

Toxoplasmosis (داء القطط)

Outlines

- What is the toxoplasmosis?
- What is the causal effect ?
- Life cycle
- Rout of transmission
- Symptoms
- Diagnosis and treatment

TOXOPLASMOSIS

Mewwww

Come!
Eat me



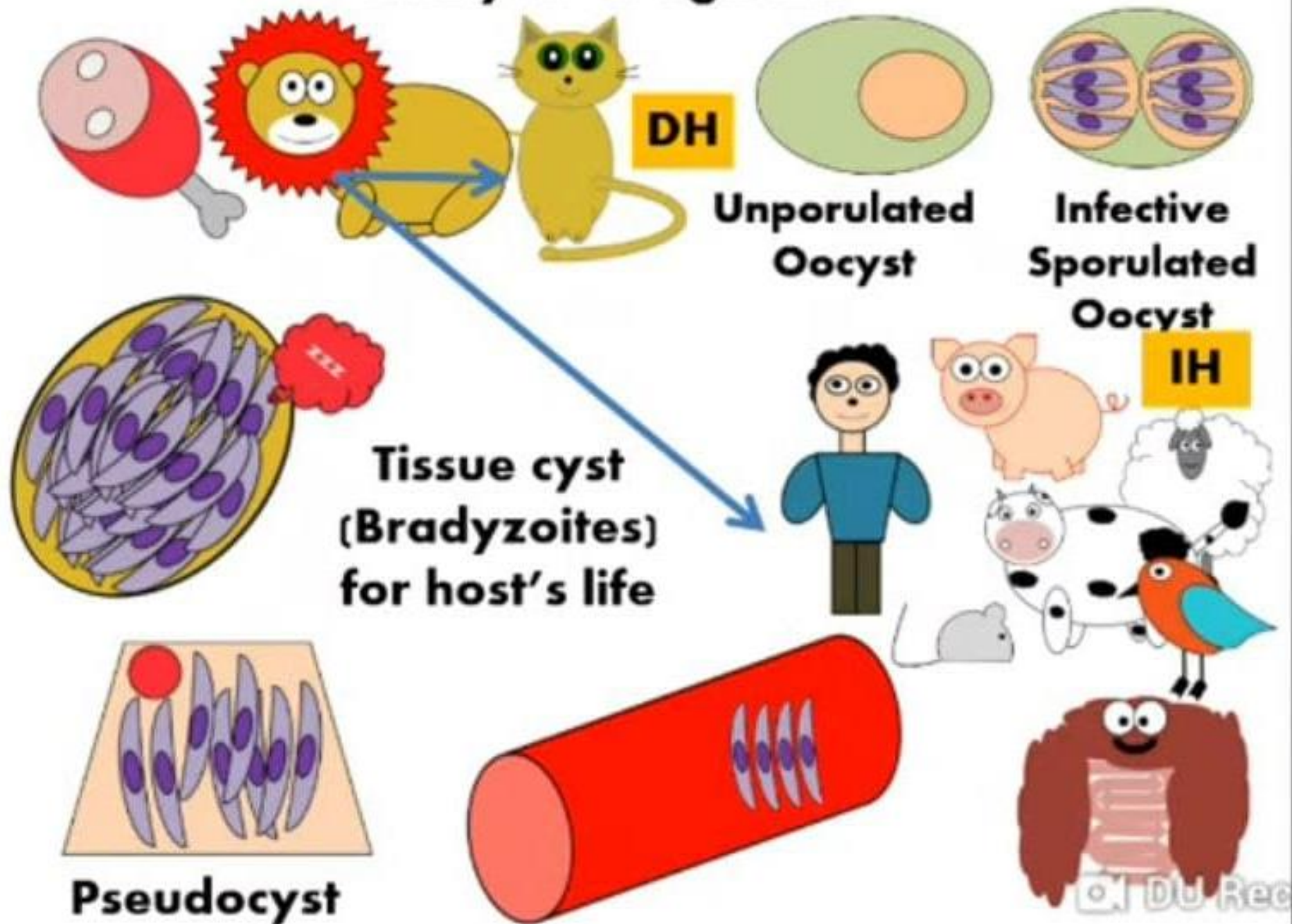
Toxoplasmosis

- Is a parasitic disease caused by *Toxoplasma gondii*.
- In the United States it is estimated that 11% of the population have been infected with Toxoplasma. In various places throughout the world, it has been shown that more than 60% of some populations have been infected with Toxoplasma.

Toxoplasma gondii

- is an obligate intracellular parasite
- is capable of infecting virtually all warm-blooded animals.
- It is a cosmopolitan organism found in all human communities.
- The most important infection in human are those occurring in the developing fetus and the immunocompromised patient.

Lifecycle of T.gondii



Mode of transmission

1- fecal oral routes

2- carnivorousness

3- transplacental transmission

Symptoms

- Clinical signs and symptoms in the new born child is : hydrocephalus , partial or complete blindness , sever mental retardation, cross eyed and hearing loss in one ear.
- in adult: flu- like syndrome (fever, headache, muscle and joint pain ache and skin rash)

Diagnosis

- 1- finding zoites in the tissue
- 2- observing clinical signs and symptoms
- 3- finding antibodies in the blood by serological test such as Dye test (sabin-feldman dye test).

Treatment

- Spiramycin an antibiotic used most often for pregnant women to prevent the infection of their children.
- Sulfadiazine an antibiotic used in combination with pyrimethamine to treat toxoplasmosis

Home work

- Why this parasite prefer warm and moist condition?

Reference

- J.P. Dubey et al., Biological and genetic characterisation of *Toxoplasma gondii* isolates from chickens (*Gallus domesticus*) from Sao Paulo, Brazil: unexpected findings. *Int. J. Parasitol.* 32, 99–105 (2002)
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Thank you
for
listening 😊



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