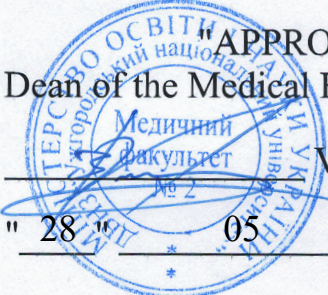


STATE UNIVERSITY
"UZHHOROD NATIONAL UNIVERSITY"
MEDICAL FACULTY 2
Department of Internal Medicine
Department of Surgery Diseases
Department of Childhood Diseases
Department of Obstetrics and Gynecology

"APPROVED"
Dean of the Medical Faculty 2
Vasyl KALIY
" 28 " 05 2025



SYLLABUS
CC 53. CLERKSHIP II

Educational level	Second (Master)
Subject area	22 "Health" / I "Health and Social Welfare"
Specialty	222 "Medicine" / I2 "Medicine"
Educational program	"General Medicine"
Discipline status	Compulsory
The language of instruction	English

Uzhhorod 2025

"Clerkship" syllabus for higher education seekers of the subject area 22 "Health" / I "Health and Social Welfare", specialty 222 "Medicine"/ I2 "Medicine", educational program "General medicine".

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The syllabus was discussed and approved at the meeting of the Department
of Internal Medicine

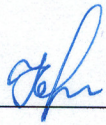
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Minutes № 11 of "28" May 2025

Head of the Department  /Marianna TOVT-KORSHYNSKA/

Approved by the Scientific-Methodical Commission of the Medical Faculty 2

Minutes № 9 of "28" May 2025

Head of the Scientific-Methodical Commission  /Nataliia MALETS/

1. DESCRIPTION OF THE EDUCATIONAL SUBJECT

Name of indicators	Distribution of academic hours according to the curriculum	
	Full-time study	Extramural form of study
ECTS credits – 6	Year of training:	
Total number of hours – 180	5th	-
Number of modules – 4	Semester:	
Weekly academic hours for full-time study: class-room academic hours - individual work hours - 3 student's self-study hours - 6	10th	-
	Lectures:	
	-	-
	Practical classes (seminars):	
	-	-
Type of final control: credit	Laboratory classes:	
	-	-
	Individual work	
	60	-
Form of final control: complex	Self-study:	
	120 hours	-

PURPOSE OF THE EDUCATIONAL SUBJECT

The purpose of studying the discipline "**Clerkship II**" is to consolidate the knowledge gained during the clinical disciplines study in practical skills improvement regarding the management of patients in outpatient departments: patient examination, acquire new skills in clinical and instrumental diagnostic methods evaluation and performance for different internal diseases, assessment of the patient status and effect of past treatment if it was provided, make a conclusion about the preliminary diagnosis and develop the plan of investigations and treatment, including the treatment effects monitoring, disability degree evaluation according to the rules of Health Care organization and apply those skills after practice.

According to the educational program, the study of the discipline contributes to the formation of the following competencies in higher education seekers:

General Competences (GC):

- GC 1. Ability to abstract thinking, analysis and synthesis.
- GC 2. The ability to learn and master modern knowledge.
- GC 3. Ability to apply knowledge in practical situations.
- GC 4. Knowledge and understanding of the subject field and understanding of professional activity.
- GC 5. Ability to adapt and act in a new situation.
- GC 6. Ability to make informed decisions.
- GC 7. Ability to work in a team.
- GC 8. Ability to interpersonal interaction.
- GC 11. Ability to search, process and analyze information from various sources.
- GC 12. Determination and persistence in relation to assigned tasks and assumed responsibilities.
- GC 15. The ability to preserve and multiply 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 technology, to use various types and forms of motor activities for active recreation and leading a healthy lifestyle.

Professional Competences (PC):

- PC 1. Ability to collect medical information about the patient and analyze clinical data.
- PC 2. Ability to determine the necessary list of laboratory and instrumental diagnostic methods 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 regimen of work and rest in the treatment and prevention of diseases.
- PC 5. The ability to determine the nature of nutrition in the treatment and prevention of diseases.
- PC 6. Ability to determine the principles and nature of treatment and prevention of diseases.
- PC 7. Ability to diagnose emergency conditions.
- PC 8. Ability to determine tactics and provide emergency medical care.
- PC 9. Ability to carry out medical evacuation measures.
- PC 10. Ability to perform medical manipulations.
- PC 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.

PC 12. The ability to determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Family planning counseling skills and contraceptive method selection.

PC 15. Ability to carry out an examination of work capacity.

PC 16. Ability to maintain medical documentation, including electronic forms.

PC 21. Clearly and unambiguously communicate one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists, in particular to students.

PC 22. Ability to manage healthcare workflows that are complex, unpredictable and require new strategic approaches.

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

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

3. PREREQUISITES FOR STUDYING THE EDUCATIONAL SUBJECT

"**Clerkship**" are mastering the following educational subjects (ES) of the educational program (EP):

ES 6 Medical Biology

ES 12 Physiology

ES 16 Nursing Practice

ES 22 Pharmacology

ES 23 Propaedeutics of Internal Medicine

ES 24 Propaedeutics of Pediatrics

ES 25 General Surgery (with clinical anatomy and operative surgery)

ES 26 Medical Psychology

ES 27 Nursing Practice

ES 28 Radiology

ES 29 Internal medicine, including endocrinology, medical genetics

ES 30 Pediatrics

ES 31 Surgery

ES 32 Obstetrics and gynecology

ES 39 Physical rehabilitation, sport medicine

ES 42 Clerkship

ES 44 Infectious diseases and physiology

4. EXPECTED LEARNING OUTCOMES

According to the educational program "General Medicine", the study of the educational subjects should ensure the achievement of the following program learning outcomes (PLO) by higher education seekers:

Program learning outcomes	PLO code
Obtain fundamental knowledge of the professional activity structure. To be able to carry out professional activities that require knowledge updating and integration. To be responsible for professional development, the ability for further professional training with a high level of autonomy.	PLO 1
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	PLO 4

the patient's examination, knowledge about the person, his organs and systems, establish a preliminary clinical diagnosis of the disease (according to list 2).	
Collect complaints, history of life and diseases, evaluate psychomotor and physical development of the patient, state of organs and systems of the body, based on the results of laboratory and instrumental studies, evaluate information regarding the diagnosis (according to list 4), taking into account the age of the patient.	PLO 5
To establish a 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 managing physician in the conditions of the health care institution (according to the list 2).	PLO 6
Assign and analyze additional (mandatory and optional) examination methods (laboratory, functional and/or instrumental) (according to list 4), patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).	PLO 7
Determine the main clinical syndrome or what causes the severity of the victim/victim's condition (according to list 3) by making a reasoned decision and assessing the person's condition under any circumstances (in the conditions of a healthcare facility, outside its borders), including in conditions of emergency and hostilities, in field conditions, in conditions of lack of information and limited time.	PLO 8
Determine the nature and principles of treatment (conservative, operative) of patients with diseases (according to list 2), taking into account the age of the patient, in the conditions of the 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.	PLO 9
Determine the necessary mode of work, rest and nutrition on the basis of the final clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes.	PLO 10
Determine the approach, plan and tactics of managing physiological pregnancy, physiological childbirth and the postpartum period by making a reasoned decision according to existing algorithms and standard schemes.	PLO 11
To assess the general condition of a newborn child by making a reasoned decision according to existing algorithms and standard schemes, observing the relevant ethical and legal norms.	PLO 12
Assess and monitor the child's development, provide recommendations on feeding and specifics of nutrition depending on age, organize preventive vaccinations according to the calendar.	PLO 13
To determine the state of functioning and limitations of a person's vital activities and the duration of incapacity for work with the preparation of relevant 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.	PLO 18

List 1 (syndromes and symptoms)

1. Anuria and oliguria
2. arterial hypertension
3. arterial hypotension
4. chest pain
5. pain in the limbs and back
6. pain in the perineum
7. vomiting
8. bulbar syndrome
9. fever
10. hemorrhagic syndrome
11. exanthema, enanthema
12. hepatomegaly and hepatolienal syndrome
13. headache
14. dysuria
15. Shortness of breath
17. asphyxia
18. fasten
19. dizziness
20. cardiomegaly
21. coma
22. external bleeding
23. internal bleeding
24. hemoptysis
25. meningeal syndrome
26. edematous syndrome
27. obesity (+ body weight)
28. paresis, paralysis
29. pneumothorax tense (closed)
30. pneumothorax relaxed (open)
31. valvular pneumothorax
32. polyuria
33. speech disorder (aphasia)
34. heart rhythm and conduction disturbances
35. sudden cardiac arrest
36. disorders of consciousness
37. itchy skin
38. urinary syndrome
39. dehydration syndrome
40. joint syndrome
41. convulsions
42. weight loss
43. cyanosis

List 2 (diseases)

Diseases of the cardiovascular system:

1. aortic aneurysms
2. atherosclerosis
3. varicose veins of the lower extremities
4. congenital heart defects
5. secondary arterial hypertension
6. acute occlusion of main and peripheral arteries;
7. endocarditis
8. essential and secondary arterial hypertension
9. ischemic heart disease
10. Cardites
11. cardiomyopathy
12. pulmonary heart
13. acquired heart defects
14. obliterating endarteritis
15. pericarditis
16. heart rhythm and conduction disturbances
17. heart failure
18. injuries of the heart and blood vessels
19. pulmonary embolism
20. phlebitis, thrombophlebitis

Congenital (Bruton's disease, Wiskott-Aldridge syndrome) and acquired immunodeficiency states

21. sepsis of newborns
22. surgical sepsis
23. idiopathic thrombocytopenic purpura
24. chronic radiation damage

Diseases of the musculoskeletal system and connective tissue:

25. ankylosing spondyloarthritis
26. congenital and acquired malformations of the musculoskeletal system
27. acute rheumatic fever
28. dermatomyositis and polymyositis
29. Neoplasm of the musculoskeletal system
30. osteoarthritis
31. osteomyelitis
32. gout
33. polytrauma
34. reactive arthritis
35. rheumatoid arthritis
36. systemic scleroderma
37. systemic lupus erythematosus

38. systemic vasculitis (polyarteritis nodosa, hemorrhagic vasculitis, hypersensitivity vasculitis)
39. typical fractures of the bones of the shoulder, forearm, hand, hip, leg, foot
40. pelvis injury
41. spine injury
42. damage to large joints (hip, knee, ankle-foot, elbow)
43. chronic rheumatic disease
44. juvenile rheumatoid arthritis
- Infectious and parasitic diseases:**
45. bacterial food poisoning
46. rabies
47. botulism
48. viral hepatitis
49. helminth infections
50. herpesvirus diseases
51. diphtheria
52. candidiasis
53. intestinal bacterial infections
54. intestinal viral infections
55. tick-borne viral encephalitis
56. leptospirosis
57. malaria
58. meningococcal infection
59. especially dangerous viral infections
60. tetanus
61. protozoal infections
62. rickettsiosis
63. anthrax
64. rabies
65. Lyme disease
66. disease caused by human immunodeficiency virus (HIV)
67. chlamydial infections
68. cholera
69. plague

Diseases of the female reproductive system:

pathologies of pregnancy:

217. multiple pregnancy
218. vomiting of pregnant women
219. pregnancy with extragenital pathology
221. fetal growth retardation
223. hydatidiform mole
224. placenta previa
225. premature detachment of the placenta
226. premature birth and delayed pregnancy
227. ectopic pregnancy
228. preeclampsia and eclampsia
229. spontaneous abortion
232. fetal distress during childbirth
233. childbirth and postpartum bleeding
234. incorrect positions and presentation of the fetus
235. postpartum septic diseases
236. injuries of the uterus and birth canal
- gynecological diseases:
237. abnormal uterine bleeding
238. ovarian apoplexy
239. infertility
240. congenital malformations of the female genital organs
241. benign dysplasia of mammary glands
242. benign and precancerous neoplasms of female genital organs
243. endometriosis
244. inflammatory diseases of female genital organs
245. malignant neoplasms of female genital organs
246. mastitis
247. neoplasm of the mammary gland

List 3 (emergency conditions)

1. asphyxia (including neonatal)
2. hypertensive crisis
3. acute urinary retention
4. acute kidney damage
5. acute heart failure
6. acute poisoning, including combat poisonous substances
7. acute psychosis
8. acute coronary syndrome
9. acute radiation and chemical damage, including in field conditions and emergency situations
10. acute cerebral insufficiency
11. electric shock
12. acute bleeding
13. syndrome of acute blood loss, including in field conditions and emergency situations
14. sudden cardiac arrest
15. collapse
16. loss of consciousness and comatose states
17. renal colic
18. acute anaphylactic reactions
19. acute heart rhythm disturbances,
20. venous and arterial thromboembolism
21. convulsive syndrome
22. shocks
23. bites of snakes, insects, animals
27. cold injury, including in field conditions
28. thermal injury, including in field conditions
32. strangulation asphyxia
37. burns, including in field conditions

List 4 (laboratory and instrumental studies)

1. analysis of synovial fluid
2. urine analysis according to Zimnitskyi
3. urine analysis according to Nechiporenko
4. blood proteins and their fractions, C-reactive protein
5. blood lipids and lipoproteins and their fractions
6. blood hormones
7. creatinine, blood and urine urea, glomerular filtration rate
8. blood electrolytes
9. blood aminotransferases
10. coagulogram
11. blood uric acid
12. blood alkaline phosphatase
13. histomorphological study of a biopsy of parenchymal organs
14. histomorphological study of biopsy of mucous membranes
15. histomorphological study of muscle and skin biopsy
16. standard ECG (in 12 leads)
17. echocardiography and dopplerography
18. Complete blood count
19. Urinalysis
20. sugar and acetone in urine
21. general analysis of cerebrospinal fluid
22. general immunological blood profile
23. serological reactions in infectious diseases
24. express tests for viral diseases
25. amplification methods for infectious diseases (PCR, LLR)
26. serological reactions in autoimmune diseases
27. microbiological examination of biological fluids and secretions
28. measurement of radiation (sound, vibration, ionizing), individual radiometry.
29. X-ray contrast angiography
30. methods of instrumental visualization of abdominal organs
31. methods of instrumental visualization of chest cavity organs
32. methods of instrumental visualization of the skull, spine, spinal cord, bones and joints
33. measurement of ergonomic indicators of difficulty and intensity of work
57. cytological examination of the cervix
50. methods of instrumental visualization of the genitourinary system

List 5 (medical manipulations)

1. perform CPR

2. perform defibrillation using a manual automatic cardioverter defibrillator
3. register a standard 12-lead ECG
4. to temporarily stop external bleeding
5. apply hemostatic tourniquets and use hemostatic agents, including in field conditions
6. install a nasogastric and orogastric tube
7. administer drugs (intravenous jet and drip, intraosseous), incl. in field conditions
8. provide peripheral venous access
9. measure blood pressure
10. to restore the patency of the respiratory tract
11. perform bladder catheterization with a soft probe
12. determine blood groups, Rh-factor
13. transfuse blood components and blood substitutes
14. perform primary surgical treatment of the wound, dressing, removal of skin sutures, including in field conditions
15. carry out transport immobilization
16. perform a bimanual examination and examination of a woman in mirrors
17. carry out a digital examination of the prostate
18. carry out a clinical examination of the mammary glands
19. to conduct an examination and evaluation of the external genitalia of boys
20. assess the state of sexual development of children

Expected learning outcomes (ELO) that should be achieved by students after mastering the discipline "**Clinical Practice (Internal Medicine, on-site)**":

ELO code	Expected learning outcomes of the discipline	PLO code
ELO 1	The ability to carry out professional activities that require updating and integration of knowledge regarding inpatient management of patients with internal diseases. Carry out professional development and further professional training with a high level of autonomy.	PLO 1
ELO 2	The ability to apply knowledge of basic and clinical biomedical sciences to solve professional problems in the field of healthcare for management of internal diseases patients in Outpatient Departments.	PLO 2
ELO 3	Ability to critically analyze clinical and patient management organization questions in the field of outpatient treatment of internal diseases, medicine and interdisciplinary problems related to it.	PLO 3
ELO 4	Ability to highlight and identify leading clinical symptoms and syndromes (from the 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/her organs and systems, establish a preliminary and final clinical diagnosis of the disease (according to list 2).	PLO 4
ELO 5	The ability to collect complaints, present illness and past medical history, conduct physical examination, to evaluate the state of different organs and systems, basing on the results of laboratory and instrumental studies, evaluate information regarding the diagnosis (from list 4).	PLO 5
ELO 6	The ability to formulate a final clinical diagnosis by making a reasonable decision and analyzing the received subjective and objective data of clinical, additional examination, with differential diagnosis, observing the relevant ethical and legal norms, under the supervision of the physician in the Outpatient Departments (with list 2).	PLO 6
ELO 7	The ability to prescribe and analyze additional diagnosis tools (mandatory and optional) - laboratory, functional and/or instrumental (according to the list 4)	PLO 7

	of patients with internal diseases of organs and body systems for differential diagnosis of diseases and outpatient treatment (from list 2).	
ELO 8	The ability to determine the main clinical syndrome or what causes the severity of the patient's condition and carry out the necessary diagnostic manipulations (from the list 5) by making a reasonable decision and assessing the person's condition under any circumstances (in the conditions of a health care institution or outside it), including conditions of emergency and hostilities (from the list 3), in absence of an access to Hospitals, in conditions of a limited information and limited time.	PLO 8
ELO 9	The ability to determine the nature and principles of outpatient treatment of patients with internal diseases (from the list 2), taking into account the age of the patient, in the conditions of a health care institution or outside its borders and at the different stages of medical evacuation, including absence of an access to Hospitals, on the basis of a preliminary diagnosis, observing relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard protocols, in case of the need to expand the standard treatment regimens, to justify personalized recommendations under the control of the supervising physician in Hospital	PLO 9
ELO 10	The ability to determine the necessary mode of work, rest and nutrition based on the final diagnosis, considering the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard protocols.	PLO 10
ELO 11	The ability to determine the approach, plan and tactics of managing physiological pregnancy, physiological childbirth and the postpartum period by making a reasonable decision according to existing algorithms and standard protocols.	PLO 11
ELO 12	The ability to assess the general condition of a newborn child by making a reasonable decision according to existing algorithms and standards, observing the relevant ethical and legal norms.	PLO 12
ELO 13	The ability to assess and monitor the child's development, provide recommendations on feeding and specifics of nutrition depending on age, organize preventive vaccinations according to the calendar.	PLO 13
ELO 14	The ability to determine the functional status of and limitations of a person's vital activities and the duration of disability with the preparation of relevant documents, in the conditions of a health care institution, based on data about the disease and its course as well as a person's professional activity. Maintenance of medical documentation regarding the patient's case on the basis of regulatory documents.	PLO 18

5. DIAGNOSTIC TOOLS AND EVALUATION CRITERIA OF LEARNING OUTCOMES

Means of assessment and methods of demonstrating learning outcomes

Means of assessment and methods of demonstrating learning outcomes in the discipline are:

ELO 1 - oral answer

ELO 2 – clinical examination of the patient (solving clinical problems (oral, written)),

ELO 3 – clinical analysis of the patient (solving clinical problems), analysis of different tests results, prescriptions and their correction

ELO 4 – clinical examination of the patient (solving clinical problems), evaluation of laboratory tests results, analysis and evaluation of instrumental methods results and their parameters characterising the functions of the human body

ELO 5 – clinical problem solving tasks, sampling for different laboratory studies and their results evaluation, evaluation the of instrumental methods results and parameters characterizing the functions of the human body

ELO 6 – patient care, problem solving tasks, clinical cases, evaluation of laboratory tests results, analysis and evaluation of instrumental research results and parameters characterizing different systems functions and diseases

ELO 7 – analysis of prescriptions and their correction, problem solving tasks (oral, written, complex)

ELO 8 – case history, problem solving tasks (oral, written), oral interview

ELO 9 – demonstration of practical skills in providing emergency medical care, oral interview

ELO 10 – demonstration of medical procedures in Hospital, problem solving tasks (oral, written), oral interview

ELO 11 – clinical examination of the patient (solving clinical problems), problem solving tasks (oral, written), oral interview

ELO 12 - clinical examination of the patient (solving clinical problems), problem solving tasks (oral, written), oral interview

ELO 13 - clinical examination of the patient (solving clinical problems), problem solving tasks (oral, written), oral interview

ELO 14 - demonstration of features in case of disabled patients examination with different disabilities, problem solving tasks regarding the disability evaluation and medical records maintenance (oral, written, computer)

Forms of control and criteria for learning outcomes evaluation

Forms of current control: (oral, written, demonstration of skills, etc.)

Form of module control: (oral and written)

Form of final semester control: (credit)

Distribution of points received by higher education seekers (Internal Medicine)

Module 1. Internal Medicine

Current success (Individual work in the Department)					Head of the Department characteristic	Individual work (night shift)	Diary	Final module control	Total
T1	T2	T3	T4	T5	5	5	10	80	200
20	20	20	20	20					

T1, T2 ... – topics

Assessment of certain types of educational work in the discipline

Type of activity of the higher education seeker	Module 1
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	Numbers	Maximum number of points (total)
Individual work in the Department (clinical examination of the patient and filling out the case history under the control of supervising doctor, participation in ward round with the head of the department)	5x20	100
Independent work (night shift)	1x5	5
Feedback and evaluation of work from the head of the department	1x5	5
Diary	1x10	10
Final module control (oral or computer testing, demonstration of the practical skill), that includes: - - interpretation of laboratory tests (general clinical, biochemical, special according to the list) - interpretation of instrumental test results (X-ray, US, spirometry, other according to the list) - demonstration of certain skills and manipulations (patients preparation for laboratory and instrumental tests, thoracocentesis, paracentesis) - principles of providing first aid at biliary (liver) colic, asthma attack	1x20	20
	1x20	
	1x20	20
	1x20	
		20
		80
Total		200

Evaluation of self-study: the number of points for the student's individual independent work depends on its volume and significance, but no more than 5 points. These points are added to the sum of points scored by the student for the current educational activity.

One of the activities of the student and his supervision by the teacher is preparation of the clinical practice Diary, which is filled in by the student every day and signed by the head of the department after the completion of the independent part of the student's work in the hospital. At the end of the practice, the student fills in the Final Report on the work performed. The presence of the completed Diary which is certified by the head of the department signature and the Final Report is mandatory for the admission of the student to the final module control of the practice. The maximum number of points a student can receive for the diary is 10 points.

A mandatory component of the certain types of educational work in the discipline evaluation is a feedback and evaluation of the student's work by the head of the therapeutic department, where a maximum of 5 points can be awarded. These points are added to the total points scored by the student for the current educational activity.

Students who have completed the practice program, properly prepared reporting documents (Diary with a final report) and have received at least 67 points for the current activity are admitted to the final module control.

The final module control in Module 1 comprises:

- interpretation of laboratory tests (general clinical, biochemical, special according to the list) from the number of examined patients during clinical practice.
- interpretation of instrumental examination results (X-ray, ultrasonography, spirometry, according to the list)
- practical skills and medical manipulations demonstration (preparation of patients for laboratory and instrumental examinations, pleural puncture, paracentesis)
- principles of providing first aid for biliary (hepatic) colic, asthma attack

Form of final control: credit.

The traditional grade "passed" is given only to students who have passed all modules in the discipline ES 42 "Clerkship". For conversion to ECTS (European Credit Transfer System) ratings in the range from A to E, the average number of points of the four modules, which are structured into the educational discipline ES 42 "Clerkship", is calculated.

A grade FX in the discipline ("failed") is given to students:

- who failed to pass at least one module in the discipline after completing its study;
- who did not score the minimum number of points for the current educational activity;
- who did not pass the modular test.

Such students have the right to repeat the final module control, no more than 2 times according to the schedule established by the dean's office.

Module 2. Surgery

Current assessment and individual work					Head of Department feedback	Night shift	Diary	Final Module Control	Total
T1	T2	T3	T4	T5	5	5	10	80	200
20	20	20	20	20					

T1, T2 ... – topics

Assessment of certain types of educational work in the discipline

Type of activity of the higher education seeker	Module 1	
	Numbers	Maximum number of points (total)
Individual work in the Department (clinical examination of the patient and filling out the case history under the control of supervising doctor, participation in ward round with the head of the department)	5x20	100
Independent work (night shift)	1x5	5

Feedback and evaluation of work from the head of the department	1x5	5
Diary	1x10	10
Final module control	80	80
Total		200

Module 3. Pediatrics

Current assessment and individual work					Head of Department feedback	Night shift	Diary	Final Module Control	Total
T1	T2	T3	T4	T5	5	5	10	80	200
20	20	20	20	20					

T1, T2 ... – topics

Assessment of certain types of educational work in the discipline

Type of activity of the higher education seeker	Module 1	
	Numbers	Maximum number of points (total)
Individual work in the Department (clinical examination of the patient and filling out the case history under the control of supervising doctor, participation in ward round with the head of the department)	5x20	100
Independent work (night shift)	1x5	5
Feedback and evaluation of work from the head of the department	1x5	5
Diary	1x10	10
Final module control	80	80
Total		200

Module 4. Obstetrics and gynecology

Current assessment and individual work	Head of Department	Night shift	Diary	Final Module	Total
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					feedback			Control	
T1	T2	T3	T4	T5	5	5	10	80	200
20	20	20	20	20					

T1, T2 ... – topics

Assessment of certain types of educational work in the discipline

Type of activity of the higher education seeker	Module 1	
	Numbers	Maximum number of points (total)
Individual work in the Department (clinical examination of the patient and filling out the case history under the control of supervising doctor, participation in ward round with the head of the department)	5x20	100
Independent work (night shift)	1x5	5
Feedback and evaluation of work from the head of the department	1x5	5
Diary	1x10	10
Final module control	80	80
Total		200

Criteria of current educational activity evaluation

The grade "excellent" (180-200 points) is awarded to a student who participated in planned and unscheduled examinations and manipulations of patients he supervised, adequately and comprehensively reflected his work in the practice diary, took part in one night duty (together with the doctor on duty), answered correctly (at least 90% correct answers) to all questions given by the teacher regarding his work in the respective department and received excellent feedback from the head of the department.

A grade "good" (148-179 points) is awarded to a student who participated in planned and unscheduled examinations and manipulations of the patients he supervised, adequately and comprehensively reflected his work in the practice diary, took part in one night shift (together with the doctor on duty), answered correctly (at least 74% of correct answers) to all questions asked by the teacher regarding his work in the relevant department.

A grade "satisfactory" (120-147 points) is awarded to a student who participated in planned and unscheduled examinations and manipulations of patients he supervised, adequately and

comprehensively reflected his work in the practice diary, took part in one on night duty (together with the doctor on duty), answered correctly (at least 60% correct answers) to all questions posed by the teacher regarding his work in the relevant department.

The grade "unsatisfactory" (0-119 points) is given to a student who did not participate in the discussion of the most difficult questions on the topic, gave less than 60% correct answers to the standardized test tasks, made gross mistakes in answers to written tasks or not at all gave answers to them, did not perform practical work and did not present its results in a proper manner form

Criteria for module work evaluation

A module work is done by filling in the Case History Form according to the details of the patient. After the Case History submission a Case Report is to be prepared with oral interview. The grade "*excellent*" (45-50 points) is awarded to students who gave at least 90% correct answers to standardised test tasks and completed written tasks without errors.

The grade "*good*" (35-45 points) is awarded to students who gave at least 74% of the correct answers to standardised test tasks and made some minor mistakes in the answers to written tasks.

A student who gave at least 60% of the correct answers to standardised test tasks and made significant mistakes in the answers to written tasks receives the grade "satisfactory" (30-35).

The grade "*unsatisfactory*" (0-29 points) is awarded to students who gave less than 60% in total, made gross errors in answers as well as Case History completion, or did not provide answers to the given questions.

Final control evaluation

The final semester rating is calculated as the arithmetic average of the grades. According to the Regulation on the assessment of students' educational achievements according to the credit-module system, if the final module grade is at least 120 points, then with the consent of the student, it can be counted as the final (semester) grade for the academic discipline. Students who are not satisfied with the final positive grades given by the teacher based on the results of module tests, as well as those who received "unsatisfactory" grades and at the same time have no unfulfilled practical (laboratory) classes, have the right to take a credit (exam) in the discipline. Full-time students are admitted to the final (semester) control of a specific discipline in the form of a credit or exam if, based on the results of the module tests, they scored at least 35 per cent of the possible points. Based on the results of the answers given during the exam/credit, a grade is awarded according to a 200-point scale. Regardless of whether the student takes the exam (credit) because their final module grade is unsatisfactory (70-119 points) or to increase the positive grade, the teacher gives the student a grade based solely on the level of their knowledge, demonstrated during the exam (credit), that is, based on 200 points, but the final (semester) grade cannot be lower than the final module grade.

Criteria for the final control evaluation

- the grade "*excellent*" (180-200 points, A) is awarded to students who: have comprehensive, systematic, and deep knowledge of educational and syllabus material; are able to independently perform the tasks prescribed by the syllabus, apply the acquired knowledge and skills in non-standard situations; learned the basic and familiarise themselves with the additional literature recommended by the program; mastered the

interrelationship of the main concepts of the discipline and are aware of their importance for the profession they acquire; freely express their own opinions, independently evaluate various life phenomena and facts, revealing their personal position; independently determine the individual goals of their own educational activity, revealed creative abilities and used them when studying the syllabus material, as well as demonstrated interest to scientific work.

- grade "*good*" (164-179 points, B) is awarded to students who: have comprehensive, systematic, and deep knowledge of educational and syllabus material, including applying it in practice, have sufficient systematic knowledge in accordance with the syllabus material, apply it reasonably in different situations; have the ability to independently search for information, as well as to analyse, set and solve professionally oriented problems; while answering the exam/credit questions they might have some inaccuracies, with correcting those themselves. The student should also be able to choose convincing arguments to confirm the studied material;
- the grade "*good*" (148-163 points, C) is awarded to students who: completed the work in general, but during the final control make a certain number of mistakes; are able to compare, generalise, systematise information under the guidance of a teacher, in general independently apply it in practice, control their own activities; learned the curriculum material, successfully completed the tasks prescribed by the program, familiarised themselves with the basic literature recommended by the program;
- the grade "*satisfactory*" (128-147 points, D) is awarded to students who: know the basic syllabus material to the extent necessary for further study and its use in the future profession; perform tasks well, but with a significant number of errors; familiarised themselves with the basic literature recommended by the syllabus; make mistakes when completing tasks during classes or exams but find ways to correct them under the guidance of the teacher.
- the grade "*satisfactory*" (120-127 points, E) to students who: have basic knowledge of educational and syllabus material in the amount necessary for further study and its application in the future profession, and the performance of tasks meets the minimal criteria. Knowledge is reproductive in nature.
- grade "*unsatisfactory*" (70-119 points, FX) is awarded to students who: revealed significant gaps in the knowledge of the main syllabus material and made fundamental mistakes during the completion of tasks provided by the syllabus.
- grade "*unsatisfactory*" (0-69 points, F) is awarded to students who learned the educational material only at the level of elementary recognition and reproduction of individual facts or did not learn it at all; made gross errors when completing the tasks provided by the syllabus; cannot continue their studies and are not ready for professional activity after graduating from the university without re-studying this discipline.

6. SYLLABUS

6.1. The content of the discipline Individual work

Module 1. Internal Medicine

Topic 1. Structure and functions of the Outpatient Clinic (Department).

Procedure of the patients' registration, initial investigation, sampling and triage of the admitted patients, hospitalization criteria in different internal diseases. Diagnostic facilities of Outpatient Clinic (Department). Principles of work with Medical Information Systems (MIS) in Outpatient Clinic (Department). Electronic medical records. Stratification of outpatients with internal diseases characterized by comorbidities. Preliminary diagnosis, final diagnosis, concomitant diseases and complications. Case records in the Outpatient Clinic (Department).

Topic 2. Management of outpatients with the most common cardiovascular diseases.

Management of patients with hypertension and coronary artery disease. Incidence and features of cardiovascular diseases in military divisions and combat conditions. Acute and chronic heart failure management strategy.

Topic 3. Management of patients with urgent cardiovascular conditions, prehospital emergency care.

Management of patients with acute coronary syndrome. Diagnostic criteria, differential diagnosis and emergency aid in patients with acute coronary syndrome treatment rules of treatment and maintenance after discharge from the Hospital. Management of outpatients with cardiac arrhythmias. Diagnostic criteria, differential diagnosis and emergency aid in patients with cardiac arrhythmias, indications for hospitalization, rules of treatment and maintenance after discharge from the Hospital. Outpatient management of patients with COVID-19-associated cardiovascular disorders.

Topic 4. Management of outpatients with the most common kidney and rheumatology diseases.

Management of patients with glomerulonephritis, pyelonephritis, nephrolithiasis and other kidney diseases in Outpatient Clinic (Department). Diagnostic criteria, differential diagnosis indications for hospitalization, treatment strategy. Incidence and features of kidney diseases in military divisions and combat conditions. Outpatient management of patients with chronic kidney diseases with kidney failure. Diagnostic criteria, differential diagnosis, indications for hospitalization, treatment strategy. Management of outpatients with arthritis and arthrosis. Principles of differential diagnosis in suspected rheumatoid arthritis, gout and other diseases characterized by joint syndrome. Diagnostic criteria, indications for hospitalization, treatment strategy. Outpatient management in collagen vascular disorders. Systemic lupus erythematosus, dermatomyositis, systemic scleroderma, ankylosing spondylitis: diagnostic criteria, differential diagnosis, treatment strategy.

Topic 5. Management of outpatients with the most common occupational, allergic and infectious diseases. Rehabilitation in Outpatient Clinic (Department).

Principles of diagnosis and differential diagnosis of infectious diseases, indications for referral to the Infectious Diseases Clinic. Antiepidemic aids in the focus of infection, quarantine in different infections. Outpatient management of patients with the most common occupational diseases. Approach to the patient: diagnostic criteria, differential diagnosis, procedure of occupational diseases verification. Outpatient management of the most allergic diseases. Principles of allergies diagnosis and treatment. Stratification of patients with allergies. Referral to the allergologist and specific desensitization indications. Outpatient management of immune insufficiency patients. Approach to the patient: diagnostic criteria of the most common immune deficiencies, differential diagnosis, treatment strategy. Case History submission. Module.

Module 2. Surgery

Topic 1. Surgery Department(s) in the Outpatient Clinic.

Indications and procedure of referral and hospitalization in suspected surgical diseases. Principles of surgical diseases management, including prehospital emergency care. Procedure of registration in Surgery Department of Outpatient Clinic, initial investigation, sampling and triage of the admitted patients in different surgical diseases. Stratification of patients with surgical diseases. Outpatient management. Diagnostic facilities.

Topic 2. Approach to the outpatient in Surgery.

Features of interview, physical examination, diagnosis and differential diagnosis in surgical diseases, including additional diagnosis tools (laboratory tests, instrumental investigation methods etc.) in outpatient surgical care. Principles of work with Medical Information Systems (MIS) in the Surgery Department(s) of Outpatient Clinic. Electronic medical records. Preliminary diagnosis, final diagnosis, concomitant diseases and complications in Surgery. Case History features in outpatient surgery.

Topic 3. Outpatient treatment in Surgery (conservative and operative).

Rules of outpatient treatment in Surgery. Indications to operative treatment in different surgical diseases. Planned minor (outpatient) surgery manipulations, plan of the patients investigation before minor and major surgeries, indications to hospitalization. Pre- and postoperative care, anaesthesia features in outpatient surgery. Importance, indications and features of minimally invasive operations in Outpatient Clinic, the proper strategy selection.

Topic 4. Emergency care in Surgery.

Principles of prehospital emergency care in Surgery. Symptoms and signs of urgent surgical conditions, investigations in case of urgent surgeries referral. Management of different shock variants. Strategy and tactics in Outpatient Clinic, indications to hospitalization, including Intensive Care Unit. Urgent and delayed surgeries.

Topic 5. Rehabilitation after surgical diseases patients in Outpatient Clinic.

Outpatient rehabilitation and physiotherapy in case of surgical diseases. Follow-up recommendations and dynamics outpatient observation in different surgical diseases. Disability evaluation, maintenance of medical records. Rules of the patients transfer between Departments in case of necessity. Case History submission. Module.
Module.

Module 3. Pediatrics

Topic 1. Pediatric (Childhood Diseases) Outpatient Clinic (Department).

Registration of children in Outpatient Pediatric Clinic, including newborns. Principles of paediatric diseases outpatient management, including prehospital emergency care. Evaluation of children' developmental milestones of different age. Initial investigation, sampling and triage in different paediatric diseases in Outpatient Department. Diagnostic facilities.

Topic 2. Approach to the outpatient in Pediatrics.

Features of interview, physical examination, diagnosis and differential diagnosis in children, including additional diagnosis tools (laboratory tests, instrumental investigation methods etc.) in Pediatric Outpatient Clinic. Principles of work with Medical Information Systems (MIS) in the Pediatric Hospitals (Departments). Electronic medical records. Preliminary diagnosis, final diagnosis, concomitant diseases and complications in Outpatient Pediatrics. Case History features in outpatient pediatric.

Topic 3. Outpatient treatment in Pediatrics.

Rules of outpatient treatment in Pediatrics. Indications to hospitalisation in different children diseases. Outpatient management of infants, including preterm infants, rules of care and feeding. Management of children with the most common diseases on early childhood. Neonatal jaundice, haemolytic and hemorrhagic diseases of newborn, childhood injuries including birth

trauma. Anemia and other blood disorders in Outpatient Pediatrics, including hemoblastoses differential diagnosis. Endocrine childhood diseases.

Topic 4. Infectious diseases and emergency care in Outpatient Pediatrics.

Principles of prehospital emergency care in Paediatrics. Neonatal pneumonia, purulent-septic conditions management, indications for hospitalization, including Intensive Care Unit. Symptoms and signs of urgent conditions in children of different age, investigations in case of urgent conditions. Features of neonatal emergencies, strategy and tactics of medical care. Outpatient management of children with COVID-19.

Topic 5. Outpatient rehabilitation of children.

Rehabilitation and physiotherapy in Paediatric Outpatient Clinic. Principles of rehabilitation in neonatology, endocrine, blood and other pediatric diseases. Follow-up outpatient observation in children depending on the age. Rules of the children transfer between different facilities in case of necessity, disability evaluation. Case History submission. Module.

Module 4. Obstetrics and Gynecology

Topic 1. Outpatient Health Care in Obstetrics and Gynecology. Principles of gynaecology primary care.

Outpatient Clinic or Outpatient Department in Maternity Hospital structure and functions. Registration of females in Gynaecology outpatient Clinic (Department) for observation. Initial investigations, routine women health screening procedures, indications for consultations of other specialists. Indications for hospitalization in complicated pregnancy and female reproductive organs diseases.

Topic 2. Approach to the outpatient care in case of physiological and complicated pregnancy and after delivery.

Features of interview, physical examination, diagnosis and differential diagnosis in pregnancy, including additional diagnosis tools (laboratory tests, instrumental investigation methods etc.). Principles of work with Medical Information Systems (MIS) in the Outpatient Obstetrics and Gynaecology. Electronic medical records. Preliminary diagnosis, final diagnosis, concomitant diseases and complications in Outpatient Obstetrics. Case History features in pregnancy.

Topic 3. Outpatient care in Gynaecology. Management of female with reproductive system diseases in different age.

Management of females with reproductive organs diseases, including neuroendocrine syndromes, mammary gland diseases, premalignant and malignant tumours of mammary glands and reproductive organs. Disturbances of menstrual cycle outpatient management in different age.

Topic 4. Emergency care and features of management in case of complicated pregnancy, delivery and postpartum period.

Management of urgent conditions in obstetrics and gynaecology (bleeding, miscarriage, hypertension, early and late gestosis, preeclampsia, eclampsia), emergency aid. Management of preterm and postterm delivery, principles of neonatal care in preterm and postterm delivery. Indications to urgent and planned Caesarean section. Management of urgent postpartum conditions.

Topic 5. Rehabilitation in case of complicated pregnancy and after delivery.

Outpatient Rehabilitation in Maternity Hospital. Principles of rehabilitation in case of gynaecology diseases, complicated pregnancy, extragenital diseases, after physiological and complicated delivery, including Caesarean section. Outpatient neonatal rehabilitation in Maternity Hospital. Case History submission. Module.

Self study

Module 1. Internal Medicine

Topic 1. Arterial hypertension. Atherosclerosis. Myocarditis and Cardiomyopathies. Heart failure.

Topic 2. Coronary heart disease (CHD): acute myocardial infarction. Chronic forms of coronary artery disease

Topic 3. Cardiac arrhythmias and conduction disturbances

Topic 4. Symptoms and syndromes of common rheumatic disorders. Rheumatoid arthritis. Osteoarthritis. Ankylosing Spondylitis. Reactive arthritis. Gout. Pseudogout

Topic 5. Acute Rheumatic Fever. Systemic lupus erythematosus. Systemic sclerosis. Dermatopolymyositis. Systemic vasculitis

Topic 6. Glomerulonephritis. Nephrotic and nephritic syndromes. Pyelonephritis. Tubulointerstitial nephritis, renal amyloidosis

Topic 7. Acute and chronic renal failure.

Topic 8. Black-lung disease (Pneumoconiosis). Silicosis. Silicatosi. Carboconiosis. Metalconiosis. Occupational bronchial asthma. Dust bronchitis (COPD caused by dust). Exogenous allergic alveolitis

Topic 9. Occupational diseases caused by physical factors (vibration disease, noise disease, radiation sickness, altitude disease, decompression disease, overheat, cooling), with major affection of nervous system and blood.

Topic 10. Immunodeficiency diseases. Primary and secondary immunodeficiency. Basic principles of allergy diagnosis and treatment.

Topic 11. Pollinosis. Allergic rhinitis. Allergic asthma. Urticaria and angioedema. Drug allergy/Food allergy.

Topic 12. CPR and emergency aid in cardiogenic shock, hypertensive crisis, stroke, syncope and other life threatening cardiovascular diseases complications.

Topic 13. Emergency aid in anaphylactic shock, severe toxic allergic drug reaction, angioedema, insect bites, life threatening asthma.

Topic 14. First aid at threatening conditions owing to the effect of the occupational factors (acute poisonings, pulmonary edema, acute hemolytic crisis, metallic fever).

Topic 15. Rehabilitation in cardiovascular, rheumatology, nephrology, allergic and occupational diseases.

Module 2. Surgery

Topic 1. Surgical management of thyroid gland diseases. Thyrotoxic goiter. Endemic goiter. Thyreoiditis. Thyroid cancer. Surgical treatment indications.

Topic 2. Surgical management of mammary gland diseases. Mastitis. Fibrocystic disease of the breast. Benign tumors. Surgical treatment.

Topic 3. Surgical management of patients with liver diseases. Cirrhosis. Portal hypertension. Parasitic and non-parasitic diseases of the liver. Surgical diseases of the spleen.

Topic 4. Surgical management of extrahepatic bile ducts disorders. Obstructive jaundice. Postcholecystectomy syndrome. Clinical symptoms. Diagnostics. Differential diagnosis. Surgical treatment.

Topic 5. Surgical management of acute and chronic pancreatitis. Clinical symptoms. Diagnostics. Complications. Treatment

Topic 6. Management of patients with postresection and postvagotomy syndromes.

Topic 7. Surgical management of patients with colon diseases. Nonspecific ulcerative colitis. Crohn's disease. Colon polyposis. Diverticulosis. Acute paraproctitis. Chronic paraproctitis. Epithelial paracoccidoidal canals. Hemorrhoid. Anal fissure.

Topic 8. Surgical management of patients with acute and chronic lower limb ischemia. Atherosclerosis obliterans. Endarteritis obliterans. Arterial embolism and thrombosis. Differential diagnosis. Methods of surgical treatment.

Topic 9. Surgical management of patients with arterial aneurysms. Aneurysms of the thoracic and abdominal aorta. Aneurysms of peripheral arteries. Abdominal ischemic syndrome. Chronic cerebrovascular disease. Pulmonary embolism.

Topic 10. Surgical management of varicose veins disease. Lower extremities varicose veins disease. Deep vein thrombosis. Postthrombotic syndrome.

Topic 11. Management of patients with trauma. Head, neck and extremities trauma. Surgical complications and management.

Topic 12. Management of patients with trauma. Chest and abdominal trauma. Surgical complications and management.

Topic 13. Management of children with different injuries and traumas.

Topic 14. Pediatric surgery diseases in different age. Conservative and operative management.

Topic 15. Management of children with pediatric surgery emergencies.

Module 3. Pediatrics

Topic 1. Outpatient medical care of newborns, levels of medical care. The concept of perinatal and neonatal periods. Care for the baby after birth. Indicators of adaptation after discharge from Maternity Hospital. Transient states. The main causes of neonatal and perinatal mortality.

Topic 2. Vaccination and neonatal screening. Care of premature newborns organization. Causes of premature birth. Adjusted age and methods for its determination (Ballard scale). The "mother kangaroo" method. Anemia of prematurity. Retinopathy of prematurity. Neonatal hypoglycemia.

Topic 3. Breastfeeding of mature and premature babies. Methods of feeding (enteral, through a tube, parenteral nutrition, "minimal trophic nutrition").

Topic 4. Management of newborns with perinatal asphyxia (intrauterine asphyxia, neonatal asphyxia). Diagnostic signs (criteria) of asphyxia severity. Respiratory disorders of newborns. Respiratory failure in newborns. Respiratory distress syndrome.

Topic 5. Management of childbirth injuries (extracranial hemorrhage, intracranial birth injuries, Damage to the sternocleidomastoid muscle). Paresis (paralysis) of the facial nerve. Spinal cord injury. Lesions of the humeral plexus. Bone fracture. Soft tissue damage. Diagnosis. Clinic. Treatment.

Topic 6. Management of newborns with neonatal jaundice, hemolytic and hemorrhagic diseases of newborns. Methods of clinical examination and evaluation of jaundice. Criteria for pathological jaundice. Treatment. Phototherapy. Indications for replacement blood transfusion

Topic 7. Emergency management in urgent conditions of the newborn. Indications for primary care. Initial steps to stabilize the condition of the newborn. Newborn resuscitation algorithm. Assessment of the condition of the newborn during medical care.

Topic 8. Management of the newborn in case of intrauterine and prenatal infections. TORCH - infections. Ways of infection. Typical symptoms of the most common infections. Laboratory diagnostics. Treatment. Prevention.

Topic 9. Management of newborns with local and systemic purulent-inflammatory diseases. Localized forms. Vesiculopustulosis. Vesicles of newborns. Ritter's exfoliative dermatitis. Newborn erysipelas. Conjunctivitis. Pseudofurunculosis. Purulent mastitis. Omphalitis. Epiphyseal osteomyelitis. Sepsis.

Topic 10. Management of newborns with neonatal pneumonia. Classification. Etiology. Clinical manifestations. Diagnostic criteria. Differential diagnosis. Treatment. Features of pneumonia in premature infants.

Topic 11. Management of children with common pediatric infection. Infectious exanthema and enanthema in children. Gastrointestinal infections of children.

Topic 12. Management of children with anemia. Hemolytic anemia in children. Hereditary. Acquired. Hemolytic-uremic syndrome (Gasser's syndrome). Hypo- and aplastic anemias in children. Hereditary anemias (Fanconi. Estren-Dameshek, Blackfan-Diamond). Acquired anemia (acute, subacute, chronic). Clinic. Diagnosis. Treatment.

Topic 13. Management of children with hemorrhagic diseases. Thrombocytopenia (idiopathic thrombocytopenic purpura, Werlhof's disease), thrombocytopathy. Hemorrhagic vasculitis (Shenlein-Henoch disease). Hereditary and acquired coagulopathies.

Topic 14. Management of children with hemoblastoses. Leukemia. Lymphomas (lymphogranulomatosis - Hodgkin's disease).

Topic 15. Management of children with endocrine disorders. Thyroid disease (congenital hypothyroidism, thyrotoxicosis, autoimmune thyroiditis). Diseases of the hypothalamic-pituitary system. Growth disorders in children (pituitary dwarfism, gigantism). Congenital dysfunction of the adrenal cortex. Adrenal insufficiency (acute, chronic).

Module 4. Obstetrics and Gynecology

Topic 1. Management of early gestosis. Hypertonic diseases during pregnancy. Preeclampsia. Eclampsia.

Topic 2. Pregnancy and labor in case of extragenital diseases.

Topic 3. Pregnancy miscarriage. Post-term pregnancy. Abnormal uterine action.

Topic 4. Obstetrics hemorrhages in I, II, III stages of labor and in the postpartum period. Intensive care and resuscitation.

Topic 5. Postpartum septic disease.

Topic 6. Clinical anatomy and physiology of female reproductive organs. Methods of gynecological investigation. Infertility. Family planning.

Topic 7. Management of disturbances of menstrual function. Neuroendocrine syndromes in gynecology.

Topic 8. Endometriosis. Gynecological diseases of children and teens. Abnormalities of female genitalia position and development.

Topic 9. Gynecological aspects of mammary gland diseases. Management of benign diseases of female reproductive organs, acute abdomen in gynecology.

Topic 10. Management of premalignant diseases of female reproductive organs. Malignant neoplasms. Trophoblastic disease.

6.2. The structure of the discipline

Titles of content modules and topics	Number of hours					
	Form of study:					
	Total	including				
lec- tures		practi- cal classes (semi- nars)	labo- rator y clas ses	indivi dual work	self- study	
Semester №8						
Topic 1. Structure and functions of the Outpatient Clinic (Department).	2				2	
Topic 2. Management of outpatients with the most common cardiovascular diseases.	6				2	4
Topic 3. Management of patients with urgent cardiovascular conditions, prehospital emergency care.	4				2	2
Topic 4. Management of outpatients with the most common kidney and rheumatology diseases.	12				4	8
Topic 5. Management of outpatients with the most common occupational, allergic and infectious diseases. Rehabilitation in Outpatient Clinic (Department).	21				5	16
Total for Module 1	45				15	30
Module 2. Surgery						
Topic 1. Surgery Department(s) in the Outpatient Clinic.	2				2	
Topic 2. Approach to the outpatient in Surgery.	2				2	
Topic 3. Outpatient treatment in Surgery (conservative and operative).	28				4	24
Topic 4. Emergency care in Surgery.	10				4	6
Topic 5. Rehabilitation after surgical diseases patients in Outpatient Clinic.	3				3	
Total for Module 2	45				15	30
Module 3. Pediatrics						

Topic 1. Pediatric (Childhood Diseases) Outpatient Clinic (Department).	2				2	
Topic 2. Approach to the outpatient in Pediatrics.	2				2	
Topic 3. Outpatient treatment in Pediatrics.	28				6	22
Topic 4. Infectious diseases and emergency care in Outpatient Pediatrics.	12				4	8
Topic 5. Outpatient rehabilitation of children.	1				1	
Total for Module 3	45				15	30
Module 4. Obstetrics and Gynecology						
Topic 1. Outpatient Health Care in Obstetrics and Gynecology. Principles of gynecology primary care.					2	
Topic 2. Approach to the outpatient care in case of physiological and complicated pregnancy and after delivery.					4	
Topic 3. Outpatient care in Gynecology. Management of female with reproductive system diseases in different age.					4	
Topic 4. Emergency care and features of management in case of complicated pregnancy, delivery and postpartum period.					3	
Topic 5. Rehabilitation in case of complicated pregnancy and after delivery.					2	
Total for Module 4	45				15	30
Total	180				60	120

6.3. Topics of practical (seminars, laboratory) classes

Practical (seminars, laboratory) classes are not required by this program

6.4. Self-study

№	Topic title	Number hours	
		Full-time study	Extramural form of study
Module 1. Internal Medicine			
1	Topic 1. Arterial hypertension. Atherosclerosis. Myocarditis and Cardiomyopathies. Heart failure.	2	
2	Topic 2. Coronary heart disease (CHD): acute myocardial infarction. Chronic forms of coronary artery disease	2	
3	Topic 3. Cardiac arrhythmias and conduction disturbances	2	
4	Topic 4. Symptoms and syndromes of common rheumatic disorders. Rheumatoid arthritis. Osteoarthritis. Ankylosing Spondylitis. Reactive arthritis. Gout.Pseudogout	2	
5	Topic 5. Acute Rheumatic Fever. Systemic lupus erythematosus. Systemic sclerosis. Dermatopolymyositis. Systemic vasculitis	2	
6	Topic 6. Glomerulonephritis. Nephrotic and nephritic syndromes. Pyelonephritis. Tubulo-interstitial nephritis, renal amyloidosis	2	
7	Topic 7. Acute and chronic renal failure.	2	
8	Topic 8. Black-lung disease (Pneumoconiosis). Silicosis. Silicatosis. Carboconiosis. Metal-coniosis. Occupational bronchial asthma. Dust bronchitis (COPD caused by dust). Exogenous allergic alveolitis	2	
9	Topic 9. Occupational diseases caused by physical factors (vibration disease, noise disease, radiation sickness, altitude disease, decompression disease, overheat, cooling), with major affection of nervous system and blood.	2	
10	Topic 10. Immunodeficiency diseases. Primary and secondary immunodeficiency. Basic principles of allergy diagnosis and treatment.	2	
11	Topic 11. Pollinosis. Allergic rhinitis. Allergic asthma. Urticaria and angiooedema. Drug allergy/Food allergy.	2	
12	Topic 12. CPR and emergency aid in cardiogenic shock, hypertensive crisis, stroke, syncope and other life threatening cardiovascular diseases complications.	2	
13	Topic 13. Emergency aid in anaphylactic shock, severe toxic allergic drug reaction, angioedema, insect bytes, life threatening asthma.	2	
14	Topic 14. First aid at threatening conditions owing to effect of the occupational factors (acute poisonings, pulmonary edema, acute hemolytic crisis, metallic fever).	2	
15	Topic 15. Rehabilitation in cardiovascular, rheumatology, nephrology, allergic and occupational diseases.	2	
Total for Module 1		30	
Module 2. Surgery			
16	Topic 1. Surgical management of thyroid gland diseases. Thyrotoxic goiter. Endemic goiter. Thyreoiditis. Thyroid cancer. Surgical treatment indications.	2	

17	Topic 2. Surgical management of mammary gland diseases. Mastitis. Fibrocystic disease of the breast. Benign tumors. Surgical treatment.	2	
18	Topic 3. Surgical management of patients with liver diseases. Cirrhosis. Portal hypertension. Parasitic and non-parasitic diseases of the liver. Surgical diseases of the spleen.	2	
19	Topic 4. Surgical management of extrahepatic bile ducts disorders. Obstructive jaundice. Postcholecystectomy syndrome. Clinical symptoms. Diagnostics. Differential diagnosis. Surgical treatment.	2	
20	Topic 5. Surgical management of acute and chronic pancreatitis. Clinical symptoms. Diagnostics. Complications. Treatment	2	
21	Topic 6. Management of patients with postresection and postvagotomy syndromes.	2	
22	Topic 7. Surgical management of patients with colon diseases. Nonspecific ulcerative colitis. Crohn's disease. Colon polyposis. Diverticulosis. Acute proctitis. Chronic proctitis. Epithelial paracoccidoidal canals. Hemorrhoid. Anal fissure.	2	
23	Topic 8. Surgical management of patients with acute and chronic lower limb ischemia. Atherosclerosis obliterans. Endarteritis obliterans. Arterial embolism and thrombosis. Differential diagnosis. Methods of surgical treatment.	2	
24	Topic 9. Surgical management of patients with arterial aneurysms. Aneurysms of the thoracic and abdominal aorta. Aneurysms of peripheral arteries. Abdominal ischemic syndrome. Chronic cerebrovascular disease. Pulmonary embolism.	2	
25	Topic 10. Surgical management of varicose veins disease. Lower extremities varicose veins disease. Deep vein thrombosis. Postthrombotic syndrome.	2	
26	Topic 11. Management of patients with trauma. Head, neck and extremities trauma. Surgical complications and management.	2	
27	Topic 12. Management of patients with trauma. Chest and abdominal trauma. Surgical complications and management.	2	
28	Topic 13. Management of children with different injuries and traumas.	2	
29	Topic 14. Pediatric surgery diseases in different age. Conservative and operative management.	2	
30	Topic 15. Management of children with pediatric surgery emergencies.	2	
	Total for Module 2	30	
Module 3. Pediatrics			
31	Topic 1. Outpatient medical care of newborns, levels of medical care. The concept of perinatal and neonatal periods. Care for the baby after birth. Indicators of adaptation after discharge from Maternity Hospital. Transient states. The main causes of neonatal and perinatal mortality.	2	
32	Topic 2. Vaccination and neonatal screening. Care of premature newborns organization. Causes of premature birth. Adjusted age and methods for its determination (Ballard scale). The "mother kangaroo" method. Anemia of prematurity. Retinopathy of	2	

	prematurity. Neonatal hypoglycemia.		
33	Topic 3. Breastfeeding of mature and premature babies. Methods of feeding (enteral, through a tube, parenteral nutrition, "minimal trophic nutrition").	2	
34	Topic 4. Management of newborns with perinatal asphyxia (intrauterine asphyxia, neonatal asphyxia). Diagnostic signs (criteria) of asphyxia severity. Respiratory disorders of newborns. Respiratory failure in newborns. Respiratory distress syndrome.	2	
35	Topic 5. Management of childbirth injuries (extracranial hemorrhage, intracranial birth injuries, Damage to the sternocleidomastoid muscle). Paresis (paralysis) of the facial nerve. Spinal cord injury. Lesions of the humeral plexus. Bone fracture. Soft tissue damage. Diagnosis. Clinic. Treatment.	2	
36	Topic 6. Management of newborns with neonatal jaundice, hemolytic and hemorrhagic diseases of newborns. Methods of clinical examination and evaluation of jaundice. Criteria for pathological jaundice. Treatment. Phototherapy. Indications for replacement blood transfusion	2	
37	Topic 7. Emergency management in urgent conditions of the newborn. Indications for primary care. Initial steps to stabilize the condition of the newborn. Newborn resuscitation algorithm. Assessment of the condition of the newborn during medical care.	2	
38	Topic 8. Management of the newborn in case of intrauterine and prenatal infections. TORCH - infections. Ways of infection. Typical symptoms of the most common infections. Laboratory diagnostics. Treatment. Prevention.	2	
39	Topic 9. Management of newborns with local and systemic purulent-inflammatory diseases. Vesiculopustulosis. Vesicles of newborns. Ritter's exfoliative dermatitis. Newborn erysipelas. Conjunctivitis. Pseudofurunculosis. Purulent mastitis. Omphalitis. Epiphyseal osteomyelitis. Sepsis.	2	
40	Topic 10. Management of newborns with neonatal pneumonia. Classification. Etiology. Clinical manifestations. Diagnostic criteria. Differential diagnosis. Treatment. Features of pneumonia in premature infants.	2	
41	Topic 11. Management of children with common pediatric infections. Infectious exanthema and enanthema in children. Gastrointestinal infections.	2	
42	Topic 12. Management of children with anemia. Hemolytic anemia in children. Hereditary. Acquired. Hemolytic-uremic syndrome (Gasser's syndrome). Hypo- and aplastic anemias in children. Hereditary anemias (Fanconi. Estren-Dameshek, Blackfan-Diamond). Acquired anemia (acute, subacute, chronic). Clinic. Diagnosis. Treatment.	2	
43	Topic 13. Management of children with hemorrhagic diseases. Thrombocytopenia (idiopathic thrombocytopenic purpura, Werlhof's disease), thrombocytopathy. Hemorrhagic vasculitis (Shenlein-Henoch disease). Hereditary and acquired coagulopathies.	2	

44	Topic 14. Management of children with hemoblastoses. Leukemia. Lymphomas (lymphogranulomatosis - Hodgkin's disease).	2	
45	Topic 15. Management of children with endocrine disorders. Thyroid disease (congenital hypothyroidism, thyrotoxicosis, autoimmune thyroiditis). Diseases of the hypothalamic-pituitary system. Growth disorders in children (pituitary dwarfism, gigantism). Congenital dysfunction of the adrenal cortex. Adrenal insufficiency (acute, chronic).	2	
	Total for Module 3	30	
Module 4. Obstetrics and Gynecology			
46	Topic 1. Management of early gestosis. Hypertonic diseases during pregnancy. Preeclampsia. Eclampsia	2	
47	Topic 2. Pregnancy and labor in case of extragenital diseases	2	
48	Topic 3. Pregnancy miscarriage. Post-term pregnancy. Abnormal uterine action	2	
49	Topic 4. Obstetrics hemorrhages in I, II, III stages of labor and in the postpartum period. Intensive care and resuscitation	4	
50	Topic 5. Postpartum septic disease	2	
51	Topic 6. Clinical anatomy and physiology of female reproductive organs. Methods of gynecological investigation. Infertility. Family planning	2	
52	Topic 7. Management of disturbances of menstrual function. Neuroendocrine syndromes in gynecology	4	
53	Topic 8. Endometriosis. Gynecological diseases of children and teens. Abnormalities of female genitalia position and development.	2	
54	Topic 9. Gynecological aspects of mammary gland diseases. Management of benign diseases of female reproductive organs, acute abdomen in gynecology	6	
55	Topic 10. Management of premalignant diseases of female reproductive organs. Malignant neoplasms. Trophoblastic disease.	4	
	Total for Module 4	30	
	Total	120	

6.5. Individual tasks

The students fill in their Practice Diaries during the individual work in the Hospital Departments. The Module Case History is written by the end of the practical training

7. TOOLS, EQUIPMENT AND SOFTWARE THE USE OF WHICH IS PROVIDED FOR THE EDUCATIONAL SUBJECT

(if necessary)

Devices for measuring blood pressure, phonendoscopes, glucometers RIGHTEST BIONIME GM550 with test strips ELSA/GS550, (2019), electrocardiograph, spiograph, peak flowmeters, computer spirometry, pulse oximeters, thermometers, rapid test systems, mannequins are used for the educational process.

Students also get to know the operation of the endoscopy room and functional diagnostics room, where there is a gastrointestinal videoscope Olympus GIF-XP170N, Olympus GIF-H170 (2018) and a video colonoscope CF-H170L/I (2018), ultrasound system

CX50, Philips Ultrasound, Inc, Label PN 453561952821 , (2022) (in use with the Ukrainian National University) and a biodensitometer for determining body components (in joint use with the Department of Physiology).

In addition, didactic materials are used:

- plans of practical classes
- tasks for independent work
- methodological instructions/recommendations for students and teachers
- algorithms of treatment and provision of emergency care (according to the standards of evidence-based medicine)
- algorithms for performing practical skills, medical manipulations, video films
- results of laboratory and instrumental research methods
- dummies, phantoms
- questions, situational tasks, assignments or cases for current and final control.
- electronic bank of test tasks, situational tasks.
- laptop (type #1) Lenovo V15-ADA
- stationary personal computer No. 2 FC 210;
- UzhNU e-learning website e-learn.uzhnu.edu.ua.

8. RECOMMENDED SOURCES OF INFORMATION

Basic sources

1. Jevon Philip, Odogwu Steveю Medical student survival skills. History taking and communication skills / History taking and communication skills. Hoboken, NJ : Wiley-Blackwell, 2020. - 275 p.
2. Approach to Internal Medicine. Edited by David Hui, Alexander A. Leung, Christopher Ma. Springer Nature Singapore Pte Ltd, 2022. - 540 p.
3. How to write a Case History. Manual for students / Tovt-Korshynska M.I., Rostoka-Reznikova M.V., Bletska V.T., Pityulich V.M., Tymko L.I. // IC of CCCH, 2017. – Uzhhorod. – 36p.
4. Клінічне обстеження дитини : навч. посіб. для студентів вищ. навч. закл. : пер. з рос. / О. В. Катілов, Д. В. Дмитрієв, К. Ю. Дмитрієва, С. Ю. Макаров. 2-ге вид. Вінниця : Нова Книга, 2019. 520 с.

Additional sources

1. Andrew Blann. Routine Blood Results Explained, the 4th edition (2021). Cambridge Scholars Publishing. - 172 p.
2. Critical Care Examination and Board Review. McGraw-Hill Education. - 2019. - 801p.
3. Baye's de Luna, Antoni, Fiol-Sala, M. (Miquel), Genis, A. Baye's, Baranchuk, Adrian. Clinical electrocardiography : a textbook. Fifth edition. / Antoni Baye's de Luna, Miquel FiolSala, Antoni Baye's-Geni's, Adria'n Baranchuk; with contributions from Roberto Elosua, Manuel Mart'inez-Selle's. - Hoboken, NJ : Wiley, 2022. - 1617 p.
4. Mari J. Wirfs. Prescribing drug therapy guide 2022. Springer publishing, 2022. - 1018 p.
5. Pharmacotherapy Handbook, 11th edition. Edited by Terry L. Schwinghammer, Joseph T. DiPiro, Vicki L. Ellingrod, Cecily V. DiPiro. McGraw-Hill Education. - 2021. - 1110p.
6. Дербак М.А., Ганич Т.М., Лемко О.І., Рішко О.А., Ганич О.Т. Методичні вказівки до курації хворого та написання історії хвороби з ОК 29 «Внутрішня медицина, в тому числі ендокринологія, медична генетика» студентів IV курсу спец. 222 «Медицина» [Електронний ресурс].– Ужгород:ДВНЗ «УжНУ», 2022.-24 с.

7. Внутрішні хвороби: у 2 частинах. Частина 1. Розділи 1-8: підручник / Л.В. Глушко, С.В. Федоров., І.М. Скрипник та ін. - 2-е видання. "Медицина ", 2022, 680с. ISBN.: 978-617-505-904-3
8. Interdisciplinary Approaches to Overlap Disorders in Dermatology & Rheumatology. Edited by Amit Garg, Joseph F. Merola, Laura Fitzpatrick. Springer, 2022. - 297 p.
9. Evidence-Based Physical Examination. Edited by Kate Sustersic Gawlik, Bernadette Mazurek Melnyk, Alice M. Teall. Springer, 2021. - 1315 p.
10. Practical Medical Oncology Textbook. Edited by Antonio Russo, Marc Peeters, Lorena Incorvaia, Christian Rolfo. Springer, 2021. - 1104 p.

Information Internet resources

1. <https://decisionpoint.medscape.com/> - Clinical Guidelines, Expert Perspectives
2. <https://www.medscape.com/public/about> - the leading online global destination for physicians and healthcare professionals worldwide, offering the latest medical news and expert perspectives; essential point-of-care drug and disease information; and relevant professional education and CME.
3. [International Birth Defects Information System \(I.B.I.S.\) – IBIS is a multi-lingual website dedicated to promoting better care and prevention of birth defects through information sharing \(ibis-birthdefects.org\)](https://www.ibis-birthdefects.org/) International Birth Defects Information System (I.B.I.S.). IBIS is a multi-lingual website dedicated to promoting better care and prevention of birth defects through information sharing
4. <https://www.marchofdimes.org/> March of Dimes. March of Dimes, the nation's leader in mom and baby health. March of Dimes acquires and analyzes maternal and infant health data and program data to show the current state of the health crisis to inform research and policy change.
5. <https://www.cdc.gov/ncbddd/birthdefects/surveillancemanual/index.html> CDC Centers for Disease Control and Prevention. CDC is the nation's leading science-based, data-driven, service organization that protects the public's health. For more than 70 years, we've put science into action to help children stay healthy so they can grow and learn; to help families, businesses, and communities fight disease and stay strong; and to protect the public's health.
6. <https://www.practicalclinicalskills.com> - practical skills training source
7. https://repo.dma.dp.ua/3934/1/Practical_Skills_IM_2.pdf - essential practical skills

Appendix

Results of the further review of the syllabus

The syllabus was re-approved on 20___ / 20___ academic year unchanged; with changes (Appendix___).

(underline the correct variant)

Minutes № ___ of "___" _____ 20 ___ Head of the Department _____

_____ (initials)

(Signature) (Surname,

The syllabus was re-approved on 20__ / 20__ academic year unchanged; with changes (Appendix __).

(underline the correct variant)

Minutes № ____ of " ____ " _____ 20 ____ Head of the Department _____

(Signature)

(Surname, initials)

The syllabus was re-approved on 20__ / 20__ academic year unchanged; with changes (Appendix __).

(underline the correct variant)

Minutes № ____ of " ____ " _____ 20 ____ Head of the Department _____

(Signature) (Surname, initials)

The syllabus was re-approved on 20__ / 20__ academic year unchanged; with changes (Appendix __).

(underline the correct variant)

Minutes № ____ of " ____ " _____ 20 ____ Head of the Department _____

(Signature)

(Surname, initials)