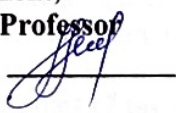
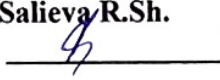


MINISTRY OF EDUCATION AND SCIENCE OF KYRGYZ REPUBLIC  
Osh State University  
International Medical Faculty

Department of "Clinical disciplines 1"

"Approved"  
at the conference of the  
department  
"Clinical disciplines 1"  
Protocol № 1  
of « 29 » 08 2022y.  
head of department,  
PhD, Associate Professor  
SM Mamatova 

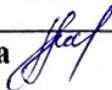
"Agreed"  
by Head of Educational  
Methodical Department  
Salieva R.Sh.  



ACADIMIC PROGRAM  
(SYLLABUS)  
4th Year Internal Medicine 2  
Specialty: General medicine – "560001"

Total: 5 credits  
Semester: VII  
Lectures: 30 hours  
Practice: 45 hours  
Independent work of students: 75 hours  
Exam: 8th semester  
Total classroom hours: 75 hours  
The total complexity: 150 hours

Syllabus prepared on the basis of state standard SES-3, and the work program of Internal  
Medicine2

---

Compilers: PhD, Associate Professor S.M. Mamatova 

Instructors: PhD, Associate Professor Tajibaeva F. R., Esenalieva Zh.A., Temirov Ch.T.,  
Karabekova N.M. 

Osh – 2022y.

## 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 (FOC 2015)	Learning outcome of course and its code
<p><b>LO -5</b> - 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.</p>	<p><b>PC-3</b></p> <ul style="list-style-type: none"> <li>- able to collect patient anamnesis; provide physical examination, interpret results of laboratory and instrumental studies, write a medical card of adult and child patients.</li> </ul>	<p><b>LOc- 1</b></p> <p>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.</p>
<p><b>LO-7</b></p> <p>Able to apply basic knowledge in the diagnostic activities to solve professional cases.</p>	<p><b>PC-11</b></p> <ul style="list-style-type: none"> <li>- 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.</li> </ul> <p><b>PC-13</b></p> <ul style="list-style-type: none"> <li>- 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</li> </ul>	<p><b>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.</b></p>
<p><b>LO-8:</b> able to provide the algorithm preliminary diagnosis, clinical and final diagnosis, the providing of therapeutic measures of the most common</p>	<p><b>PC-14</b></p> <ul style="list-style-type: none"> <li>- able to management patient in case of common diseases of internal medicine.</li> </ul>	<p><b>LOc-3:</b> able to make and prescribe treatment plan in common diseases of internal organ.</p>

diseases and the provision of first aid for emergency and life-threatening conditions of children and adolescents.		
--	--	--

**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		Lan dma rk cont rol	Fina l cont rol	Points
	Practi ca	IWS	Hou rs	Poin ts	Hou rs	Poin ts	Hou rs	Poin ts			
<b>I</b>	55	40	22	30	33	30	40	30	30p		30
<b>II</b>	20	35	8	30	12	30	35	30	30p		30
<b>Final control</b>	75	75								40p	40
<b>Total :</b>	<b>75h</b>	<b>75h</b>	<b>30h</b>	<b>30p</b>	<b>45p</b>	<b>30p</b>	<b>75h</b>	<b>60p</b>	<b>30h</b>	<b>40p</b>	<b>100p</b>

### 6. Technological table of the discipline Internal medicine

T-1	1	30	CCI	Lecture	SWS	T-9	1	30	CC 2	Lecture	SWS
T-2	1	30	30	30	30	T-10	1	30	30	30	30
T-3	1	30				T-11	1	30			
T-4	1	30				T-12	1	30			
T-5	1	30				T-13	1	30			
T-6	1	30				T-14	1	30			
T-7	1	30				T-15	1	30			
T-8	1	30									

**1. current control**  
*sum of points CC of each class*  
 -----  
*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

$$\bullet \text{ Example: } CW = \frac{\text{Lec}(30p) + \text{prac}(30p) + \text{SWS}(30p)}{3} = 30p$$

3. Module1 (30p) sum of points

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

4. Module 2 (30) sum of points

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

## 7. Brief description of the discipline

**Topic 1. 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.

**Topic 2. Chronic enteritis and colitis.** Nonspecific ulcerative colitis. Etiology. Pathogenesis. Clinic. Diagnostics. Outcomes. Treatment. Diseases of the large intestine. Definition. Etiology. Pathogenesis. The meaning of dysbiosis. Clinic. Diagnosis. modern approaches to diagnosis. The role of radiography and endoscopic studies. Treatment. Modern approaches to treatment Diet. Drug therapy.

**Topic 3. Chronic hepatitis.** Etiology (viral infection, alcohol, industrial hazards, medicines). Pathogenesis. The role of persistence of the virus and immunological disorders. Morphology. Classification: persistent, active, cholestatic hepatitis, symptomatology. Features of the flow of various forms. Clinical and laboratory (inflammation, cytolysis, cholestasis, cell failure) diagnostic tests. Current issues in diagnosis. The value of puncture liver biopsy, ultrasound, radionuclide and immunological methods of investigation. Differential diagnosis with fatty liver dystrophy, benign hyperbilirubinemia (Gilbert syndrome, Dabin-Johnson syndrome, Rotor syndrome). The course and outcome of the disease. Treatment. Indications for the use of corticosteroids and immunosuppressive drugs. Methods of extracorporeal detoxification (hemisorption, plasmapheresis).

**Topic 4. Cirrhosis of the liver.** Definition. Etiology (infectious, nutritional factors, the role of alcohol and toxic substances). Pathogenesis. The role of immunological disorders. Classification. Features of the clinic, the course and laboratory-diagnostic tests of macronodular, micronodular and biliary cirrhosis. Modern approaches to diagnosis. The role of ultrasound and endoscopy in diagnosis. Complications. Treatment. Modern approaches to treatment. Diet. Antiviral treatment. Medications. Indications for use of immunosuppressive drugs, hepatoprotectors. Treatment of complications.

**Topic 5. Chronic cholecystitis. Cholelithiasis. Chronic pancreatitis.** Definition. Etiology (gallstones, tumor, bile duct blockage, infection.). Pathogenesis. Blockage of the cystic duct by a