DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

Department of Internal Medicine N 1 Department of Internal Medicine N 2

Approved Rirst Vice-Rector for scientific and pedagogical work Assoc. prof. Iryna SOLONYNKO 30 2023

WORK PROGRAMME OF THE EDUCATIONAL DISCIPLINE Modul 1 "Internal medicine" Individual professional course "Obstetrix and gynecology" BE 3.2.2.

6 years of study

training of specialists of the second (master's) level of higher education Field of Knowledge 22 "Health care" specialties 222 "Medicine"

Discussed and approved on the methodical meetings of the Departments of Internal Medicine N 1 and Internal Medicine N 2 protocol N 9 dated 18.04.2023

Head of the Department of Internal Medicine N 1 2'117M ABRAHAMOVYCH

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INTRODUCTION

The program of study of the discipline "Obstetrix and gynecology" is made according to: the educational professional program (EPP) of preparation of experts of the second (master's) level of higher education

Field of knowledge 22 "Health care" specialty 222 "Medicine"

Description of the discipline (abstract)

According to the Curriculum, the end-to-end discipline "Internal medicine" is carried out in 6 course. The organization of the educational process is carried out according to the European credit transfer system of the organization of the educational process (ECTS).

The program of "Internal medicine" in the 6-th year involves the study of the basics of internal medicine in its main sections (cardiology, pulmonology, gastroenterology, rheumatology, nephrology, hematology, emergency conditions). Emphasis is placed on the study of etiology, pathogenesis, clinic, diagnosis, treatment and prevention of major and most common diseases of the internal organs, as well as improving practical skills, including a clinical and physical examination of the patient, identification of basic symptoms and syndromes, clinical and diagnostic interpretation standard and additional laboratory and instrumental studies in normal and pathology, differential diagnosis according to the syndrome and nosological principles, determining the tactics of emergency care in case of emergencies, principles of treatment, planning a prevention strategy and prognosis, as well as medical manipulations.

Approximate duration of practical classes - 6.0 hours. The main purpose of this course is to teach students the basics of internal medicine. Students participate in the diagnostic and treatment process of patients under the guidance of teachers of the department. It is also provided to master / get acquainted with the procedures most often used in the practice of internal medicine. Practical classes, clinical tours with assistants, associate professors and professors of the department are the main part of this course. Each student records and reports the clinical results of the patient's examination to the assistant on a daily basis and writes a patient card. Types of classes according to the curriculum are a) practical classes, b) independent work of students.

Thematic plans of practical classes and independent work reveal the problematic issues of the relevant sections of internal medicine.

Practical classes are held on the clinical basis of the department. Methods of organizing practical classes in internal medicine require:

- to make the student a participant in the process of providing medical care to patients from the moment of their hospitalization, examination, diagnosis, treatment to discharge from the hospital;

- to master professional practical skills; skills of teamwork of students, doctors, other participants in the process of providing medical care;

- to form in the student, as in the future specialist, an understanding of responsibility for the level of their training, its improvement during training and professional activities.

For the implementation of the relevant module specified in the first lesson, it is necessary to provide the student with a detailed plan of work in the clinic and provide conditions for its implementation. This plan should include:

- research that the student must master (or get acquainted with);

- algorithms (protocols) of examinations, diagnosis, treatment, prevention following the standards of evidencebased medicine;

- supervision of patients to be carried out by the student during the study of the discipline;

- reports of the patient's medical history in the study group, at clinical rounds, practical conferences.

Patient management involves:

1) clarification of the patient's complaints, medical history and life, surveying organs and systems;

2) conducting a physical examination of the patient and determining the main symptoms/syndromes of the disease;3) analysis of the results of laboratory and instrumental research;

4) diagnosis;

5) appointment of treatment;

6) determination of primary and secondary prevention measures;

7) report on the results of the examination of the patient by a team of students in the study group, analysis under the guidance of the teacher of the correctness of diagnosis, differential diagnosis, scheduled examination, treatment tactics, assessment of prognosis and performance, prevention.

It is recommended to conduct practical classes with the inclusion of:

1) control of the initial level of knowledge with the help of test questions, compiled in the format of a question with 5 answer options, of which 1 - correct and checking workbooks;

2) management of 1-2 patients with diseases and conditions corresponding to the subject of the lesson, followed by discussion of the correctness of diagnosis, differential diagnosis and treatment with the use of evidence-based medicine and in accordance with National and European guidelines and protocols;

3) consideration of the results of additional research methods (laboratory and instrumental) used in the diagnosis and differential diagnosis, consideration of which is provided by the topic of practical training;

4) control of the final level of knowledge on the test tasks made in the A format.

During the practical classes, students are recommended to keep protocols, in which it is necessary to enter brief information about the patients examined during the practical lesson, diagnosis, examination plan and prescribed treatment.

Independent and individual work of students is 21% of the curriculum, is an integral part of educational activities and is included in the ECTS credits of each module and discipline as a whole. It includes:

- preparation for practical classes;
- implementation and protection of ISRS;
- preparation and writing of medical history;
- mastering practical skills;
- preparation for final control;
- writing a workbook on the topic of the lesson.

Teachers of the department provide an opportunity to carry out independent work. During practical classes and final control, control and evaluation of its implementation are carried out.

The Department of Internal Medicine has the right to make changes to the curriculum within 15%.

Assimilation of the topic (current control) is controlled in practical classes, assimilation of content modules (intermediate control) - in practical final classes. It is recommended to use the following tools to assess the level of student preparation: test tasks, solving situational problems, conducting laboratory tests and evaluating their results, analysis and evaluation of instrumental research and parameters that characterize the functions of the human body, control of practical skills and medical manipulations.

The final control is made at the last practical lesson to the teacher of the department according to the schedule approved at the educational and methodical meeting of the department. Assessment of student success in the discipline is a rating and is set on a multi-point scale, taking into account the assessment of the mastery of individual modules.

For those students who want to improve their grades in the discipline, upon completion of the study of the discipline, the curriculum provides a deadline for repass.

The structure of the	Number of credits, hours		Classroombased		
educational discipline	Total	Lectures (hrs)	Practical studies (hrs)	Ind. Stud.	control
Discipline "Internal medicine" Individual cross-sectional cours "Obstetrix and gynecology"	8 credits / 240 hrs.	0	120	120	credit

The subject of study is etiopathogenesis, diagnosis, treatment, prevention and emergency care in the clinic of internal medicine.

Interdisciplinary links: based on students' study of human anatomy, medical biology, histology, cytology and embryology, pathomorphology, physiology, pathophysiology, medical and biological physics, bioorganic and biological chemistry, microbiology, virology and immunology, pharmacology, clinical pharmacology, radiology and radiation medicine, propaedeutics of internal medicine.

Discipline	Know		
Normal anatomy	Anatomical features of the cardiovascular and pulmonary systems, small and large circulatory		
	system, the structure of the vascular wall, nephron, kidneys, urinary tract, adrenal glands and		
	other endocrine glands; features of heart blood supply; myocardial innervation; structure of		
	sympathetic and parasympathetic nervous systems; the leading system of the heart.		
	Anatomical structure of the digestive system (esophagus, stomach, duodenum, colon and		
	small intestine, liver and biliary tract, pancreas), its blood supply, innervation, function.		
	Anatomical structure of the human skeleton, joints, joint surface, synovial membrane.		
	Anatomical features of hematopoietic organs and vascular structure of different calibers.		
	Anatomical structure of the lymphatic system.		
Topographic anatomy	Location and projection of the heart, valvular apparatus of the heart.		
	Topography of vessels and nerves.		
	Topography of the respiratory system (mutual location of bronchi, lungs, pulmonary vessels,		
	pleura)		
	Topography of the digestive system (mutual location of the organs of the gastroduodenal		
	zone, hepato-duodenal zone (liver, gallbladder), small and large intestines)		
	Topography of bones, muscles and joints.		
	Location of the kidneys, ureters, bladder relative to other organs of the abdominal cavity.		
Pathological anatomy	The structure of fibrous plaque; morphological substrate of atherosclerosis.		
	Macroscopic and microscopic changes in the case of acute coronary artery occlusion of		
	atherosclerotic origin.		

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	Atherosclerotic changes of coronary arteries, ischemic changes in the myocardium.
	Pathological and anatomical features of pulmonary embolism and pulmonary heart disease.
	Cellular changes of heart valves of infectious origin and changes of pericardium in case of
	inflammatory processes of various etiology.
	Cellular changes of the myocardium in the case of inflammatory processes.
	Myocardial morphology in the case of different types of heart block, depending on the
	organic damage to the heart.
	Changes in the structure of the wall of bronchopulmonary tissue in the case of bronchial
	asthma, pneumonia, pleurisy, changes in the lung parenchyma in case of pulmonary
	insufficiency.
	Inflammatory and anatomical changes of the mucous membrane of the esophagus and
	stomach (superficial, diffuse antral, interstitial, hypersecretory, type B, type A, diffuse
	changes in the body of the stomach associated with pernicious anemia, reactive reflux
	gastritis, type C, peptic ulcers); morphological changes in the case of irritable bowel
	syndrome, Crohn's disease, nonspecific ulcerative colitis; mechanism of symptoms of acute
	and chronic cholecystitis, gallbladder dyskinesias, gallstone disease; anatomical changes that
	can cause liver cirrhosis and pathogenetic mechanisms of various liver cirrhosis syndromes;
	mechanism of symptoms of chronic pancreatitis and pancreatic cancer.
	Anatomical changes in the diencephalon, endocrine glands, internal organs.
	Pathological and anatomical features
	congenital anemia, acute leukemia and chronic leukemia, lymphoma.
	Morphological changes of connective tissue in the case of specific and nonspecific
	inflammation.
	Anomalies of bone formation.
	Pathological and anatomical features of gout.
	Pathological and anatomical features of ankylosing spondylitis and reactive arthritis.
	Pathological and anatomical features of renal amyloidosis and glomerulonephritis.
	Pathological and anatomical features of pyelonephritis, tubulointerstitial nephritis.
	Pathological and anatomical changes of the kidneys in the case of primary glomerular lesions.
Histology	Histological structure of the heart (pericardium, myocardium, endocardium), arterial and
	venous walls.
	The structure of the wall of the trachea, bronchi, alveoli in normal and pathology.
	Cellular structure of CO of the esophagus, stomach and duodenum, small and large intestines,
	walls of the gallbladder and bile ducts, microscopic structure of the liver and histological
	changes in normal and in case of pathology, morphological signs of CP and pancreatic cancer.
	Juxta-glomerular apparatus of the kidneys, histological structure of the endocrine glands.
	Morphological structure of connective tissue.
	Histological structure of bone, periosteum, cartilage, synovial membrane.
	Morphological features of erythrocytes, reticulocytes; microscopic structure of lymph nodes,
	lymphopoiesis; hemogram, myelocytogram normal and in the presence of leukemia;
NT	histological features of hematopoietic organs and vascular structure of different calibers.
Normal physiology	Mechanisms of blood pressure regulation.
	Functions of the sympathetic and parasympathetic nervous systems.
	Functions of the heart and its conduction system, arteries and veins.
	Basic methods of respiratory function control; physiological drainage; indicators of the function of automal respiration their value; functional state of gas auchange in the lunge
	function of external respiration, their value; functional state of gas exchange in the lungs.
	The main mechanisms that provide antireflux protection; functions of the stomach, duodenum, small and large intestines are normal; functions of the gallbladder, biliary tract,
	normal bilirubin metabolism and in the case of mechanical jaundice; features of blood supply, innervation of the liver, its functional activity; main endocrine and exocrine functions of the
	software.
	Functions of the pituitary gland, adrenal cortex, gonads.
	Physiological features of connective tissue.
	Function of joints, physiological age features of structure of bones and joints.
	Kidney function. The mechanism of formation of primary and secondary urine.
	Regulation of hematopoiesis, features of coagulant and anticoagulant system are normal.
Pathological	Pressor and depressor mechanisms.
physiology	The main causes of endothelial damage; risk factors for atherosclerosis; cholesterol theory of
Physiciogy	atherosclerosis; functional disorders of the nervous system.
	The mechanism of ischemic and necrotic changes in the myocardium.
	Mechanisms of dysfunction of the myocardium, coronary vessels and conduction system of
	the heart.
	Features of coagulant and anticoagulant system in case of pathology.
	Mechanisms and causes of pulmonary embolism.
	The mechanism of hemodynamic disorders in the case of infectious endocarditis.
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	The mechanism of hemodynamic disorders in the case of pericarditis.
	Impaired cardiac conduction.
	Mechanisms of acute and chronic heart failure. Causes and mechanisms of bronchial patency disorders of the bronchopulmonary system;
	mechanisms of lung abscess, lung gangrene and bronchiectasis and RF; types of hypoxia,
	mechanisms of their occurrence, main causes and pathogenesis of RF; indicators of
	pneumotachometry, spirography, peak flowmetry depending on the type and stage of
	ventilation failure.
	The main pathological factors of GERD; causes and mechanism of dysfunction of the
	stomach, small and large intestines, gallbladder of the biliary tract; features of pathogenesis of
	hepatitis, LC; dysfunction of endo- and exocrine functions of the pancreatic gland.
	Mechanisms of violation of the central regulation of metabolism, in particular fat, hydrocarbon, violation of intermediate metabolism.
	Mechanisms of autoimmune diseases.
	Causes and mechanisms of connective tissue dysfunction.
	Lesions of the musculoskeletal system due to genetic defects, as well as the negative impact
	of external and internal factors.
	Causes, mechanism of osteoarthritis.
	Causes, mechanism of gout.
	Causes, mechanism of arthritis and arthropathy. Pathological and anatomical features of renal amyloidosis and glomerulonephritis.
	Causes and mechanisms of kidney disease, disorders of water-electrolyte balance, protein and
	lipid metabolism.
	Causes and mechanisms of pathogenesis of kidney disease, leading to chronic kidney disease
	and acute kidney damage.
Microbiology	Characteristic of pathogens that are etiological factors of infectious endocarditis, pneumonia,
	pleurisy, peptic ulcer disease. Normal composition of the microflora of the small intestine and
	its changes according to different age groups; determination of intestinal dysbacteriosis; main
Biochemistry	pathogens of colon diseasesMetabolism and function in the body of folic acid, vitamin B12, iron; clinical assessment of
Biochemisuy	changes in biochemical parameters of blood in hemorrhagic diseases.
	Methods of clinical and laboratory research of blood oxygen balance.
	Structure and biosynthesis of the main metabolic processes occurring in the colon.
Clinical immunology	Types of immunological reactions. Methods for determining indicators of humoral and
and allergology	cellular immunity. Immunological methods for the diagnosis of connective tissue diseases.
Propaedeutics of	Semiotics of Secondary AH.
internal diseases	Semiotics of atherosclerosis and neurocirculatory dystonia. Symptoms of asthenic, tachycardia, cardiac, hypertensive, autonomic vascular syndromes.
	Semiotics of acute coronary syndrome and myocardial infarction.
	Symptoms of chronic forms of coronary heart disease.
	Symptoms of pulmonary embolism, acute, subacute and chronic drugs.
	Semiotics of acquired and congenital heart defects.
	Symptoms of infectious endocarditis.
	Semiotics of myocarditis, cardiomyopathies.
	Semiotics of pericarditis.
	Principles of operation of the electrocardiograph. Methods of electrocardiography and ECG decoding. Semiotics of arrhythmias.
	Clinical symptoms of heart block. Interpretation of changes in case of conduction disorders.
	Symptoms of acute and chronic heart failure.
	Examination of patients with shortness of breath (collection of complaints, medical history
	and life, objective examination of the respiratory and cardiovascular systems, analysis of the
	results of additional methods of examination); identification of the main symptoms and
	syndromes of bronchial obstruction, asthma, pneumonia, pleurisy and their complications;
	RF, stages, clinical features. The main symptoms of GERD, dyspepsia, chronic gastritis, clinical signs of gastric and
	duodenal peptic ulcer, complications of these diseases; clinical signs of celiac disease;
	examination of patients with lesions of the colon and small intestine; coprological research;
	detection of symptoms of cholecystitis, cholangitis, dyskinesias of the biliary tract by hypo-,
	hyper- and mixed type; physical examination of the liver and interpretation of basic studies of
	liver function; clinical symptoms of obesity
	Symptoms of rheumatism and SLE.
	Symptoms of systemic connective tissue diseases. Symptoms of systemic vasculitis.
	Methods of examination of joints, symptoms of rheumatoid arthritis.
	Symptoms of osteoarthritis.

	Symptoms and semiotics of gout. Symptoms that occur in the case of kidney disease, methods of laboratory and instrumental
	diagnosis.Symptoms and syndromes that occur in the case of CKD, acute kidney damage.Characteristic complaints, clinical syndromes in case of diseases of the hematopoietic system ability to collect anamnesis, identify special complaints, conduct clinical examinations of
	patients with diseases of the hematopoietic system; laboratory methods for assessing hematopoiesis in normal and in the presence of leukemia.
Oncology	Examination of a patient with hematooncological diseases; diagnosis of paraneoplastic
	reactions. Barrett's esophagus, cancerous and precancerous changes of the esophagus; clinical signs of gastric cancer, malignant and benign neoplasms of the colon, small intestine, benign and malignant tumors of the biliary system, cancerous and precancerous changes in the liver.
Roentgenology	 Radiological changes in the case of asthma, pneumonia, pleurisy. Radiological signs of esophageal motor dysfunction, GERD, ulcers, esophageal strictures, diaphragmatic esophageal hernias, tumors, shortening and abnormalities of the esophagus, gastritis and PU of the stomach and duodenum, gastric tumors, chronic enteritis, gluten enteropathy. Whipple disease, IBS and IBD, visualization of the pancreatic gland (ultrasound CT, MRI, angiography, scanning). Radiological stages of rheumatoid arthritis. X-ray signs of osteoarthritis.
	X-ray features of gouty joint damage.X-ray signs of ankylosing spondylitis and reactive arthritis.Radiological changes in the case of myeloma disease.
Surgery	Clinical signs of complications of GERD, bleeding, perforation, penetration of the duodenum and duodenum, intestinal obstruction, peritonitis, surgical complications of celiac disease and enteropathy; the share of housing and communal services in the structure of surgical diseases; connection of housing and communal services with other surgical diseases; clinical signs of complications of chronic hepatitis
Pharmacology	.Classification and mechanism of action of thrombolytics, narcotic analgesics, anticoagulants and antiplatelets, nitrates, \Box -adrenoblockers, lipid-lowering drugs, ACE inhibitors, diuretics, calcium antagonists, cardiotropic, sedative drugs.
	Classification of antiarrhythmic drugs, mechanism of action. Groups and mechanisms of action of drugs that improve cardiac conduction. Antibacterial, antiviral, antifungal drugs, classification, mechanism of action, indications, contraindications, possible complications.
	Mechanism of action, indications for use and side effects of expectorants and bronchodilators Antisecretory drugs (anticholinergic drugs, H2-histamine receptor blockers, proton pump blockers, gastrin receptor antagonists, antacids); gastrocytoprotectors (mucus stimulators, those that form a protective film, enveloping and astringent drugs); Drugs that affect the motor function of the stomach and duodenum.
	Groups of drugs that are prescribed to correct intestinal dysbacteriosis and normalize digestive processes. Mechanism of action, indications and contraindications of the main drugs used for the
	treatment of IBS, IBD. Antispasmodics, cholagogues, anti-inflammatory, analgesics, mechanisms of their action. Hepatoprotectors, enterosorbents, amino acids, bile acids, the mechanism of their action. Mechanism of action, indications and contraindications to the use of basic drugs in the treatment of CP.
	Groups and mechanism of action of drugs for the treatment of obesity. Groups of drugs for the treatment of acute rheumatic fever and SLE, mechanisms of their action. Classification, mechanism of action, grounds and warnings for use, complications from the use of NSAIDs, glucocorticoids, cytostatics, aminoquinoline drugs,
	chondroprotectors, anti-gout drugs. Classification and mechanism of action of drugs used for the treatment of CKD and acute kidney disease. Pharmacological features of drugs used in the treatment of various forms of anemia,
Social medicine and	leukemia, hemorrhagic diseases. The structure of providing health care to the population for the proper use of resources of the
health care organization	health care system for prevention and treatment
Spa treatment	Resorts for the treatment of chronic diseases of the gastrointestinal tract, rheumatic diseases and diseases of the bronchopulmonary system

1. The purpose and objectives of the discipline

1.1. **The purpose** of teaching the discipline "Inernal medicine" is to form the ability to apply the acquired knowledge, skills, abilities and understanding to solve typical problems of the doctor in the field of health care, the scope of which is provided by certain lists of syndromes and symptoms of diseases, emergencies and diseases. require special tactics of patient management; laboratory and instrumental research, medical manipulations.

1.2. The main tasks of studying the discipline "Internal medicine" in 6 course

• conduct surveys and clinical examinations of patients with major diseases of the digestive, respiratory, blood and hematopoietic organs and analyze their results;

• determine the etiological and pathogenetic factors of the most common diseases of the digestive, respiratory, blood and hematopoietic organs;

• analyze the typical clinical picture, identify clinical variants and complications of the most common diseases of the digestive, respiratory, blood and hematopoietic organs;

• establish a preliminary diagnosis of the most common diseases of the digestive, respiratory, blood and hematopoietic organs;

• prescribe laboratory and instrumental examination of patients with the most common diseases of the digestive, respiratory, blood and hematopoietic organs and their complications;

• based on evaluation of the results of laboratory and instrumental examination, to make a differential diagnosis, substantiate and establish a clinical diagnosis of the most common diseases of the digestive, respiratory, blood and hematopoietic organs;

• determine the necessary mode of work and rest in the treatment of the most common diseases of the digestive, respiratory, blood and hematopoietic organs;

• determine the necessary medical nutrition in the treatment of the most common diseases of the digestive, respiratory, blood and hematopoietic organs;

• determine the principles and nature of treatment in the treatment of the most common diseases of the digestive, respiratory, blood and hematopoietic organs;

• prescribe treatment, including prognostic-modifying, of the most common diseases of the digestive, respiratory, blood and hematopoietic organs and their complications;

• determine the tactics of emergency medical care based on a diagnosis of emergency;

• provide emergency medical care based on an emergency diagnosis;

• carry out primary and secondary prevention of the most common diseases of the digestive, respiratory, blood and hematopoietic organs;

• assess the prognosis and efficiency of patients with the most common diseases of the digestive, respiratory, blood and hematopoietic organs;

• perform medical manipulations;

• keep medical records;

• adhere to the requirements of ethics, bioethics and deontology in their professional activities.

1.3. Competences and learning outcomes, the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education, formulated in terms of learning outcomes in the EPP).

According to the requirements of the PP, the discipline provides students with the acquisition of competencies: - *integral:*

ability to solve typical and complex specialized tasks and practical problems in professional activities in the field of health care, or in the learning process, which involves research and/or innovation and is characterized by complexity and uncertainty of conditions and requirements.

-general:

GC1. Ability to abstract thinking, analysis and synthesis.

GC2. Ability to learn and master modern knowledge.

GC3. Ability to apply knowledge in practical situations.

GC4. Knowledge and understanding of the subject area and understanding of professional activity.

GC5. Ability to adapt and act in a new situation.

GC6. Ability to make informed decisions.

GC7. Ability to work in a team.

GC8. Interpersonal skills.

GC9. Ability to communicate in the state language both orally and in writing.

GC 11. Skills in the use of information and communication technologies.

GC 12. Definiteness and perseverance in terms of tasks and responsibilities.

GC 13. Awareness of equal opportunities and gender issues.

GC 14. The ability to realize one's rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the supremacy of law, the rights and freedoms of people and citizens.

GC 15. The ability to preserve and multiply the moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and the development of society, techniques and technologies, to use various types and forms of motor activity for active rest and leading a healthy lifestyle.

- special (professional, subject):

PC1. Ability to collect medical information of the patient and analyze clinical data.

PC2. The ability to determine the necessary list of laboratory and instrumental studies and evaluate their results.

PC 3. The ability to establish a preliminary and clinical diagnosis of the disease.

PC 4. The ability to determine the necessary regime of work and rest in the treatment and prevention of diseases.

PC 5. The ability to determine the characteristics of nutrition in the treatment and prevention of diseases. FC6. Ability to determine the principles and nature of treatment and prevention of diseases.

PC 7. Ability to diagnose urgent conditions.

PC 8. Ability to determine the tactics of providing emergency medical aid.

PC 9. Ability to carry out medical evacuation measures.

PC 10. Ability to perform medical manipulations.

PC 11. The ability to solve medical problems in unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility.

PC 16. The ability to provide medical documentation, including the use of electronic forms.

PC 21. It is clear and unambiguous to convey one's own knowledge, conclusions and arguments about health care

problems and related issues to specialists and non-specialists, in particular to people who are studying.

PC 24. Adherence to ethical principles when working with patients and laboratory animals.

PC 25. Adherence to professional and academic integrity, bear responsibility for the reliability of the obtained scientific results

"Competence Matrix".

N₂	Classification of	Knowledge	Skills	Communication	Autonomy and	
	competencies by NQF	-			responsibility	
1	2	3	4	5	6	
Integral competencies						

Ability to solve typical and complex specialized and practical problems in a professional health care activity, or in a learning process that involves research and / or innovation and is characterized by the complexity and uncertainty of conditions and requirements

		Gen	eral competencies		
1	Ability to abstract thinking, analysis and synthesis.	Know the methods of analysis, synthesis and further modern learning.	Be able to analyze information, make informed decisions, be able to acquire modern knowledge.	Establish appropriate connections to achieve goals.	Be responsible for the timely acquisition of modern knowledge.
2	Ability to learn and master modern knowledge.	Know the current trends in the industry and analyze them.	Be able to analyze professional information, make informed decisions, acquire modern knowledge.	Establish appropriate connections to achieve goals.	Be responsible for the timely acquisition of modern knowledge.
3	Ability to apply knowledge in practical situations.	Have specialized conceptual knowledge acquired in the learning process.	Be able to solve complex problems and problems that arise in professional activities	Clear and unambiguous communication of their own conclusions, knowledge and explanations that substantiate them to specialists and non- specialists.	Responsible for making decisions in difficult conditions.
4	Knowledge and understanding of the subject area and understanding of professional activity.	Have a profound knowledge of the structure of professional activity.	Be able to carry out professional activities that require updating and integration of knowledge.	Ability to effectively form a communication strategy in professional activities.	Be responsible for professional development, ability to further professional training with a high level of autonomy.
5	Ability to adapt and act in a new situation. Know the types and methods of adaptation, principles of action in a new situation.		Be able to apply means of self- regulation, to be able to adapt to new situations (circumstances) of	Establish appropriate connections to achieve results.	Be responsible for the timely use of self-regulatory methods.

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6	Ability to make an informed decision.	Know the tactics and strategies of communication, laws and ways of communicative behavior.	life and activity. Be able to make informed decisions, choose ways and strategies communication to ensure effective teamwork.	Use communication strategies and interpersonal skills	Be responsible for the choice and tactics of communication
7	Ability to work in a team.	Know the tactics and strategies of communication, laws and ways of communicative behavior	. Be able to choose ways and strategies of communication to ensure effective teamwork.	Use communication strategies	Be responsible for the choice and tactics of communication.
8	Interpersonal skills.	Know the laws and methods of interpersonal interaction.	Be able to choose ways and strategies of communication for interpersonal interaction.	Use interpersonal skills.	Be responsible for the choice and tactics of communication.
10	Skills in the use of information and communication technologies.	Have deep knowledge in the field of information and communication technologies used in professional activities.	Be able to use information and communication technologies in the professional field, which requires updating and integration of knowledge	Use information and communication technologies in professional activities.	. Be responsible for the development of professional knowledge and skills.
11	The ability to search, process and analyze information from various sources.	To know the places of search, methods of processing and analysis of information from various sources.	To be able to determine the priority areas of search, processing and analysis of information from various sources.	To use interpersonal interaction. different sources	To be responsible for a qualitative search, processing and analysis of information from various sources
12	Definiteness and perseverance in terms of tasks and responsibilities.	Know the responsibilities and ways to accomplish the tasks.	Be able to set goals and objectives to be persistent and conscientious in the performance of duties.	Establish interpersonal relationships to effectively perform tasks and responsibilities	Responsible for the quality of the tasks
13	Awareness of equal opportunities and gender issues	Know and be aware of issues of equal opportunities and gender issues	Be able to evaluate rights and responsibilities regarding equal opportunities and gender issues	Establish interpersonal interaction based on equal opportunities and exclude gender issues	Be responsible for establishing equal opportunities and eliminating gender issues problems
14	The ability to realize one's rights and responsibilities as a member of society, to be aware of the values of civil society (free democratic) and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen of Ukraine.	To know one's social and public rights and responsibilities, to be aware of the values of civil society (free democratic) and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen of Ukraine.	To form one's civic consciousness, to be able to act in accordance with it. To be able to apply the values of civil society (free democratic) for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen of Ukraine.	The ability to convey one's civic and social position. To adhere to the values of civil society (free democratic) and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen of Ukraine.	To be responsible for one's civic position and activities for sustainable development, the rule of law, the rights and freedoms of a person and a citizen of Ukraine
15	The ability to preserve and increase the moral,	To know the moral, cultural, scientific	To be able to preserve and	To adhere to moral, cultural, scientific	To be responsible for the observance

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	cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and leading a healthy lifestyle.	values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, equipment and technologies, to know about different types and forms of motor activity for active recreation and maintaining a healthy lifestyle.	multiply the moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and being able to keep	values and achievements of society based on understanding the history and patterns of development of the subject area, their place in the general system of knowledge about nature and society and in the development of society, equipment and technologies, to adhere to various types and forms of motor activity for active recreation and healthy lifestyle.	of moral, cultural, scientific values and achievements of society on the basis of understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technology.
			a healthy lifestyle.		
	ı		sional, subject) comp	etencies	
1	Ability to collect medical information about the patient and analyze clinical data	Have specialized knowledge about the person, his organs and systems, know the methods and standard schemes of questioning and physical examination of the patient.	Be able to conduct a conversation with the patient on the basis of algorithms and standards, using standard techniques to conduct a physical examination of the patient. Be able to assess the state of human health.	Effectively form a communication strategy when communicating with the patient. Enter information about the state of human health in the relevant medical records.	Be responsible for the quality collection of information obtained through interviews, surveys, examinations, palpation, percussion of organs and systems and for the timely assessment of the state: human health and for taking appropriate measures.
2	Ability to determine the required list of laboratory and instrumental studies and evaluate their results.	Have specialized knowledge about the person, his organs and systems, standard methods of laboratory and instrumental research (according to list 4).	Be able to analyze the results of laboratory and instrumental studies and on their basis to assess information about the patient's diagnosis (according to list 4).	Form and communicate to the patient and specialists the necessary conclusions list of laboratory and instrumental studies (according to list 4).	Be responsible for deciding on the evaluation of laboratory and instrumental research results
3	Ability to establish a preliminary and clinical diagnosis of the disease.	Know the algorithms of disease diagnosis; algorithms for selection of leading symptoms or syndromes (according to list 1); preliminary and clinical diagnoses (according to list 2); methods of laboratory and instrumental examination	Be able to conduct a physical examination of the patient. Be able to make an informed decision regarding the selection of the leading clinical symptom or syndrome; be able to make a preliminary and	Based on regulatory documents, maintain the patient's medical documentation (ambulatory/inpatient card, etc.)	Be responsible for making informed decisions and actions regarding the correctness of the established preliminary and clinical diagnosis of diseases

					12
4	Ability to determine the required mode of	(according to list 4) Have specialized knowledge about man,	clinical diagnosis of the disease (according to list 2); appoint a laboratory and instrumental examination of the patient (according to list 4) by applying standard methods Be able to determine, on the	Form and inform the patient and specialists	Be responsible for the validity of the
	work and rest in the treatment of diseases.	his organs and systems; ethical and legal norms; algorithms and standard schemes for determining the mode of work and rest during treatment, on the basis of preliminary and clinical diagnosis of the disease (according to list 2).	basis of preliminary and clinical diagnosis, by making an informed decision the necessary mode of work and rest in the treatment of the disease (according to list 2).	about the necessary mode of work and rest in the treatment of the disease (according to list 2).	appointment of work and rest in the treatment of the disease (according to list 2).
5	Ability to determine the nature of nutrition in the treatment of diseases.	Have specialized knowledge about man, his organs and systems; algorithms and standard schemes of nutrition in the treatment of diseases (according to list 2).	Be able to determine, on the basis of preliminary and clinical diagnosis, the nature of nutrition in the treatment of diseases (according to list 2).	To form and communicate to the patient, specialists conclusions about nutrition in the treatment of the disease (according to list 2).	Be responsible for the validity of the definition of nutrition in the treatment of the disease (according to list 2).
6	Ability to determine the principles and nature of disease treatment and prevention.	Have specialized knowledge of algorithms and standard schemes of treatment of diseases (according to list 2).	Be able to determine the principles and nature of treatment of the disease (according to list 2).	Form and communicate to the patient and specialists their own conclusions about the principles and nature of treatment (according to list 2).	Be responsible for deciding on the principles and nature of treatment of the disease (according to list 2).
7	Ability to diagnose emergencies.	Have specialized knowledge about the person, his organs and systems, standard methods of human examination (at home, on the street, in a health care facility) in the absence of information.	Be able, in the absence of information, using standard techniques, by making an informed decision to assess the human condition and make a diagnosis (according to list 3).	Under any circumstances, adhering to the relevant ethical and legal norms to make an informed decision on the assessment of the human condition, diagnosis and organization of the necessary medical measures depending on the human condition; fill in the relevant medical documents.	Be responsible for the timeliness and effectiveness of medical measures to diagnose emergencies.
8	Ability to determine the tactics of emergency medical care.	Know the legal framework for the provision of emergency medical care, in particular the law of Ukraine "On	Have specialized knowledge about urgent human conditions; principles of emergency medical	Reasonable formulate and convey to the patient or his / her legal representative the need for emergency care and to obtain	Be responsible for the correct determination of the emergency condition, its severity and tactics

					13
		emergency medical care".	care. Be able to identify emergencies (according to list 3); principles and tactics of emergency medical care; to carry out organizational and diagnostic measures aimed at saving and saving human life.	consent for medical intervention.	of emergency medical care.
9	Ability to conduct medical evacuation measures	Know the algorithms of medical evacuation measures	Be able to conduct medical evacuation measures	Explain the necessity and procedure of medical evacuation measures	Be responsible for the timeliness and quality of medical evacuation measures
10	Skills to perform medical manipulations.	Have specialized knowledge about man, his organs and systems; knowledge of algorithms for performing medical manipulations (according to list 5).	Be able to perform medical manipulations (according to list 5).	Reasonable form and bring to the patient, specialists conclusions about the need for medical manipulations (according to list 5)	Be responsible for the quality of medical manipulations (according to list 5).
11	Ability to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility.	Know and navigate medical problems arising in new or unfamiliar environments in the presence of incomplete or limited information.	Have the skills to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information	Communicate to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information.	Take responsibility for solving medical problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility
16	Ability to maintain medical documentation	Know the system of official document flow in the professional work of a doctor, including modern computer information technologies.	Be able to determine the source and location of the required information depending on its type. Be able to process information and conduct analysis of received information	Receive necessary information from a specified source and, based on its analysis, form appropriate conclusions	Be responsible for the completeness and quality of information analysis and conclusions based on its analysis
21	To convey clear and unambiguous one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non- specialists, in particular to people who are studying	Know how to clearly and unambiguously convey one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non- specialists, in particular to people who are studying.	. Possess the methods and skills for clearly and unambiguously conveying one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non- specialists, in particular to	Formulate an opinion on the clear and unambiguous presentation of one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non- specialists, in particular to students.	Be responsible for the validity of conclusions regarding one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non- specialists, in particular to persons who are

			students.		studying
24	Adhere to ethical principles when working with patients, laboratory animals	Know the ethical principles that apply when working with patients	Be able to apply ethical principles when working with patients	Adhere to ethical principles when communicating with patients	Be responsible for observing ethical principles when working with patients
25	Adherence to professional and academic integrity, be responsible for the reliability of the obtained results	Have specialized knowledge about the system of professional and academic integrity	Be able to organize one's own work in compliance with professional and academic integrity	Communicate for compliance with professional and academic integrity	

Learning outcomes:

The discipline «Obstetrix and gynecology" contributes to the formation of integrative final program learning outcomes, for which students must:

• conduct professional activities in social interaction based on humanistic and ethical principles; identify future professional activities as socially significant for human health;

• apply knowledge of general and professional disciplines in professional activities;

• comply with the norms of the sanitary and hygienic regime and safety requirements during professional activities;

• use the results of independent search, analysis and synthesis of information from various sources to solve typical problems of professional activity;

• argue information for decision-making, be responsible for them in standard and non-standard professional situations; adhere to the principles of deontology and ethics in professional activities;

• to carry out professional communication in modern Ukrainian, to use skills of oral communication in a foreign language, analyzing texts of professional orientation and translate foreign language information sources;

• adhere to the norms of communication in professional interaction with colleagues, management, work effectively in a team;

• analyze the information obtained as a result of scientific research, summarize, systematize and use it in professional activities.

Program learning outcomes (PLO) for discipline

№	Program learning outcomes	Abbreviation	Correspondence
			to competencies
1.	Have thorough knowledge of the structure of professional activity. To be able to carry out professional activities that require updating and integration of knowledge. To be responsible for professional development, the ability for further professional training with a high level of autonomy.	PLO – 1	GC 1-15; PC 1- 25
2.	Understanding and knowledge of fundamental and clinical biomedical sciences, at a level sufficient for solving professional tasks in the field of health care.	PLO – 2	GC 4, 6, 10, 11, 12; PC 1-15, 17, 19, 20,24
3.	Specialized conceptual knowledge that includes scientific achievements in the field of health care and is the basis for conducting research, critical understanding of problems in the field of medicine and related interdisciplinary problems.	PLO – 3	GC 1-3, 6, 7, 9- 12; PC 1-3, 11, 18-26
4.	Identify and identify leading clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's history, data of the patient's examination, knowledge about the person, his organs and systems, establish a preliminary clinical diagnosis of the disease (according to list 2).	PLO – 4	GC 3-4; PC 12, 16, 22, 24
5.	Collect complaints, anamnesis of life and diseases, assess the psychomotor and physical development of the patient, the state of organs and systems of the body, based on the results of laboratory and instrumental studies, evaluate information regarding the diagnoss (according to list 4), taking into account the age of the patient.	PLO – 5	GC 1-3, 6, 7; PC 1-3, 7, 8, 11, 12, 16, 24
6.	To establish the final clinical diagnosis by making a reasoned decision and analyzing the received subjective and objective data of clinical, additional examination, carrying out differential diagnosis, observing the relevant ethical and legal norms, under the control of the head physician in the conditions of the health care institution (according to the list 2)	PLO – 6	GC 1-3, 6-8; PC 1-3, 7, 8, 11, 12, 16, 24
7.	Assign and analyze additional (mandatory and optional) examination methods (laboratory, functional and/or instrumental) (according to list 4) of patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).	PLO – 7	GC 8; PC 1-2, 16, 24
8.	To determine the main clinical syndrome or what causes the severity of the	PLO - 8	GC 3-4; PC 5-

			15
	victim/victim's condition (according to list 3) by making a reasoned decision and		12, 24
	assessing the person's condition under any circumstances (in the conditions of a		
	health care facility, outside its borders), including in the conditions of an		
	emergency and hostilities, in field conditions, in conditions of lack of information		
	and limited time.		
Э.	Determine the nature and principles of treatment (conservative, operative) of	PLO-9	PC 1, 2, 6-8,
	patients with diseases (according to list 2), taking into account the age of the		10, 12
	patient, in the conditions of a health care institution, outside its borders and at the		
	stages of medical evacuation, including in field conditions, on the basis of a		
	preliminary clinical diagnosis, observing the relevant ethical and legal norms, by		
	making a reasoned decision according to existing algorithms and standard		
	schemes, in case of the need to expand the standard scheme, be able to justify		
	personalized recommendations under the control of the head physician in the		
	conditions of a medical institution.		
10.	Determine the necessary mode of work, rest and nutrition based on the final	PLO - 10	GC 4; PC 4, 5,
	clinical diagnosis, observing the relevant ethical and legal norms, by making a		24
	reasoned decision according to existing algorithms and standard schemes.		
11.	Determine tactics and provide emergency medical care in emergency situations	PLO - 14	GC 5, 7, 8; PC
	(according to list 3) in limited time conditions according to existing clinical		1, 7, 11, 17, 19,
	protocols and standards of treatment.		23
12.	Form rational medical routes for patients; to organize interaction with colleagues	PLO - 16	PC 3, 7, 10, 11
	in their own and other institutions, organizations and institutions; to apply tools		
	for the promotion of medical services in the market, based on the analysis of the		
	needs of the population, in the conditions of the functioning of the health care		
	institution, its division, in a competitive environment.		
13.	Perform medical manipulations (according to list 5) in the conditions of a medical	PLO - 17	GC 14, 15; PC
	institution, at home or at work based on a previous clinical diagnosis and/or		7, 11, 17
	indicators of the patient's condition by making a reasoned decision, observing the		
	relevant ethical and legal norms.		
14.	To determine the state of functioning and limitations of a person's vital activities	PLO - 18	PC 13, 14, 17,
	and the duration of incapacity for work with the preparation of relevant		20
	documents, in the conditions of a health care institution, based on data about the		
	disease and its course, peculiarities of a person's professional activity, etc.		
	Maintain medical documentation regarding the patient and the contingent of the		
	population on the basis of regulatory documents.		
15.	Plan and implement a system of anti-epidemic and preventive measures	PLO - 19	PC 14
	regarding the occurrence and spread of diseases among the population.		
16.	PLO21. Search for the necessary information in the professional literature and	PLO - 21	GC 2, 9, 10
	databases of other sources, analyze, evaluate and apply this information.		, ,
17.	Apply modern digital technologies, specialized software, and statistical data	PLO – 22	GC 5, PC 13-17
- / •	analysis methods to solve complex healthcare problems.		000,10101,
18.	To convey clearly and unambiguous one's own knowledge, conclusions and	PLO - 25	GC 5, 6, PC 11,
10.	arguments on health care problems and related issues to specialists and non-	120 25	17, 21
	specialists.		17, 21
19.	Manage work processes in the field of health care, which are complex,	PLO - 26	GC 2, 8
	unpredictable and require new strategic approaches, organize the work and	120 - 20	002,0
	professional development of personnel taking into account the acquired skills of		
	effective teamwork, leadership positions, appropriate quality, accessibility and		
	fairness, ensuring the provision of integrated medical help		
20.	Communicate freely in the national and English languages, both orally and in	PLO – 27	GC 5-8, 15; PC
20.		FLO = 27	11, 18, 21-22
<u>)1</u>	writing to discuss professional activities, research and projects.	PLO – 28	
21.	Make effective decisions about health care problems, assess the necessary	FLU – 28	GC 14, 15; PC
	resources, take into account social, economic and ethical consequences.		14, 20

Learning outcome code	The content of the learning outcome	References to the code of the
		competence
		matrix
Category:	Learning outcomes determine that the student must know, understand and be	Symbol of the
Kn - knowledge	able to perform, after completing the discipline. Learning outcomes follow	Program Learning
Ab - ability	from the set learning goals. To enroll in the discipline, it is necessary to	Outcome (PLO)
Co- competence	confirm the achievement of each	code in the High
AR - autonomy and		Education

Learning outcomes for the discipline

nsibility		Standard
Kn-1	Have thorough knowledge of the structure of professional activity.	PLO-1
Ab-1	Able to carry out professional activities that require updating and integration of knowledge.	
Co-1	Skills of further professional training	
AR-1	To bear responsibility for professional development, the ability for further professional training with a high level of autonomy	
Kn-2	. Have knowledge of fundamental and clinical biomedical sciences, equally sufficient for solving professional tasks in the field of health care.	PLO-2
Ab-2	To be able to analyze the problems of fundamental and clinical biomedical sciences	
CO-2	Ability to determine the necessary list of problems of fundamental and clinical biomedical sciences	
AR-2	To be responsible for making a decision regarding the evaluation of tasks of fundamental and clinical biomedical sciences	
Kn-3	Have specialized conceptual knowledge, including scientific achievements in the field of health care and the basis for conducting research	PLO-3
Ab-3	To be able to critically analyze problems in the field of medicine and related interdisciplinary problems.	
CO-3	The ability to analyze problems in the field of medicine and related interdisciplinary problems.	
AR-3	Be responsible for making informed decisions and actions regarding the	
AR-J	correctness of coverage of the problem in the field of medicine and interdisciplinary problems related to it.	
Kn-4	Know the leading clinical symptoms and syndromes; standard diagnostic	PLO-4
	methods.	
Ab-4	To be able to distinguish and identify the leading clinical symptoms and	
	syndromes; by standard methods, using the patient's anamnesis data, the	
	patient's examination data, knowledge about the person, his organs and	
	systems.	
CO-4	The ability to establish a preliminary clinical diagnosis of the disease	
AR-4	Be responsible for establishing a preliminary clinical diagnosis of the disease	
Kn-5	Know the algorithms of working with the patient	PLO-:
Ab-5	. To be able to collect complaints, anamnesis and diseases, evaluate the	
110 0	psychomotor and physical development of the patient, the state of the organs	
	and systems of the body, based on the results of laboratory and instrumental	
	studies, evaluate information related to the diagnosis, taking into account the	
	age of the patient.	
CO-5	Ability to evaluate the results of laboratory and instrumental research	
AR-5	Be responsible for the completeness of collected information about the patient.	DI O
Kn-6	Know the principles of establishing a final clinical diagnosis.	PLO-6
Ab-6	Be able to establish a final clinical diagnosis by making a reasoned decision and analyzing the received subjective and objective data of clinical, additional	
	examination, conducting differential diagnosis, observing the relevant ethical	
	and legal norms, under the supervision of the head physician in the conditions	
00.1	of the health care institution.	
CO-6	The ability to establish an algorithm for formulating a final clinical diagnosis	
AR-6	Be responsible for formulating the final clinical diagnosis	_
Kn-7	Know the standard methods of conducting laboratory and instrumental research	PLO-
Ab-7	Be able to analyze the results of laboratory and instrumental studies and, based	
	on them, evaluate information about the patient's diagnosis	
CO-7	Ability to determine the necessary list of laboratory and instrumental studies	
	and evaluate their results	
AR-7	To be responsible for making a decision regarding the evaluation of the results	
	of laboratory and instrumental studies	
Kn-8	To know the main clinical syndromes and the severity of the condition of the	PLO-8
	victim/injured (under the conditions of the health care institution, outside its	
	boundaries), including in the conditions of emergency situations and combat	
	operations, in field conditions, in conditions of lack of information and limited	
	time.	
Ab-8	To be able to determine the main clinical syndrome or the severity of the	
	victim's condition caused by making a reasoned decision and assessing the	
	condition of a person under any circumstances (in the conditions of a health	

		17
	situations and combat operations, in field conditions, in conditions of lack of information and limited time.	
CO-8	To have interaction skills, regarding the determination of the main clinical syndrome or the cause of the severity of the victim's/victim's condition, making a reasoned decision and evaluating a person under any circumstances (in terms	
	of a health care institution, outside its boundaries), including in the conditions of emergency situations and combat operations, in field conditions, in conditions of lack of information and limited time.	
AR-8	To be responsible for the timely determination of the main clinical syndrome or the cause of the severity of the victim's/victim's condition by making a reasoned decision and assessing the state of a person under any circumstances (in terms of a health care institution, outside its boundaries), including in the conditions of emergency situations and combat operations, in field conditions, in conditions of lack of information and limited time.	
Kn-9	Know the principles of treatment of patients (conservative, operative) with diseases, taking into account the age of the patient, the conditions of the health care facility, its limits and stages of medical evacuation, including in field conditions.	PLO-9
Ab-9	Be able to determine the nature and principles of treatment of patients (conservative, operative) with diseases, taking into account the age of the patient, the conditions of the health care facility, its limits and the stages of medical evacuation, including in field conditions, on the basis of a preliminary clinical diagnosis, following the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes, and when it is necessary to expand the standard scheme, and to be able to substantiate personalized recommendations under the control of the head physician in the conditions of the medical institution.	
CO-9	The ability to communicate about the nature and principles of treatment of patients (conservative, operative) with diseases, taking into account the age of the patient, the conditions of the health care facility, its limits and the stages of medical evacuation, including in field conditions, on the basis of a preliminary clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes	
AR-9	To be responsible for the quality of the prescribed treatment (conservative, operative) of patients with diseases, taking into account the age of the patient, the conditions of the health care facility, its limits and the stage of medical evacuation, including in field conditions	
Kn-10	Know the necessary mode of work, rest and nutrition based on the final clinical diagnosis, existing algorithms and standard schemes.	PLO-10
Ab-10	Be able to determine the necessary regime of work, rest and nutrition on the basis of the final clinical diagnosis, observing the relevant ethical and legal norms, by making a well-founded decision with existing algorithms and standard schemes.	
CO-10	The ability to determine the mode of work, rest and the nature of nutrition during the treatment of diseases	
AR-10	To be responsible for the reasonableness of determining the mode of work, rest and the nature of nutrition during the treatment of diseases	
Kn-11	To know the tactics of providing emergency medical aid in emergency situations in limited time in accordance with existing clinical protocols and treatment standards.	PLO-14
Ab-11	Able to provide emergency medical assistance in emergency situations in limited time in accordance with existing clinical protocols and treatment standards.	
CO-11	The ability to determine the tactics of providing emergency medical aid in emergency situations in limited time in accordance with existing clinical protocols and treatment standards.	
AR-11	To be responsible for the provision of emergency medical aid in emergency situations in a time-limited manner in accordance with existing clinical protocols and treatment standards.	
Kn-12	Know the rational medical routes of patients.	PLO-16
Ab-12 CO-12	To be able to form rational medical routes for patients. The ability to communicate with colleagues in order to form rational medical routes for patients.	
AR-12	routes for patients To be responsible for the validity of decisions regarding the formation of	

rational medical routes for patients	
	PLO-17
	1 LO-17
	N O 10
	PLO-18
the disease and its course, the peculiarities of a person's professional activity,	
etc.	
Be responsible for assessing the limitation of a person's life activity and the	
duration of his/her incapacity	
Know anti-epidemic and preventive measures for the occurrence and spread	PLO-19
of diseases among the population.	
To be able to carry out anti-epidemic and preventive measures regarding the	
occurrence and spread of diseases among the population.	
Be able to find the necessary information in professional literature and	PLO-21
databases of other sources, analyze, evaluate and apply this information.	
Be able to apply modern digital technologies, specialized software, and	PLO-22
	PLO-25
	PLO-26
	PLO-27
	PLO-28
	120 20
deontology in one's professional activity.	
	 The ability to assess the limitation of a person's vital activity and the duration of his disability Be responsible for assessing the limitation of a person's life activity and the duration of his/her incapacity Know anti-epidemic and preventive measures for the occurrence and spread of diseases among the population. To be able to carry out anti-epidemic and preventive measures regarding the occurrence and spread of diseases among the population. Be able to find the necessary information in professional literature and databases of other sources, analyze, evaluate and apply this information. Be able to apply modern digital technologies, specialized software, and statistical methods of data analysis to solve complex healthcare problems. Be responsible for the clear and unambiguous presentation of one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and specialists To be responsible for ensuring the provision of integrated medical care. Be able to communicate freely in the state language and in English, both orally and in writing to discuss professional activities, research and projects. To comply with the requirements of ethics, bioethics and deontology in their professional activities

2. Information volume of the discipline «Obstetrix and gynecology"8 ECTS credits (240 hours) are allocated to study the individual profile course «Obstetrix and gynecology" in the 6th year.

3. The structure of the discipline

Торіс	Lectures	Practical classes	Independent work
The global pandemic of COVID-19. Diagnosis of SARS-CoV-2.		6	6
Clinical manifestations, prevention and treatment. Management of a			
patient with arterial hypertension, with symptomatic hypertension,			
with arterial hypotension			
Management of a patient with a heart rhythm disorder		6	6
Management of a patient with impaired cardiac conduction		6	6
Management of a patient with cardiac pain and chest pain, with stable		6	6
angina pectoris, painless myocardial ischemia			
Management of a patient with unstable angina, myocardial infarction		6	6
Management of a patient with cardiomegaly, heart murmurs, and		6	6
acrocyanosis			
Management of a patient with heart failure		6	6
Management of a patient with acute back pain, arthralgia/myalgia,		6	6
joint syndrome, arthrosis			
Management of a patient with hemorrhagic vasculitis, with systemic		6	6

connective tissue diseases			19
Management of a patient with gastric dyspepsia, dysphagia,		6	6
heartburn, abdominal pain, chronic diarrhea syndrome, constipation,			
gastrointestinal bleeding			
Management of a patient with jaundice, ascites, portal hypertension,		6	6
hepatic encephalopathy, hepatomegaly, and hepato-lienal syndrome.			
Treatment of a patient with acute liver failure			
Management of a patient with broncho-obstructive syndrome,		6	6
asthmatic condition, chronic cough, pneumothorax			
Management of a patient with infiltrative darkening of the lungs, with		6	6
community-acquired and hospital-acquired pneumonia, lung abscess,			
pleural effusion, acute respiratory distress syndrome, respiratory			
failure			
Management of a patient with fever of unknown origin		6	6
Management of a patient with urinary and nephrotic syndromes, with		6	6
edematous syndrome			
Management of a patient with chronic kidney disease. Treatment of a		6	6
patient with acute renal failure			
Management of a patient with anemia		6	6
Management of a patient with a leukemic reaction and leukemia, with		6	6
polycythemia, lymphadenopathy			
Treatment of a patient with complicated hypertensive crisis, cardiac		6	6
asthma and pulmonary edema, cardiogenic shock			
Treatment of a patient with pulmonary embolism. Treatment tactics		6	6
for sudden cardiac death			
Total hrs 240 / 8 credits ECTS	0	120	120
Form of final control		Credit	

4. The thematic plan of lectures according to the order 881-z dated 15.03.2022 "On the implementation of the training plan for applicants of the second (master's) level of higher education in the specialty 222 "Medicine" (Appendix 1) lectures are not provided.

5. Thematic plan of practical classes

N⁰	ТОРІС	Number of hours
1.	The global pandemic of COVID-19. Diagnosis of SARS-CoV-2. Clinical manifestations, prevention and treatment. Management of a patient with arterial hypertension, with symptomatic hypertension, with arterial hypotension	6
2.	Management of a patient with a heart rhythm disorder	6
3.	Management of a patient with impaired cardiac conduction	6
4.	Management of a patient with cardiac pain and chest pain, with stable angina pectoris, painless myocardial ischemia	6
5.	Management of a patient with unstable angina, myocardial infarction	6
6.	Management of a patient with cardiomegaly, heart murmurs, and acrocyanosis	6
7.	Management of a patient with heart failure	6
8.	Management of a patient with acute back pain, arthralgia/myalgia, joint syndrome, arthrosis	6
9.	Management of a patient with hemorrhagic vasculitis, with systemic connective tissue diseases	6
10.	Management of a patient with gastric dyspepsia, dysphagia, heartburn, abdominal pain, chronic diarrhea syndrome, constipation, gastrointestinal bleeding	6
11.	Management of a patient with jaundice, ascites, portal hypertension, hepatic encephalopathy, hepatomegaly, and hepato-lienal syndrome. Treatment of a patient with acute liver failure	6
12.	Management of a patient with broncho-obstructive syndrome, asthmatic condition, chronic cough, pneumothorax	6
13.	Management of a patient with infiltrative darkening of the lungs, with community-acquired and hospital-acquired pneumonia, lung abscess, pleural effusion, acute respiratory distress syndrome, respiratory failure	6
14.	Management of a patient with fever of unknown origin	6
15.	Management of a patient with urinary and nephrotic syndromes, with edematous syndrome	6
16.	Management of a patient with chronic kidney disease. Treatment of a patient with acute renal failure	6
17.	Management of a patient with anemia	6
18.	Management of a patient with a leukemic reaction and leukemia, with polycythemia, lymphadenopathy	6

		20
19.	Treatment of a patient with complicated hypertensive crisis, cardiac asthma and pulmonary edema,	6
	cardiogenic shock	0
20.	Treatment of a patient with pulmonary embolism. Treatment tactics for sudden cardiac death	6
	Total	144

6. Thematic plan of independent work of students

№	TOPIC	Number of
		hours
1.	- Preparation for a practical lesson on the topic "Global pandemic of COVID-19. Diagnosis of SARS-CoV-2. Clinical manifestations, prevention and treatment. Management of a patient with arterial hypertension. Management of patients with symptomatic hypertension. Management of a patient with arterial hypotension" Improvement of the technique of recording and interpreting the ECG, blood pressure measurement and interpretation of the obtained results by topic Improving the interpretation of the results of laboratory research methods (blood creatinine, glomerular filtration rate, blood electrolytes).	6
2.	- Preparation for a practical lesson on the topic "Management of a patient with a heart rhythm disorder." - Improving the technique of ECG interpretation by topic Improvement of interpretation of coagulogram results	6
3.	Preparation for a practical lesson on the topic "Management of a patient with impaired cardiac conduction." - Improvement of ECG interpretation in case of cardiac conduction disturbances by topic.	6
4.	- Preparation for a practical class on the topic "Management of a patient with cardiac pain and chest pain, with stable angina pectoris, painless myocardial ischemia." - Improvement of the interpretation of the ECG and the results of the test with dosed physical load by topic Improvement of interpretation of the results of X-ray examination of chest organs by topic Improving the interpretation of the results of laboratory examination methods (biochemical markers of myocardial necrosis, coagulogram, D-dimer, blood lipid spectrum).	6
5.	- Preparation for a practical lesson on the topic "Management of a patient with unstable angina, myocardial infarction." - Improvement of interpretation of ECG, test results with dosed physical load, ECHO-CG by topic Improving the interpretation of the results of laboratory examination methods (biochemical markers of myocardial necrosis, coagulogram, D-dimer, blood lipid spectrum).	6
6.	- Preparation for a practical lesson on the topic "Management of a patient with cardiomegaly, heart murmurs, with acrocyanosis." - Improving the interpretation of ECG, Doppler-EchoKG results by topic Improvement of the interpretation of x-ray examination of chest organs by topic Improving the interpretation of the results of laboratory research methods (arterial and venous blood gases).	6
7.	- Preparation for a practical lesson on the topic "Management of a patient with heart failure." - Improvement of the interpretation of Doppler-EchoCG results by topic Improving the interpretation of the results of laboratory research methods (analysis of ascitic fluid, coagulogram, blood creatinine, glomerular filtration rate, blood electrolytes, concentration of natriuretic peptide in blood).	5
8.	- Preparation for a practical lesson on the topic "Management of a patient with arthralgias/myalgias, joint syndrome, arthrosis." - Improving the interpretation of the results of X- ray examination of the spine, thoracic organs and sacroileal joints, X-ray examination of joints by topic Improving the interpretation of the results of laboratory research methods (immune status indicators, synovial fluid analysis, general blood analysis, acute phase blood indicators, uric acid, RF, anti-CCP, ANA, ds-DNA, HLA-B27, SCL-70, Jo-1, KFC)	5
9.	Preparation for a practical lesson on the topic "Management of a patient with hemorrhagic vasculitis, with systemic connective tissue diseases." - Improving the interpretation of the results of X-ray examination of the spine, thoracic organs and sacroileal joints, X-ray examination of joints by topic Improving the interpretation of the results of laboratory research methods (immune status indicators, synovial fluid analysis, general blood analysis, acute phase blood indicators, uric acid, RF, anti-CCP, ANA, ds-DNA, SCL-70, pANCA, cANCA, Hbs Ag)	5
10.	- Preparation for a practical session on the topic "Management of a patient with gastric dyspepsia, dysphagia, heartburn, abdominal pain, chronic diarrhea syndrome, constipation." - Improving the interpretation of the results of endoscopic examination of the alimentary canal (EGD, colonoscopy) by topic Improvement of the interpretation of the results of the breath test with 13C-urea Improvement of interpretation of the results of breath tests (with 13C-triglycerides, 13C-starch, 13C-lactose and hydrogen test with glucose and lactulose) Improvement of the interpretation of the results of the study of the secretory function of the stomach (topographic express pH-metry) Improvement of the interpretation of the results of daily pH monitoring of the esophagus Improvement of interpretation of biochemical blood test results (total blood protein and its fractions, serum transaminases, total bilirubin and its fractions, alkaline phosphatase, alpha-	5

		,
	amylase, GGTP) Improvement of the interpretation of the results of fecal elastase-1, fecal	
11	calprotectin Improvement of interpretation of coprocytogram results.	
11.	- Preparation for a practical class on the topic "Management of a patient with jaundice, ascites,	
	portal hypertension, hepatic encephalopathy, hepatomegaly and hepatolienal syndrome. Curation	
	of a patient with liver failure" Improvement of interpretation of biochemical blood test results	
	(total bilirubin and its fractions, albumin, serum transaminases, total blood protein and its	
	fractions, alkaline phosphatase, alpha-amylase, GHTP) Improvement of interpretation of	
	serological blood test results (serum markers of viral and autoimmune hepatitis, polymerase chain	5
	reaction - qualitative and quantitative analysis, virus genotyping) Improvement of the	
	interpretation of the results of multi-moment duodenal probing, microscopic and biochemical	
	examination of bile Improving the interpretation of the results of ultrasound examination of the	
	liver, gall bladder and biliary tract by topic Improvement of the interpretation of the results of	
	endoscopic examination of the alimentary canal (EGDS) by topic.	
12.	- Preparation for a practical lesson on the topic "Management of a patient with broncho-obstructive	
12.	syndrome, asthma, chronic cough, pneumothorax." - Improvement of the interpretation of the	
		5
	results of X-ray examination of the chest cavity by topic Improvement of interpretation of	
	spirography results, results of provocative tests with a bronchodilator by topic.	
13.	- Preparation for a practical lesson on the topic "Management of a patient with infiltrative	
	darkening in the lungs, with community-acquired and hospital-acquired pneumonia, lung abscess,	
	pleural effusion, respiratory distress syndrome, respiratory failure." - Improvement of the	
	interpretation of the results of sonography and X-ray examination of the chest cavity organs in two	_
	projections, computer tomography by topic Improving the interpretation of the results of	5
	laboratory research methods (coagulogram, D-dimer, procalcitonin, arterial and venous blood	
	gases and indicators of the acid-base state of the blood; general and microbiological examination	
	of sputum; biochemical, cytological, microbiological analysis of pleural fluid).	
14		
14.	- Preparation for a practical session on the topic "Management of a patient with fever of unknown	
	origin" Improvement of interpretation of x-ray examination of chest organs, ultrasound	-
	examination of abdominal cavity organs by topic Improvement of interpretation of the results of	5
	laboratory research methods (general blood test, general urinalysis, bacteriological blood culture,	
	procalcitonin, ANA, ds-DNA).	
15.	- Preparation for a practical session on the topic "Management of a patient with urinary and	
	nephrotic syndromes, with edema syndrome." - Improvement of the interpretation of the results of	
	radiation studies of the organs of the urinary system by topic Improving the interpretation of the	
	results of laboratory research methods (general blood analysis, general urinalysis, urinalysis	_
	according to O.Z. Nechyporenko and S.S. Zimnytskyi, microbiological examination of urine, daily	5
	proteinuria; total bilirubin and its fractions, total protein with protein fractions, blood	
	transaminases, creatinine, urea, blood uric acid, cholesterol, glomerular filtration rate)	
1.	Improvement of the interpretation of Doppler-EchoCG results by topic.	
16.	- Preparation for a practical lesson on the topic "Management of a patient with chronic kidney	
	disease. Treatment of a patient with acute renal failure" Improvement of interpretation of the	5
	results of laboratory research methods (general blood test, general urine test, electrolytes, urea,	5
	creatinine, glomerular filtration rate)	
17.	Preparation for a practical lesson on the topic "Management of a patient with anemia." - Repetition	
	of blood group determination methods Repetition of the method of transfusion of blood	
	components and blood substitutes Improvement of interpretation of general blood analysis, bone	
	marrow punctate and trepanobiopsy Improving the interpretation of the results of iron	5
	metabolism studies (serum iron, serum total iron-binding capacity, transferrin saturation with iron,	
	ferritin level).	
10		
18.	- Preparation for a practical lesson on the topic "Management of a patient with a leukemoid	
	reaction and leukemia, with polycythemia, lymphadenopathy." - Improvement of interpretation of	
	general blood analysis, bone marrow punctate, results of cytochemical studies Improvement of	5
	the interpretation of the results of the cytological examination of the lymph node biopsy	
	Mastering the skills of interpreting the results of x-ray examination of bones by topic.	
19.	- Preparation for a practical lesson on the topic "Treatment of a patient with complicated	
	hypertensive crisis, cardiac asthma and pulmonary edema." - Improvement of the methodology of	
	blood pressure measurement and interpretation of the obtained results Improving the	5
	pressure measurement and interpretation of the obtained results improving the	5
	interpretation of ECG Doppler-EchoKG results by topic Improvement of the interpretation of	
	interpretation of ECG, Doppler-EchoKG results by topic Improvement of the interpretation of the analysis of biochamical indicators of blood (muccardial nearoois markers)	
20	the results of the analysis of biochemical indicators of blood (myocardial necrosis markers).	
20.	the results of the analysis of biochemical indicators of blood (myocardial necrosis markers).Preparation for a practical class on the topic "Treatment of a patient with pulmonary embolism.	
20.	 the results of the analysis of biochemical indicators of blood (myocardial necrosis markers). Preparation for a practical class on the topic "Treatment of a patient with pulmonary embolism. Treatment tactics for sudden cardiac death" Improvement of the interpretation of the results of 	
20.	 the results of the analysis of biochemical indicators of blood (myocardial necrosis markers). Preparation for a practical class on the topic "Treatment of a patient with pulmonary embolism. Treatment tactics for sudden cardiac death" Improvement of the interpretation of the results of Echo-CG and x-ray examination of the organs of the chest cavity by topic Improvement of the 	5
20.	 the results of the analysis of biochemical indicators of blood (myocardial necrosis markers). Preparation for a practical class on the topic "Treatment of a patient with pulmonary embolism. Treatment tactics for sudden cardiac death" Improvement of the interpretation of the results of Echo-CG and x-ray examination of the organs of the chest cavity by topic Improvement of the interpretation of the results of laboratory research methods (coagulogram, arterial and venous 	5
20.	 the results of the analysis of biochemical indicators of blood (myocardial necrosis markers). Preparation for a practical class on the topic "Treatment of a patient with pulmonary embolism. Treatment tactics for sudden cardiac death" Improvement of the interpretation of the results of Echo-CG and x-ray examination of the organs of the chest cavity by topic Improvement of the 	5

7. Independent and individual work

- Essay presentation at a practical session
- Report at clinical conferences of department bases
- Presentation of medical history at a practical session
- Writing theses, articles
- Mastering practical skills
- Review of scientific literature by topic
- Writing a workbook on the subject of the lesson

Individual assignments are a mandatory part of students' work. It is divided into current (mandatory part is home self-preparation for practical classes and filling out a thematic patient card) and individual educational and research tasks. Mandatory individual work of students is an integral part of studying almost every topic. The quality of performance of mandatory individual work is taken into account during the assessment of success in the topic of the lesson. Individual work is evaluated with additional points and has different levels of difficulty.

- Individual tasks from the discipline «Obstetrix and gynecology" are completed by students in writing (in the form of a thematic patient card), the implementation control is carried out constantly during the semester in the relevant practical classes. Verification of the material learned by the topic of the work is carried out at the final control.
- In practical classes, home self-preparation of individual work, which is provided for the relevant topic of the practical class, is checked, evaluated during the current control of the class topic.
- Evaluation of mastery of topics, which are left for independent study by students and are not included in the topics of practical classes, is carried out during the final control with the help of tests and situational problems.

The organization of the educational process should ensure the participation of students in the management of at least 2/3 of inpatients. If it is not possible to provide curation of patients with diseases according to the topic of the lesson, students fill out charts of patients with diseases of the corresponding topic.

Daily patient examination protocols by students are provided to the associate professor/assistant for review. Docents/assistants ensure that each student acquires the necessary competence in the following areas: questioning the patient, clinical examination, oral presentation, making diagnostic decisions and determining treatment tactics (critical thinking), filling out documentation.

8. Teaching methods:

Practical, visual, verbal, work with a book, video method.

During classes, such methods of interactive learning as business games, role-playing games, cases, etc. are used.

9. Control methods:

oral, written, test, programmed, practical control, self-control.

9.1 Types of control: current and final.

9.2 Form of final control of study success: credit

9.3 Evaluation criteria Control measures include current and final semester control and certification of graduates.

10. Current control:

Current control is carried out during training sessions and is aimed at checking the students' assimilation of the educational material.

During the practical session, the student examines the patient, analyzes the received data, formulates and substantiates the preliminary diagnosis; prepares a plan for additional research methods, documents the patient's examination in the form of a brief medical history; analyzes the results of additional research methods, compares data from several patients, formulates and substantiates a clinical diagnosis; learns the basic principles of disease treatment in the clinic of internal medicine, solves clinical situational problems, makes a short report on the completed independent work.

Conducting current control during training sessions should be based on test control, solving situational problems, current survey, examination of the patient, filling out the patient card and independent work, after which the student is assigned a comprehensive assessment. The student must receive a grade in each topic.

Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. The final grade for the current educational activity is given on a 4-point (national) scale

Criteria for assessing the practical lesson

- Knowledge of theoretical material has significant errors, no homework, initial test control of knowledge written less than 60%, unsatisfactory examination of the patient (unsatisfactory assessment for practical skills), the main test on the topic written on unsatisfactory assessment, the student makes mistakes that can lead until the death of the patient unsatisfactory;
- Knowledge of theoretical material has errors, which, however, can not cause the death of the patient, the initial test control is written at 60-74%, a satisfactory grade for practical skills, test on the topic written on a

satisfactory grade, the student makes mistakes that lead to prolong the diagnostic search, but do not threaten the life of the patient - **satisfactory**;

- Knowledge of theoretical material without errors, corresponds to the program, the initial test control is written on 75-89%, the grade "good" for the performed practical skills, the test on the studied topic is written on the grade "good", the student does not make mistakes - good.
- Knowledge of theoretical material without errors, corresponds to the program, from basic disciplines excellent knowledge which the student can use in therapy, initial test control is written on 90% and more, an estimation "excellent" for the executed practical skills, control work on the studied subject is written on an estimation "Excellent", the student does not make mistakes, is able to examine the patient, interpret the results of examinations and prescribe modern, individual, with a dosage of treatment - excellent.

Final control					
General evaluation	Participation in the work during the semester (credit) on a 200-point scale				
system					
Rating scales	traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale				
Conditions of admission to the final control	The student attended all practical classes and received at least 120 poi performance	nts for current			
Type of final control	Methods of final control	Enrollment criteria			
Credit	All topics submitted for current control must be included. Grades from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulation "Criteria, rules and procedures for evaluating the results of students' learning activities"	of points is 200. The minimum number of			
Other types of control	6th year students take the Licensing Exam "Step-2" and an comprehensive practical-oriented qualification exam (CPOQE)				

12. Scheme of accrual and distribution of points received by students.

Assessment is one of the final stages of learning activities and determining learning success.

The calculation of points is based on the grades obtained by the student on the traditional scale during the study of the discipline during the semester, by calculating the arithmetic mean (AM), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows:

200/5.x = CA

For convenience, the table of recalculation on a 200-point scale is given:

Recalculation of the average grade for current activities in a multi-point scale for disciplines that end with a credit

		1			1		r	1		
4-	200-		4-	200-		4-	200-		4-	200-
point	point		point	point		point	point		point scale	point scale
scale	scale		scale	scale		scale	scale			
5	200		4.45	178		3.92	157		3.37	135
4.97	199		4.42	177		3.89	156		3.35	134
4.95	198		4.4	176		3.87	155		3.32	133
4.92	197		4.37	175		3.84	154		3.3	132
4.9	196		4.35	174		3.82	153		3.27	131
4.87	195		4.32	173		3.79	152		3.25	130
4.85	194		4.3	172		3.77	151		3.22	129
4.82	193		4.27	171		3.74	150		3.2	128
4.8	192		4.24	170		3.72	149		3.17	127
4.77	191		4.22	169		3.7	148		3.15	126
4.75	190		4.19	168		3.67	147		3.12	125
4.72	189		4.17	167		3.65	146		3.1	124
4.7	188		4.14	166		3.62	145		3.07	123
4.67	187		4.12	165		3.57	143		3.02	121
4.65	186		4.09	164		3.55	142		3	120
4.62	185		4.07	163		3.52	141		Less 3	not enough
4.6	184		4.04	162		3.5	140			
4.57	183		4.02	161		3.47	139			
4.52	181		3.99	160		3.45	138			
4.5	180		3.97	159		3.42	137			
4.47	179]	3.94	158		3.4	136]		

Scores from the discipline are independently converted into both the ECTS scale and the 4-point scale. ECTS scale scores are not converted to a 4-point scale and vice versa.

The scores of students studying in one specialty, taking into account the number of scores scored in the discipline, are ranked on the ECTS scale as follows:

ECTS assessment	Statistical indicator		
"A"	The best 10% of students		
"B"	The next 25% of students		
"C"	The next 30% of students		
"D"	The next 25% of students		
"E"	The last 10% of students		

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Discipline scores for students who have successfully completed the program are converted into a traditional 4point scale according to the absolute criteria, which are given in the table below:

Score on a multi-point (200) scale	Score on a four-point scale
From 170 to 200 points	«5»
From 140 to 169 points	«4»
From 139 to the minimum number of points that must be scored by student Below the minimum number of points that must be scored by student "2"	«3»
Below the minimum number of points that must be scored by student	«2»

The ECTS score is not converted to the traditional scale, as the ECTS scale and the four-point scale are independent.

The objectivity of the assessment of students' learning activities is checked by statistical methods (correlation coefficient between ECTS assessment and assessment on a national scale).

13. Methodical support

- 1. Educational content:
- 2. plans for practical classes
- 3. tasks for independent work
- 4. guidelines / recommendations for students and teachers
- 5. algorithms for treatment and emergency care (according to the standards of evidence-based medicine)
- 6. algorithms for performing skills practices, medical manipulations, videos
- 7. results of laboratory and instrumental research methods
- 8. models, phantoms, etc.
- 9. simulators, electronic directories, computers with appropriate information support
- 10. questions, tasks, tasks or cases for current and final control.

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- 4. Bender J., Russell K., Rosenfeld L., Chaudry S. Oxford American Handbook of Cardiology (Oxford American Handbooks in Medicine) 2010. 706.
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- 6. Clunie G., Wilkinson N., Nikiphorou E., Jadon D. Oxford Handbook of Rheumatology. 2018. 832 p.
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Information resources

- 1. https://www.aasld.org/
- 2. https://www.diabetes.org
- 3. http://www.eagen.org/
- 4. http://www.ers-education.org/guidelines.aspx
- 5. http://www.esmo.org/Guidelines/Haematological-Malignancies
- 6. https://ehaweb.org/organization/committees/swg-unit/scientific-working-groups/structure-and-guidelines/
- 7. http://www.gastro.org/guidelines
- 8. www.ginasthma.org