

COURSE MEDICINE – English division
MEDICAL PARASITOLOGY
2nd year (2024/2025)

Class 1 (28.04.2025r.)

Subject: **Parasitic Protozoa**

Morphology, biology, life cycle, pathogenesis, diagnostic of parasites:

1. Protozoa of the digestive system:

- *Entamoeba histolytica*
 - trophozoites -microscopic slide-drawing
- *Giardia intestinalis*
 - trophozoites-microscopic slide-drawing
- *Cryptosporidium parvum*
 - oocysts-microscopic slide-drawing

2. Protozoa of the circulatory system:

- *Trypanosoma brucei gambiense*
 - trypomastigota-microscopic slide-drawing
- *Trypanosoma cruzi*
 - amastigota-microscopic slide-drawing
- *Plasmodium falciparum*

3. Protozoa of parenchymal organs:

- *Toxoplasma gondii*
 - trophozoites-microscopic slide - drawing

4. Protozoa of the nervous system:

- *Naegleria fowleri*

5. Protozoa of the urogenital system:

- *Trichomonas vaginalis*
 - trophozoites- microscopic slide -drawing

6. Protozoa of the skin:

- *Leishmania tropica*
 - protomastigota-microscopic slide-drawing

Class 2 (05.05.2025r.)

Subject: **Trematodes – digenetic flukes**

1. Morphology, biology, life cycle, pathogenesis, diagnostic of parasites:

2. Trematodes of the respiratory system:

- *Paragonimus westermani* (lung fluke)
 - adult – microscopic slide - drawing

3. Trematodes of the digestive system:

- *Fasciola hepatica* (liver fluke)
 - adult-microscopic slide - drawing (digestive and reproductive systems)
 - eggs-microscopic slide-drawing
- *Dicrocoelium dendriticum*

- adult – microscopic slide – drawing
4. Cardiovascular flukes:
- *Schistosoma mansoni*
 - adult (male, female)-microscopic slide - drawing
 - eggs-microscopic slide-drawing

Class 3 (12.05.2025r.)

Subject: **Cestoda - tapeworms**

1. Morphology, biology, life cycle, pathogenesis, diagnostic of parasites:
2. Tapeworms of the digestive system:
 - *Diphyllobothrium latum* (fish tapeworm)
 - gravid proglottids-microscopic slide-drawing
 - eggs – microscopic slide - drawing
 - *Taenia saginata* (beef tapeworm)
 - eggs-microscopic slide-drawing
 - scolex – microscopic slide - drawing
 - *Taenia solium* (pork tapeworm)
 - scolex – microscopic slide – drawing
 - *Dipylidium caninum*
 - eggs – drawing
3. Cestodes of organs and tissues:
 - *Echinococcus granulosus*
 - adult – microscopic slide - drawing
 - protoscoleces-microscopic slide-drawing

Class 4 (19.05.2025r.)

Subject: **Nematodes**

1. Morphology, biology, life cycle, pathogenesis, diagnostic of parasites:
2. Gastrointestinal nematodes:
 - *Enterobius vermicularis* (pinworm)
 - adult-microscopic slide -drawing
 - eggs-microscopic slide - drawing
 - *Ascaris lumbricoides* (human roundworm)
 - adult (male, female)- macroscopic-drawing
 - *Trichuris trichiura* (whipworm)
 - adult (male, female) - microscopic slide-drawing
 - eggs-microscopic slide-drawing
 - *Anisakis simplex*
2. Nematodes of circulatory system:
 - *Loa loa*
 - microfilariae-microscopic slide
 - *Wuchereria bancrofti*
 - microfilariae- microscopic slide
3. Nematodes of parenchymal organs:

- *Trichinella spiralis* (trichina worm)
- larvae in the striated human muscle - microscopic slide - drawing
- *Toxocara canis* (canine roundworm)
- adult-macroscopic - drawing
- eggs - microscopic slide -drawing

Class 5 (26.05.2025r.)

Subject: Parasitic Arachnida - Arachnids

1. Morphology, biology, life cycle, pathogenesis, diagnostic of parasites:

- *Ixodes ricinus* (tick)
- adult (male, female), larva - microscopic slide-drawing
- *Sarcoptes scabiei* (itch mite)
- adult -microscopic slide-drawing
- *Demodex folliculorum* (hair follicle mite)
- adult-microscopic slide-drawing

Subject: Parasitic Insects

1. Morphology, biology, life cycle, pathogenesis, diagnostic of parasites:

- *Pediculus humanus* (human lice)
- adult-microscopic slide-drawing
- eggs-microscopic slide-drawing
- *Pthirus pubis* (pubic lice)
- adult-microscopic slide–drawing
- *Cimex lectularius*- bed bug
- adult -microscopic slide – drawing
- *Lucilla sericata*-green fly
- adult-macroscopic
- *Pulex irritans*-human flea
- adult – photo – drawing
- *Ctenocephalides canis* - dog flea
- adult-microscopic slide-drawing
- *Glossina* sp.
- adult-microscopic slide-drawing

Class 6 (02.06.2025r.)

Colloquium

Theoretical test– 15 open questions and 15 MCQ

Practical exam – parasitological slides. On the practical test each of the students should know: the Latin name of observed species, invasive stage of parasite, kind of material used to recognize the species, location in human body, name of disease caused by the parasite.

Literature

Obligatory:

1. A. Buczek „Parasitology for medical students”, Koliber, Lublin 2007, 2011

Additional:

L. Sh. Garcia „Diagnostic medical parasitology”, Washington, D.C. ASM Press 2007

<http://www.cdc.gov/> , <https://www.who.int/>

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