

**SYLLABUS OF LECTURES
FOR 4TH AND 5TH YEAR STUDENTS OF GENERAL MEDICINE
SUMMER TERM OF THE ACADEMIC YEAR 2022/2023**

TROPICAL PARASITOLOGY – COMPULSORY OPTIONAL SUBJECT

Year 4 th /5 th	term summer	lec. hours/pract. 24	credits 2	exam written/oral
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Lecture No.1.

3rd March

Introduction to Tropical Parasitology; interaction between parasite and host; adaptation to parasitism, biological cycle, Clinical features, laboratory diagnostics, treatment, epidemiology, prevention and control. Intestinal protozoan infections

- amoebic dysentery – amoebosis (*Entamoeba histolytica*)
- other intestinal amoebosis (*E.coli*, *E. dispar*, *E. polecki*, *Endolimax nana* ...)
- coccidiosis (*Cryptosporidium parvum*, *Isospora belli*, *Sarcocystis* spp., *Cyclospora cayetanensis*)
- microsporidiosis (*Enterocytozoon bieneusi*, *Encephalitozoon intestinalis*)

Lecture No. 2.

10th March

Blood and tissue protozoan infections I.

- Malaria (*Plasmodium falciparum*, *Plasmodium vivax*, *Plasmodium ovale*, *Plasmodium malariae*, *Plasmodium knowlesi*)
- Babesiosis (*Babesia* spp.)

Lecture No. 3.

17th March

Blood and tissue protozoan infections II.

- African Trypanosomosis – sleeping sickness (*Trypanosoma gambiense*, *Trypanosoma rhodesiense*)
- American Trypanosomosis – Chagas' Disease (*Trypanosoma cruzi*)
- Leishmaniasis: cutaneous, diffuse cutaneous, mucocutaneous and visceral leishmaniasis (*Leishmania* spp)

Lecture No. 4.

24th March

Blood and tissue protozoan infections III.

- Extraintestinal amoebosis (*Entamoeba histolytica*)
- Primary amoebic meningoencephalitis (*Naegleria fowleri*)
- Granulomatous amoebic encephalitis (*Acanthamoeba* spp., *Balamuthia mandrillaris*)
- Amoebic keratitis (*Acanthamoeba* spp.)
- Microsporidiosis (*Encephalitozoon* spp., *Nosema* spp., *Microsporidium* spp., *Vittaforma corneae*, *Trachipleistophora* spp.)

Lecture No. 5.**31st March**

Intestinal helminthiasis I.

- ancylostomiasis (*Ancylostoma duodenale*)
- fasciolopsiosis (*Fasciolopsis buski*)
- heterofyóza (*Heterophyes heterophyes*)
- nekatorosis (*Necator americanus*)
- capillariosis - intestinal (*Capillaria philippenensis*)
- metagonimiasis (*Metagonimus yokogawai*)
- strongyloidosis (*Strongyloides stercoralis*)
- rare parasites

Lecture No. 6.**7th April**

Tissue helminthiasis II.

- teniariniasis (*Taenia multiceps*)
- cysticercosis (*Taenia solium*)
- fasciolosis (*Fasciola* spp.)
- hydatidosis (*Echinococcus* spp.)
- Hepatic tropical trematodosis (*Clonorchis sinensis*, *Opistorchis felinus*)
- Lung flukes (*Paragonimus* spp.)
- sparganosis (*Spirometra* spp.)

Lecture No. 7.**14th April**

Tissue helminthiasis II.

- anisakidosis (*Anisakis* spp.)
- hepatic capillariosis (*Capillaria hepatica*), lung's capillariosis (*Capillaria aerophila*)
- and cutaneous capillariosis (*Capillaria cutanea*)
- gnathostomiasis (*Gnathostoma* spp.)
- parastrongylosis (*Parastrongylus* spp.)
- dracunculosis (*Dracunculus medinensis*)
- onchocercosis (*Onchocerca volvulus*)

Lecture No. 8.**21th April**

Schistosomiasis: (*Schistosoma mansoni*, *S. japonicum*, *S. haematobium*, *S. intercalatum*, *S. mekongi*)

Lecture No. 9.**28th April**

Blood and lymphatic helminthiasis

- filariasis (*Wuchereria bancrofti*, *Brugia malayi*, *Brugia timori*)
- Other human filariasis (*Loa loa*, *Mansonella* spp., *Dirofilaria* spp.)

Lecture No. 10.**5th May**

Arachnoentomology of medical importance

- arthropods as endoparasites (a – Pentastomida – *Linguatulidae*; b - Myiasis)
- arthropods as ectoparasites
 - A. exact parasites
 - B. facultative parasites (a – *Trombicula akamushi*), b - hmyz [Heteroptera, Hymenoptera, Diptera (*Ceratopogonidae*, *Psychodidae*, *Simuliidae*, *Culicidae*, *Tabanidae*, *Muscidae*), *Siphonaptera*]
- arachnids (ticks - exotic, spiders - exotic, skorpiones)

Lecture No. 11.

12th May

Diagnostics and prevention of parasitic diseases
(Protozoa)

Lecture No. 12.

19th May

Diagnostics and prevention of parasitic diseases
(Helminths)

Lecturer: Assoc. Prof. Nasir Jalili, RND, PhD, MPH

Practicals:

Assoc. Prof. Nasir Jalili, RND, PhD, MPH

Martina Dubinová, RND.

Assoc. Prof. Adriana Liptaková, MD, PhD, MPH
Head of the Institute of Microbiology of
Faculty of Medicine, Comenius University
and Teaching University