



Non-Commercial Educational Institution
Educational-Scientific-Production Complex
«International University of Kyrgyzstan»

Quality Management System
Academic and methodological complex of the discipline
«Nephrology»
MEP of «General Medicine» ISM IUK

INTERNATIONAL UNIVERSITY OF KYRGYZSTAN
INTERNATIONAL SCHOOL OF MEDICINE
Department of Therapy



Syllabus

OF THE DISCIPLINE
«PROPEDEUTICS OF INTERNAL DISEASES»

Main educational program

specialty of **560001 General Medicine (for foreign citizens)**

(code, direction name / specialty)

qualification of the graduate: general practitioner

(the qualification of the graduate is indicated in accordance with SES HPE)

Full-time education

Course 2

Semester 3

Credit / Exam (6)

Total curriculum credits 2

Work program developer: Ass. R.Zh. Kulzhigacheva

Head of the Department: Prof. Baitova G. M.

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1. The work program of the academic discipline

1.1.Explanatory note

- **Mission of the ISM IUK** – *training of competent specialists in the field of medicine, consistent with international standards and traditions of medical ethics, ready for continuous professional growth using modern achievements of science and practice, to solve public health problems.*

Annotation of the academic discipline

This course will provide the formation of important professional skills of examination of the patient, the basics of clinical thinking, as well as medical ethics and deontology. Having not mastered these main goals of propaedeutic therapy perfectly, it is difficult to count on a sufficiently high-quality training of a doctor of any specialty in senior courses. Thus, propaedeutics of internal diseases is an integral fundamental part of the clinical training of a young specialist. The subject is aimed at: the study of methods of direct examination of a healthy patient and patient (questioning, examination, palpation, percussion, auscultation, blood pressure measurement, studies of the properties of arterial pulse, etc.); the study of some methods of laboratory and instrumental diagnostics of diseases of internal organs (general and biochemical blood analysis, urine tests, studies of pleural contents, sputum tests, stool tests, ECG, EchoCG, spirometry, etc.); study of the main clinical symptoms and syndromes of diseases of internal organs and the mechanisms of their occurrence; study of the symptomatology of the most common diseases of internal organs occurring in a typical classical form; formation of ideas about the basic principles of the diagnostic process (fundamentals of clinical thinking).

The final form of control is an exam.


• **Goals and objectives of the discipline**

Purpose of the discipline

- The purpose of the discipline of propaedeutics of internal diseases is to master the basics of physical examination of healthy patients and patients with various diseases by 2nd year students, as well as the study and identification of the main clinical symptoms and syndromes in various diseases of internal organs.

Discipline objectives:

- teaching students the basics of the technique of physical examination of healthy patients and patients with diseases of various organs and systems (questioning the patient, his examination, palpation, percussion and auscultation, blood pressure

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measurement, pulse examination, etc.), as well as identifying objective criteria of the disease;

- familiarization and training of students in methods of laboratory and instrumental examination of patients with various clinical syndromes and pathology of various organs and systems of the body with the interpretation of the results obtained;
- teaching students' practical skills of performing individual medical manipulations and a number of additional examination methods that play a vital role in the practice of a doctor;

formation of the student's clinical thinking and his willingness to synthesize the information obtained during the examination of the patient in order to make a clinical diagnosis.

• **Place of discipline in the structure of MEP (prerequisites, postrequisites).**

This discipline is aimed at foreign students studying at medical universities in the specialty of Medical business. The discipline program is designed for students who do not speak Russian. The discipline is an integral part of the training program for medical specialists, the development of which by foreign students is designed for 2 semesters of study and is included in the Professional cycle of the C3 block "Therapy" of the studied disciplines of the State Higher Educational Institution.

Mastering this discipline is a prerequisite for teaching foreigners at the IUK (ISM) and is necessary to master the skills of clinical examination of patients, which will allow the student to plan methods of laboratory and instrumental examination and interpret the results obtained, to identify the main clinical syndromes, which in the future (in subsequent courses of study of the student) will serve as the basis for creating a clinical diagnosis.

The content of the discipline "Propaedeutics of internal diseases" is based on the content of such previous disciplines as:

- Normal anatomy,
- Normal physiology,
- Biology,
- Communication skills
- Latin



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- Bioethics

In the future, the knowledge gained during the study of the discipline "Propaedeutics of internal diseases" will be necessary in the study of disciplines:

- Internal diseases
- General medical practice, residency in general medical practice
- Residency in internal Medicine.

Competencies of students, formed as a result of mastering discipline, the planned results of mastering the discipline.

A graduate in the specialty "General Medicine" with the assignment of the qualification of a specialist "General Practitioner" in accordance with the State Educational Standard of Higher Professional Education and General Education and the tasks of professional activity, must have the following professional competencies:

	Code / content of competency	As a result of studying the academic discipline, students must to:
1	PC-3 - is able and ready to analyze socially significant problems and processes, use methods of economic relations in the healthcare system;.	<p>know: - the basics of organizing outpatient and inpatient care for children, adolescents and adults, modern organizational forms of work and diagnostic capabilities of outpatient services;</p> <p>be able to: - collect anamnesis; interview the patient and his relatives, conduct a physical examination of the patient of various ages (examination, palpation, auscultation, blood pressure measurement, determination of pulse characteristics, respiratory rate, etc.);</p> <p>master: - methods of general clinical examination of patients;</p>
2	PC-22 - is able and ready to apply rehabilitation measures (medical, social and professional) among the population with the most	<p>know: - the concepts of etiology, pathogenesis, morphogenesis, pathomorphosis of the disease in an adult and adolescent, the principles of classification of diseases; basic concepts of general nosology;</p> <p>be able to: - apply the following skills: 1. Therapy Station-1</p>



	<p>common pathological conditions and injuries of the body;</p>	<ul style="list-style-type: none"> - A mannequin for practicing auscultation skills SAM 3G® - Simulator for measuring blood pressure - Simulator of hand of luxury class for measuring blood pressure with a 220 V / 230 V speaker system <p>2. Therapy Station-2</p> <ul style="list-style-type: none"> - Patient care simulator for practicing KERI™ auscultation skills <p>The planned results of mastering the discipline "Propaedeutics of internal diseases" are determined by the competencies acquired by the student, i.e. his ability to apply knowledge, skills and personal qualities in accordance with the goals of the educational program and the tasks of professional activity;</p> <p>To master: - interpretation patients' results of methods of physical examination, laboratory and instrumental investigation;</p>
3	<p>LO6 - ability to apply basic knowledge in the field of fundamental disciplines in professional activity for timely diagnosis and choice of therapy tactics;</p>	<ul style="list-style-type: none"> - know: -, - anatomical and physiological, age and sexual features of the functioning of organs and systems of a healthy person; - the essence and methodology of the most common methods of laboratory and instrumental examination of respiratory organs, blood circulation, digestion, urination, hematopoiesis, etc. in a healthy person; normal indicators of laboratory and instrumental methods of examination; <p>be able to: -;</p> <p>to master: - interpretation patient's results of laboratory, instrumental diagnostic methods;</p>
4	<p>LO9 - the ability to apply knowledge of sanitary and educational work forms and methods for the implementation of preventive measures to</p>	<ul style="list-style-type: none"> - know: functional systems of the human body, their regulation and self-regulation when exposed to the external environment in normal processes; the structure and function of the immune system in adults and adolescents, its age characteristics, mechanisms of development and functioning



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	prevent the development of diseases and preserve health ;	<p>be able to: - conduct a survey of the patient and/or his relatives and get full information about the disease, identifying possible causes of the disease in typical cases</p> <p>to master: - results of biochemical and clinical studies of a healthy person</p>
5	LO14 - the ability to research activities based on the principles of evidence-based medicine for the development of new methods and technologies in the field of healthcare	<p>– know: to conduct a physical examination of a healthy patient (examination, palpation, auscultation, blood pressure measurement, determination of arterial pulse properties, etc.)</p> <p>– be able to: - analyze the goals and significance of the patient's research method and their purpose, taking into account indications and contraindications</p> <p>to master: - results of biochemical and clinical studies of a healthy person</p>

Requirements for the level of preparation of the student who completed the studying the program of this discipline.

As a result of studying the basic part of the cycle, the student have to:

know:

- - anatomical and physiological, age and sexual features of the functioning of organs and systems of a healthy person;
- the essence and methodology of the most common methods of laboratory and instrumental examination of respiratory organs, blood circulation, digestion, urination, hematopoiesis, etc. in a healthy person;
- normal indicators of laboratory and instrumental methods of examination.

Understand:

- results of biochemical and clinical studies of a healthy person;
- the results of laboratory and instrumental diagnostic methods;

Able to:

will be able to



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- use physical examination methods in a healthy person
- use the knowledge of laboratory and instrumental research in the further training program and determining treatment tactics
- use the data of an objective examination and the results of the patient's research in writing a student's medical history
- information from various sources, work with information in global computer networks, use the capabilities of modern information technologies to solve professional tasks;
- have a conversation with the patient about health promotion, healthy lifestyle and disease prevention;
- have the skills to form positive medical behavior in adults, adolescents and children, motivation for a healthy lifestyle, including the elimination of bad habits that adversely affect the health of the younger generation;
- analyze the state of health, the influence of lifestyle factors, the environment and the organization of medical care on it.

able to analyze:

- The goals and significance of the patient's research method and their purpose, taking into account indications and contraindications

To have:

- a method of collecting complaints and anamnesis of the patient; have methods of physical examination of various body systems: examination, palpation, percussion and auscultation of internal organs;
- the skills to interpret the anamnesis data, objective examination of the patient, his laboratory and instrumental data;
- the skills of presenting an independent point of view, analysis and logical thinking, public speech, ethical argumentation, conducting discussions and round tables, principles of medical deontology and medical ethics;
- skills of informing the patient and their relatives;
- proficiency in a foreign language to the extent necessary for communication and obtaining information from foreign sources.

Recommended educational technologies

For the development of students of the academic discipline "Propedtherapy", the acquisition of knowledge and the formation of professional competencies, the following educational technologies are used:

- lecture – electronic presentation,



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- problem based lecture,
- lesson-conference,
- training,
- brainstorm,
- small group method,
- participation in scientific and practical conferences, congresses, symposiums,
- research work of a student,
- written analytical work
- preparation and defense of abstracts,
- distance educational technologies.

1.2. The scope of the discipline and types of academic work

Form of education – full time

According to the curriculum 2020	3 sem.	Total	
		hours	credits
Total labor intensity	60	60	2
Classroom work	36	36	1,2
Lectures	18	18	0,6
Practical classes	18	18	0,6
Seminars			
Laboratory works			
Independent work	24	24	0,8
SIW	12	12	0,4
SIWT	12	12	
Type of final control	Credit		



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According to the curriculum 2020	5 sem.	Total	
		Hours	Credits
Total labor intensity	60	60	2
Classroom work	36	36	1,2
Lectures	18	18	0,6
Practical classes	18	18	0,6
Seminars			
Laboratory works			
Independent work	24	24	0,8
SIW	12	12	0,4
SIWT	12	12	
Type of final control	Credit/ exam		

1.3. Structure of Discipline

Course	Semester	Number of Credits	Quantity of Academic hours		Independent work		Total hours
			Lecture	Practical classes	SIW	SIWT	
2	3		18	18	12	12	60
TOTAL			18	18	12	12	60

1.3.1. Thematic plan for studying the Discipline.

3 semester

#	Sections names and discipline topics (lectures and practical exercises)	Class works				Total class work hours	SIWT	SIW	Formed competence	Used educational technologies, teaching Current and midterm academic performance control forms
		ectures	Seminars	Practical classes	Laboratory works					



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	Modul 1										T
1	<i>Introduction to the clinic. The main objectives of the subject. Understanding about the methods of examination of the patient.</i>	2		2		4		2	PC-3, PC- 22	LV/PBL CC, A	Pr,
2	<i>Examination of other parts of the body: head, neck, eyes, eyelids, pupils. Palpation of lymph nodes.</i>	2		2		4	2	2	PC-3, PC- 22	LV/PBL CC, A	Pr,
3	<i>Physical examination of the respiratory and cardiovascular systems. Palpation</i>	2		2		4	2	2	PC-3, PC- 22	LV/PBL CC, A	Pr
4	<i>Examination and palpation of the abdomen. Surface tentative palpation of the abdomen.</i>	2		2		4	2	2	PC-3, PC- 22	LV/PBL CC, A	Pr
5	<i>Modul-1</i>										T
6	<i>Physical examination of the respiratory and cardiovascular systems. Percussion</i>	2		2		4	2	2	PC-3, PC- 22	LV/PBL CC, A	Pr
7	<i>Physical examination of the gastrointestinal tract. Percussion of the abdomen, liver, stomach, spleen.</i>	4		2		4	2	2	PC-3, PC- 22	LV/PBL CC, A	Pr
8	<i>Auscultation of the lungs and heart and abdomen.</i>	2		2		4	2		PC-3, PC- 22	LV/PBL CC, A	Pr
9	<i>Modul-2</i>										T
	<i>Total hours by discipline:</i>	18		18		36	12	12			



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5 semester

#	Sections names and discipline topics (lectures and practical exercises)	Class works				Total class work hours	SIWT	SIW	Formed competence	Used educational methods	Current and midterm academic performance control forms
		lectures	seminars	Practical classes	Laboratory works						
	Modul 1										T
1	<i>Examination of the respiratory organs: examination of lung, its function</i>	2		2		4		2	PC-3, PC-22	LV/PBL CC, A	Pr.
2	<i>ECG basics, ECG analysis.</i>	2		2		4	2	2	PC-3, PC-22	LV/PBL CC, A	Pr.
3	<i>Clinical and functional methods of examination of the gastrointestinal tract.</i>	2		2		4	2	2	PC-3, PC-22	LV/PBL CC, A	Pr
4	<i>Methods of physical and functional studies of the kidneys and urinary tract.</i>	2		2		4	2	2	PC-3, PC-22	LV/PBL CC, A	pr
5	Modul-1										T
6	<i>Clinical and laboratory methods of studying the endocrine system. Assessment of glucose metabolism in normal</i>	2		2		4	2	2	PC-3, PC-22	LV/PBL CC, A	Pr,
7	<i>Methods of physical and functional examination of the musculoskeletal system</i>	4		2		4	2	2	PC-3, PC-22	LV/PBL CC, A	Pr
8	<i>Methods of physical and functional blood tests. Clinical and laboratory methods of studying the hematopoietic system.</i>	2		2		4	2		PC-3, PC-22	LV/PBL CC, A	Pr
9	Modul-2										T
	<i>Total hours by discipline:</i>	18		18		36	12	12			



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1.3.2. Organization of Student's Individual Work

3 semester

#	The topic of the student's independent work:	SIW task	Recommended literature	Deadline (# of week)
1.	Methods of examination of the patient. General inspection. The general condition of the patient. Levels of consciousness. Posture and motor behavior.	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017 p. 111-120, 215-221	1
2.	Medical ethics and deontology. A general idea of insurance medicine.	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017	2
3.	Examination and palpation of the abdomen. Surface-oriented palpation of the abdomen. Rules and method of surface trial palpation. Palpation of the liver, spleen and kidneys.	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017 p. 449-489	3
4.	The history of percussion development as a research method. The role of Auenbrugger in the development of the method, its implementation by Corvisar. Percussion of the lungs and heart.	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017 p. 303-329, 388-389 Internet sources.	4
5	Physical examination of the gastrointestinal tract. Percussion of the abdomen, liver, stomach, spleen.	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017 p. 449-487	6
6	The history of auscultation. The role of Laennec. Auscultation of the lungs. Lung auscultation technique.	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017 p. 303-329, 389-397, 464-484. Internet sources.	7
7	Biophysical foundations of auscultation. Auscultation of the heart. Normal heart tones.	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017 p. 303-329, 389-397, 464-484 Internet sources.	8



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5 семестр

#	The topic of the student's independent work:	SIW task	Recommended literature	Deadline (# of week)
1.	Basics of ECG, ECG analysis. Electrocardiograph.	Abstract, presentation	Video https://youtu.be/ENyBhCJ2IIY Internet sources.	1
2.	X-ray and endoscopic methods of examination in diseases of the respiratory system	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017 Internet sources.	2
3.	Pleural and lung tissue biopsy	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017 Internet sources.	3
4.	Ultrasound examination of the heart (echocardiography). Indications for the appointment. Diagnostic value	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017 Интернет-ресурсы.	4
5	Palpation of the spleen. Diagnostic value of the increase in the size of the spleen	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017 Internet sources.	6
6	Microscopic examination of urinary sediment and its diagnostic value	Abstract, presentation	Bates' Guide to Physical Examination and History Taking Twelfth Edition, 2017	7
7	X-ray examination of skeletal bones to assess the age of a person	Abstract, presentation	Internet sources.	8

1.4. Control questions for the course:

1. The subject of Propedtherapy: its goals and objectives.
2. Scheme of examination of a therapeutic patient.
3. General questioning (Inquiry), examination of the patient.
4. Anthropometry.
5. Body thermometry. Types of fevers.



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6. Normal and pathological shapes of the chest.
7. Chest palpation: the purpose of the procedure.
8. Normal voice tremor (vocal fremitus): technique, technique.
9. Weakening of voice tremor: causes of occurrence.
10. Amplification of voice tremor: causes of occurrence.
11. Percussion of the lungs: technique, technique, rules, purpose.
12. Comparative lung percussion in norm and pathology: purpose, methodology.
13. Topographic percussion is normal: the purpose of the exercise, the methodology.
14. Types of percussion sound over the lungs, their characteristics.
15. Auscultation of the lungs: types, techniques, methods, rules.
16. Vesicular respiration: origin, varieties in pathology.
17. Bronchial respiration: origin.
18. Auscultation of the heart: methodology, technique, rules.
19. Methods and techniques for determining blood pressure: systolic, diastolic, mean, pulse.
Indicators are normal and pathological.
20. Auscultation of the heart. The value of the method in the clinic.

5 semester

1. Electrocardiography: electrophysiological basics, registration technique.
2. Normal ECG and its analysis.
3. Study of lung function
4. The concept of bone marrow puncture, lymph node, trepanobiopsy
5. Basic laboratory biochemical indicators of the state of carbohydrate metabolism.
6. Features of the distribution of edema in a patient with kidney diseases and their difference from edema of other origin
7. Physical methods of research of the musculoskeletal system



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1.5. EDUCATIONAL – METHODOLOGICAL AND INFORMATIONAL SUPPORT OF THE DISCIPLINE

List of recommended literature:

List of sources and literature:

Basic literature

1. Bates' Guide to Physical Examination and History Taking. Twelfth Edition, 2017

Additional literature

1. Clinical Examination Skills for Healthcare Professionals Edited by Hannan Abbott Mark Ranson 2nd Edition, 2017
2. Special propedeutics to internal diseases Nemtsov I.M., Vitebsk, EI «VSMU» 2016
3. Physical Examination & Health Assessment by Carolyn Jarvis Seventh Edition, Elsevier. 2016
4. Ключевые моменты диагностики внутренних болезней под редакцией Ж.Д. Кобалава, ГЭОТАР-Медиа 2011.

The list of resources of the information and telecommunication network

"Internet" necessary for mastering the discipline:

- www.kyrlibnet.kg.
- www.iprbookshop.ru.
- www.consilium-medicum.com.
- www.medportal.ru.
- www.studmedlib.ru.