**COURSE MEDICINE – English division**

**MEDICAL PARASITOLOGY**

**2nd year (2023/2024)**

**Class 1 (08,10.04.2024r.)**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 (15,17.04.2024r.)**

Subject: **Trematodes – digenetic flukes**
1. Morphology, biology, life cycle, pathogenesis, diagnostic of parasites:
2. Trematodes of the respiratory system:
-*Paragonimus vestermani* (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 (22,24.04.2024r.)**
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 (29.04., 08.05.2024r.)**

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 (06,15.05.2024r.)**

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
-*Pthiru spubis* (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 (13,22.05.2024r.)**
**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/>

<http://www.dpd.cdc.gov/dpdx/HTML/Para_Health.htm>

<http://www.who.int/tdr/>

**CONTACT:**

malgorzata.lepczynska@uwm.edu.pl, mlepczynska@gmail.com

MS Teams: **Medical parasitology ED ’24**; Code: **obpdlzl**