

Kharkiv National Medical University  
Faculty: VI Faculty for Training of Foreign Students of the Educational and  
Scientific Institute for the Training of Foreign Citizens  
Department of Internal Medicine № 3 and Endocrinology  
Area of knowledge "22" Health care  
Specialty "222" Medicine  
Educational and professional program of the second level of higher education

## **SYLLABUS OF THE COURSE**

### **"PRACTICAL MEDICAL TRAINING IN INTERNAL MEDICINE"**

The syllabus was approved at the meeting of  
the Department of Internal Medicine №3  
and endocrinology

Protocol № 13 from “28” August 2020

Head of Department  
\_\_\_\_\_ prof. Zhuravlyova LV

The syllabus is approved by  
methodical commission of KhNMU  
on problems of professional training of  
therapeutic profile

Protocol №\_\_ from «\_\_»\_\_\_\_2020

Head  
\_\_\_\_\_prof. Kravchun P.G.

## NAME OF THE COURSE:

Practical medical training in internal medicine

### Syllabus compilers:

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Website of the department: <http://vnmed3.kharkiv.ua/>.

Class schedule: Monday, Tuesday, Wednesday, Thursday, Friday (8.45-12.20 - first shift, according to the schedule).

Location: classrooms of the Department of Internal Medicine №3 and endocrinology on the basis of Communal Non-profit Enterprise of Kharkiv Regional Council "Regional Clinical Hospital" (Kharkiv, Independence Ave. 13).

## Discipline information

### 1. Description of the discipline

4th year.

Semesters VII and VIII, 4th academic year.

Scope of the discipline:

Credits - 1.4

The total number of hours is 42.

Hours for training: classroom - 8, self-learning - 34.

Practical classes 8 hours.

Self-learning 34

Type of control: credit.

General characteristics of the discipline: The discipline "Practical medical training in internal medicine" is designed for 4th year students.

Page in Moodle: <http://31.128.79.157:8083/course/index.php?categoryid=14>.

2. **The purpose and objectives of the discipline.** The purpose of teaching the discipline is to consolidate practical skills within the goals defined in the educational and professional training program for the specialties "Medical Affairs" 7.12010001, "Pediatrics" 7.12010002.

Завданням практики є закріплення знань і умінь, одержаних при вивченні внутрішньої медицини і подальше удосконалення практичних навичок.

3. **Status and format of the discipline.** The discipline is selective, the format is mixed.

4. **Teaching methods:** a) practical classes, b) self-learning, c) consultations.

5. **Recommended Books:**

1. Internal medicine: A guide to a general practitioner: a textbook. Svintsitsky, OO Abrahamovych, PM Bodnar and others; For order. prof. A.S. Svintsitsky. - VSV "Medicine", 2014. -1272 p. + 16s. colors. incl.
  2. Gastroenterology. Textbook: In 2 T. -Vol.1 / ed. Prof. NV Kharchenko., O.Ya. Babaka. -Kirovograd: Polyum, 2016. -488 p.
  3. Gastroenterology. Textbook: In 2 T. -Vol.2 / ed. Prof. NV Kharchenko., O.Ya. Babaka. -Kirovograd: Polyum, 2017. -432 p.
  4. Endocrinology: textbook (PM Bodnar, GP Mikhalchyshyn, YI Komisarenko, etc.), Ed. Professor P.M. Bodnara, -Vid. 4, reworked. and ext. -Vinnytsia: Nova Kniga, 2017. -456 p.
  5. Davidson's Principles and Practice of Medicine 23rd Edition. Editors: Stuart Ralston, Ian Penman, Mark Strachan Richard Hobson. Elsevier. -2018. -1440p.
  6. Endocrinology: textbook by prof. Petro M. Bodnar.-4th ed. updated -Vinnitsa: Nova Knyha, 2017. -328 p.
  7. Principles and Practice of Infectious Diseases. 2-Volume set/J.E. Bennet, R. Dolin, M.J. Blaser -8-th edition : Saunders Publisher, 2014.
  8. USMLE Step 2 CK Lecture Notes 2017: Internal Medicine(Kaplan Test Prep). -2016. -Published by Kaplan Medical. -474 pages.
- Website of the Department of Internal Medicine № 3 KhNMU <http://www.vnmed3.kharkiv.ua/>, встановлене інформаційно-освітнє середовище Moodle на піддомен сайта <http://distance-training.vnmed3.kharkiv.ua>.

**6. Prerequisites and co-requisites of the discipline.** Anatomy, physiology, histology, pathological anatomy, pathological physiology, propaedeutics internal medicine; clinical pharmacology, surgery, pediatrics.

## **7. Learning outcomes.**

### **The list of acquired knowledge:**

- • clinical syndromes "alarm" symptoms of diseases of internal organs;
- • etiopathogenetical mechanisms of development, classification, peculiarities and complications;
- • standards and protocols for diagnosis, treatment algorithms for diseases of internal organs.

### **The list of acquired skills and knowledge:**

- Survey and physical examination of patients.
- Determination of etiological and pathogenetic factors of diseases.
- Analysis of the typical clinical picture of the most common diseases.
- Identification of clinical variants and complications of major diseases of the internal organs.
- Formulation of a preliminary diagnosis of major diseases of the internal organs, drawing up a plan for examination of the patient.
- Make a differential diagnosis, formulate a clinical diagnosis.
- Determine the tactics of the patient and prescribe treatment, assess the prognosis and performance of major diseases of the digestive, respiratory, blood and hematopoietic organs, endocrine system.
- Diagnose and treat patients in emergencies.

- Prevent major diseases of the digestive, respiratory, blood and hematopoietic organs, endocrine system.
- Perform medical manipulations.
- Have the principles of medical professional and professional subordination.
- Keep medical records.

*Curation of the patient involves:*

- clarification of patient complaints, anamnesis of disease and life survey for organs and systems;
- physical examination of the patient and determine basic symptoms;
- analysis of laboratory and instrumental examination data;
- formulation of the diagnosis;
- appointment of treatment;
- identify measures of primary and secondary prevention;
- report the results of examination of the patient.

### **The content of the discipline**

#### **Curriculum**

#### **Oriented structure test credit of Internal Medicine**

<b>№ з/п</b>	<b>The content of practical training</b>	<b>Number of hours</b>
	The main duties and professional actions of hospital medical therapeutic department	
1	Principles of organization of planned emergency therapeutic care in Ukraine	2
2	Survey and physical examination of patients with major diseases of the respiratory, digestive, hematopoietic and endocrine systems	8
3	Interpretation of laboratory and instrumental research methods in the clinic of internal medicine	8
4	Substantiation and formulation of the diagnosis of major diseases of the respiratory, digestive, hematopoietic organs and endocrine system	8
5	Treatment, primary and secondary prevention of major diseases of the respiratory, digestive, hematopoietic and endocrine systems	9
6	Providing emergency care in an internal medicine clinic	5
7	Principles of ethics and deontology in the practice of the doctor of the therapeutic department	2
	<b>Total hours</b>	<b>42</b>
	<b>ECTS credits</b>	<b>1,4</b>

#### **Individual tasks**

Preparation and report of the abstract at the lesson, report at clinical conferences, report of medical history, writing abstracts, articles.

#### **Policies and values of discipline**

It is necessary to start work from the first day; attend regularly, do not be late and do not miss classes to achieve learning goals and successfully complete the course.

Students with special needs should meet with the teacher or warn him before the start of classes, at the request of the student it can be done by the head of the group.

If you have any questions, please contact the teacher.

### Evaluation policy

The current control of students is carried out by supervisors - teachers of practice. Ongoing monitoring is carried out in accordance with the specific objectives of the program and is assessed on a daily basis according to the traditional assessment. The final score is defined as the arithmetic mean and is converted into a multi-point scale according to table.1

**Table 1.**

### **Recalculation of the average score for current activities in a multi-point scale**

4-point scale	120-point scale	4-point scale	120-point scale
5	120	3.91-3,94	94
4.95-4,99	119	3.87-3,9	93
4.91-4,94	118	3.83- 3,86	92
4.87-4,9	117	3.79- 3,82	91
4.83-4,86	116	3.74-3,78	90
4.79-4,82	115	3.7- 3,73	89
4.75-4,78	114	3.66- 3,69	88
4.7-4,74	113	3.62- 3,65	87
4.66-4,69	112	3.58-3,61	86
4.62-4,65	111	3.54- 3,57	85
4.58-4,61	110	3.49- 3,53	84
4.54-4,57	109	3.45-3,48	83
4.5-4,53	108	3.41-3,44	82
4.45-4,49	107	3.37-3,4	81
4.41-4,44	106	3.33- 3,36	80
4.37-4,4	105	3.29-3,32	79
4.33-4,36	104	3.25-3,28	78
4.29-4,32	103	3.21-3,24	77
4.25- 4,28	102	3.18-3,2	76
4.2- 4,24	101	3.15- 3,17	75
4.16- 4,19	100	3.13- 3,14	74
4.12- 4,15	99	3.1- 3,12	73
4.08- 4,11	98	3.07- 3,09	72
4.04- 4,07	97	3.04-3,06	71
3.99-4,03	96	3.0-3,03	70
3.95- 3,98	95	Less 3	Not enough

One of the activities of the student and his control by the head of practice is keeping a Diary of practice, which is filled out by the student after each day of practice and signed by the head of practice, head of the department and/or head of medical base. At the end of the practice, the student fills out a consolidated digital report on the work performed. The presence of a completed and certified signature by the practice leaders of the Diary and the Consolidated Digital Report is mandatory for the admission of the student to the differentiated test.

Filling the consolidated report on the digital internal medicine makes it possible to evaluate correctly the current educational activity of student, with a minimum score performed by the student practical skills is 70 points, the maximum - 120 points. Upon receipt of 70 points for practical skills, the student is admitted to a differentiated test.

### **Grade from the discipline:**

The practice grade is given only to students who have completed the practice program, have properly completed reporting documents (Diary and Consolidated Digital Report) and received at least 70 points for current activities, as well as passed a differentiated test and scored at least 50 points. Assessment for practice is the sum of points for current activities and differentiated credit. The maximum number of points that a student can receive for practice is 200.

Grades "**unsatisfactory**" are given to students who were admitted to the differentiated test, but did not pass it and who were not admitted to the differentiated test.

### **Diary of practice in internal medicine (sample)**

Student \_\_\_\_\_ Faculty \_\_\_\_\_

Course \_\_\_\_\_ group \_\_\_\_\_

Practice time: from \_\_\_\_\_ 2020 to \_\_\_\_\_ 2020

Place of practice: \_\_\_\_\_

Base manager \_\_\_\_\_

Date, time	Content of work performed	Skill completed
	Participation in the organizational meeting	
	Presence in the analysis of esophagogastroduodenoscopy, etc.	The discussion on the state of the gastric mucosa, data interpretation endoscopy
	Presence in the analysis of X-ray examination of the lungs	Interpretation of the data beam studies of the chest cavity
	Consideration of situational tasks (5 patients). 1. Patient N., 60 years old. D-z: Bronchial asthma, persistent severe. Diffuse pneumosclerosis. Pulmonary emphysema. DN II st. This is supported by ... Examination ... Treatment ... 2. . Patient V., 55 years old. D-z: Duodenal ulcer (Hp - positive acute duodenal ulcer), moderate course, exacerbation phase, duodenitis. This is evidenced by ... Examination ... Treatment ... etc.	Physical examination of 5 patients. Description of the patient who was hospitalized for the first time.

## Consolidated digital report on the practice in internal medicine (current control)

Student \_\_\_\_\_ 4th year  
I medical faculty \_\_\_\_\_ group \_\_\_\_\_

No.	List of skills and abilities	Number of skills	Completed
1	The order of examination of the patient, substantiation and formulation of the clinical diagnosis, registration of case histories.	15-20	
2	Daily discussion of clinical cases.	30-40	
3	Discussion of emergency medical care in emergencies in: Addison's crisis, hypoglycemic coma, diabetic ketoacidotic coma, thyrotoxic crisis, esophageal and gastrointestinal bleeding, biliary colic, acute hepatic encephalopathy, acute dystonia	3-5	
4	Determination of BP, heart rate and measurement of AT	35-40	
5	Evaluation of clinical, biochemical, immunological and bacteriological studies of blood, urine, feces, sputum, gastric juice and duodenal contents, pHmetry	20-25	
6	Evaluation of carbohydrate metabolism	15-20	
7	Evaluation of the results of the study of Helicobacter pylori	3-5	
8	Evaluation of general analysis of sputum punctate and cytological examination of lymph node biopsy	1-3	
9	Evaluation of microbiological research of biological fluids and secretions	1-3	
10	ECG analysis	15-20	
11	Analysis of external respiration function data	1-3	
12	Analysis of radiograph data	5-10	
13	Analysis of endoscopic examination data	5-10	
14	Analysis of echocardiography, ultrasound of the abdominal cavity, adrenal glands and thyroid gland	5-10	

Signature of the head of practice \_\_\_\_\_

The teacher gives the student the number of points and the corresponding grade in the record book and fills in the student's performance after completing the discipline. Grades "unsatisfactory" are given to students who were admitted to the test, but did not pass it and who are not admitted to the test.

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