INTERNATIONAL SCHOOL OF MEDICINE

SYLLABUS

Program:	**General medicine**
Qualification of the graduate:	**General practitioner / Medical doctor**
Year:	**2022-2023**
Semester:	**8**
Course duration:	**18 weeks**
Instructor/Assistant/Professor	**Name:**
Department:	**Infectious diseases**
Day and Time for consultation:	
Classroom:	
e-mail:	
Course Title:	**Phthisiology**
Must/Elective:	**Must**
Credit/Hours:	**3/90**
Course Description:	**Acquisition of information and skills necessary to perform the functions of a general health services to detect and treat TB patients within the PAL-DOTS Strategy and the National Program "Tuberculosis-5."**
Course Objectives:	**1. To form a deep set of knowledge on the identification and management of patients with tuberculosis, primarily for work at the primary level of health care, in a tense epidemiological situation for tuberculosis;** **2. To train a specialist capable of conducting a differential diagnostic search using possible clinical, laboratory, radiological, molecular and other diagnostic methods among the population and risk groups for tuberculosis;** **3. To teach preventive measures to prevent the transmission of infection in medical institutions at all levels of health care;** **4. To improve the system of general and specialized knowledge of phthisiology, skills that allow a general practitioner to freely navigate the diagnosis and treatment of tuberculosis in combination with other common diseases.**
Prerequisites:	**1. Pharmacology: Know the modern medical anti-tuberculosis drugs. (To be able to properly apply anti-TB drugs in the treatment, various forms of pulmonary tuberculosis.**

	Ways of introducing drugs into the body, the distribution of drugs in the body. Own - methods of assistance with complications, the administration of BCG vaccine, the introduction of tuberculin, diaskintest. Acquire the experience of intravenous drug administration in the treatment of destructive pulmonary tuberculosis). **2. Propedeutics of internal diseases: Know - modern methods of radiology in phthisiology (To be able to properly store a review radiographs of the lungs and other organs of patients with tuberculosis. To possess - methods of analyzing the correct installation of patients and the processing of radiographs and tomogramsAcquire experience in the use of radiation examination methods in patients with tuberculosis and contacts).** **3. Public Health and Health: Know modern methods of work of tuberculosis services in urban environments. Fundamentals of health care, the legal framework of health legislation (To be able to carry out preventive examinations of the population for tuberculosis. To master the methods of work in the "foci" of tuberculosis and at the medical site. To gain experience in the TB area).** **4. Microbiology and immunology: Know the causative agent of tuberculosis, methods of detection (To be able to properly collect material for finding Mycobacterium tuberculosis. Master the detection of Mycobacterium tuberculosis. Acquire experience in determining drug resistance of mycobacteria.** **5. Infectious Diseases: Know organizational forms of combating infectious diseases. Patterns of the epidemic process, measures to combat infectious diseases. Be able to assess the infectious hazard. Evaluate the epidemiological situation. Own methods of disinfection, methods of BCG vaccination. Gain experience with dangerous infections.**
Post-requisites:	**1. Internal diseases** **2. Surgical diseases** **3. Obstetrics and gynecology** **4. Pediatrics** **5. Family medicine**

Learning Outcomes: (expected knowledge & ability at the end)	**Able and ready to apply modern information on health indicators of the population at the level of health facilities; Preventive activities** **Able and ready to select individuals for observation, taking into account the results of mass tuberculin diagnostics and fluorographic examination, to evaluate the results for the purpose of early detection of tuberculosis.**
Basic references:	**1.Treatment of Tuberculosis, American Thoracic Society, CDC and Infectious Diseases Society of America, Am J Respir Crit Care Med, Vol 167, 2003** **2. Interactive Core Curriculum on Tuberculosis (Web-based), CDC, 2004** **3. "DOT Essentials: A Training Curriculum for TB Control Programs", Francis J. Curry National Tuberculosis Center, 2003** **4. "Management: Directly Observed Therapy", New York City Department of Health, 2001.**
Supplementary Textbook and Materials:	**https://www.cdc.gov/tb/education/corecurr/pdf/chapter4.pdf** **https://www.ncbi.nlm.nih.gov/books/NBK539301/** **https://www.cdc.gov/tb/topic/infectioncontrol/TBhealthCareSettings.htm**

COURSE POLICY AND EVALUATION CRITERIA:

Type of control (current, milestone, final)	Control form	Assessment of learning outcomes
Attendance	For one missed lesson minus 2 points	20 points
Current control	Oral surveey, written work	20 points
IWS+IWW	Perfoming assignments, work with literature	20 points
Milestone control (modul submission)	Testing, control tasks	40 points
Final control (differential test)	Conversation, examination (test.edu.kg)	100 points

Scale of correspondence between grades and scores on the final control (exam)	
Score	**Grade**
90-100	«excellent»
76-89	«good»

60-75	«satisfactory»
0-59	«unsatisfactory»

Course Plan	Lecture / Practice	Subject
1 week	**Lecture / Practice**	**Epidemiology and etiology of tuberculosis. The pathogenesis of tuberculosis. Clinical classification of tuberculosis. Building a clinical diagnosis.**
2 week	**Practice**	**Features of the examination of patients with tuberculosis. Peculiarities of tuberculosis detection at the PHC level. Laboratory diagnosis of tuberculosis. Microbiological methods for diagnosing tuberculosis, accelerated methods for detecting tuberculosis. Instructions for collecting sputum.**
3 week	**Lecture / Practice**	**X-ray diagnosis of pulmonary tuberculosis. Major radiological syndromes. Analysis of radiographs from the standpoint of differential diagnosis.**
4 week	**Lecture / Practice**	**Tuberculin diagnostics. Mantoux test with 2 TU. Evaluation and interpretation of results. Peculiarities of detection of tuberculosis in children.**
5 week	**Practice**	**Immunoprophylaxis of tuberculosis: BCG vaccination, indications and contraindications. Chemoprophylaxis. Infectious control of tuberculosis in medical institutions. Work in the focus of tuberculosis infection. Information and educational work.**
Modul 1 (Date)		
6 week	**Lecture / Practice**	**Basic principles of anti-tuberculosis chemotherapy. Classification of anti-tuberculosis drugs. Classification of cases of tuberculosis. Undesirable effects of chemotherapy in tuberculosis.**
7 week	**Practice**	**Drug resistant tuberculosis (PDR, MDR, XDR), detection, diagnosis, treatment. Classification of reserve drugs. Undesirable effects of chemotherapy for susceptible tuberculosis.**
8 week	**Lecture / Practice**	**Primary tuberculosis: pre-local forms and local forms. Primary tuberculosis complex. Tuberculosis of the intrathoracic lymph nodes. Classification, diagnosis, clinic, treatment. Differential diagnosis. Clinical analysis of patients.**
9 week 10 week	**Lecture / Practice**	**Disseminated tuberculosis: acute, subacute, chronic. Classification, clinic, diagnosis, treatment. Tuberculosis of the central nervous system: as a form of miliary pulmonary tuberculosis and as a complication of the main pulmonary and extrapulmonary forms of tuberculosis. Differential diagnosis. Clinical analysis of patients.**
Modul 2 (Date)		
11 week	**Lecture / Practice**	**Secondary tuberculosis. Limited forms: focal pulmonary tuberculosis, pulmonary tuberculoma. Classification, clinic, diagnostics, treatment. Differential diagnostics. Patient analysis.**
12 week	**Lecture / Practice**	**Infiltrative pulmonary tuberculosis. Clinic, diagnosis, treatment. Caseous pneumonia. Classification, clinic, diagnosis, treatment. Differential diagnosis. Care.**

13 week	**Practice**	**Destructive forms of tuberculosis. Cavernous pulmonary tuberculosis. Fibrous-cavernous pulmonary tuberculosis. Classification, clinic, diagnosis, treatment. Differential diagnosis.**
14 week	**Lecture / Practice**	**Complications of secondary pulmonary forms of tuberculosis. Diagnosis, clinic, differential diagnosis, treatment, complications, prognosis. Tuberculous pleurisy. Diagnosis, clinic, differential diagnosis, treatment, complications, prognosis. Clinical analysis of patients. Clinical analysis of patients.**
Modul 3 (Date)		
15 week	**Practice**	**Secondary tuberculosis. Limited forms: focal pulmonary tuberculosis, pulmonary tuberculoma. Classification, clinic, diagnosis, treatment. Differential diagnosis. Patient analysis.**
16 week	**Lecture / Practice**	**Tuberculosis of bones and joints. Diagnosis, clinic, differential diagnosis, treatment, complications, prognosis.**
17 week	**Practice**	**Tuberculosis of the genitourinary organs. Diagnosis, clinic, differential diagnosis, treatment, complications, prognosis.**
18 week	**Practice**	**Tuberculosis associated with HIV infection. Diagnosis, clinic, differential diagnosis, treatment, complications, prognosis.**