTROL

- Treatment of infected animals and man with good anticestodal drug.
- Control of fleas & lice using one effective insecticide like amitraz or deltamethrin.
- Larvae of fleas & lice present on ground, carpet and bedding materials should be killed by spraying insecticide.

