

Parasitic gastrointestinal infections

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Klinika infekčních chorob LF MU a FN Brno

Parasitic infection of GI tract

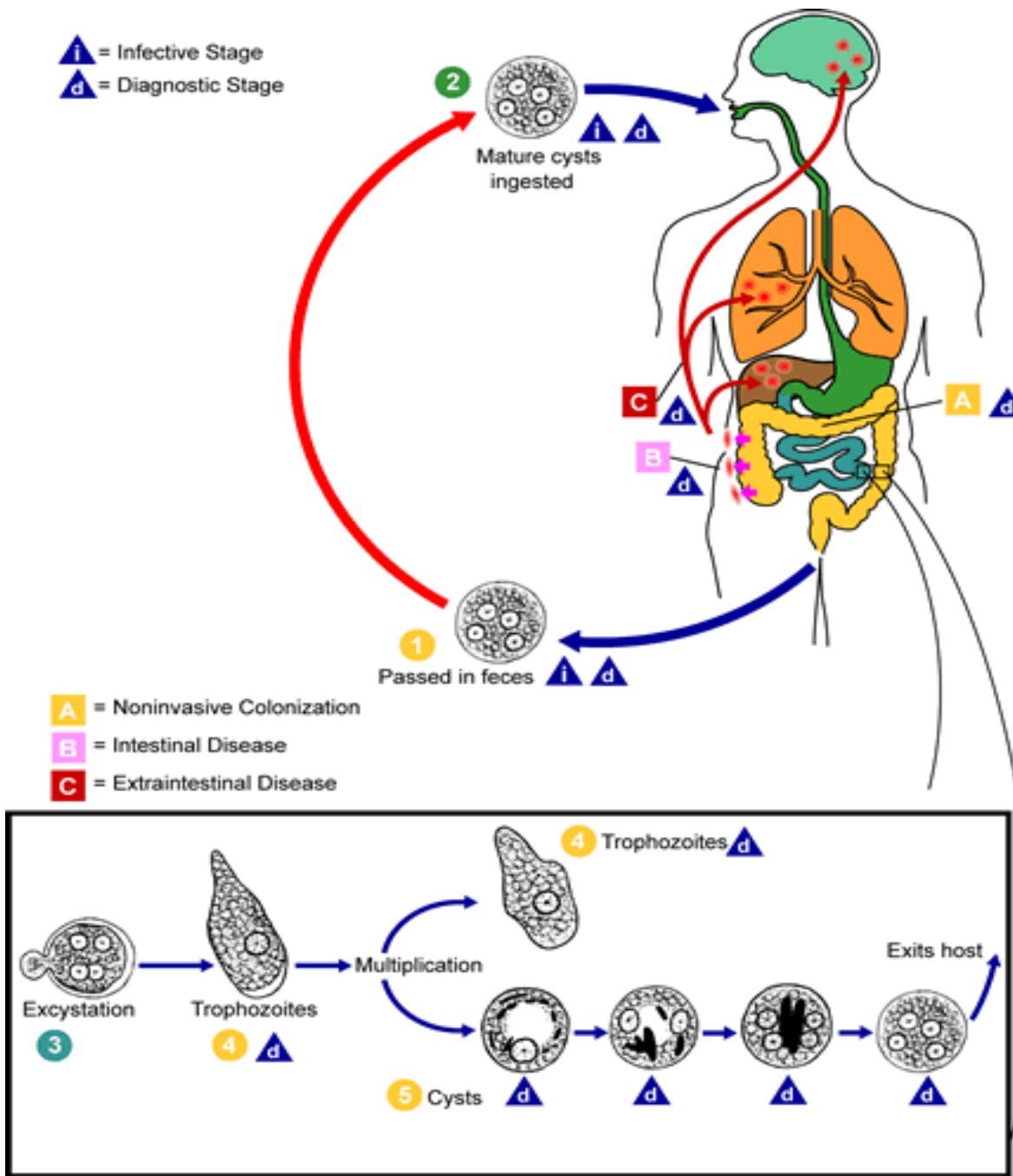
- protozoal
- helminthic
- fungal

Protozoal infections

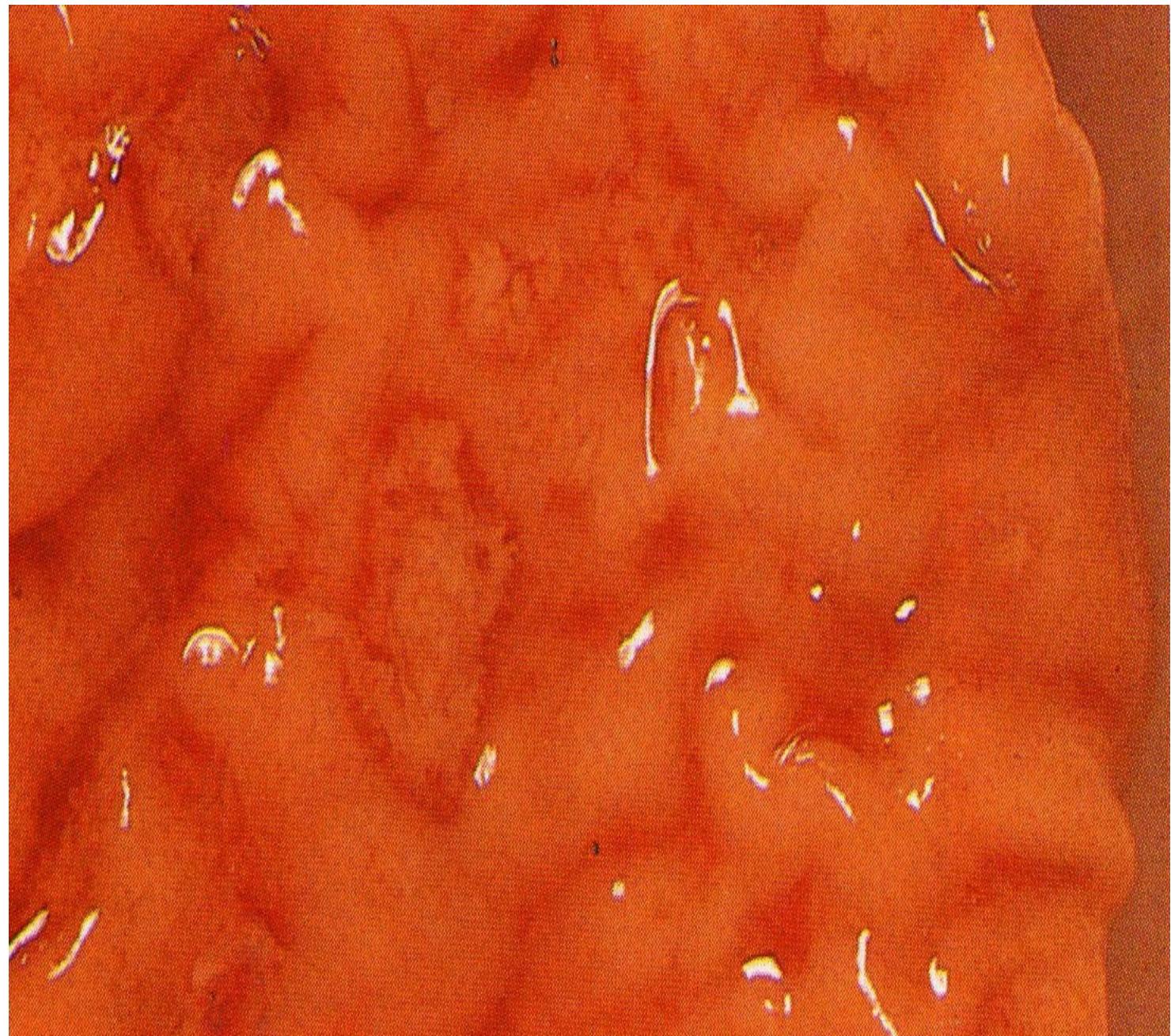
- Human
- Amebiasis (*Entamoeba histolytica*)
- Lambliasis = girardiasis (*L.*, *G. intestinalis*)
- Zoonotic
- cryptosporidiosis (*Cryptosporidium parvum*)
- isosporosis (*Isospora belli*)
- microsporidiosis (*Enterocytozoon bieneusi*)
- cyclosporiasis (*Cyclospora cayetanensis*)

Amebiasis

i = Infective Stage
d = Diagnostic Stage



Amebic colitis



Amebic
abscess



CT – day 0

Amebic
abscess



CT – drainage of 2 abscesses – day 2

Map 3

150dB/C3

Persist Med

Fr Rate Med

2D Opt:Gen

ATL

D X

+

5.76cm

+

+

△

US – day 0

Map 3
150dB/C3
Persist Med
Fr Rate Med
2D Opt:Gen



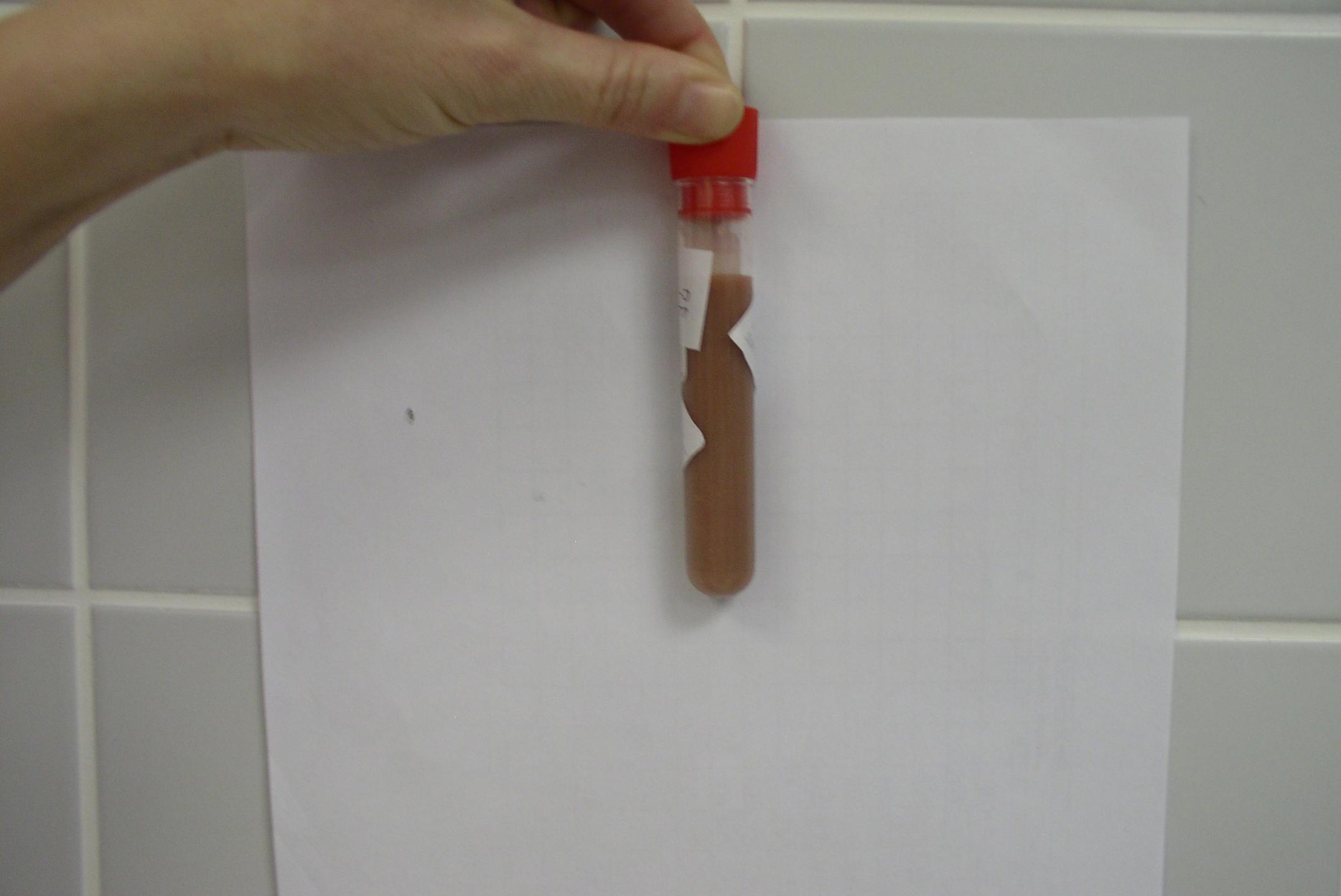


1900

1800

300

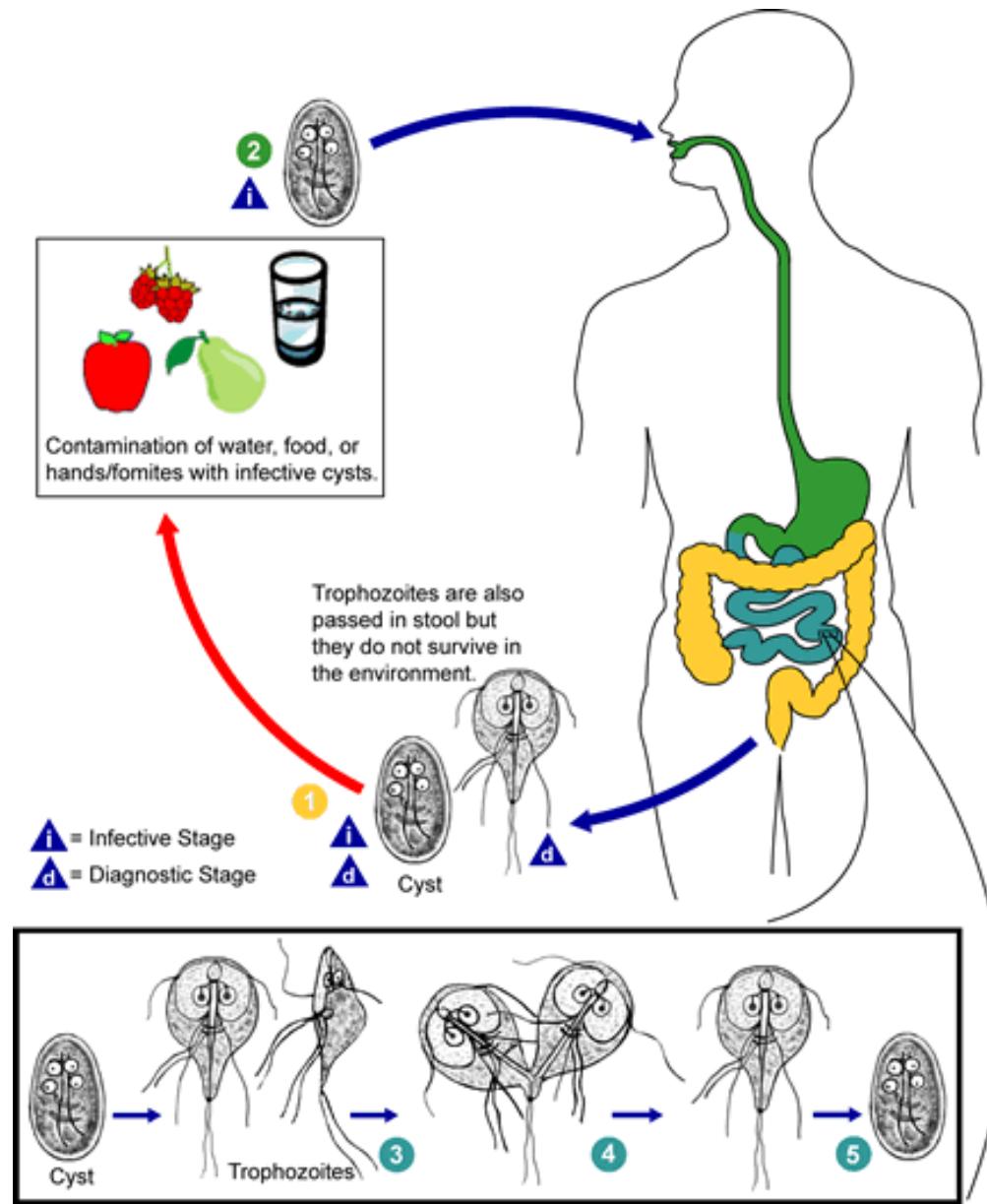
100
WATER



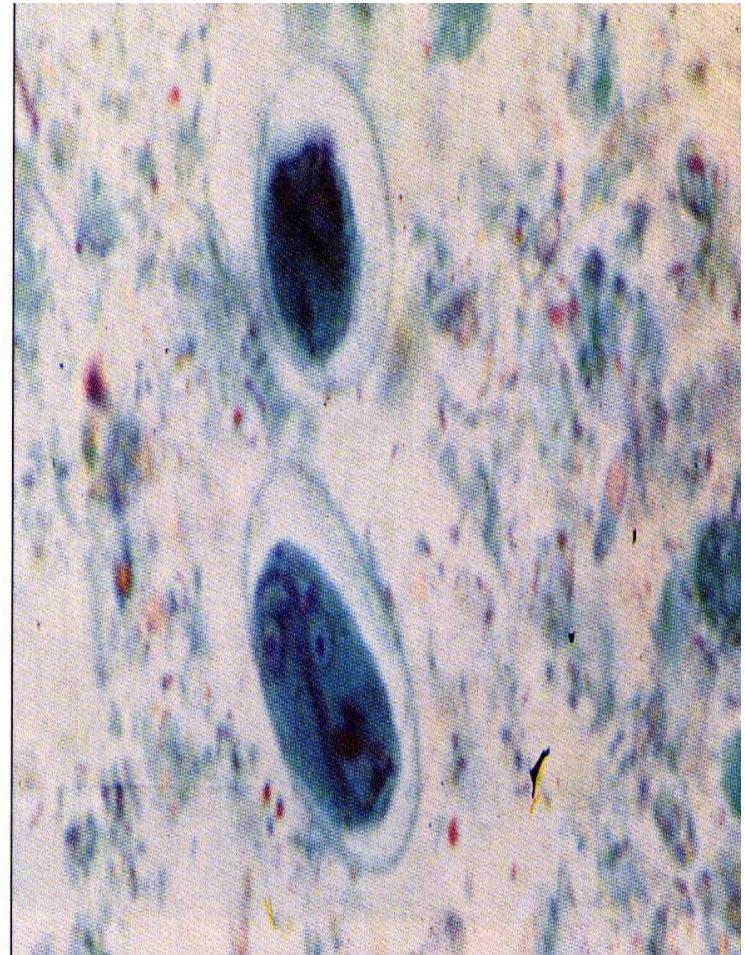
Amebic abscess –
transcutaneus punction



Lambliasis, girardiasis



Lambliasis microscopy



Lambliasis
scan



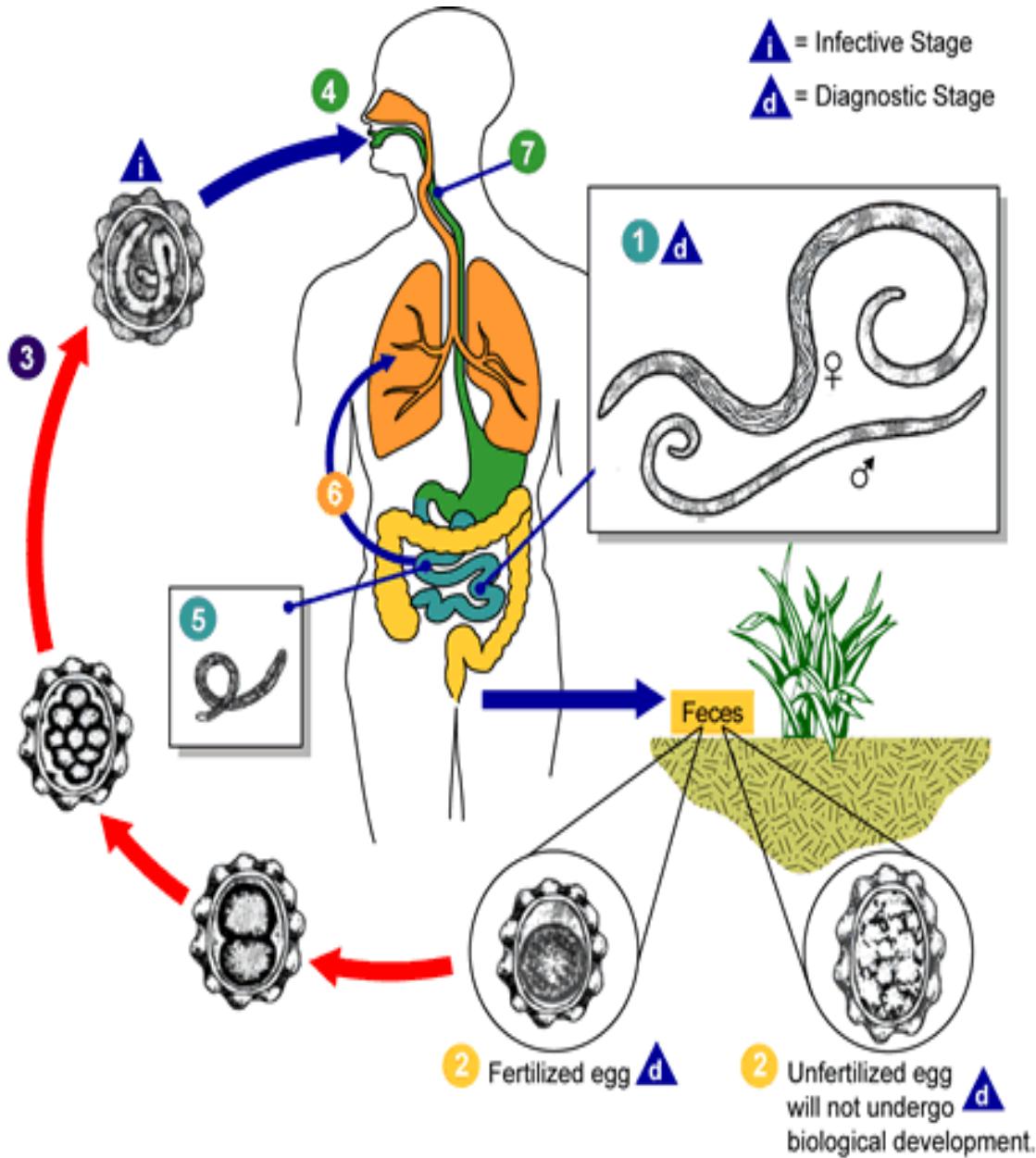
Helmintic GI infections

- Roundworms (**Nematodes**) - ascariasis, enterobiosis=oxyuriosis, trichuriosis
- Tapeworms (**Cestodes**) - teniosis, diphyllobothriosis, hymenolepsiosis, echinococcosis, alveococcosis
- Flukes (**Trematodes**) - schistosomosis

Roundworms (Nematodes)

- *Ascaris lumbricoides*
- *Enterobius, Oxyuris vermicularis*
- *Trichuris trichiura*

Ascariasis

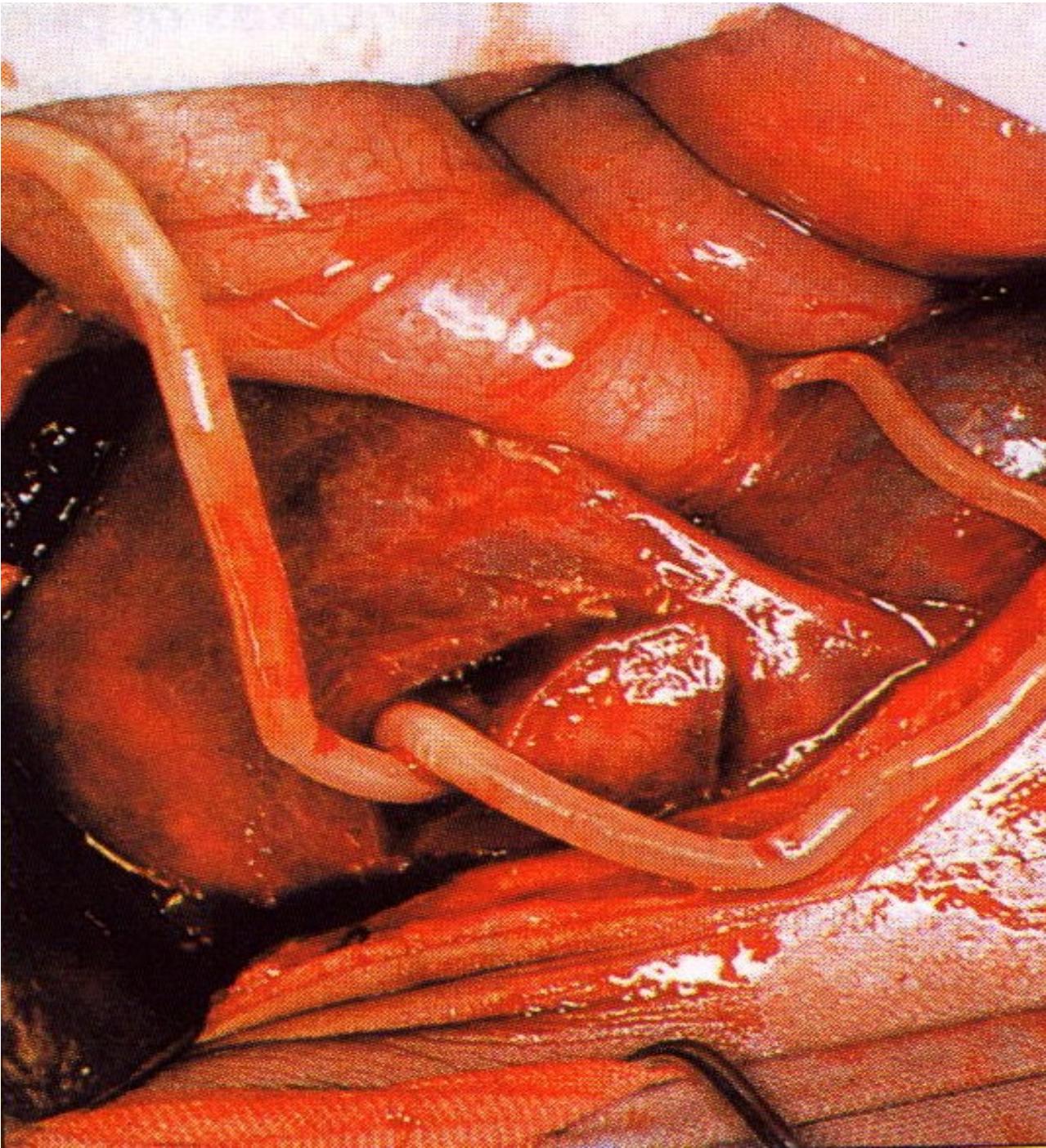


Ascaris lubricoides



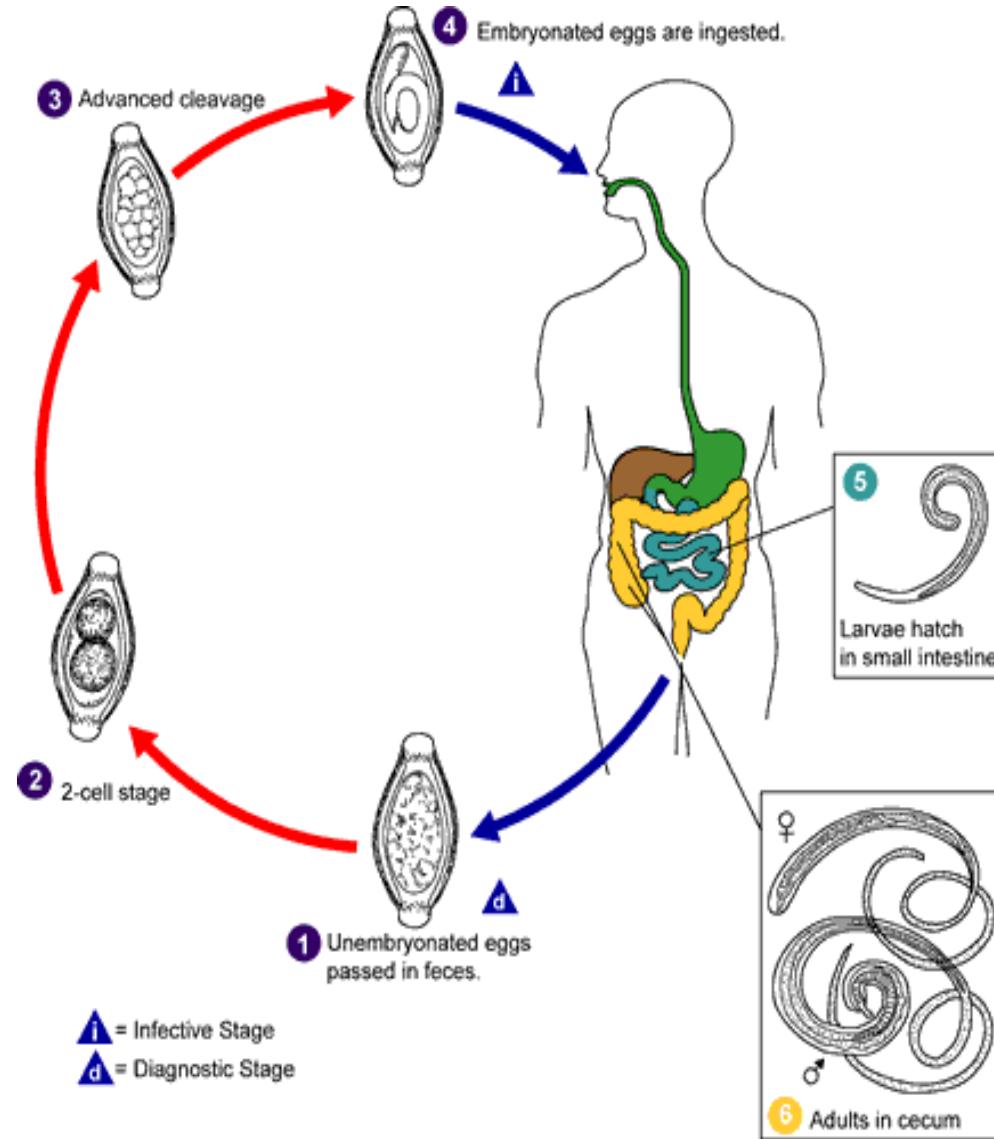
Differential diagnosis: earthworm
- reproductive band (hermaphrodite)
- round terminations



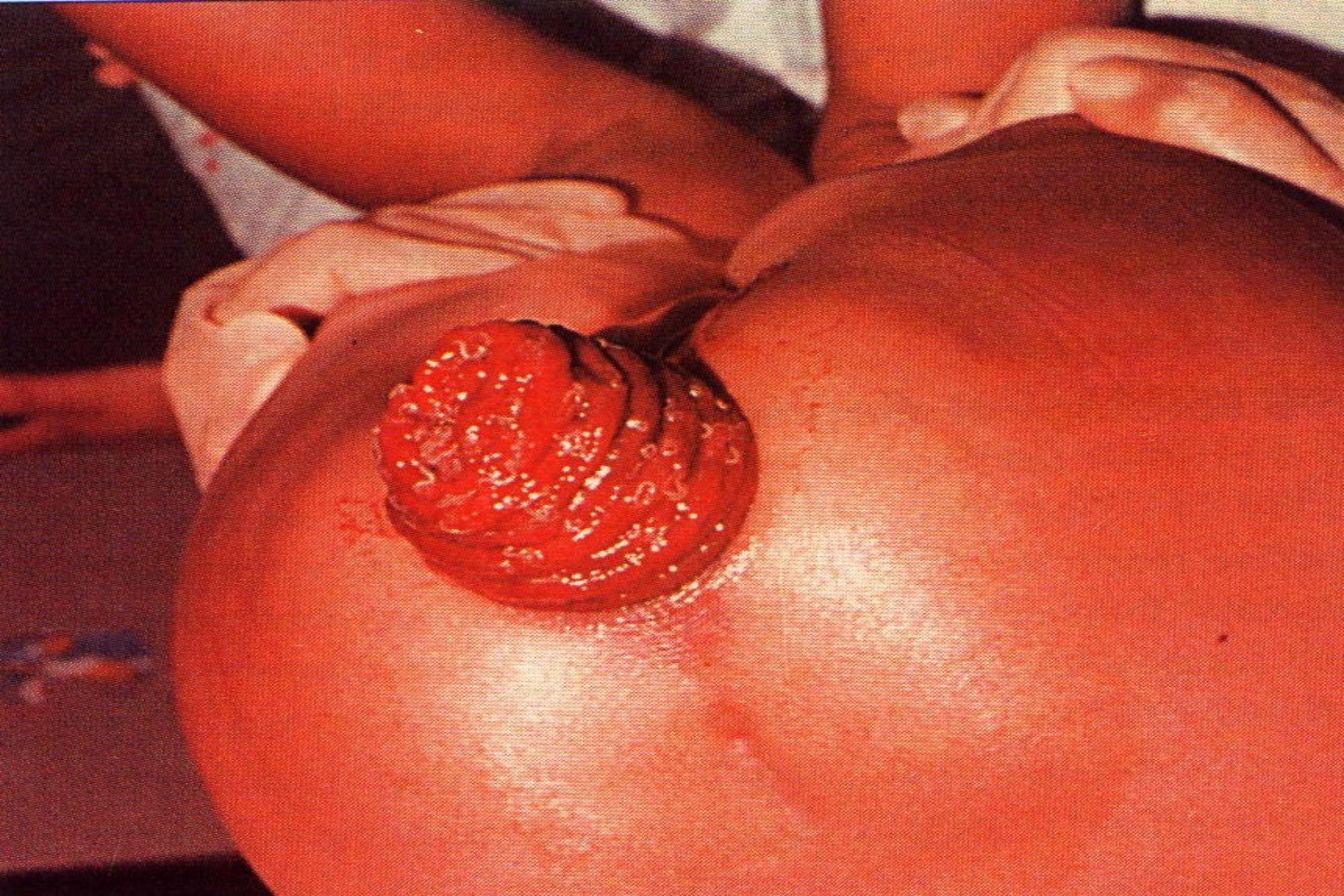




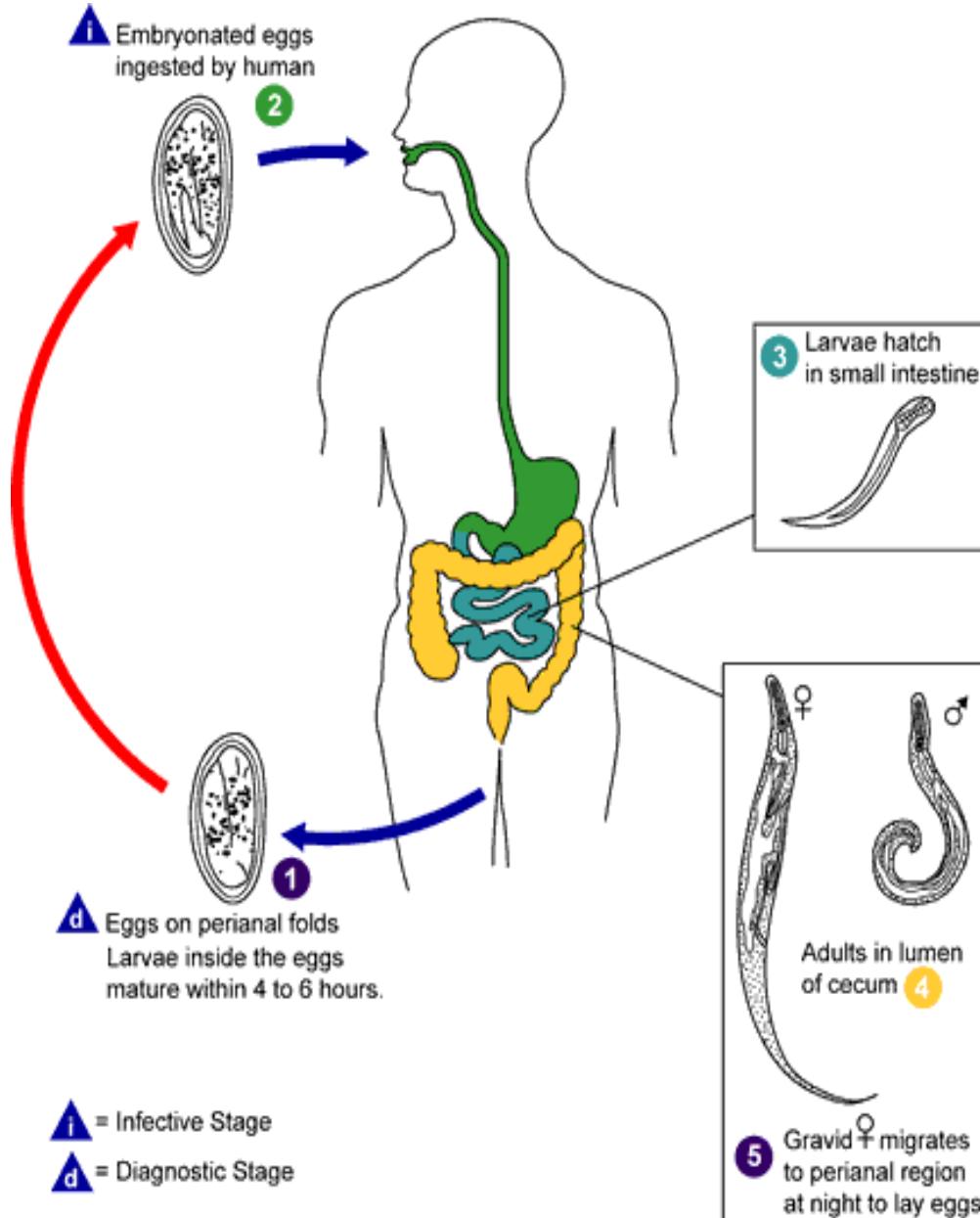
Trichuriosis



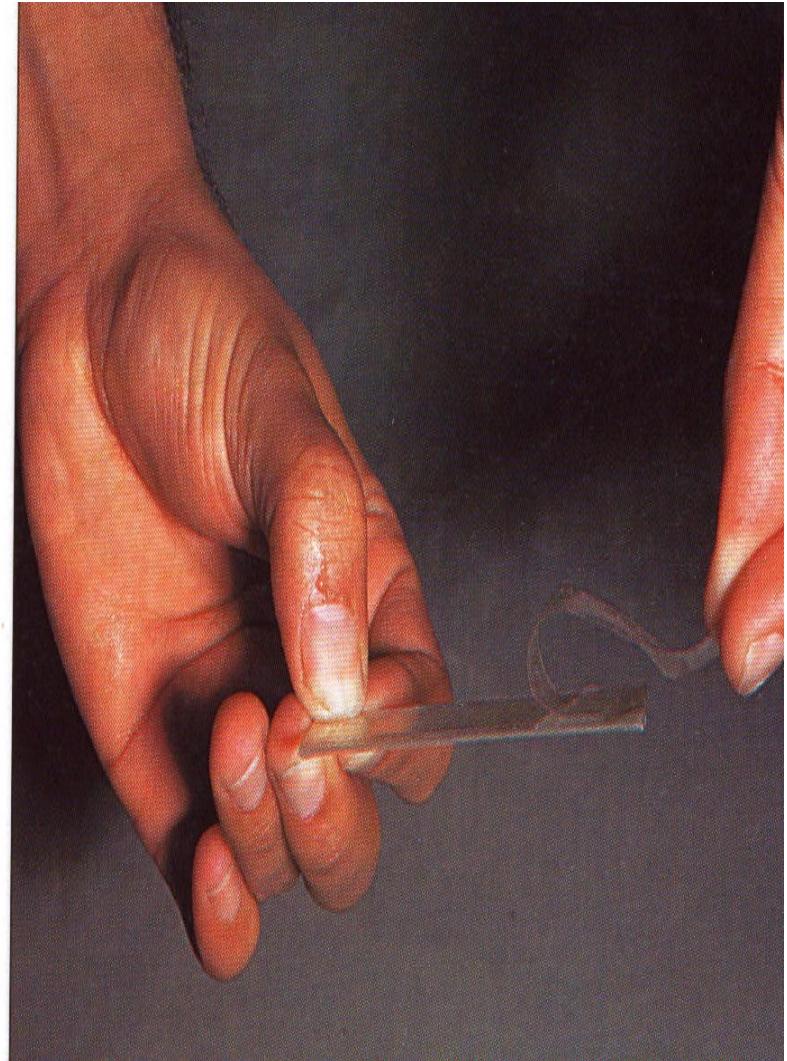
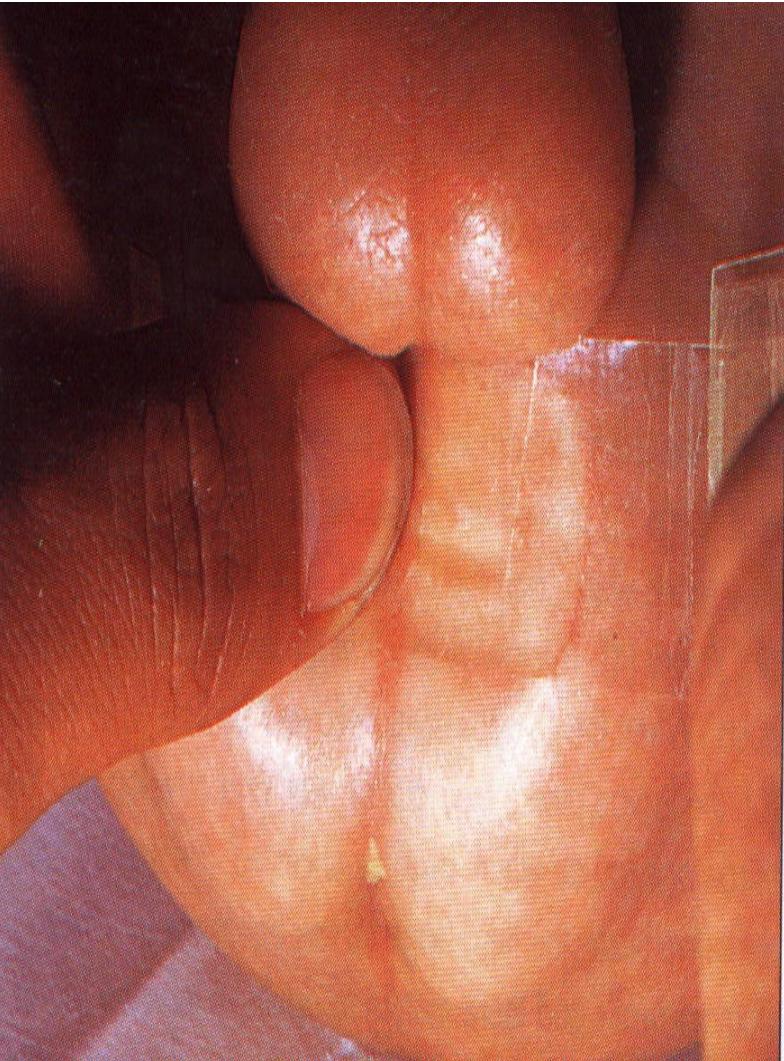




Enterobiosis, oxyurirosis

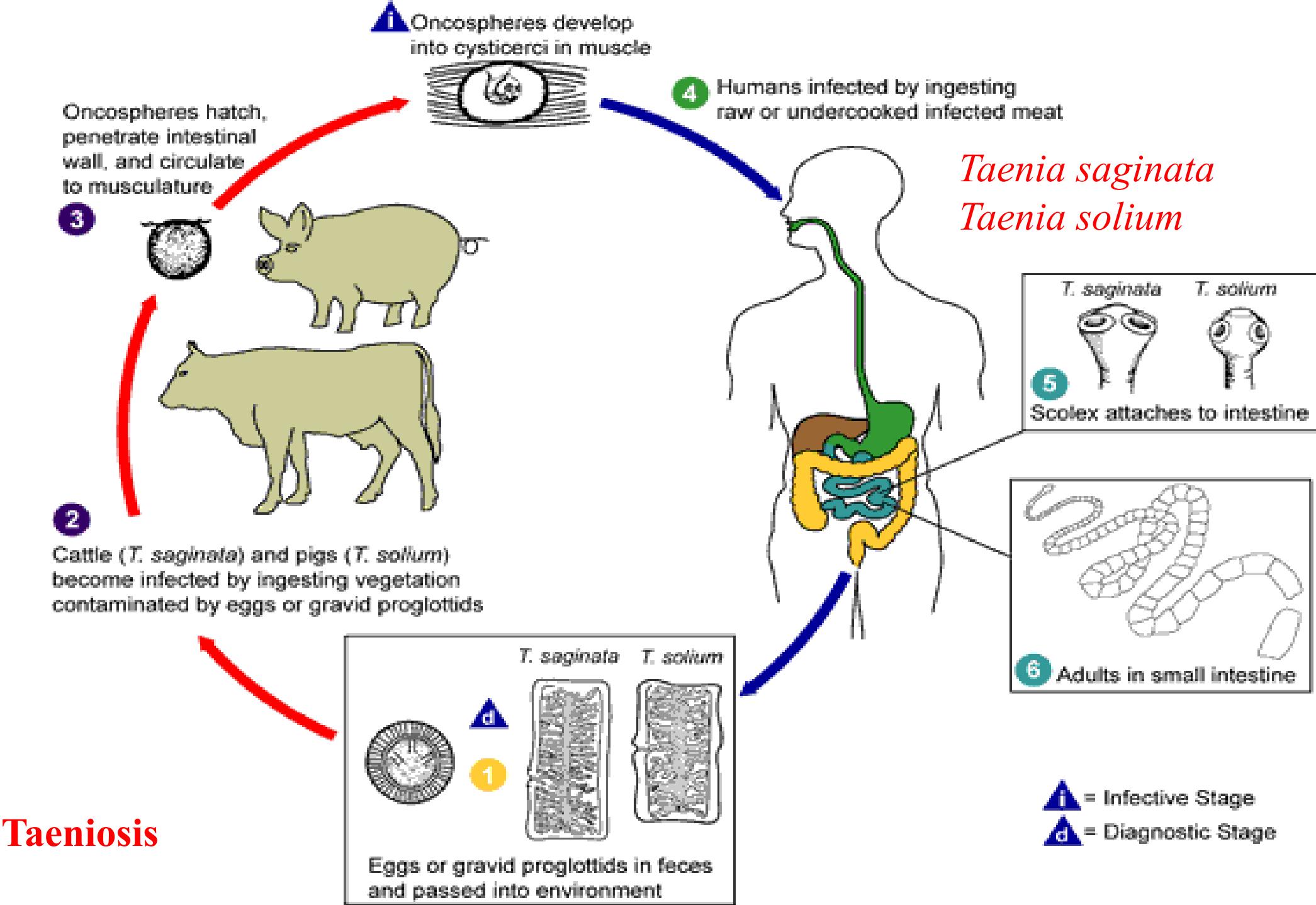


Enterobios oxyurirosis

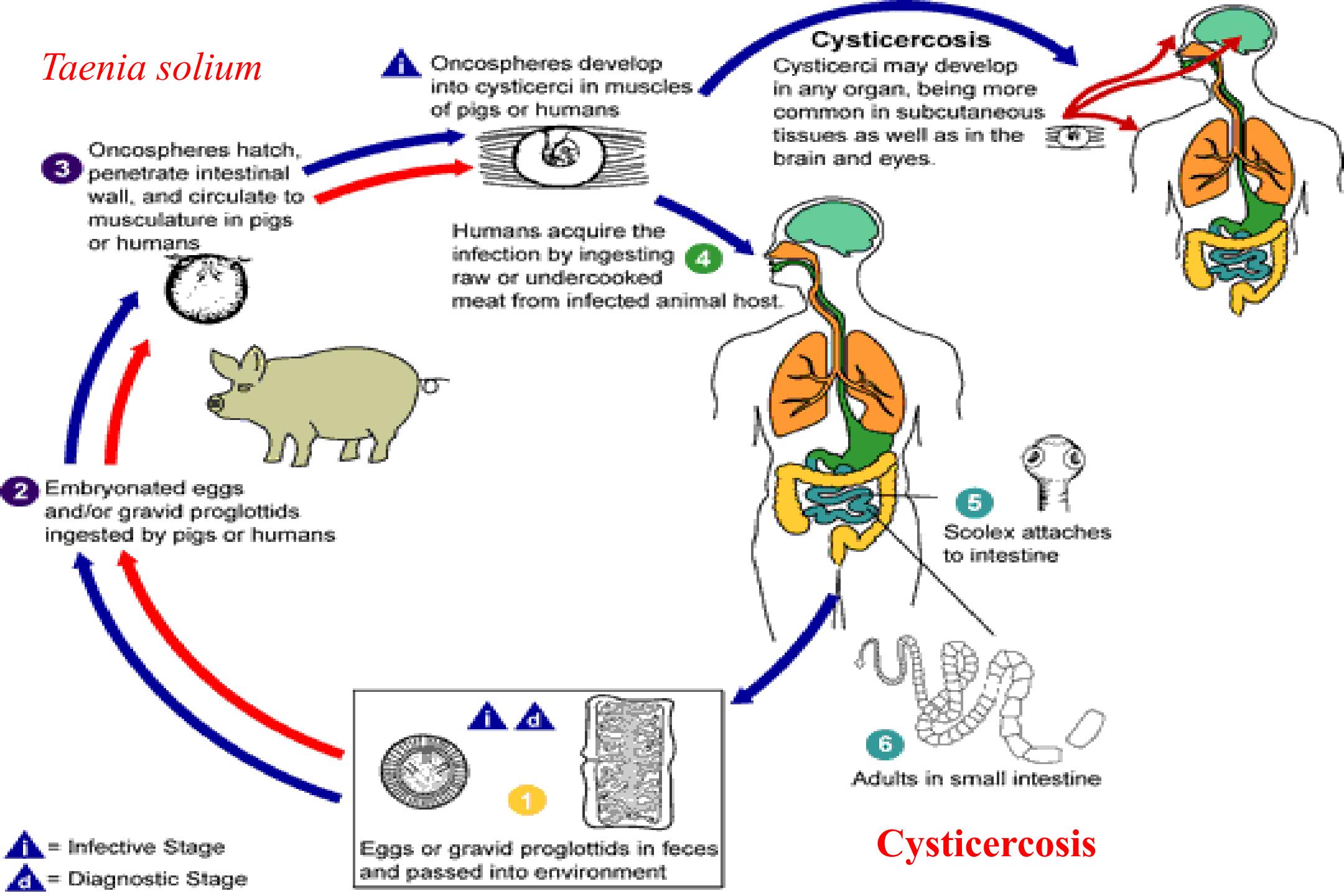


Tapeworms (Cestodes)

- Man as final host
- *Taenia saginata*
- *Taenia solium*
- *Diphyllobothrium latum, D. pacificum*
- *Hymenolepsis nana*
- Animal as final host
- *Echinococcus granulosus*
- *Echinococcus (Alveococcus) multilocularis*



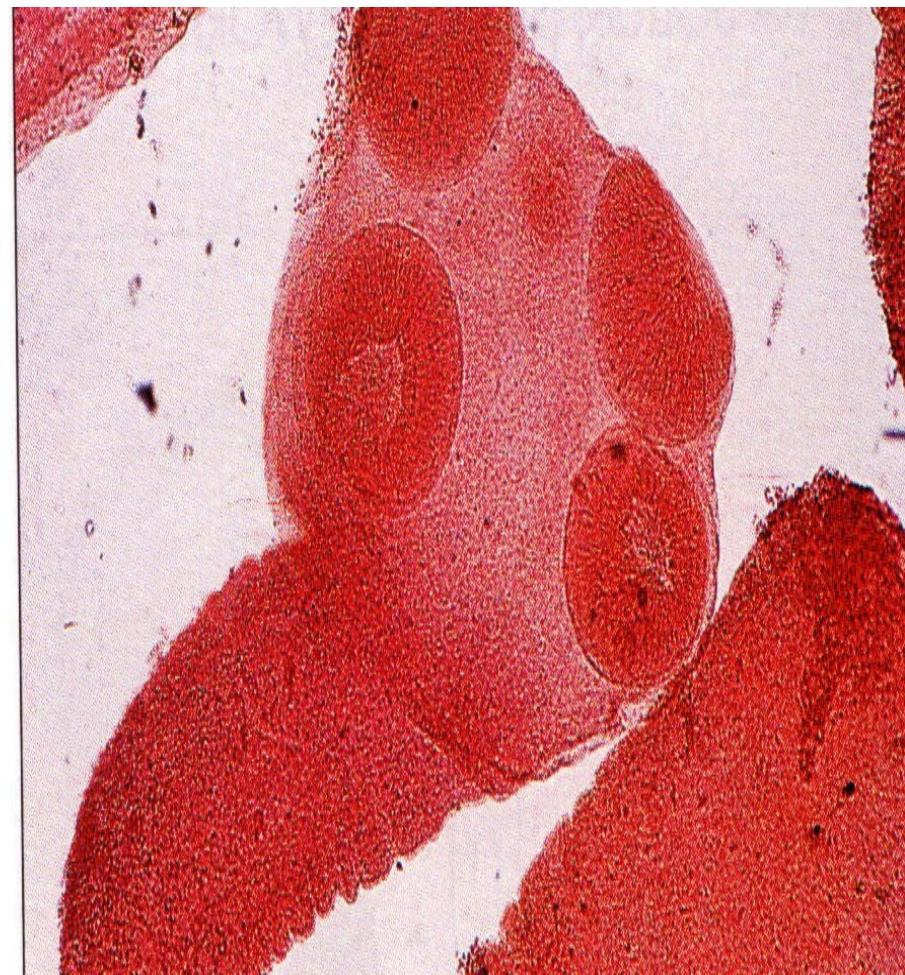
Taenia solium



Taenia solium



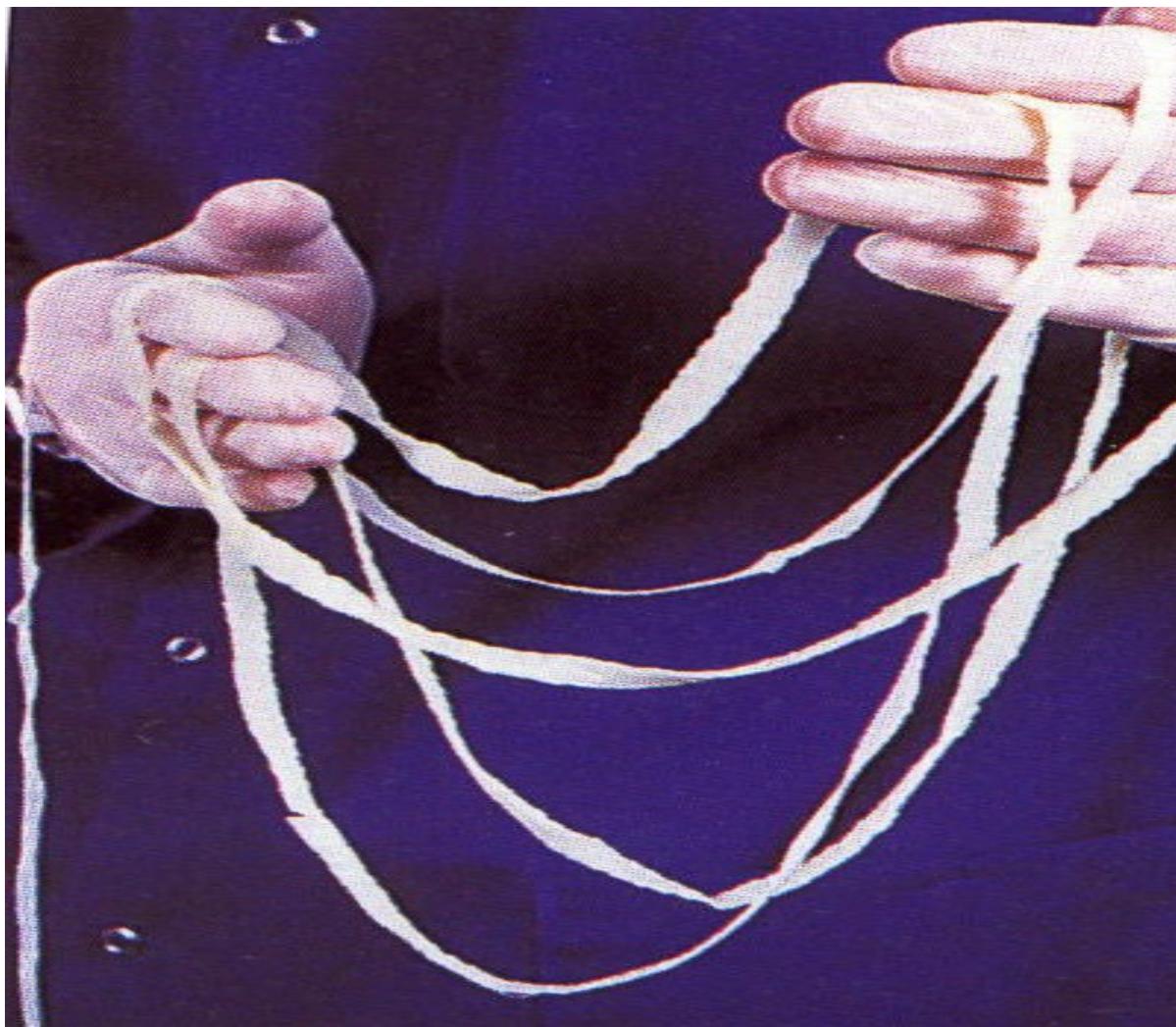
Taenia saginata



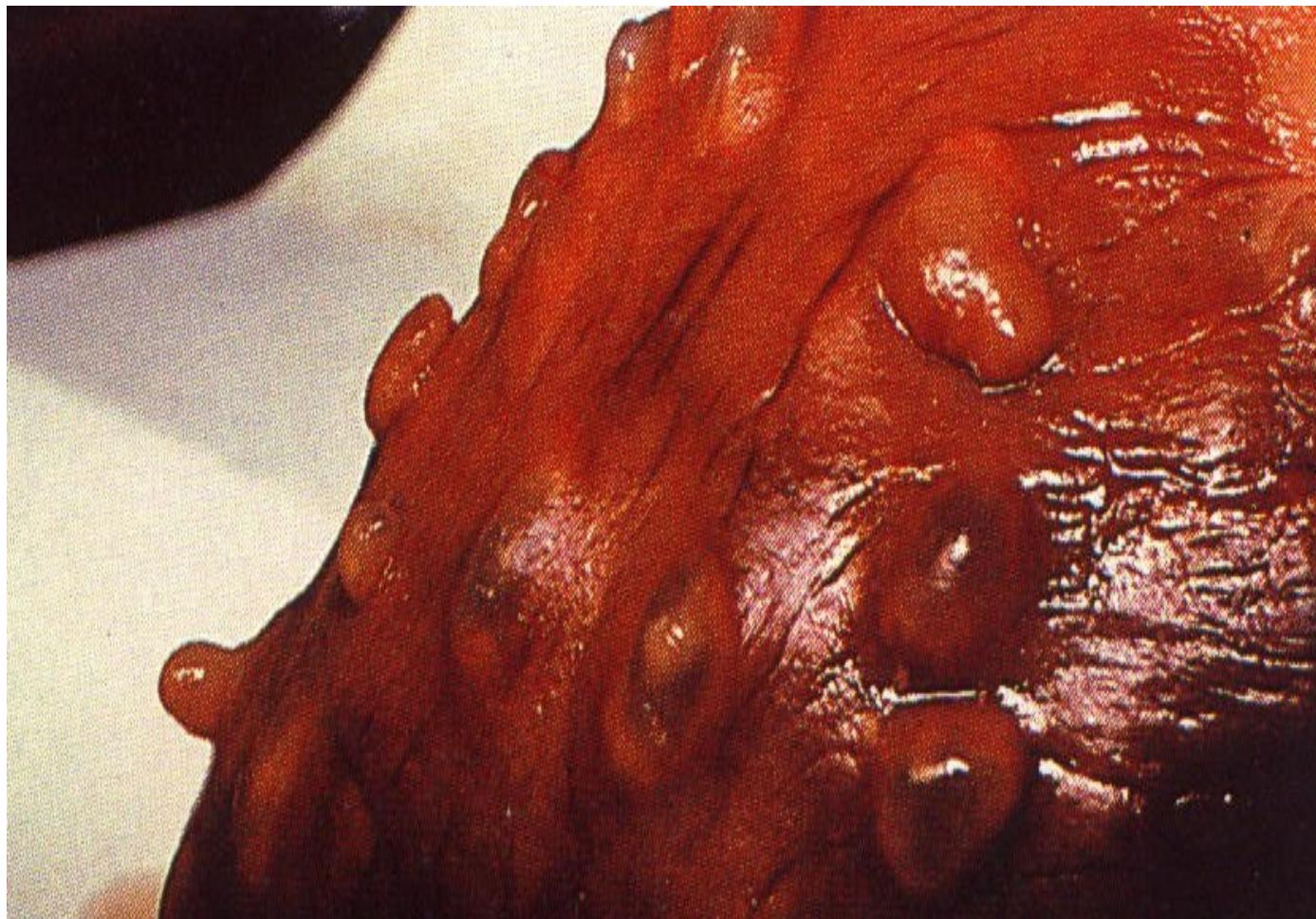
Taenia solium



Taenia saginata



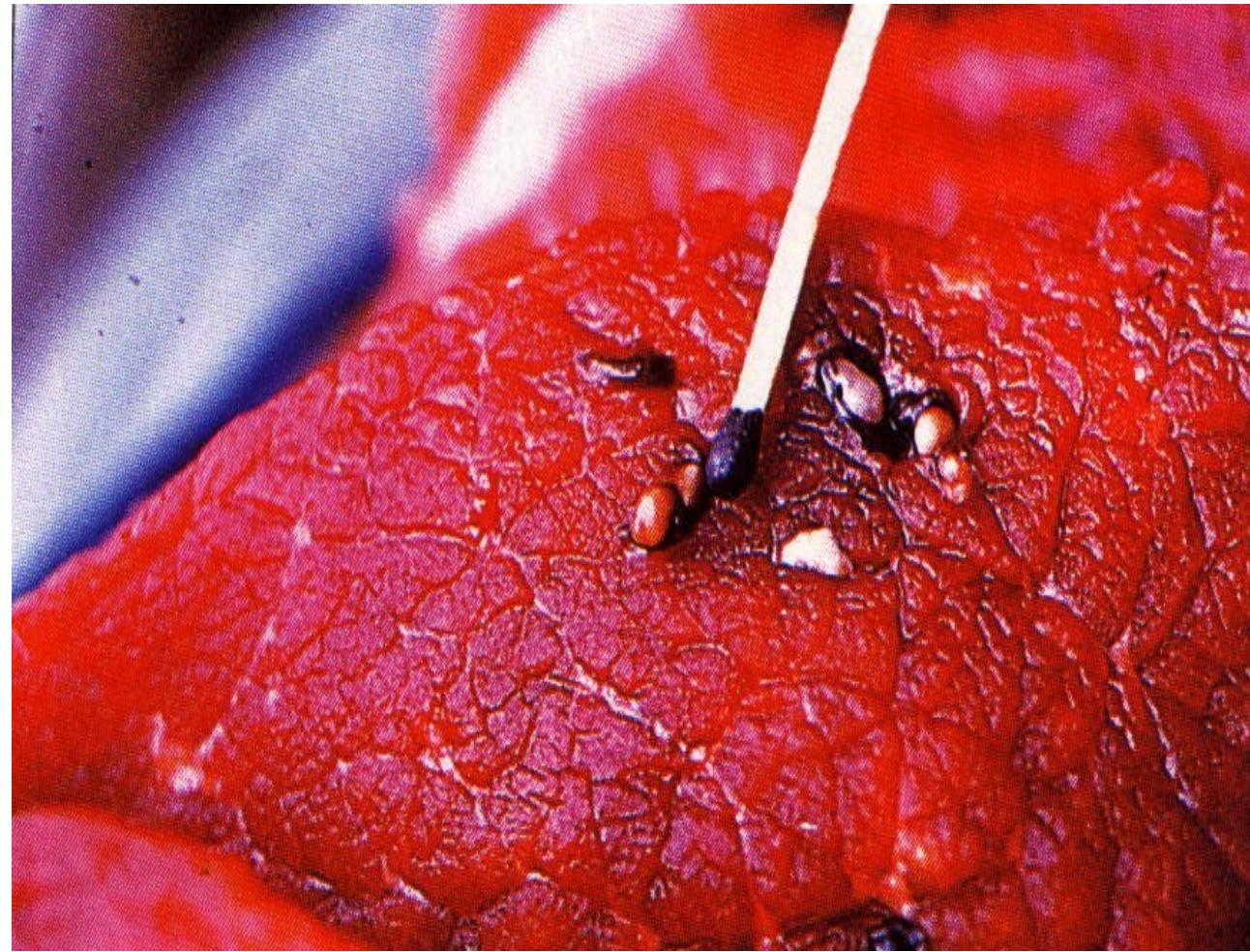
Cysticercosis (pig)

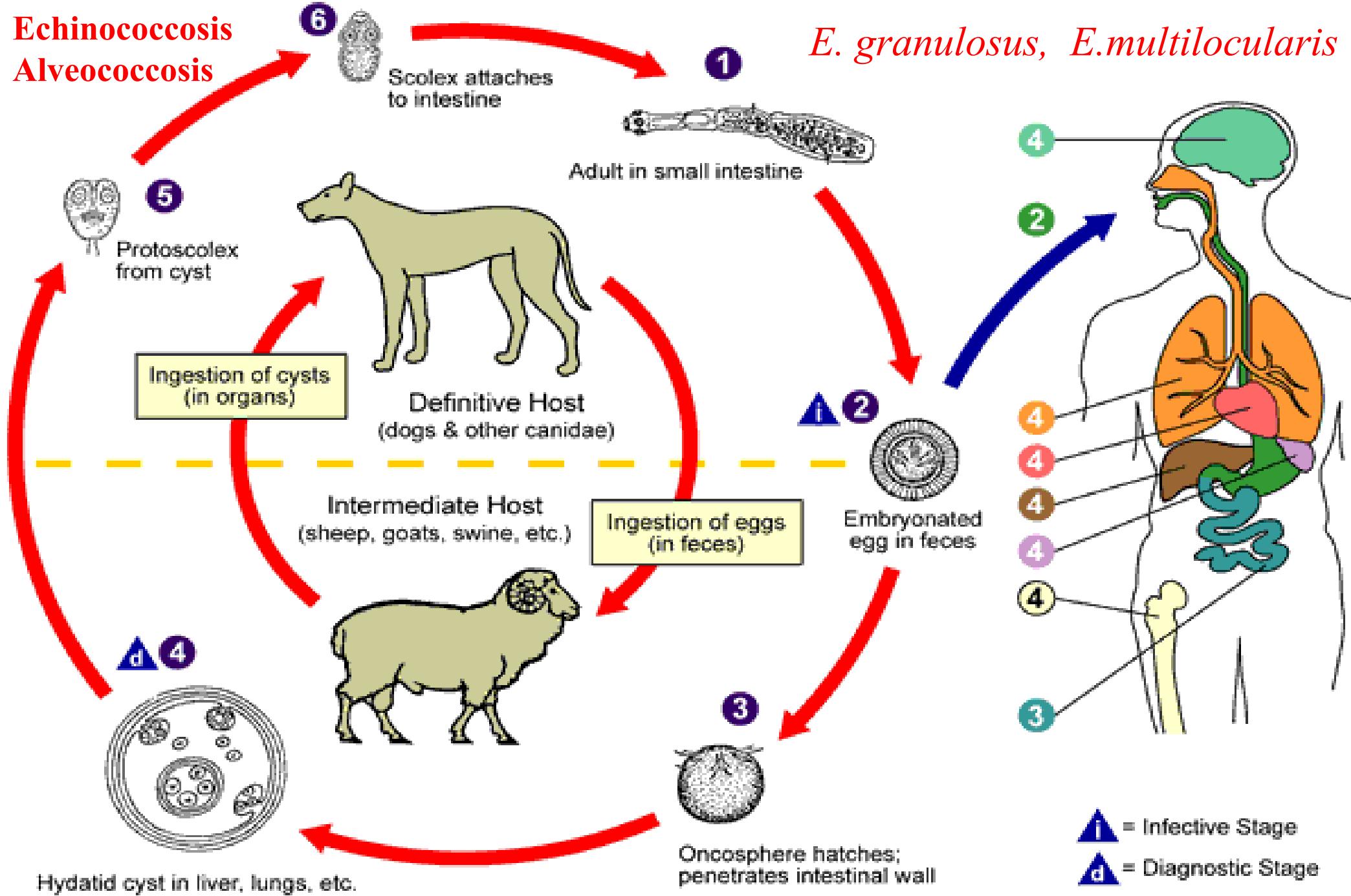


Cysticercosis (man)



Cysticercosis (cow)

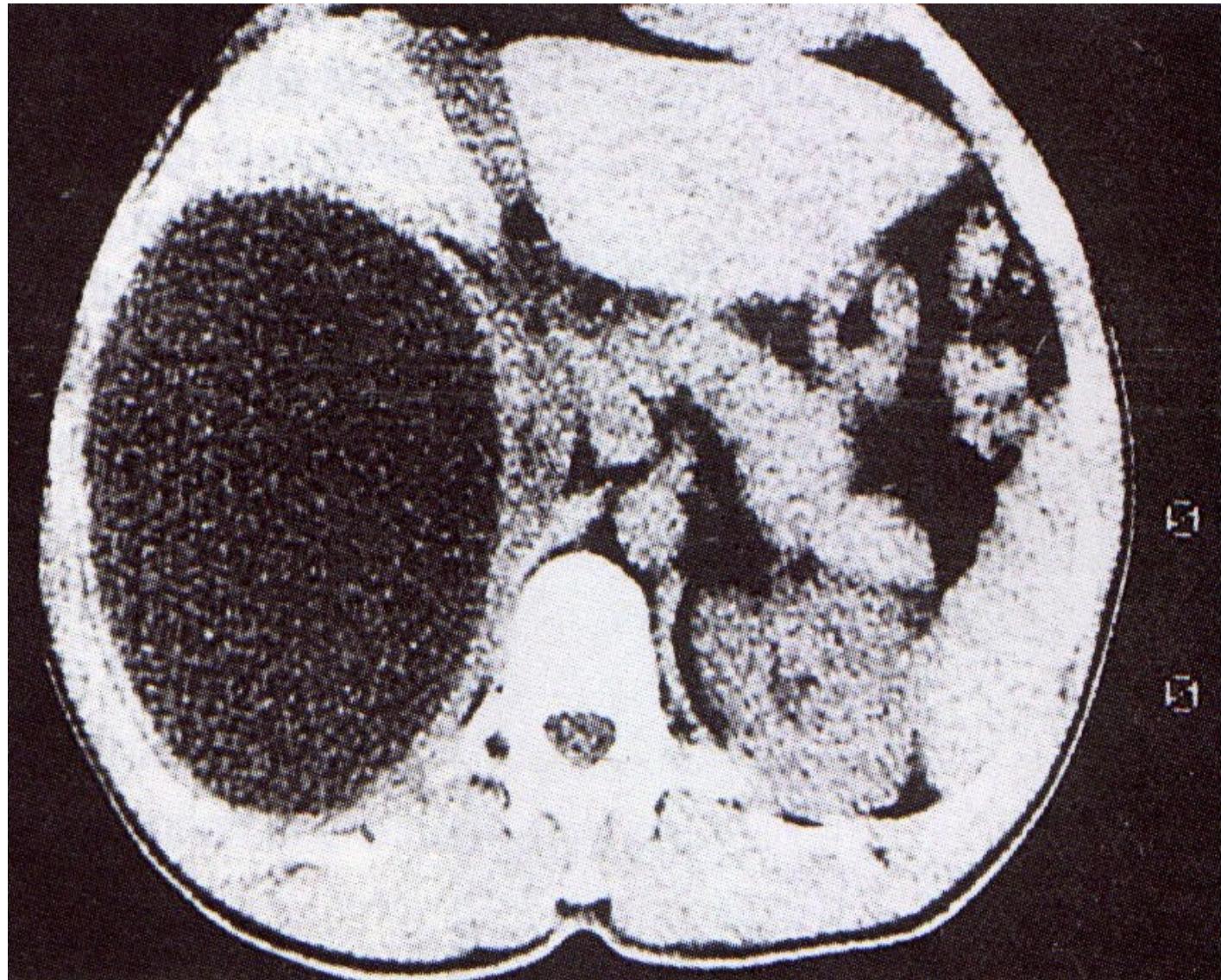




Echinococcus
granulosus
(dog)



Echinococcus
granulosus – liver cysts
(man)



Echinococcus
granulosus – liver cysts
(man)

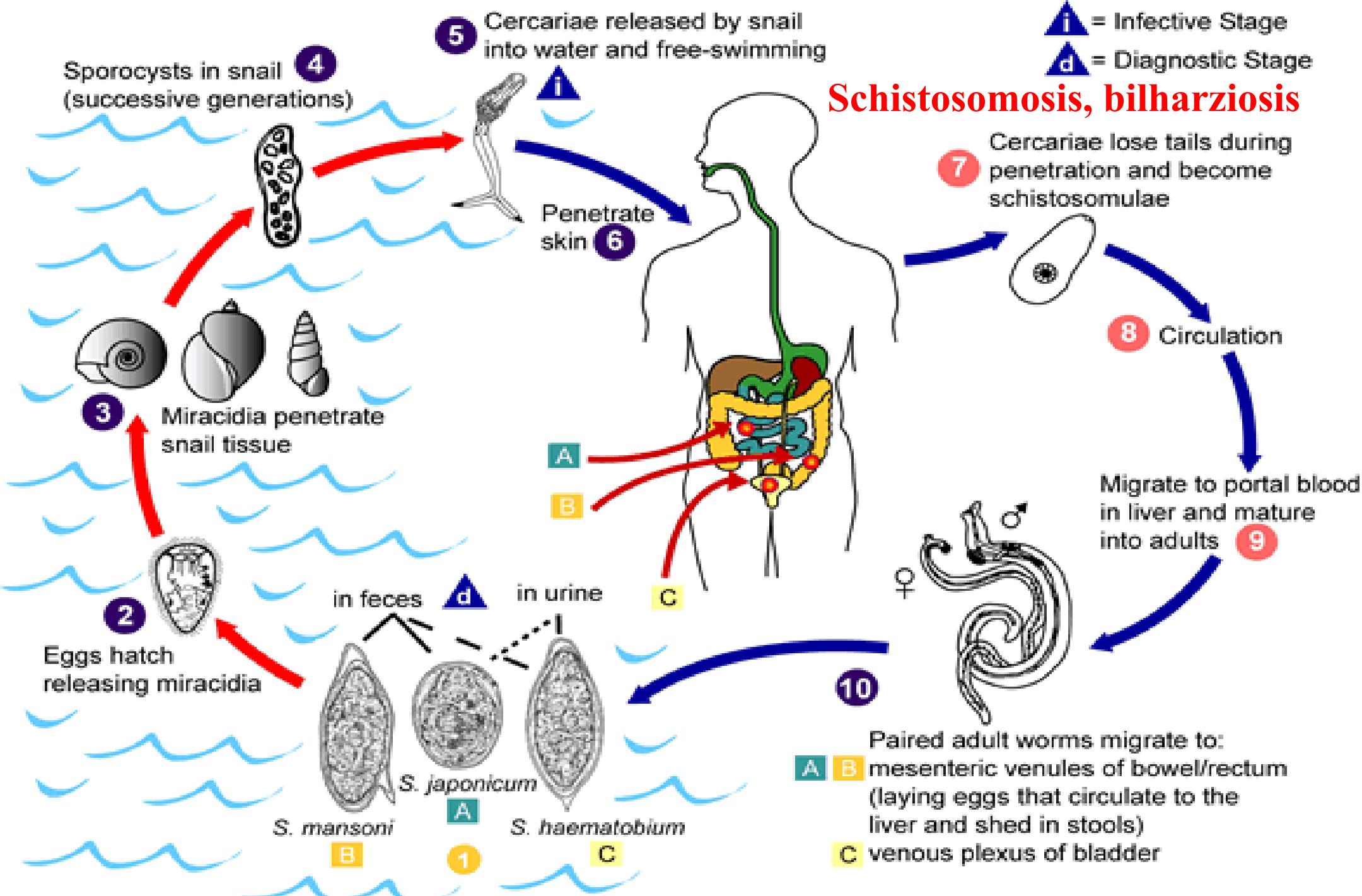






Flukes (Trematodes)

- schistosomiasis (bilharsiasis)
- *S. hematobium*
- *S. intestinalis (mansoni)*
- *S. japonicum*
- *S. mekongi*





تنبيه هام

عن زيارتك المأمور:
تحذير من عيادة هذه العين على القراءع الناقلة للحchin
البارسايا ، وعيادة رجحى على القراءع الناقلة إلى الماء
لأى شخص كان عنده املازية الماء . تذكر أن لا تلمس الماء

DEAR VISITOR:

THIS SPRING WATER HARBORS THE SNAILS WHICH CAN
TRANSMIT THE DISEASE BILHARZIASIS. THEREFORE, GOING
DOWN TO THE WATER FOR ANY REASON IS STRONGLY
PROHIBITED TO CONTROL THE INFECTION WITH BILHARZIASIS.

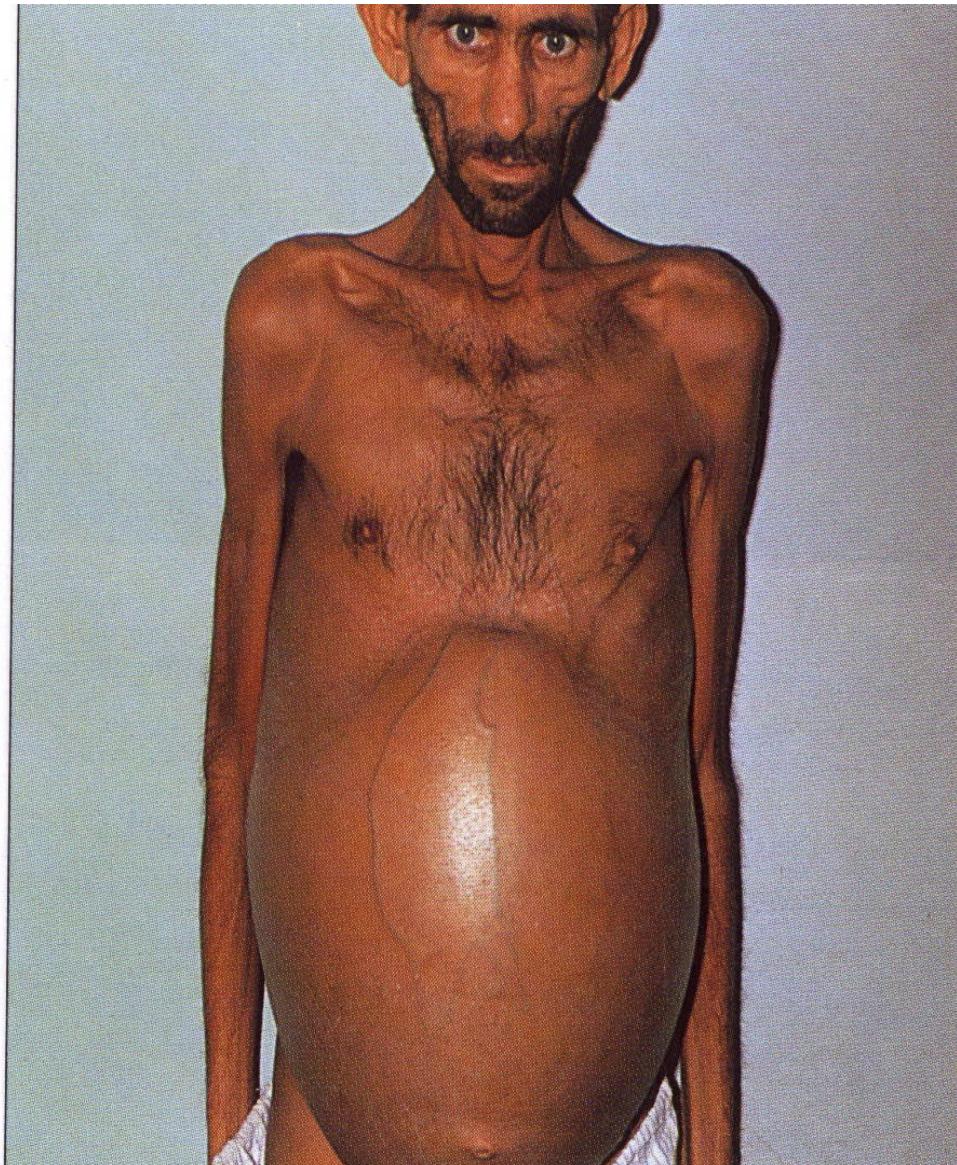
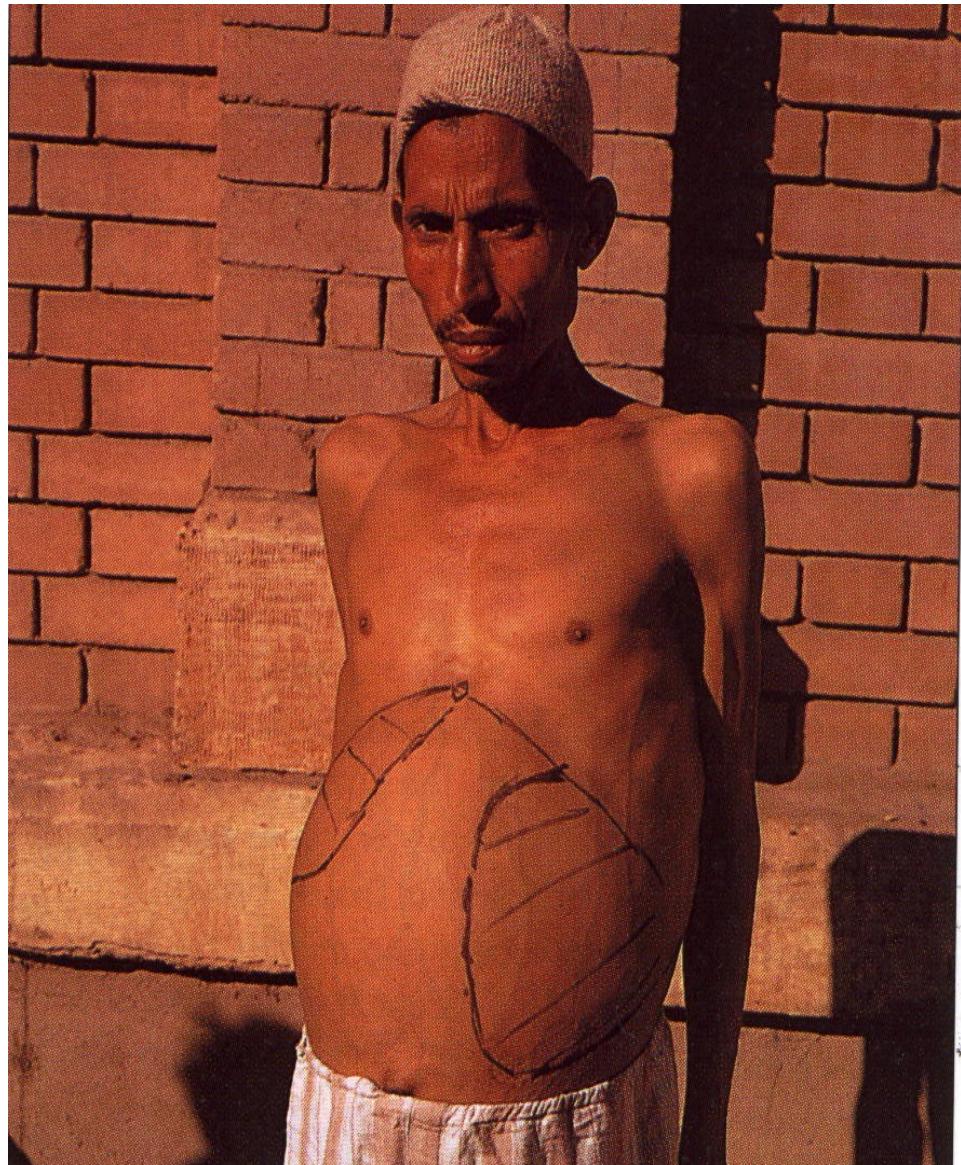
THANKING YOUR COOPERATION.

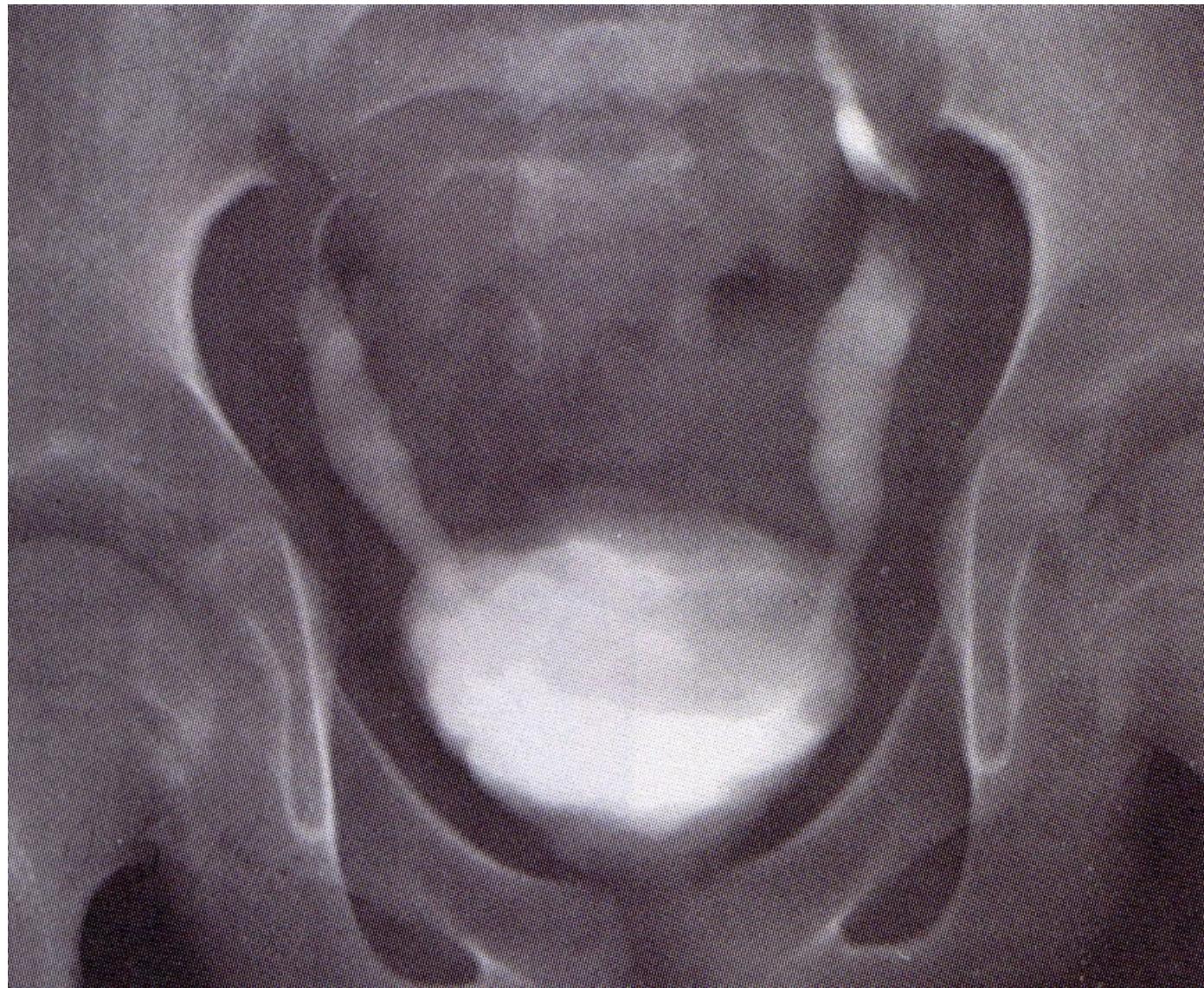












Fungal GI infections

- about all candidiasis
- different members of *Candida* sp. (mostly *C.albicans*)
- mouth cavity, oesophagus, anorectal
- mostly IS patients
- fluconazol, itraconazol ketoconazol, amphotericin

Thank you for your attention!

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