**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](mailto:malgorzata.lepczynska@uwm.edu.pl), [mlepczynska@gmail.com](mailto:mlepczynska@gmail.com)

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