



## Department of biology



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(( علم الطفيليات ))

Stage two

المحاضرة الثامنة

By

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محاضره 8 طفيليات / مرحلة ثانيه / قسم علوم الحياة / الأستاذ الدكتور خيرى  
عبدالله

الجداء أو الدوده الوحيدة أو دودة البقر الشريطية

**Taenia saginata ( Beef tape worm )**

**Parasite infect human and cattle ( Zoonotic Parasite ).**

طفيلي مشترك بين الانسان والحيوان

**General characterizations :**

**1 – Human is final host of this parasite while cattle is the intermediate host .**

**2 – Infection to human occur by eating raw or under-cooked meat .**

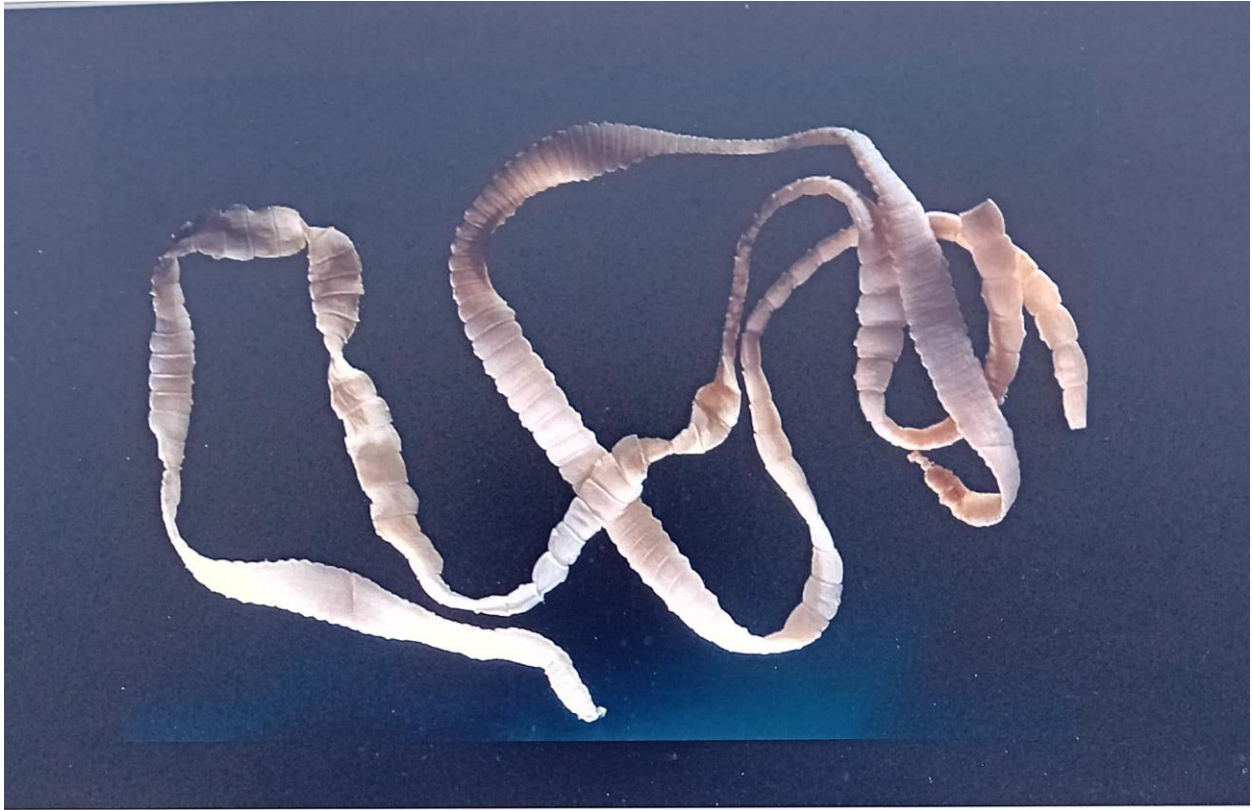
**3 – Disease called Taeniasis \ human infected with adult tape worm ( *Taenia saginata* ) .**

**4 – Scolex have 4 suckers but without rostellum and without hooks .**

**5 – Length of this parasite 2.5 m and can be reached 25 m .**

**6 – Adult worm attached to the wall of small intestine of human .**

**7 – Body of this worm composed proglottids ( 1000 – 2000) , these proglottids are Immature , mature and gravid segments .**

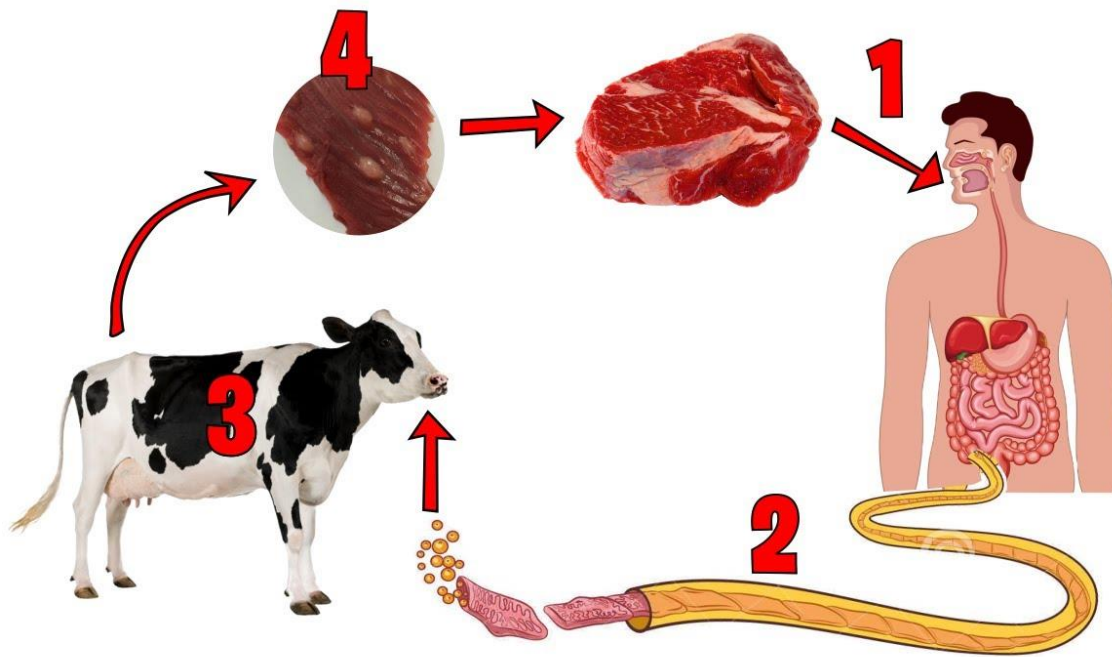


### **Life Cycle :**

**1 – Gravid segments detached , migrate to the anus and passed with stool ( about 6 segments per day ) , each proglottis may produce up to 100 000 eggs .**

**2 – These eggs transmitted to animals with contaminated grass ( can be survive for days or months ) .**

3 – Cattle are ingested the eggs or gravid proglottis with vegetables , eggs hatched in small intestine of cattle to Oncospher which is migrate to skeletal and cardiac muscles , where developed to Cysticercus bovis ( 5 – 8 mm), ( Bladder worm)



**Life Cycle of *Taenia saginata* :**



**Heart muscle infected with *Cysticercus bovis***

**4 – Human infected by eating raw or undercooked beef meat . *Cysicercus bovis* which developed within 2 months to adult tape worm , this worm can stay survive for years in small intestine .**

**Note : *Taenia saginata* eggs do not cause Cysticercosis in human muscles .**

**5 – Adult tape worm attached to the wall of small intestine by its scolex .**

**Diagnosis : Microscopically noticed eggs in stool.**

**Treatment: Praziquantal or Niclosamide**



**Prevention :**



**Cooking whole beef meat not less than 65 c .**