MINISTRY OF EDUCATION AND SCIENCE OF KYRGYZ REPUBLIC
Osh State University
International Medical Faculty

Department of "Clinical disciplines 1"

"Approved"
at the conference of the
department
"Clinical disciplines 1"
Protocol № 1
of «28» VIII 2023y.
head of department _____,
PhD, Associate Professor
SM Mamatova

"Agreed"
by Head of Educational
Methodical Department
_____
Associate Professor
Bazieva A

# TRAINING PROGRAM OF STUDENTS
## ( SYLLABUS)
Discipline: Faculty therapy 2
Specialty: General medicine – "560001"

**Total: 5 credits**
**Course: 4th**
**Semester: VII**

| Module | Tutorial | ISW | Lecture | | Pract.classes | | ISW | | BC | Final control | Points |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | hours | points | hours | points | hours | points | | | |
| 1 | 53 | 45 | 18 | 30 | 18 | 30 | 45 | 30 | 30 | | 30 |
| 2 | 22 | 30 | 12 | 30 | 27 | 30 | 30 | 30 | 30 | | 30 |
| FC | | | | | | | | | | 40 | 40 |
| Total 5 credit | 75h | 75h | 30h | 30p | 45h | 30p | 75h | 30p | 30p | 40p | 100 p |

**Instructor**: Esenalieva Zh. A., phone number–0777490396, room number-301,every day- from 8.00 untill 17.00.

Osh – 2023

1. **Goals of the Course**

- To acquire the knowledge, skills and competencies that are required to evaluate and treat patients with acute and chronic medical conditions commonly found in the adult at a level consistent with a graduating generalist medical student.
- To develop the physical examination and clinical skills required of a graduate medical student in general internal medicine practice, including the ability interpret information relative to normal and abnormal structure, function and physiology.
- To apply historical and clinical information for problems solving to advance the health of the patient.
- To develop the psycho-social and communication skills and competencies that are required to communicate with, and treat a wide diversity of patients in acute, outpatient and institutional settings.
- To develop the ability to research medical literature and scientific resources for information that affects the patient's condition, treatment and outcomes and the ability to evaluate and apply scientifically valid information to maximize the outcome of the patient.
- To develop knowledge, skill application and understanding of the indications, contraindications and application of medical procedures and therapies common to the specialty, including but not limited to ordering and interpretation of diagnostic studies, utilization of pharmacological agents, psychological and nutritional therapies.

**. Learning outcomes of the course**

In the course the student will achieve the following learning outcomes:

***Know and understand:***

- etiology, pathogenesis and prevention of the most common diseases; classification of diseases;
- clinical features, characteristics and possible complications of the most common diseases occurring in a typical form in different age groups;
- diagnostic methods, methods of clinical, laboratory instrumental examination of patients (including endoscopic, X-ray methods and ultrasound diagnostics);
- criteria diagnosis of various diseases; methods of treatment;
- Pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of major pathological syndromes of diseases and emergency conditions;

***At the end of these course students able to:***

- Use clinical reasoning to synthesize data into a prioritized differential diagnosis, working diagnosis, and plan.
- Review the pathophysiology and be able to recognize and initiate evaluation and management plans for the common disease of internal disease.
- Review the scope and prevalence of medical error in our current health care system.
- The student will be able to learn the causes for error (communication, latent and active errors, etc) and methods to report and improve patient safety.
- Improve patient safety and clinical care through consistent and effective handoffs and signouts.
- Demonstrate knowledge of, and utilize, effective methods of acquiring and exercising evidence based practice through articulating foreground questions and gain practice at answering these questions through the use of vetted systematic reviews.

## 2. Table of formed competencies

| **Code of the results of the general education curriculum and its formulation** | **Code and formulation of competencies** *(ГОС 2015)* | **Learning outcome of course and its code** |
|---|---|---|
| **LO -5** - Able to apply fundamental knowledge in assessing the morphofunctional and physiological states of the body for the early diagnosis of diseases and the identification of pathological processes. | PC-3<br>- able to collect patient anamnesis; provide physical examination, interpret results of laboratory and instrumental studies, write a medical card of adult and child patients. | **LOc- 1**<br>able to analyze the regularity of functioning of individual organs and systems, use knowledge of anatomical and physiological features, and know how to implement fundamental knowledge in assessing morphofunctional and physiological states of the body for the early diagnosis and the identification of pathological processes. |
| **LO-7**<br>Able to apply basic knowledge in the diagnostic activities to solve professional cases. | **PC-11**<br>- able and ready to make a diagnosis based on the results of biochemical and clinical studies, taking according to of the pathology in organs and systems.<br>**PC-13**<br>- able to identify the main pathological symptoms and disease syndromes in patients, using knowledge of the basics of biomedical and clinical disciplines, in assessing the course of pathology in organs, body systems in general, analyze patterns of functioning of organs and systems in various diseases and pathological processes, use an algorithm diagnosis (main, concomitant, complications), ICD-10, to carry out the main diagnostic measures to identify urgent and life-threatening | **LOc-2: be** able to perform basic therapeutic measures in the most common diseases and conditions in the adult population and be able to implement fundamental knowledge (anatomical, topographical and histophysiological rationale) and the basics of physical examination. |
| **LO-8:** able to provide the algorithm preliminary diagnosis, clinical and final diagnosis, the providing of therapeutic measures of the most common | **PC-14**<br>- able to management patient in case of common diseases of internal medicine. | **LOc-3**: able to make and prescribe treatment plan in common diseases of internal organ. |

| | | |
|---|---|---|
| diseases and the provision of first aid for emergency and life-threatening conditions of children and adolescents. | | |
| **LO-11**: able to apply basic knowledge in the field of research activities to solve professional problems | **PC-27**<br>-ready to study scientific and medical information, domestic and foreign experience on the research topic.<br>**SLC-3**<br>-able to analyze medical information based on the principles of evidence-based medicine; | **LOc-3** : able to make a differential diagnosis based on the principles of evidence-based medicine and make a diagnosis<br>• Select groups of drugs for differentiated treatment, taking into account the evidence of the chosen method of treatment<br>• Apply scientific and medical information in clinical practice. |

**3. Prerequisites:** - Latin language, biochemistry, biology, normal anatomy, normal physiology, pathological physiology, pharmacology, internal diseases 1, surgical diseases 1.
**4. Post requisites:** Internal diseases 3, 4, surgical diseases 2, pediatrics 2, obstetrics and gynecology, family medicine, clinical pharmacology, neurology, family medicine and other clinical disciplines

## *5. TECHNOLOGICAL CARD OF DISCIPLINE*

| ***Modules*** | *Total* ***hours*** | | ***Lectures*** | | ***Practical*** | | ***IWS*** | | ***Landmark control*** | ***Final control*** | ***Points*** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Practica* | *IWS* | *Hours* | *Points* | *Hours* | *Points* | *Hours* | *Points* | | | |
| ***I*** | *55* | *40* | *22* | *30* | *33* | *30* | *40* | *30* | *30p* | | *30* |
| ***II*** | *20* | *35* | *8* | *30* | *12* | *30* | *35* | *30* | *30p* | | *30* |
| ***Final control*** | *75* | *75* | | | | | | | | *40p* | *40* |
| ***Total :*** | ***75h*** | ***75h*** | ***30h*** | ***30p*** | ***45p*** | ***30p*** | ***75h*** | ***60p*** | ***30h*** | ***40p*** | ***100p*** |

## 6. Technological table of the discipline Internal medicine

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***T-1*** | ***1*** | ***30*** | ***CC1*** | ***Lecture*** | ***SWS*** | ***T-15*** | ***1*** | ***30*** | ***CC 2*** | ***Lecture*** | ***SWS*** |
| ***T-2*** | ***1*** | ***30*** | ***30*** | ***30*** | ***30*** | ***T-16*** | ***1*** | ***30*** | ***30*** | ***30*** | ***30*** |
| ***T-3*** | ***1*** | ***30*** | | | | ***T-17*** | ***1*** | ***30*** | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *T-4* | *1* | *30* | | | | *T-18* | *1* | *30* | | | |
| *T-5* | *1* | *30* | | | | *T-19* | *1* | *30* | | | |
| *T-6* | *1* | *30* | | | | *T-20* | *1* | *30* | | | |
| *T-7* | *1* | *30* | | | | *T-21* | *1* | *30* | | | |
| *T-8* | *1* | *30* | | | | *T-22* | *1* | *30* | | | |
| *T-9* | *1* | *30* | | | | | | | | | |
| *T-10* | *1* | *30* | | | | | | | | | |
| *T-11* | *1* | *30* | | | | | | | | | |
| *T-12* | *1* | *30* | | | | | | | | | |
| *T-13* | *1* | *30* | | | | | | | | | |
| *T-14* | *1* | *30* | | | | | | | | | |

1. **current control**

$$\frac{\textit{sum of points } CC \textit{ of each class}}{\textit{Number of classes}}$$

2. **Chart of collection points for summary control**

- *30p for practical class,*
- *30p for lecturer,*
- *30p for SWS, thereafter summarize and* identify arithmetic mean sum

- ***Exsample:*** $CW = \frac{Lec(30p) + prac(30p) + SWS\ (30p)}{3} = 30p$

3. **Module1 (30p) sum of points**

$$\frac{\textit{Current control} + \textit{points } CW1}{2}$$

4. **Module 2 (30) sum of points**

$$\frac{\textit{Current control} + \textit{points } CW2}{2}$$

**7. Brief description of the discipline**

**Topic 1. Gastroesophageal reflux disease(GERD) Erosion and peptic ulcer of the esophagus. Barretts esophagitis. Achalasia of the esophagus.**

Definition. Epidemiology. Etiology (risk factors). Pathogenesis. Classification. Clinical picture. Data from laboratory and instrumental studies. Diagnostics. Treatment. Prevention. Forecast. Complications and their treatment.

**Topic 2-3. Chronic gastritis. Duodenitis. Peptic ulcer and duodenal ulcer diseases.** Definition. Etiology (leading exogenous and endogenous factors, the role of Helicobacter pylori). Pathogenesis (the significance of the violation of the secretory and motor function of the stomach). Clinic. (Classification by morphological, functional and etiological principles). Chronic gastritis with secretory insufficiency and chronic gastritis with preserved and increased secretion. Clinical features. Diagnosis. X-ray, endoscopic studies, the possibilities of gastrobiopsy. Evaluation of the secretory function of the stomach. Flow. Complications. Treatment. Diet. Drug therapy.