| 1. General information | | | | |
|---|---|--|--|--|
| Name of the faculty | | | | |
| Educational program (branch, specialty, level of higher education, form of education) | 22 Healthcare, 222 Medicine, second (master's) level of higher education, full- time | | | |
| Academic year | 2023-2024 | | | |
| Name of discipline, code (e-mail address on the website of LNMU named after Danylo Halvtsky | Internal medicine Mandatory componenets-28 <u>https://new.meduniv.lviv.ua/kafedry/kafedra-vnutrishnoyi-medytsyny-1</u> | | | |
| Department (name, address, phone, e- mail) | Department of Internal Medicine №1 79010, Lviv, street Nekrasova, 4 tel./fax: +38 (032) 276-97-63 <u>kaf_internalmed_1@meduniv.lviv.ua</u> | | | |
| Head of the department (contact e- mail) | Prof. Abrahamovych Orest docorest@gmail.com | | | |
| Year of study (year in which the study of the discipline) | 6 year | | | |
| Semester (semester in which the study of the discipline is implemented) | XI-XII | | | |
| Type of course / module (compulsory / optional) Teachers | compulsory DMSc., prof. Abrahamovich Orest | | | |
| (names, | docorest@gmail.com | | | |

| surnames, | PhD, Assoc. Prof Lesya Mykolayivna Proniv |
|-----------------|--|
| scientific | Lesya1257@gmail.com |
| degrees and | PhD, Assoc. Prof Pliatsko Mykhailo Grygorovych |
| titles of | drplzk@gmail.com |
| teachers who | |
| teach the | |
| discipline, | |
| contact | |
| email) | |
| Erasmus yes | yes |
| / no | |
| (availability | |
| of the | |
| discipline for | |
| students | |
| within the | |
| Erasmus + | |
| program) | |
| Person | DMSc., prof. Abrahamovych Orest |
| responsible | docorest@gmail.com |
| for the | PhD, Assoc. Prof Bilous Zoriana |
| syllabus | Zoryanaollous(<i>u</i>)gmall.com |
| (person to be | PIID, ASSOC. PTOI PHAISKO MYKIIAIIO |
| commented | urpizk@ginan.com |
| on the | |
| synabus, | |
| contact e- | |
| Number of | 0.0 credits |
| FCTS credits | y,o credits |
| Number of | 270 hours 0 lec / 144 prac c 126 stud self prep |
| hours | 270 hours, 0 hour, 111 plue. e., 120 stud. self prop., |
| (lectures / | |
| practical | |
| classes / | |
| independent | |
| work of | |
| students | |
| Language of | Ukr/eng |
| instruction | |
| Information | onsultations are held as needed in the first and second semesters |
| about | |
| consultations | |
| Address and | "Lviv Regional Clinical Hospital", 79010, Lviv, st. Nekrasova, 4 |
| telephone | tel./fax: +38 (032) 276-97-63 |
| number of | |
| the clinical | |
| base | |
| | 2. Short annotation to the course |
| The organizati | on of the educational process is carried out according to the European credit |
| transfer system | n of the Organization of the educational process (ECTS). |
| The program o | f "Internal Medicine" in the 5th year involves the study of the basics of internal |
| medicine in its | main sections (cardiology, rheumatology, nephrology and military therapy), |
| with emphasis | on the study of etiology, pathogenesis, clinic, diagnosis, treatment and |

prevention of basic and the most common diseases of the internal organs. Approximate duration of practical classes - 5.0 hours. The main purpose of this course is to teach students the basics of internal medicine. Emphasis is placed on the skills of interviewing and clinical examination of the patient, diagnosis, differential diagnosis, treatment and prevention of diseases of the internal organs, diagnosis and emergency care in case of emergency, as well as medical manipulations. 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.

3. The purpose and objectives of the course

1. The purpose of teaching the discipline "Internal Medicine" is the formation of 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 provides certain lists of syndromes and symptoms of diseases, emergencies and diseases. that require special tactics of patient management; laboratory and instrumental research, medical manipulations.

2. The main tasks of studying the discipline "Internal Medicine" are:

• conduct surveys and clinical examinations of patients with major diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue and analyze their results;

• determine the etiological and pathogenetic factors of the most common diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue;

• analyze typical clinical signs, identify clinical variants and complications of the most common diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue;

• establish a preliminary diagnosis of the most common diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue;

• prescribe laboratory and instrumental examination of patients with the most common diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue and their complications;

• on the basis of evaluation of laboratory and instrumental examination results, make a differential diagnosis, substantiate and establish a clinical diagnosis of the most common diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue;

• determine the necessary mode of work and rest during the treatment of the most common diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue;

• determine the necessary medical nutrition in the treatment of the most common diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue;

• determine the principles and nature of treatment in the treatment of the most common diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue;

• prescribe treatment, including prognostic-modifying, of the most common diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue and their complications;

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

• provide emergency medical care on the basis of an emergency diagnosis;

• carry out primary and secondary prevention of the most common diseases of the circulatory system, urinary system, musculoskeletal system and connective tissue;

• assess the prognosis and efficiency of patients with the most common diseases of the

circulatory system, urinary system, musculoskeletal system and connective tissue;

• perform medical manipulations;

• keep medical records;

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

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 (Educational and professional programs). According to the requirements of the EPP, 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. The ability to act socially responsibly and consciously.

GC 15. Ability to act on the basis of ethical considerations (motives)

- special (professional, subject):

PC1. Skills of interviewing and clinical examination of the patient.

PC2. Ability to determine the required list of laboratory and instrumental studies and evaluate their results.

PC3. Ability to establish a preliminary and clinical diagnosis of the disease.

PC4. Ability to determine the required mode of work and rest during the treatment of diseases.

PC5. Ability to determine the nature of nutrition in the treatment of diseases.

PC6. Ability to determine the principles and nature of disease treatment.

PC7. Ability to diagnose emergencies.

PC8. Ability to determine the tactics of emergency medical care.

PC9. Emergency care skills.

PC11. Skills to perform medical manipulations.

PC13. Ability to carry out sanitary and hygienic and preventive measures.

PC15. Ability to determine the tactics of management of persons subject to dispensary supervision.

PC16. Ability to conduct a performance examination.

PC17. Ability to keep medical records.

PC18. Ability to conduct epidemiological and medical-statistical studies of public health; processing of state, social, economic and medical information.

PC19. Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population.

PC20. Ability to analyze the activities of a doctor, department, health care institution, to take measures to ensure the quality of medical care and improve the efficiency of medical resources.

PC21. Ability to conduct activities for the organization and integration of medical care and

marketing of medical services.

4. Prerequisite of the course

Interdisciplinary links are 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, radiology, radiology internal medicine. The discipline "Internal Medicine" contributes to the formation of integrative final program

The discipline "Internal Medicine" 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 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 to 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.

5. Program learning outcomes

PLO 1. Collect data on patient complaints, medical history, life history, conduct and evaluate the results of physical examination.

PLO 2. Evaluate information on the diagnosis, using a standard procedure based on the results of laboratory and instrumental studies.

PLO 3. Highlight the leading clinical symptom or syndrome. Establish the most probable or syndromic diagnosis of the disease. Assign laboratory and / or instrumental examination of the patient. Carry out differential diagnosis of diseases. Establish a preliminary and clinical diagnosis.

PLO 4. To determine the necessary mode of work and rest in the treatment of the disease.

PLO 5. To determine the necessary medical nutrition in the treatment of the disease.

PLO 6. To determine the principles and nature of treatment (conservative, operative) of the disease.

PLO 7. Determine the tactics of emergency medical care on the basis of a diagnosis of emergency.

PLO 8. Provide emergency medical care on the basis of an emergency diagnosis.

PLO 11. Perform medical manipulations.

PLO 12. To form among the fixed contingent of the population dispensary groups of patients; groups of healthy people subject to dispensary supervision. Implement a system of anti-epidemic and preventive measures within the primary health care. Implement a system of primary prevention measures within the primary health care. Organize secondary and tertiary prevention measures among the assigned contingent of the population.

PLO 14. To determine the tactics of examination and secondary prevention of patients subject to dispensary supervision; tactics of examination and primary prevention of healthy persons subject to dispensary supervision

PLO 15. To determine the presence and degree of restrictions on life, type, degree and duration of disability with the execution of relevant documents.

PLO 17. Conduct screening for major non-communicable diseases; evaluate morbidity indicators, integrated health indicators; identify risk factors for the occurrence and course of

disease; to form risk groups of the population. Determine the source and / or location of the required information depending on its type; receive the necessary information from a specific source; process and analyze the received information.

PLO 18. Identify negative environmental factors; to analyze the incidence of the population, identifying risk groups.

PLO 19. Carry out the selection and use of unified clinical protocols for the provision of medical care, developed on the basis of evidence-based medicine; develop and use local health care protocols.

PLO 20. To form rational medical routes of patients.

PLO 21. Form goals and determine the structure of personal activities.

PLO 22. Adhere to a healthy lifestyle, use the techniques of self-regulation and self-control

PLO 23. To be aware of and guided in its activities by civil rights, freedoms and

responsibilities, to raise the general educational and cultural level.

PLO 24. Adhere to the requirements of ethics, bioethics and deontology in their professional activities.

| | 5. List of learning outcomes | | |
|--|--|--|----------|
| Learning outcome code | The content of the learning outcome learning outcome. | References to the code of th competence matrix | e |
| Category: Kn - knowledge Ab - ability Co– competence AR - autonomy and responsibility | Learning outcomes determine that the student must know, understand and be able to perform, after completing the discipline. Learning outcomes follow from the set learning goals. To enroll in the discipline, it is necessary to confirm the achievement of each | Symbol of the Program Learning Outcome (PL code in the Hi Education Standard | O) gh |
| Kn-1 | Have specialized knowledge about the person, his organs and systems, know the methods and standard schemes of questioning and physical examination of the patient. | PLO-1 | |
| Ab-1 | Be able to have 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 | | |
| Co-1 | Skills of interviewing and clinical examination of the patient | | |
| AR-1 | Be responsible for the quality collection of information received on the basis of interviews, surveys, examinations, palpation, percussion of organs and systems, timely assessment of human health and taking appropriate measures | | |
| Kn-2 | Know the standard methods of laboratory and instrumental research (according to list 4) | PLO-2 | |
| Ab-2 | 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) | | |
| Co -2 | Ability to determine the required list of laboratory and instrumental studies and evaluate their results | | |
| AR-2 | Be responsible for deciding on the evaluation of laboratory and instrumental research results | | |

| | Kn-3 | Know the algorithms for diagnosing diseases; | PLO-3 | |
|---|-------|--|-------|--|
| | | algorithms for isolating leading symptoms or | | |
| | | syndromes (according to list 1); previous and clinical | | |
| | | diagnoses (according to list 2); methods of laboratory | | |
| | | and instrumental examination (according to list 4) | | |
| | Ab-3 | Be able to make an informed decision about the | | |
| | | selection of the leading clinical symptom or | | |
| | | syndrome; be able to make a preliminary and clinical | | |
| | | diagnosis of the disease (according to list 2); to | | |
| | | appoint laboratory and instrumental examination of | | |
| | | the patient (according to list 4) by applying standard | | |
| | | methods | | |
| | Co -3 | Ability to establish a preliminary and clinical | | |
| | | diagnosis of the disease | | |
| | AR-3 | Be responsible for making informed decisions and | | |
| | | actions regarding the correctness of the established | | |
| | | preliminary and clinical diagnosis of diseases | | |
| | Kn-4 | Know about ethical and legal norms; algorithms and | PLO-4 | |
| | | standard schemes for determining the mode of work | | |
| | | and rest during treatment, based on preliminary and | | |
| | | clinical diagnosis of the disease (according to list 2) | | |
| | Ab-4 | Be able to determine, on the basis of preliminary and | | |
| | | clinical diagnosis, by making an informed decision | | |
| | | the necessary mode of work and rest during the | | |
| | | treatment of the disease (according to list 2) | | |
| | Co -4 | Ability to determine the required mode of work and | | |
| | | rest during the treatment of diseases | | |
| | AR-4 | To be responsible for the validity of the appointment | | |
| | | of work and rest during the treatment of the disease | | |
| | | (according to list 2) | | |
| | Kn-5 | Know the algorithms and standard schemes of | PLO-5 | |
| | | nutrition during the treatment of diseases (according | | |
| | | to list 2) | | |
| | Ab-5 | Be able to determine, on the basis of preliminary and | | |
| | | clinical diagnosis, the nature of nutrition during the | | |
| | | treatment of diseases (according to list 2) | | |
| | Co -5 | Ability to determine the nature of nutrition in the | | |
| | | treatment of diseases | | |
| | AR-5 | To be responsible for the validity of the determine of | | |
| | | nutrition during the treatment of the disease | | |
| | | (according to list 2) | | |
| | Kn-6 | Know algorithms and standard schemes of treatment | PLO-6 | |
| | | of diseases (according to list 2) | | |
| Γ | Ab-6 | Be able to determine the principles and nature of | | |
| | | treatment of the disease (according to list 2) | | |
| Γ | Co -6 | Ability to determine the principles and nature of | | |
| | | disease treatment | | |
| Γ | AR-6 | Be responsible for deciding on the principles and | | |
| | | nature of treatment of the disease (according to list 2) | | |

| | | | _ |
|----------|--|--------------|---|
| Kn-7 | Have specialized knowledge about urgent human | PLO-7 | |
| | conditions; know the standard methods of human | | |
| | examination (at home, on the street, in a health care | | |
| | facility) in the absence of information; principles of | | |
| | emergency medical care | | |
| Ab-7 | Be able to identify emergencies (according to list 3); | | |
| | to carry out organizational and diagnostic measures | | |
| | aimed at saving and saving human life | | |
| Со -7 | Ability to diagnose emergencies and determine | - | |
| | tactics of emergency medical care | | |
| AR-7 | Be responsible for the correctness and timeliness of | - | |
| | diagnosing an emergency its severity and factics of | | |
| | emergency medical care | | |
| Kn-8 | Know the algorithms for providing emergency | PLO-8 | |
| | medical care in emergencies (according to list 3) | ILO 0 | |
| Ab-8 | Be able to provide emergency medical care during an | - | |
| 10-0 | emergency (according to list 3) | | |
| Co.8 | Have the skills to provide amergency medical core | 1 | 1 |
| | Be responsible for the timeliness and quality of | 1 | 1 |
| АК-ð | amorgonou modicel acre | | 1 |
| Vn O | Unow algorithms for performing readical | $DI \cap 11$ | |
| KII-9 | monimulations (according to list 5) | PLU-11 | 1 |
| 41.0 | Deally to negligible to the second se | _ | |
| A0-9 | Be able to perform medical manipulations (according | | |
| <u> </u> | | | |
| <u> </u> | Skills to perform medical manipulations | | |
| AK-9 | Be responsible for the quality of medical | | |
| V., 10 | The horizontations (according to list 5) | DI O 12 | |
| Kn-10 | To know the system of sanitary-nyglenic and | PLO-12 | |
| | the normalities. Know the principles of medical | | |
| | the population. Know the principles of medical | | |
| | Examination of different groups of the population: | | |
| | Know the indicators of evaluation of the organization | | |
| 41 10 | and effectiveness of medical examination. | - | |
| Ab-10 | Be able to form groups of the population for their | | |
| 0 10 | medical examination. | - | |
| Co -10 | Ability to carry out sanitary and hygienic and | | 1 |
| | preventive measures | 4 | 1 |
| AR-10 | Be responsible for the timely and high-quality | | 1 |
| | implementation of measures to assess the health of | | 1 |
| | the population | | |
| Kn-11 | Know the relevant ethical and legal norms for | PLO-14 | 1 |
| | medical examination of the population; examination | | 1 |
| | tactics and principles of secondary prevention of | | 1 |
| | patients subject to dispensary supervision; to know | | 1 |
| | the principles of organization of primary prevention | | |
| | of healthy persons subject to dispensary supervision | 4 | 1 |
| Ab-11 | Be able to assess the health of patients and the | | 1 |
| | affected population; to organize medical examination | | 1 |
| | of persons subject to dispensary supervision | 1 | 1 |
| Co -11 | Ability to determine the tactics of management of | | 1 |
| | persons subject to dispensary supervision | 1 | 1 |
| AR-11 | To be responsible for the quality of the organization | | |
| | of dispensary supervision of certain contingents of | | |

| | persons | | |
|---------------|---|-----------|--|
| Kn-12 | Have basic knowledge of medical and social | PLO-15 | |
| | examination | | |
| Ab-12 | Be able to draw up the relevant documents certifying | - | |
| 110 12 | temporary disability | | |
| Co -12 | Ability to conduct a performance examination | - | |
| AR-12 | To be responsible for the validity of decisions on | - | |
| 7 MX 12 | medical and social examination of working capacity | | |
| Kn_13 | Know standard methods, including modern computer | PL 0-17 | |
| IXII-13 | information technology, processing of state, social | 1120-17 | |
| | and medical information | | |
| Δh-13 | Have standard methods of medical and statistical | - | |
| A0-15 | research | | |
| Co. 13 | Ability to conduct anidemiological and medical | - | |
| 0-15 | statistical studies of public health: processing of state | | |
| | social economic and medical information | | |
| AP 13 | Be responsible for the validity of the conclusions | - | |
| AR-13 | about the state of health of the population: high- | | |
| | quality and timely execution of statistical processing | | |
| | and analysis of the received information | | |
| Kn_1/ | Know the methods of assessing public health and the | PL 0-18 | |
| 111-17 | principles of risk groups | 1 LO-10 | |
| Ab-14 | Be able to assess the health of the population and | - | |
| 110 14 | plan preventive measures | | |
| Co -14 | Ability to assess the impact of the environment | - | |
| 0011 | socio-economic and biological determinants on the | | |
| | health of the individual family population | | |
| AR-14 | Be responsible for timely conclusions on the state of | - | |
| | health of the population on the basis of the negative | | |
| | impact of environmental factors, socio-economic and | | |
| | biological determinants, for the timely submission of | | |
| | proposals for appropriate preventive measures. | | |
| Ab-15 | Be able to choose the appropriate unified clinical | PLO-19 | |
| | protocol for the provision of medical care | | |
| Ab-16 | Be able to organize their own work, work in a team | PLO-20 | |
| | with junior medical staff or in an interdisciplinary | | |
| | team | | |
| Ab-17 | Be able to form goals and determine the structure of | PLO-21 | |
| | personal activities | | |
| AR-15 | Be responsible for maintaining a healthy lifestyle and | PLO-22 | |
| | timely use of self-regulatory methods | | |
| AR-16 | To be aware of and guided in their activities by civil | PLO-23 | |
| | rights, freedoms and responsibilities, to raise the | | |
| | general educational and cultural level. | | |
| Co -15 | Adhere to the requirements of ethics, bioethics and | PLO-24 | |
| | deontology in their professional activities | 4 | |
| AR-17 | Be responsible for compliance with the requirements | | |
| | of ethics, bioethics and deontology in their | | |
| | professional activities. | | |
| | 6. Format and scope of the course | | |
| | Course format - full-time | 1 | |
| Type of study | Number of hours | Number of | |
| activities | | groups | |

| lectures | 0 | 1 | |
|-------------------------------------|-----|---|--|
| practical | 198 | | |
| seminars | 0 | | |
| independent | 162 | | |
| | | | |
| 7. Topics and content of the course | | | |

| | | 7. Topics and | l content of the course | | |
|---|------------|---------------------------|---|--------------|------------|
| | Class | Торіс | Content of training | Cod | e learning |
| | type | | | 0 | utcome |
| | code | | | | |
| | P-1 | World pandemic | World pandemic COVID-19. Diagnosis of | Kn – 1 | -15 |
| | (practical | COVID-19. Diagnosis of | SARS-CoV-2. Clinical manifestations, | Ab – 1 | -18 |
| | lesson - | SARS-CoV-2. Clinical | prevention and treatment. Differential | Co-1- | 16 |
| | 1) | manifestations, | diagnosis of arterial hypertension: essential | AR – | 1-18 |
| | | prevention and treatment. | and secondary (renal, endocrine, | | |
| | | Management of a patient | geodynamic, central genesis, etc.). | | |
| | | with hypertension | Stratification of the risk of cardiovascular | | |
| | | | complications and determination of the | | |
| | | | prognosis. Drawing up a survey plan. | | |
| | | | Tactics of patient management depending | | |
| | | | on the risk group. Principles of non-drug | | |
| | | | and drug treatment of hypertension. Drugs | | |
| | | | of the first and second line of treatment. | | |
| | | | Modern recommendations for the choice of | | |
| | | | antihypertensive drugs. Treatment | | |
| | | | standards. Monotherapy and combination | | |
| | | | therapy. Side effects of antihypertensive | | |
| | | | drugs. Hypertensive crises, features of | | |
| | | | treatment tactics. Primary and secondary | | |
| | D 2 | Management of mations | prevention. Prognosis and working ability | V. 1 | 15 |
| | P-2 | with symptometic | binerential diagnosis of arterial | Kn - 1 | -13 19 |
| | | hypertension | progressive orthostatic hypotension | $C_0 = 1$ | 16 |
| | | hypertension | iatrogenic hypotension fainting in heart | $\Delta R =$ | 1_18 |
| | | | endocrine and nervous diseases metabolic | 7 11 | 1 10 |
| | | | disorders, hysterical neurosis, Drawing up | | |
| | | | a plan of examination and tactics of patient | | |
| | | | management. Laboratory and instrumental | | |
| | | | methods of additional examination. | | |
| | | | Vasopressors. | | |
| | P-3 | Management of a patient | Differential diagnosis of arterial | Kn – 1 | -15 |
| | | with arterial hypotension | hypertension: mechanisms leading to | Ab – 1 | -18 |
| | | and fainting | arterial hypertension. Drawing up a plan of | Co-1- | 16 |
| | | _ | examination and tactics of patient | AR – | 1-18 |
| | | | management. Laboratory and instrumental | | |
| | | | methods of additional examination. | | |
| | | | Antihypertensive drugs. | | |
| | P-4 | Management of a patient | Differential diagnosis of atrial and | Kn – 1 | -15 |
| | | with cardiac arrhythmia | ventricular arrhythmias, atrial fibrillation, | Ab-1 | -18 |
| | | | sinus node weakness syndromes and Wolf- | Co-1- | 16 |
| | | | Parkinson-White. Drawing up a survey | AR – | 1-18 |
| | | | plan, additional laboratory and | | |
| | | | instrumental methods of examination. | | |
| | | | Tactics of patient management. The main | | |
| 1 | | | classes of antiarrhythmic drugs, indications | | |

| | | - | | |
|-----|---------------------------|---|---------|-----------|
| | | for their use, side effects. Treatment standards. Electropulse therapy. Surgical | | |
| | | methods of arrhythmias treatment. Primary | | |
| | | and secondary prevention. Prognosis and | | |
| | | working ability | | |
| P-5 | Management of a patient | Disorders of atrioventricular conduction, | Kn – 1 | -15 |
| | with impaired cardiac | AV-blockade of varying degrees (Mobitz 1 | Ab – 1 | -18 |
| | conduction | and 2). Federico's syndrome. ECG | Co-1- | 16 |
| | | diagnosis of blockade of the legs of the His | AR - I | 1-18 |
| | | bundle. Tactics of patient management, | | |
| | | additional laboratory and instrumental | | |
| | | methods of examination. Drug treatment | | |
| | | and pacing. Artificial rhythm drivers. | | |
| | | Primary and secondary prevention. | | |
| DC | | Prognosis and working ability | 17 1 | 1 7 |
| P-6 | Management of a patient | Differential diagnosis of angina and | Kn - 1 | -15 |
| | with cardialgia and chest | respiratory digestive musculoskeletel | A0 - 1 | -10 16 |
| | pam | systems, etc. Drawing up a survey plan | ΔD-1- | 10 |
| | | additional laboratory and instrumental | AIX - | 1-10 |
| | | methods of examination. Tactics of | | |
| | | nations of examination. Tactles of | | |
| | | cardialgia. | | |
| P-7 | Management of a patient | Typical and atypical angina, diagnostic | Kn – 1 | -15 |
| | with stable angina, | criteria. Assistance at the pre-hospital and | Ab – 1 | -18 |
| | painless myocardial | hospital stages. Drawing up of the plan of | Co-1- | 16 |
| | ischemia, unstable | inspection, additional laboratory and | AR – | 1-18 |
| | angina, myocardial | instrumental methods of inspection (ECG | | |
| | infarction | with physical activity, daily Holter | | |
| | | monitoring, stress-Echo-KG, coronary | | |
| | | angiography). Tactics of management of | | |
| | | patients depending on a functional class. | | |
| | | Existing treatment standards. Endovascular | | |
| | | and surgical treatments. Primary and | | |
| | | secondary prevention. Prognosis and | | |
| | | dooth Drawing up a survey plan | | |
| | | additional laboratory and instrumental | | |
| | | methods of examination. Tactics of patient | | |
| | | management. Primary and secondary | | |
| | | prevention. Prognosis and working ability | | |
| | | Types of unstable angina, myocardial | | |
| | | infarction: examination plan, additional | | |
| | | laboratory and instrumental methods of | | |
| | | examination, treatment standards, primary | | |
| | | and secondary prevention, prognosis and | | |
| | | performance | | |
| P-8 | Management of a patient | Differential diagnosis of cardiomegaly in | Kn -1 | -15 |
| | with cardiomegaly, heart | heart defects, myocarditis, | Ab-1 | -18 |
| | murmurs, acrocyanosis | cardiomyopathies, coronary heart disease. | Co-1- | 10 |
| | | Differential diagnosis of functional and | AK – | 1-18 |
| | | Drawing up of the plan of inspection | | |
| | | additional instrumental methods of | | |
| | | auditional instrumental methods of | | |

| | | | inspection (roentgenoscopy of lungs and | | |
|---|------|---------------------------|--|-----------|------|
| | | | heart, ECG, Echo-KG, coronary | | |
| | | | angiography). Tactics of patient | | |
| | | | management. Non-drug. drug and surgical | | |
| | | | treatment Primary and secondary | | |
| | | | prevention Prognosis and working ability | | |
| | P_9 | Management of a patient | Right ventricular left ventricular and | Kn _ 1 | -15 |
| | 1) | with heart failure | hiventricular heart failure. Differential | Ab - 1 | _18 |
| | | with heart failure | diagnosis depending on the underlying | $C_0 = 1$ | 16 |
| | | | angliosis depending on the underlying | C0-1- | 10 |
| | | | inspection additional instrumental | AK – | 1-10 |
| | | | inspection, additional instrumental | | |
| | | | inethods of inspection (roentgenoscopy of | | |
| | | | lungs and neart, ECG, Ecno-KG, coronary | | |
| | | | angiography). Tactics of patients | | |
| | | | depending on the genesis, functional class | | |
| | | | and stage of heart failure. Non-drug, drug | | |
| | | | and surgical treatment. Treatment | | |
| | | | standards. Primary and secondary | | |
| | | | prevention. Prognosis and working ability | | |
| | P-10 | Management of a patient | Differential diagnosis of arthralgias, | Kn – 1 | -15 |
| | | with arthralgias / | arthritis. Drawing up of the plan of | Ab-1 | -18 |
| | | myalgias, joint | inspection, additional laboratory and | Co-1- | 16 |
| | | syndrome, arthrosis | instrumental methods of inspection | AR – | 1-18 |
| | | | (rheumatic tests, autoimmune markers, | | |
| | | | radiography, arthroscopy, Echo-KG, MRI). | | |
| | | | Tactics of management of patients | | |
| | | | depending on the main reason. Existing | | |
| | | | treatment standards. Efficacy and | | |
| | | | disadvantages of NSAIDs. Indications and | | |
| | | | contraindications for the use of steroids. | | |
| | | | Primary and secondary prevention. | | |
| | | | Prognosis and working ability | | |
| | P-11 | Management of a patient | Differential diagnosis of systemic | Kn – 1 | -15 |
| | | with hemorrhagic | vasculitis. Drawing up of the plan of | Ab – 1 | -18 |
| | | vasculitis, with systemic | inspection, additional laboratory and | Со-1- | 16 |
| | | connective tissue | instrumental methods of inspection | AR – | 1-18 |
| | | diseases | (rheumatic tests, autoimmune markers, | | |
| | | | radiography, arthroscopy, Echo-KG, | | |
| | | | NMR). Tactics of management of patients | | |
| | | | depending on the main reason. Treatment | | |
| | | | standards. Efficacy and disadvantages of | | |
| | | | NSAIDs. Indications and contraindications | | |
| | | | for the use of steroids. Primary and | | |
| | | | secondary prevention. Prognosis and | | |
| | | | working ability | | |
| | P-12 | Management of a patient | Definition, organic and functional | Kn – 1 | -15 |
| | | with gastric dyspepsia, | dyspepsia, main causes and differential | Ab - 1 | -18 |
| | | dysphagia, heartburn, | diagnosis. Symptoms of red flags. Drawing | Co-1- | 16 |
| | | abdominal pain, chronic | up a plan of examination, additional | AR – | 1-18 |
| | | diarrheal syndrome. | laboratory and instrumental methods of | | |
| | | constipation | examination (upper endoscopy. ultrasound. | | |
| | | | general and biochemical analyzes). Special | | |
| | | | methods of examination (breath tests, pH- | | |
| | | | metry, video capsule endoscopy. X-ray | | |
| ш | | | | | |

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| | | | methods). Tactics of management of | | |
| | | | patients depending on the main reason. | | |
| | | | Treatment standards. Primary and | | |
| | | | secondary prevention. Prognosis and | | |
| | | | working ability Differential diagnosis of | | |
| | | | diarrheal syndrome and constipation. | | |
| | | | Secretory, exudative, dysmotor and | | |
| | | | functional diarrhea. The role of intolerance | | |
| | | | to food components, enzymopathies and | | |
| | | | immune factors. Malabsorption and | | |
| | | | maldigestion syndromes. Drawing up an | | |
| | | | examination plan, the role of radiological, | | |
| | | | instrumental and functional methods of | | |
| | | | examination (passage through the small | | |
| | | | intestine, irigoscopy, colonoscopy, video | | |
| | | | capsule endoscopy, respiratory tests, fecal | | |
| | | | analysis, fecal elastase). Tactics of | | |
| | | | management of patients depending on the | | |
| | | | reason, differentiated therapy. Treatment | | |
| | | | standards. Primary and secondary | | |
| | | | prevention. Prognosis and working ability | | |
| | P-13 | Management of a patient | Differential diagnosis of hepatic, hepatic | K n – 1 | -15 |
| | 1 10 | with jaundice ascites. | and hepatic jaundice. Drawing up a survey | Ab - 1 | -18 |
| | | portal hypertension | plan the role of instrumental and | C_{0-1} | 16 |
| | | henatic encenhalonathy | laboratory methods of examination | AR - | 1-18 |
| | | hepatomegaly and | Tactics of management of patients | 1 11 1 | 1 10 |
| | | hepatolienal syndrome | depending on the reason differentiated | | |
| | | neputonenui synaronne | therapy Existing treatment standards | | |
| | | | Primary and secondary prevention | | |
| | | | Prognosis and working ability Differential | | |
| | | | diagnosis of conditions leading to portal | | |
| | | | hypertension and ascites. Drawing up a | | |
| | | | survey plan, the role of instrumental and | | |
| | | | laboratory methods of examination | | |
| | | | Tactics of patient management. Treatment | | |
| | | | standards. Indications for endoscopic and | | |
| | | | surgical treatment. Primary and secondary | | |
| | | | prevention Prognosis and efficiency | | |
| | | | Differential diagnosis of hepatolienal | | |
| | | | syndrome. Drawing up a survey plan | | |
| | | | Tactics of patient management | | |
| | | | Henetoprotectors and antiviral therapy | | |
| | | | Treatment standards Indications for | | |
| | | | surgical treatment. Primary and secondary | | |
| | | | prevention Prognosis and working ability | | |
| | | | Differential diagnosis of conditions leading | | |
| | | | to hepatic encephalopathy, its stage | | |
| | | | Drawing up a survey plan, the role of | | |
| | | | instrumental and laboratory methods of | | |
| | | | avamination Tactics of nationt | | |
| | | | examination. Tactics of patient | | |
| | | | Efforent methods of treatment Driver | | |
| | | | enterent methods of treatment. Primary | | |
| | | | and secondary prevention. Prognosis and | | |
| L | | | working ability prevention. Prognosis and | | <u> </u> |

| | | working ability | | |
|------|----------------------------|---|-------------|------------|
| P-14 | Management of a patient | Differential diagnosis of conditions | Kn – | 1-15 |
| | with bronchoobstructive | accompanied by bronchoobstructive | Ab – | -18 |
| | syndrome and chronic | syndrome: bronchial asthma and COPD. | Co-1- | 16 |
| | cough | Drawing up an examination plan, the role | AR – | 1-18 |
| | | of instrumental and laboratory methods of | | |
| | | examination (peak fluorimetry | | |
| | | spirography radiography bronchography. | | |
| | | CT. bronchoscopy) Tactics of | | |
| | | management of patients depending on the | | |
| | | reason differentiated therapy Indications | | |
| | | for transfer of the patient to the intensive | | |
| | | care unit. Drug and non-drug treatment. | | |
| | | Treatment standards. Primary and | | |
| | | secondary | | |
| P-15 | Management of a patient | Differential diagnosis of conditions | Kn – | -15 |
| | with infiltrative | accompanied by the presence of | Ab – | -18 |
| | darkening in the lungs. | pulmonary infiltrate. Drawing up a plan of | Co-1- | 16 |
| | with community- | examination, the role of radiological. | AR – | 1-18 |
| | acquired pneumonia. | instrumental and laboratory methods of | | |
| | pleural effusion | examination (radiography, bronchography, | | |
| | 1 | CT, bronchoscopy, biopsy, sputum | | |
| | | cultures). Tactics of management of | | |
| | | patients depending on the reason, | | |
| | | differentiated therapy. Indications for | | |
| | | consultations by other specialists | | |
| | | (phthisiologist, oncologist, etc.). Drug and | | |
| | | non-drug treatment. Primary and | | |
| | | secondary prevention. Prognosis and | | |
| | | working ability | | |
| P-16 | Management of a patient | Differential diagnosis of conditions | Kn – 1 | -15 |
| | with hemoptysis and lung | accompanied by hemoptysis | Ab – 1 | -18 |
| | abscess, asphyxia, | (bronchiectasis, tumors, tuberculosis, | Co-1- | 16 |
| | respiratory failure | pneumonia, mitral stenosis, pulmonary | AR – | 1-18 |
| | | infarction, etc.). Existing diagnostic | | |
| | | algorithms. Drawing up an examination | | |
| | | plan, the role of radiological, instrumental | | |
| | | and laboratory methods of examination | | |
| | | (radiography, bronchography, CT, | | |
| | | bronchoscopy, ultrasound, | | |
| | | echocardiography, coagulogram, general | | |
| | | and biochemical tests). Tactics of | | |
| | | management of patients depending on the | | |
| | | reason, differentiated therapy. Indications | | |
| | | for consultations by other specialists | | |
| | | (plithistologist, oncologist, surgeon, etc.). | | |
| D 17 | Managan ant of a setting t | Diug and non-drug treatment. | V··· | 15 |
| F-1/ | with a favor of wrant in | Differential diagnosis of conditions | Kn – | 1-13 |
| | genesis | for a companied by the presence of protonged | AU - 1 | 1-10 16 |
| | genesis | Drawing up a plan of avamination, the rela | | 10 |
| | | of radiological instrumental and | <u>лк</u> – | 1-10 |
| | | laboratory methods of examination | | |
| | | (radiography bronchography CT | | |
| | | (radiography, oronenography, C1, | | l |

| | | | bronchoscopy, ultrasound, general and biochemical tests, blood cultures, urine, bile_sputum)_Tactics of management of | | |
|---|------|-------------------------|---|--------|------|
| | | | patients depending on the reason. | | |
| | | | differentiated therapy. Indications for | | |
| | | | consultations with other specialists. Drug | | |
| | | | and non-drug treatment | | |
| | P-18 | Management of a patient | . Definition and characteristics of the | Kn – 1 | -15 |
| | | with urinary and | components of urinary and nephrotic | Ab – 1 | -18 |
| | | nephrotic syndromes, | syndrome. Differential diagnosis of | Co-1- | 16 |
| | | with edematous | hematuria, leukocyturia, proteinuria. | AR – | 1-18 |
| | | syndrome | Drawing up a survey plan, the role of | | |
| | | | radiological, instrumental and laboratory | | |
| | | | methods of examination. Tactics of | | |
| | | | management of patients depending on the | | |
| | | | reason, differentiated therapy. Drug and | | |
| | | | non-drug treatment. Existing treatment | | |
| | | | standards. Primary and secondary | | |
| | | | prevention. Prognosis and working ability | | |
| | | | Differential diagnosis of edema of various | | |
| | | | origins. Drawing up a survey plan, the role | | |
| | | | of instrumental and laboratory methods of | | |
| | | | examination. Tactics of management of | | |
| | | | differentiated therapy. Drug and non-drug | | |
| | | | treatment Advantages and disadvantages | | |
| | | | of diuretic therapy. Treatment standards | | |
| | | | Primary and secondary prevention. | | |
| | | | Prognosis and working ability | | |
| | P-19 | Management of a patient | Definition and classification. Etiological | Kn – 1 | -15 |
| | | with chronic kidney | factors. The concept of "chronic kidney | Ab - 1 | -18 |
| | | disease | disease". Classification. Pathogenesis of | Co-1- | 16 |
| | | | lesions of organs and systems, their | AR – | 1-18 |
| | | | clinical manifestations. Clinic and changes | | |
| | | | in laboratory parameters depending on the | | |
| | | | stage. Differential treatment at different | | |
| | | | stages. Renal replacement therapy: | | |
| | | | Indications and contraindications to | | |
| | | | hemodialysis complications Primary and | | |
| | | | secondary prevention Prognosis and | | |
| | | | working ability. | | |
| | P-20 | Management of a patient | Definition, classification, criteria for | Kn – 1 | -15 |
| | | with anemia | diagnosis and differential diagnosis of iron | Ab – 1 | -18 |
| | | | deficiency and B12-deficiency, hemolytic. | Co-1- | 16 |
| | | | hypoplastic, posthemorrhagic anemia. The | AR – | 1-18 |
| | | | main causes of iron deficiency. Drawing | | |
| 1 | | | up an examination plan, the role of | | |
| | | | laboratory methods of examination in iron | | |
| | | | deficiency and B12-deficient anemia. | | |
| | | | Tactics of patient management, medical | | |
| | | | and non-medical treatment. Indications for | | |
| | | | blood transfusion. Existing treatment | | |
| L | | | standards. Primary and secondary | | |

| | | prevention. Forecast and efficiency | |
|-------------------|-------------------------|---|--------------------------|
| P-21 | Management of a patient | Definition, main causes, classification. | Kn – 1-15 |
| | with leukemoid reaction | Differential diagnosis of leukemia and | Ab – 1-18 |
| | and leukemia, with | leukemoid reaction. Principles of | Co-1-16 |
| | polycythemia, | differentiated treatment. Bone marrow | AR – 1-18 |
| | lymphadenopathy | transplantation. Supportive therapy. | |
| | | Primary and secondary prevention. | |
| | | Prognosis and working ability | |
| P-22 | Management of a patient | Standards of diagnosis and treatment. | Kn – 1-15 |
| | with severe pneumonia, | Treatment tactics depending on the | Ab – 1-18 |
| | acute COVID-19 | severity and prevalence. The role of | Co-1-16 |
| | respiratory distress | radiological, instrumental and laboratory | AR – 1-18 |
| | syndrome, | methods of additional examination. | |
| | | Indications for pleural puncture. | |
| | | Indications for transfer to the intensive | |
| | | care unit, artificial lung ventilation. Further | |
| | | management of patients. | |
| P-23 | Management of a patient | Standards of diagnosis and emergency | Kn – 1-15 |
| | with a complicated | treatment at the pre-hospital and hospital | Ab – 1-18 |
| | hypertensive crisis, | stage. Tactics of treatment depending on | Co-1-16 |
| | cardiac asthma and | the lesion of target organs. Further | AR – 1-18 |
| | pulmonary edema | management of patients | |
| P-24 | Management of a patient | Standards of urgent diagnosis and | Kn – 1-15 |
| | with acute coronary | emergency treatment at the prehospital and | Ab – 1-18 |
| | syndrome, myocardial | hospital stage. Treatment tactics depending | Co-1-16 |
| | infarction, cardiogenic | on the rise of the ST segment. Further | AR – 1-18 |
| | shock | management of patients | |
| P-25 | Management of a patient | Standards of urgent diagnosis and | Kn – 1-15 |
| | with pulmonary | emergency treatment at the prehospital and | Ab – 1-18 |
| | embolism. Tactics of | hospital stage. Tactics of treatment | Co-1-16 |
| | treatment of sudden | depending on the level of embolization. | AR – 1-18 |
| | cardiac death | Further management of patients. | |
| <mark>P-26</mark> | Management of a patient | Standards of urgent diagnosis and | Kn – 1-15 |
| | with paroxysmal | emergency treatment at the prehospital and | <mark>PAb – 1-18</mark> |
| | disorders of rhythm and | hospital stage. Tactics of treatment | CPo-1-16 |
| | conduction | depending on the type of arrhythmia or | <mark>ARP - 1-18</mark> |
| | | blockade. Electropulse therapy and | |
| | | electrical stimulation. Further management | |
| | | of patients. | |
| P-27 | Management of a patient | Standards of diagnosis and treatment. | Kn – P 1-15 |
| | with the threat of | Treatment tactics depending on the stage. | <mark>Ab – 1P-1</mark> 8 |
| | respiratory arrest | The role of radiological, instrumental and | Co-1-1PP6 |
| | (asthmatic condition), | laboratory methods of additional | <mark>AR – 1-18P</mark> |
| | pneumothorax | examination. Indications for transfer to the | |
| | | intensive care unit, artificial lung | |
| | | ventilation. Further management of | |
| | | patients | |
| P-28 | Management of a patient | Standards of diagnosis and treatment. | <mark>Kn – 1-15</mark> |
| | with acute hepatic or | Treatment tactics depending on the cause | <mark>Ab – 1-18</mark> |
| | renal insufficiency | and stage. The role of instrumental and | <mark>Co–1-</mark> 16 |
| | | laboratory methods of additional | <mark>AR – 1-18</mark> |
| | | examination. Indications for pleural | |
| | | puncture. Indications for transfer to the | |
| | | intensive care unit, efferent therapy. | |

| | 1 | Further management of patients | | |
|-------------------------------------|--|---|-----------------------------------|----------------------------|
| P-29 | Management of a patient with acute abdominal pain and gastrointestinal bleeding | Standards of diagnosis and management of patients. Tactics of management of patients depending on the reason. The role of instrumental and laboratory methods of additional examination. Indications for urgent surgical treatment. Indications for transfer to the surgical department or intensive care unit. Further management of patients. | Kn – 1 Ab – 1 Co–1– AR – | 1-15 1-18 16 1-18 |
| P-30 | Management of a patient with acute arthritis and acute back pain | Standards of diagnosis and treatment. Tactics of treatment depending on the nature of localization and joint damage. The role of instrumental and laboratory methods of additional examination. Further management of patients. | Kn – 1 Ab – 1 Co–1- AR – | -15 -18 16 1-18 |
| P-31 | Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis. | Standards of diagnosis and management of patients. Tactics of management of patients depending on the reason. The role of endoscopic, instrumental and laboratory methods of additional examination. Conservative treatment. Indications for blood transfusion. Indications for thrombolytic therapy. Further management of patients. | Kn – 1 Ab – 1 Co–1– AR – | 1-15 1-18 16 1-18 |
| P-32 | Management of patients with shocks | Existing standards of urgent diagnosis and emergency treatment at the pre-hospital and hospital stage. Tactics of treatment of shocks depending on the reason of occurrence. Further tactics of patient management. | Kn – 1 Ab – 1 Co–1- AR – | 1-15 1-18 16 1-18 |
| P-33 | Management of patients with coma. Credit lesson | . Existing standards for diagnosis and management of patients with coma. Classification of com. Tactics of management of patients depending on the reason of com. The role of instrumental and laboratory methods of additional examination. Emergency care and conservative treatment. Further tactics of patient management. | Kn – 1 Ab – 1 Co–1- AR – | 1-15 1-18 16 1-18 |
| IS -1 (indepen dent study) | Preparation for a practical lesson on the topic "World pandemic COVID-19. Diagnosis of SARS-CoV-2. Clinical manifestations, prevention and treatment. Management of a patient with arterial hypertension "- | Preparation for a practical lesson on the topic" World pandemic COVID-19. Diagnosis of SARS-CoV-2. Clinical manifestations, prevention and treatment. Management of a patient with arterial hypertension " Improving the method of registration and interpretation of ECG, blood pressure measurement and interpretation of the results on the topic Improving the interpretation of the results of laboratory research methods (blood creatinine, glomerular filtration rate, blood electrolytes). | Kn – Ab – Co–1- AR – | 1-15 1-18 16 1-18 |
| IS-2 | Preparation for a | Preparation for a practical lesson on | Kn – | 1-15 |

| | practical lesson on | "Management of patients with | Ab – 1-18 | |
|-------|--------------------------|--|--------------------|---|
| | "Management of patients | symptomatic hypertension" Improving | Co-1-16 | |
| | with symptomatic | the method of ECG recording, Doppler | AR – 1-18 | 3 |
| | hypertension" | echocardiography, blood pressure | | |
| | | measurement and interpretation of the | | |
| | | results on the topic Improving the | | |
| | | interpretation of the results of laboratory | | |
| | | research methods (blood creatinine | | |
| | | glomerular filtration rate blood | | |
| | | electrolytes) | | |
| IS_3 | Preparation for a | Preparation for a practical lesson on | $K_{\rm P} = 1.15$ | |
| 13-3 | practical lesson on | "Management of a patient with | Ab = 1-13 | |
| | "Management of a | hypotonsion and fainting" Improving the | $A_0 = 1 - 10$ | |
| | notiont with hypotonsion | technique of ECC intermetation on the | C_{0} - 1 - 10 |) |
| | and fainting" | technique of ECG interpretation on the | AK = 1 - 1c |) |
| | and fainting - | topic Improving the method of | | |
| | | measuring blood pressure and | | |
| | | interpretation of the results Improving | | |
| | | the interpretation of the results of | | |
| | | laboratory research methods (general blood | | |
| | | test, blood glucose, ALT, AST, creatinine, | | |
| | | GFR, total bilirubin with fractions, | | |
| | | electrolytes, coagulogram, arterial and | | |
| | | venous blood gases and acid-base status of | | |
| | | blood). | | |
| IS -4 | Preparation for a | Preparation for a practical lesson on " | Kn – 1-15 | |
| | practical lesson on | Management a patient with a heart rhythm | Ab – 1-18 | |
| | "Management a patient | disorder" Improving the technique of | Co-1-16 | |
| | with a heart rhythm | ECG interpretation on the topic | AR – 1-18 | 3 |
| | disorder" - | Improving the interpretation of | | |
| | | coagulogram results. | | |
| IS -5 | Preparation for a | Preparation for a practical lesson on | Kn – 1-15 | |
| | practical lesson on | "Management of a patient with cardiac | Ab – 1-18 | |
| | "Management of a | conduction disorders" Improving the | Co-1-16 | |
| | patient with cardiac | interpretation of the ECG in case of | AR – 1-18 | 3 |
| | conduction disorders" | cardiac conduction disorders on the topic. | | |
| IS -6 | Preparation for a | Preparation for a practical lesson on | Kn – 1-15 | |
| | practical lesson on | "Management of a patient with cardialgia | Ab – 1-18 | |
| | "Management of a | and chest pain" Improving the | Co-1-16 | |
| | patient with cardialgia | interpretation of the ECG and test results | AR – 1-18 | 3 |
| | and chest pain" | with dosed exercise on the topic | | |
| | 1 I | Improving the interpretation of the results | | |
| | | of X-ray examination of the chest on the | | |
| | | topic Improving the interpretation of the | | |
| | | results of laboratory methods of | | |
| | | examination (biochemical markers of | | |
| | | myocardial necrosis, coagulogram D- | | |
| | | dimer, blood lipid spectrum) | | |
| IS -7 | Preparation for a | Preparation for a practical lesson on | Kn – 1-15 | |
| | practical lesson on | "Management of a patient with stable | Ab - 1.18 | |
| | "Management of a | angina painless myocardial ischemia | C_{0-1-16} | |
| | patient with stable | myocardial ischemia - Improving the | AR = 1.18 | 2 |
| | angina painless | interpretation of the FCG the results of the | 111 1-10 | , |
| | myocardial ischemia | test with dosed everyise. FCHO_CC on the | | |
| | unstable angina | topic - Improving the interpretation of the | | |
| | unstable aligina, | topic improving the interpretation of the | | |

| | | | | | _ |
|---|--------|-----------------------------|---|----------------|------|
| | | myocardial infarction" | results of laboratory methods of | | |
| | | | examination (biochemical markers of | | |
| | | | myocardial necrosis, coagulogram, D- | | |
| | | | dimer, blood lipid spectrum). | | |
| | IS -8 | Preparation for a | Preparation for a practical lesson on | Kn – 1 | -15 |
| | | practical lesson on | "Management of a patient with | Ab – 1 | -18 |
| | | "Management of a | cardiomegaly, heart murmurs, | Co-1- | 16 |
| | | patient with | acrocyanosis" Improving the | AR – | 1-18 |
| | | cardiomegaly, heart | interpretation of ECG results, Doppler | | |
| | | murmurs, acrocyanosis" - | echocardiography on the topic | | |
| | | | Improving the interpretation of X-ray | | |
| | | | examination of the chest on the topic | | |
| | | | Improving the interpretation of the results | | |
| | | | of laboratory research methods (arterial | | |
| | | | and venous blood gases). | | |
| | IS -9 | Preparation for a | Preparation for a practical lesson on | Kn – 1 | -15 |
| | | practical lesson on | "Management of a patient with heart | Ab - 1 | -18 |
| | | "Management of a | failure" Improving the interpretation of | Co-1- | 16 |
| | | patient with heart failure" | Doppler echocardiography on the topic | AR – | 1-18 |
| | | | Improving the interpretation of the results | | |
| | | | of laboratory research methods (analysis of | | |
| | | | ascites fluid, coagulogram, blood | | |
| | | | creatinine, glomerular filtration rate, blood | | |
| | | | electrolytes, the concentration of | | |
| | | | natriuretic peptide in the blood). | | |
| | IS -10 | Preparation for a | Preparation for a practical lesson on | Kn - 1 | -15 |
| | | practical lesson on | "Management of a patient with arthralgias / | Ab – J | -18 |
| | | "Management of a | myalgias, joint syndrome, arthrosis" | Co-l- | 16 |
| | | patient with arthralgias / | Improving the interpretation of the results | AR – | 1-18 |
| | | myalgias, joint | of X-ray examination of the spine, chest | | |
| | | syndrome, arthrosis" - | and sacrolliac joints, radiological | | |
| | | | examination of the joints on the topic | | |
| | | | Improving the interpretation of the results | | |
| | | | of laboratory research methods (indicators | | |
| | | | of immune status, synovial fluid analysis, | | |
| | | | general blood lest, acute blood parameters, | | |
| | | | UTIC acid, KF, and CCP, ANA, ds-DNA, | | |
| | IC 11 | Propagation for a | Propagation for a practical lasson on | Vn 1 | 15 |
| | 13 -11 | practical lasson on | "Management of a price with | Λh | 18 |
| | | "Management of a | hemorrhagic vasculitis, with systemic | $A_0 = 1$ | 16 |
| | | nation with hemorrhagic | connective tissue diseases " - Improving | ΔR_{-} | 1_18 |
| | | vasculitis with systemic | the interpretation of the results of X-ray | m | 1-10 |
| | | connective tissue | examination of the spine chest and | | |
| | | diseases" | sacroiliac joints, radiological examination | | |
| | | discuses | of the joints on the topic - Improving the | | |
| 1 | | | interpretation of the results of laboratory | | |
| 1 | | | research methods (indicators of immune | | |
| | | | status, synoyial fluid analysis general | | |
| | | | blood test, acute phase blood counts uric | | |
| | | | acid, RF, anti-CCP, ANA, ds-DNA, SCL- | | |
| | | | 70, pANCA, cANCA. Hbs Ag) | | |
| | IS -12 | Preparation for a | - Preparation for a practical lesson on | Kn – 1 | -15 |
| | | practical lesson on | "Management of a patient with gastric | Ab - 1 | -18 |
| - | | | | | |

| | | | 0 1 1 6 |
|---------|--------------------------|--|----------------|
| | "Management of a | dyspepsia, heartburn, dysphagia pain, with | $C_0 - 1 - 16$ |
| | duananaia duanhagia | Improving the interpretation of the results | AK - 1-10 |
| | dyspepsia, dyspnagia, | Improving the interpretation of the results | |
| | neartburn, abdominal | of endoscopic examination of the digestive | |
| | pain, chronic diarrheal | tract (EFGDS, colonoscopy) on the topic | |
| | syndrome, constipation" | Improving the interpretation of the results | |
| | | of the breath test with 13C-urea | |
| | | Improving the interpretation of the results | |
| | | of respiratory tests (with 13C-triglycerides, | |
| | | 13C-starch, 13C-lactose and hydrogen test | |
| | | with glucose and lactulose) Improving | |
| | | the interpretation of the results of the study | |
| | | of the secretory function of the stomach | |
| | | (topographic express pH-metry) | |
| | | Improving the interpretation of the results | |
| | | of daily pH monitoring of the esophagus | |
| | | Improving the interpretation of the results | |
| | | of biochemical blood tests (total blood | |
| | | protein and its fractions, serum | |
| | | transaminases, total bilirubin and its | |
| | | fractions, alkaline phosphatase, alpha- | |
| | | amylase, GGTP) Improving the | |
| | | interpretation of the results of fecal | |
| | | elastase-1, fecal calprotectin Improving | |
| | | the interpretation of the results of the | |
| | | coprocytogram. | |
| IS -13 | Preparation for a | Preparation for a practical lesson on | Kn – 1-15 |
| | practical lesson on | "Management of a patient with jaundice, | Ab – 1-18 |
| | "Management of a | hypertension, hepatocephaly, ascites, | Co-1-16 |
| | patient with jaundice | portal and hepatolienal syndrome. " - | AR – 1-18 |
| | ascites, portal | Improving the interpretation of the results | |
| | hypertension, hepatic | of biochemical blood tests (total bilirubin | |
| | encephalopathy, | and its fractions, albumin, serum | |
| | hepatomegaly and | transaminases, total blood protein and its | |
| | hepatolienal syndrome" - | fractions, alkaline phosphatase, alpha- | |
| | | amylase, GGTP) Improving the | |
| | | interpretation of the results of serological | |
| | | blood tests (serum markers of viral and | |
| | | autoimmune hepatitis, polymerase chain | |
| | | reaction - qualitative and quantitative | |
| | | analysis, virus genotyping) Improving | |
| | | the interpretation of the results of multi- | |
| | | stage duodenal sounding, microscopic and | |
| | | biochemical examination of bile | |
| | | Improving the interpretation of the results | |
| | | of ultrasound examination of the liver, | |
| | | gallbladder and biliary tract on the topic | |
| | | Improving the interpretation of the results | |
| | | of endoscopic examination of the digestive | |
| TO 14 | | tract (EFGDS) on the topic. | 17 1 1 7 |
| 18 - 14 | Preparation for a | - Preparation for a practical lesson on | Kn = 1 - 15 |
| | practical lesson on | Management of a patient with | AD - 1 - 18 |
| | Management of a | pronchoodstructive syndrome and chronic | C0-1-10 |
| | patient with | cougn Improving the interpretation of | АК – 1-18 |

| _ | | | | | |
|---|--------|---------------------------|--|-----------------|-----------|
| | | bronchoobstructive | the results of X-ray examination of the | | |
| | | syndrome and chronic | thoracic cavity on the topic Improving | | |
| | | cough | the interpretation of the results of | | |
| | | | spirography, the results of provocative | | |
| | 70 1 7 | | tests with a bronchodilator on the topic. | | |
| | IS -15 | Preparation for a | - Preparation for a practical lesson on | Kn – 1 | -15 |
| | | practical lesson on | "Management of a patient with infiltrative | Ab – 1 | -18 |
| | | "Management of a | infiltrative opacities in the lungs, in- | Co-1- | 16 |
| | | patient with infiltrative | hospital, community-acquired pneumonia | AR – | 1-18 |
| | | opacities in the lungs, | » Improving the interpretation of the | | |
| | | with community- | results of sonography and X-ray | | |
| | | acquired pneumonia, | examination of the thoracic cavity in two | | |
| | | pleural effusion" | projections, computed tomography on the | | |
| | | | topic Improving the interpretation of the | | |
| | | | results of laboratory research methods | | |
| | | | (general and microbiological examination | | |
| | | | of sputum; biochemical, cytological. | | |
| | | | microbiological analysis of pleural fluid). | | |
| | IS -16 | Preparation for a | Preparation for a practical lesson on | Kn – 1 | -15 |
| | | practical lesson on | "Management of a patient with hemoptysis | Ab - 1 | -18 |
| | | "Management of a | and lung abscess asphyxia respiratory | Co-1- | 16 |
| | | patient with hemoptysis | failure " - Improving the interpretation of | AR - | 1-18 |
| | | and lung abscess | the results of X-ray examination of the | | 1 10 |
| | | asphyxia respiratory | thoracic cavity computed tomography on | | |
| | | failure" | the topic - Improving the interpretation of | | |
| | | Tullulo | the results of laboratory research methods | | |
| | | | (coagulogram D-dimer arterial and | | |
| | | | venous blood gases and indicators of acid- | | |
| | | | hase status of blood) - Mastering the skills | | |
| | | | of interpretation of general blood tests | | |
| | | | sputum analysis (bacteriological | | |
| | | | microscopic determination of sensitivity | | |
| | | | to antibiotics) | | |
| | IS -17 | Preparation for a | Preparation for a practical lesson on | Kn _ 1 | -15 |
| | 10 17 | practical lesson on | "Keeping a patient with a fever of | Ab - 1 | -18 |
| | | "Keeping a patient with a | unknown origin " - Improving the | C_{0-1} | 16 |
| | | fever of unknown origin" | interpretation of X-ray examination of the | ΔR_{-} | 1_18 |
| | | lever of unknown ofigin | chest ultrasound examination of the | 7 111 | 1 10 |
| | | | abdominal cavity on the tonic - Improving | | |
| | | | the interpretation of the results of | | |
| | | | laboratory research methods (general blood | | |
| | | | test general urine test bacteriological | | |
| | | | culture procalcitonin ANA ds DNA) | | |
| | IS 18 | Preparation for a | Preparation for a practical lesson on | Kn 1 | 15 |
| | 15 -10 | practical lasson on | "Management of a patient with urinery and | $\Lambda h = 1$ | 18 |
| | | "Monogoment of a | nanagement of a patient with unnary and | A0 = 1 | -10 16 |
| 1 | | ivialize filent of a | aundromo" Improving the intermetation | C0-1- | 10 |
| 1 | | patient with unitary and | of the results of radiological studios of the | AN - | 1-10 |
| 1 | | with adama sundrama" | urinary system on the tonia Improving | | |
| 1 | | with edenia syndrome | the interpretation of the regults of | | |
| 1 | | | laboratory research matheds (concerning his of | | |
| 1 | | | table appared uring test wring test by OZ | | |
| 1 | | | Nachingranko and SS Zymmetteley | | |
| 1 | | | nechiporenko and SS Zymnytsky, | | |
| L | | | microbiological study of urine, daily | | |

| | | | | - |
|--------|-------------------------|---|-----------------|---------------|
| | | proteinuria; total bilirubin and its fractions, | | |
| | | total protein with protein fractions, blood | | |
| | | transaminases, creatinine, urea, blood uric | | |
| | | acid, cholesterol, glomerular filtration | | |
| | | rate) Improving the interpretation of | | |
| | | Doppler echocardiography on the topic | | |
| IS -19 | Preparation for a | Preparation for a practical lesson on | Kn _ 1 | -15 |
| 15 -17 | practical lesson on | "Management of a patient with chronic | | 18 |
| | "Management of a | kidney disease" Improving the | A0 - 1 | 1 <i>-</i> 10 |
| | Management of a | kinney disease Improving the | C0-1- | 10 |
| | patient with chronic | interpretation of the results of faboratory | AK – | 1-18 |
| | kidney disease | research methods (general blood test, | | |
| | | general urine test, electrolytes, urea, | | |
| | | creatinine, glomerular filtration rate). | | |
| IS -20 | Preparation for a | Preparation for a practical lesson on | Kn – 1 | -15 |
| | practical lesson on | "Management a patient with anemia" | Ab - 1 | -18 |
| | "Management a patient | Repetition of the method of determining | Co-1- | 16 |
| | with anemia" | blood type Repetition of the method of | AR – | 1-18 |
| | | transfusion of blood components and blood | | |
| | | substitutes Improving the interpretation | | |
| | | of general blood tests, bone marrow | | |
| | | punctate and trepan biopsy Improving | | |
| | | the interpretation of the results of the study | | |
| | | of iron metabolism (serum iron, total | | |
| | | serum iron binding capacity saturation of | | |
| | | iron transferrin ferritin level) | | |
| IS _21 | Preparation for a | Preparation for a practical lesson on | Kn _ 1 | _15 |
| 10 -21 | practical lesson on | "Management of a patient with laukemoid | | 18 |
| | "Management of a | reaction and loukamia, with polyaythamia | $A_0 = 1$ | 16 |
| | wallagement of a | lumphadapania " Improving the | C0-1- | 10 |
| | patient with leukenic | interpretation of the general analysis of | AK – | 1-10 |
| | reaction and reukerina, | hlead have more supported the results of | | |
| | with polycythemia, | blood, bone marrow punctate, the results of | | |
| | lymphadenopathy | cytochemical studies Improving the | | |
| | | interpretation of the results of cytological | | |
| | | examination of the lymph node biopsy | | |
| | | Mastering the skills of interpreting the | | |
| | | results of X-ray examination of bones on | | |
| | | the topic. | | |
| IS -22 | Preparation for a | Preparation for a practical lesson on | Kn - 1 | -15 |
| | practical lesson on | "Management of a patient with severe | Ab - 1 | -18 |
| | "Management of a | pneumonia, acute respiratory distress | Co-1- | 16 |
| | patient with severe | syndrome, covid" Improving the | AR – | 1-18 |
| | pneumonia, acute | interpretation of the results of X-ray | | |
| | respiratory distress | examination of the thoracic cavity, CT on | | |
| | syndrome, covid" | the topic Improving the interpretation of | | |
| | | the results of laboratory research methods | | |
| | | (general analysis of blood, bilirubin and its | | |
| | | fractions, transaminases, D-dimer. | | |
| | | procalcitonin, CRP, creatinine, urea. | | |
| | | arterial and venous blood gases and | | |
| | | indicators of acid-base blood status | | |
| | | coagulogram) | | |
| IS _22 | Preparation for a | Preparation for a practical lesson on | Kn ¹ | -15 |
| 10-20 | practical lesson on | "Management of a patient with | Δh | -13 |
| | "Management of a | applicated hypertensive griding conding | AU = I | 16 |
| | management of a | complicated hypertensive clisis, cardiac | C0-1- | 10 |

| | patient with complicated | asthma and pulmonary edema" | AR – 1-18 |
|---------------------|-----------------------------|---|---------------------|
| | hypertensive crisis, | Improving the method of measuring blood | |
| | cardiac asthma and | pressure and interpretation of the results | |
| | pulmonary edema" | Improving the interpretation of ECG | |
| | | results Doppler echocardiography on the | |
| | | tonia. Improving the interpretation of the | |
| | | topic Improving the interpretation of the | |
| | | results of the analysis of biochemical | |
| | | parameters of the blood (markers of | |
| | | myocardial necrosis). | |
| IS -24 | Preparation for a | Preparation for a practical lesson on | Kn – 1-15 |
| | practical lesson on | "Management of a patient with acute | Ab – 1-18 |
| | "Management of a | coronary syndrome myocardial infarction | C_{0-1-16} |
| | nations with acute | cardiogenic shock " - Improving the | $\Delta R = 1 - 18$ |
| | patient with acute | methodology of registration and | |
| | coronary syndrome, | | |
| | myocardial infarction, | interpretation of ECG, Ecno-CG on the | |
| | cardiogenic shock" | topic Improving the interpretation of the | |
| | | results of laboratory research methods | |
| | | (biochemical markers of myocardial | |
| | | necrosis). | |
| IS -25 | Preparation for a | "- Preparation for a practical lesson on" | Kn – 1-15 |
| | practical lesson on | Management of a patient with pulmonary | Ab – 1-18 |
| | "Management of a | embolism Tactics of treatment for sudden | C_{0-1-16} |
| | natient with pulmonary | cardiac death - Improving the | AR = 1 - 18 |
| | embolism Tactics of | interpretation of the results of Echo-CG | |
| | treatment of sudden | and Y ray examination of the thoracic | |
| | and a death | and X-ray examination of the moracle | |
| | cardiac death | cavity on the topic Improving the | |
| | | interpretation of the results of laboratory | |
| | | research methods (coagulogram, arterial | |
| | | and venous blood gases and indicators of | |
| | | acid-base status of blood) Improving the | |
| | | algorithm for mechanical ventilation and | |
| | | indirect heart massage in case of | |
| | | circulatory and respiratory arrest. | |
| IS -26 | Preparation for a | - Preparation for a practical lesson on | Kn – 1-15 |
| | practical lesson on | "Management of a patient with paroxysmal | Ab – 1-18 |
| | "Management of a | rhythm and conduction disorders" | Co-1-16 |
| | natient with paroxysmal | Improving the technique of ECG | AR - 1 - 18 |
| | rhythm and conduction | interpretation on the topic - Improving the | |
| | disorders" | interpretation of coagulogram results | |
| IS 27 | Propagation for a | Propagation for a practical lasson on | Kn 115 |
| 10 - 27 | reparation for a | "Monagement of a patient with a threat of | $K_{II} = 1 - 1.3$ |
| | Practical lesson on | Mailagement of a patient with a threat of | A0 = 1 - 10 |
| | Management of a | respiratory arrest (astimatic condition), | C_{0-1-10} |
| | patient with a threat of | pneumotnorax Improving the | AK – 1-18 |
| | respiratory arrest | interpretation of the results of X-ray | |
| | (asthmatic condition), | examination of the thoracic cavity on the | |
| | pneumothorax" | topic Improving the interpretation of the | |
| | | results of laboratory research methods | |
| | | (arterial and venous blood gases and | |
| | | indicators of acid-base status of blood). | |
| <mark>IS -28</mark> | Preparation for a | Preparation for a practical lesson on | Kn – 1-15 |
| | practical lesson on | "Management of a patient with acute liver | Ab – 1-18 |
| | "Management of a | or kidney failure" Improving the | Co-1-16 |
| | patient with acute liver or | interpretation of the results of laboratory | AR – 1-18 |
| | kidney failure" - | research methods (general blood test | |
| 1 1 | | Seneral Contra Clock | |

| IS -29 Preparation for a practical lesson on "Management of a patient with acute addominal pain and gastrointestinal bleeding" Improving the interpretation of the results of chackscopic examination of the digestrive tract (EFODS, colonoscopy) on the topic Improving the interpretation of the results of chackscopic examination and its fractions, sukaline phosphatase, alpha-aamydase, (GTP) Improving the method of adtermining blood type and transfusion of blood components and blood substitutes. Kn = -1.18 IS -30 Preparation for a practical lesson on "Management of a patient with acute arthritis and acute back pain." - Improving the method of determining blood type and transfusion of blood components and blood substitutes. Kn = -1.18 IS -30 Preparation for a practical lesson on "Management of a patient with acute arthritis and acute back pain." - Improving the interpretation of the results of a patient with acute arthritis and acute back pain." - Improving the interpretation of the spills of X-ray examination of the spills. Joel. (JCPK). IS -31 Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis." - Repetition of the methods (indicators of immune status, HLA-B27, Joel. (CPK). Kn = -1.18 IS -31 Preparation for a paratical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis." - Repetition of the method of ransfusion of blood components and blood substitutes Improving the interpretation of the results of uncertain swith shock." - Informate and trepa biopsy Improving the interpretation of the results of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis." - Rep | | | | general analysis of uring bilimitin and its | | |
|--|---|---------------------|----------------------------|---|----------------|-------------------|
| 15 -29 Preparation for a practical lesson on "Management of a patient with acute abdominal pain and gastrointestinal biedding" Improving the interpretation of the results of endoscopic examination of gastrointestinal biedding" Improving the interpretation of the results of biochemical biodo tests. One -1-18 Kn = -1-18 18 -30 Preparation for a practical lesson on of biochemical bi | | | | fractions, total protein and its fractions | | |
| 15 -29 Preparation for a practical lesson on "Management of a patient with acute abdominal pain and gastrointestinal bleeding" - Improving the interpretation of the digestive tract (EFGDS, colonoscopy) on the topic - Improving the interpretation of the digestive tract (EFGDS, colonoscopy) on the topic - Improving the method of determining blood type and transfusion of the digestive tract (EFGDS, colonoscopy) on the topic - Improving the method of determining blood type and transfusion of blood components and blood substitutes. Kn = -1.18 15 -30 Preparation for a practical lesson on "Management of a paratical lesson on of blood components and blood substitutes. Kn = -1.18 15 -31 Preparation for a practical lesson on "Management of a patient with acute arthitis and acute back pain." Kn = -1.18 15 -31 Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, activities of a patient with severe anemia and agranulocytosis, with purpura, activity of a patient with severe anemia and agranulocytosis, with purpura, active thrombosis" Kn = -1.18 15 -32 Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, active thrombosis" -1.15 15 -31 Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, active thrombosis" -1.18 16 -31 Preparation for a practical lesson on "Management of patients with shock". -1.18 17 -33 Preparation for a practical lesson on "Managemen | | | | transaminases electrolytes urea | | |
| 15 -29 Preparation for a practical lesson on "Management of a patient with acute abdominal pain and gastrointestinal bieding", - Improving the interpretation of the digestive tract (EFGDS, colonoscopy) on the topic, - Improving the interpretation of the results of biochemica blood tests (total blood protein and its fractions, serum transminases, total bilirubin and its fractions, serum transminases, total bilirubin and its fractions, addine phosphates, alpha-anylase, GGTP) Improving the interpretation of blood components and blood substitutes. Kn = 1-15 15 -30 Preparation for i practical lesson on "Management of a patient with acute arthritis and acute back pain" - Improving the interpretation of the results of alboratory research methods (indicators of immure status, HLA-B27, Jo-1, CFK). Kn = 1-15 15 -31 Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Preparation of the results of laboratory research methods (indicators of immure status, HLA-B27, Jo-1, CFK). Kn = 1-18 15 -31 Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Repetition of the results of laboratory research methods (indicators of immure status, HLA-B27, Jo-1, CFK). Kn = 1-18 15 -33 Preparation for a practical lesson on "Management of patients with shocks" - Preparation for a practical lesson on "Management of patients with shocks". - Improving the interpretation of the results of the coagulogram, pANCA, sANCA, CRP, D-Imree). Kn = 1-18 15 -33 Preparatio | | | | creatining glomerular filtration rate etc.) | | |
| IS - 20 Preparation for a patient with acute abdominal pain and gastrointestinal bleeding". Interpretation for a patient with acute abdominal pain and gastrointestinal bleeding". Interpretation for A patient with acute abdominal pain and gastrointestinal bleeding". Interpretation for A patient with acute abdominal pain and gastrointestinal bleeding". Interpretation for A patient with acute atbom for a patient with acute arrhitis and acute back pain" Interpretation for A patient with acute arrhitis and acute back pain" Interpretation for A patient with acute arrhitis and acute back pain" Interpretation for A patient with acute arrhitis and acute back pain" Interpretation for A patient with acute arrhitis and acute back pain" Interpretation for A patient with acute arrhitis and acute back pain" Interpretation for A patient with acute arrhitis and acute back pain" Interpretation for A patient with acute arrhitis and acute back pain" Interpretation for A patient with acute arrhitis and acute back pain" Interpretation of the presults of X-ray array acute thrombosis" Interpretation of the presults of X-ray array acute thrombosis". Interpretation of the presults of A patient with severe anemia and agranulocytosis, with purpura, acute thrombosis". Interpretation of the results of A patient with severe anemia and agranulocytosis, with purpura, acute thrombosis". Interpretation of the results of the coagulogram, pANCA, SANCA, CRP, D-dimer). INTerpretation of the results of the coagulogram, pANCA, SANCA, CRP, D-dimer). INTerpretation of the results of the coagulogram, PANCA, SANCA, CRP, D-dimer). INTerpretation of the results of apatient with acute arrhitis with coma". <t< th=""><th></th><th>15 -29</th><th>Preparation for a</th><th>Preparation for a practical lesson on</th><th>Kn –</th><th>-15</th></t<> | | 15 -29 | Preparation for a | Preparation for a practical lesson on | Kn – | -15 |
| 15 -30 Preparation for a practical lesson on "Management of a patient with acute addominal patient with acute ananylase, GGTP) - Improving the interpretation of the results of biochemical blood substitutes. Kn = 1-18 15 -30 Preparation for a practical lesson on "Management of a patient with acute arthritis and acute back pain" - Preparation for a practical lesson on "Management of a patient with acute arthritis and acute back pain" - Kn = 1-15 15 -31 Preparation for a practical lesson on "Management of a patient with acute arthritis and acute back pain" - Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Repetition of the method of transfusion of blood components and blood substitutes. Improving the interpretation of the results of the coagulogram. pANCA, sANCA, CRP. O-dimer), 15 -33 Preparation for a practical lesson on "Management of patients with shocks" - Preparation for a practical lesson on "Management of patients with coma" - No15 15 -33 Preparation for a practical lesson on "Management of patients with coma" - Preparation for a practical lesson on "Management of patients with coma". Improving the interpretation of the results of laboratory research methods (gene | | 10 -27 | practical lesson on | "Management of a patient with acute | $\Delta h = 1$ | -18 |
| 18-30 Preparation for a practical lesson on "Management of a patient with acute back pain" - Net preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Neparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Neparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Neparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Neparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Neparation for a practical lesson on "Management of patients with shock." - Neparation for a practical lesson on "Management of patients with shock." 15 -33 Preparation for a practical lesson on "Management of patients with coma" - Neparation for a practical lesson on "Management of patients with coma". - Neparation for a practical lesson on "Management of patients with coma". 15 -33 Preparation for a practical lesson on "Management of patients with coma". - Neparation for a practical lesson on "Management of pat | | | "Management of a | abdominal pain and gastrointestinal | C_{0} | 16 |
| 15 -30 Preparation for a practical lesson on Toriang the interpretation of the spine, cless and phases, total bilinty bin and its fractions, subal blood protein and its fractions, alkaline phosphatase, alpha-amylase, GGTP) Improving the interpretation of determining blood type and transfusion of blood components and blood substitutes. Kn = -15 18 -30 Preparation for a practical lesson on "Management of a patient with acute arthritis and acute back pain" Kn = -15 18 -31 Preparation for a practical lesson on "Management of a patient with acute arthritis and acute back pain" Kn = -15 18 -31 Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Preparation for ta practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Preparation for ta practical lesson on "Management of patients with severe anemia and agranulocytosis, whith purpura, acute thrombosis" - Preparation for a practical lesson on "Management of patients with shocks" Kn = -15 18 -33 Preparation for a practical lesson on marking of the congulogram, pANCA, sANCA, CRP, D-dimer). Kn = -15 18 -33 Preparation for a practical lesson on marking of the congulogram, pANCA, sANCA, CRP, D-dimer). Kn = -15 18 -33 | | | patient with acute | bleeding" Improving the interpretation of | | 1 1 2 |
| addominal pair and of gastroinestinal bleeding" Intervisition of the results of closubor, explored interpretation of the results of biochemical blood tests (total blood protein and its fractions, serum transminases, total bilirubin and its fractions, skikaline phosphatase, alpha-amylase, GGTP) Improving the method of determining blood type and transfusion of blood components and blood substitutes. Kn = -15 IS -30 Preparation for a practical lesson on practical lesson on attributing the interpretation of the results of the topic Improving the interpretation of the results of the topic Improving the interpretation of the results of laboratory research methods (indicators of immune status, HLA-B27, Jo-1, CPK). Kn = -15 IS -31 Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Repetition of the results of laboratory research methods (indicators of immune status, HLA-B27, Jo-1, CPK). IS -31 Preparation for a practical lesson on "Management of a patient with severe anemia and agranulocytosis, with purpura, acute thrombosis" - Repetition of the results of the cosponents and blood substitutes. Improving the interpretation of the results of the cosponent of the results of the cosponent of patients with shocks". - I-15 IS -32 Preparation for a practical lesson on "Management of patients with shocks". - Preparation for a practical lesson on "Management of patients with shocks". - I-15 IS -33 <td< th=""><th></th><th></th><th>abdominal pain and</th><th>the results of endoscopic examination of</th><th></th><th>1-10</th></td<> | | | abdominal pain and | the results of endoscopic examination of | | 1-10 |
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| IS -32Preparation for a practical lesson on "Management of patients with shocks"- Preparation for a practical lesson on "Management of patients interpretation of ECG and echocardiography on the topic.Kn - 1-15 Ab - 1-18 Co-1-16 AR - 1-18IS -33Preparation for a practical lesson on "Management of patients with coma"- Preparation for a practical lesson on "Management of patients "Management of patients with coma"Kn - 1-15 Ab - 1-18 Co-1-16 AR - 1-18IS -33Preparation for a practical lesson on "Management of patients with coma"- Preparation for a practical lesson on "Management of patients with coma" Improving the interpretation of the results of laboratory research methods (general blood test, blood glucose, glycated hemoglobin, ALT, AST, creatinine, GFR, total bilirubin with fractions, albumin, urea, LDH, electrolytes, coagulogram,AR - 1-18 | | | | CRP, D-dimer). | | |
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| with shocks"interpretation of ECG and echocardiography on the topic.AR - 1-18IS -33Preparation for a practical lesson on "Management of patients with coma"- Preparation for a practical lesson on "Management of patients with coma" Improving the interpretation of the results of laboratory research methods (general blood test, blood glucose, glycated hemoglobin, ALT, AST, creatinine, GFR, total bilirubin with fractions, albumin, urea, LDH, electrolytes, coagulogram,AR - 1-18 | | | "Management of patients | Improving the method of registration and | Co-1- | 16 |
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| 15 -55Preparation for a practical lesson on "Management of patients with coma"- Preparation for a practical lesson on "Management of patients of laboratory research methods (general blood test, blood glucose, glycated hemoglobin, ALT, AST, creatinine, GFR, total bilirubin with fractions, albumin, urea, LDH, electrolytes, coagulogram,Kn - 1-15 Ab - 1-18 Co-1-16 | | 10 22 | Duon queti - u f - u - | ecnocardiography on the topic. | V | 15 |
| Imagement of patientsImproving the interpretation of the resultsAb - 1-18"Management of patientsImproving the interpretation of the resultsCo-1-16with coma"of laboratory research methods (general blood test, blood glucose, glycated hemoglobin, ALT, AST, creatinine, GFR, total bilirubin with fractions, albumin, urea, LDH, electrolytes, coagulogram,AB - 1-18 | | 15 - 35 | preparation for a | - Preparation for a practical lesson on | Kn – I | -13 19 |
| with coma"of laboratory research methods (general blood test, blood glucose, glycated hemoglobin, ALT, AST, creatinine, GFR, total bilirubin with fractions, albumin, | | | "Management of nationts | Improving the interpretation of the results | AU - 1 | 16 |
| blood test, blood glucose, glycated hemoglobin, ALT, AST, creatinine, GFR, total bilirubin with fractions, albumin, urea, LDH, electrolytes, coagulogram, | | | with coma" | of laboratory research methods (general | AR _ | 1-18 |
| hemoglobin, ALT, AST, creatinine, GFR, total bilirubin with fractions, albumin, urea, LDH, electrolytes, coagulogram, | | | with coma | blood test blood glucose glycated | AIX - | 1.10 |
| total bilirubin with fractions, albumin, urea, LDH, electrolytes, coagulogram, | | | | hemoglobin ALT AST creatining GFR | | |
| urea, LDH, electrolytes, coagulogram, | | | | total bilirubin with fractions. albumin. | | |
| | 1 | | | urea, LDH, electrolytes, coagulogram, | | |

| | | blood ketone bodies TSH, T3, T4, ACTH, cortisol, aldosterone, arterial and venous blood gases and indicators of acid-base status of the blood). | | | | |
|---|--|---|--------------------------------------|-------------------------|--|--|
| IS -34 | Management of patients with writing of cards of patients on subjects of employment | Management of patients with writing of cards of patients on subjects of employment | Kn – 1 Ab – 1 Co–1-1 AR – 1 | -15 -18 16 -18 | | |
| IS -35 | Development of algorithms for emergency care | - Development of algorithms for emergency care | Kn – 1 Ab – 1 Co–1-1 AR – 1 | -15 -18 6 -18 | | |
| IS -36 | Preparation and report at clinical conferences of the department. Writing abstracts, articles in the chosen field with the participation of a supervisor. Preparation and report of the abstract / scientific report at the practical lesson. | Preparation and report at clinical conferences of the department Writing abstracts, articles in the chosen field with the participation of the supervisor Preparation and report of the abstract / scientific report at the practical lesson. | Kn – 1 Ab – 1 Co–1-1 AR – 1 | -15 -18 -6 -18 | | |
| / scientific report at the practical lesson. Types of classes according to the curriculum are: a) lectures, b) practical classes, c) independent work of students. Thematic plans of lectures, practical classes and independent work reveal the problematic issues of the relevant sections of internal medicine. In the lecture course didactic means are used as much as possible (multimedia presentations, slides, educational videos, demonstration of thematic patients). Lecture and practical stages of students' learning are composed mainly in such a way that lectures precede the relevant practical classes. Practical classes in internal medicine requires: - 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 a future specialist, an understanding of responsibility for the level of their training, its improvement during training and professional activities. To implement 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 in accordance with the standards of evidence-based medicine; - supervision of patients, which should be carried out by the student during the | | | | | | |

4) diagnosis;

5) appointment of treatment;

6) definition of primary and secondary prevention measures;

7) report on the results of 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 test tasks.

In practical classes, students are recommended to keep protocols (patient card), 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 an integral part of educational activities and is included in the ECTS (European Community Course Credit Transfer System) credits of each module and discipline as a whole. It includes:

• preparation for practical classes;

• implementation and defense of ISRS (International Classification for Primary Care) (report of the abstract in a practical lesson; report at clinical conferences of departments; writing theses, articles; review of scientific literature on topics);

• 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 15.0%.

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 preparation of students: test tasks, solving situational problems, conducting laboratory tests and evaluating their results, analysis and evaluation of instrumental research and parameters characterizing 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 the grade in the discipline, upon completion of the discipline, the curriculum provides a deadline for re-assembly.

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 supervision of patients with diseases on the topic of the lesson, students fill in the study history of diseases with diseases of the relevant topic. The need to write such a history is determined

by the assistant / associate professor (responsible for teaching and methodological work) on the basis of a weekly review of information on the availability of relevant patients in the departments.

Daily patient examination reports are provided to the associate professor / assistant for supervision. Associate professors / assistants ensure that each student receives the necessary competence in the following areas: questioning the patient, clinical examination, oral report, making diagnostic decisions and determining treatment tactics (critical thinking), filling out documentation.

8. Verification of learning outcomes

Current control

is carried out during training sessions and aims to check the assimilation of educational material by students.

The current control during classes should be based on test control, current survey, examination of the patient, filling out the patient's card and independent work, after which the student is given a comprehensive assessment. 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 set on a 4-point (national) scale.

| Learning | Code of | Method of | Enrollment criteria | |
|--------------|----------|-----------------------|--|-------------|
| outcome code | the type | verification of | | |
| | of | learning outcomes | | |
| | classes | | | |
| Kn – 1-15 | Prac-1- | test control, solving | 1. Knowledge of theoretical material ha | as |
| Ab – 1-19 | 33 | situational | significant errors, no homework, initial | test |
| Co-1-16 | Indep | problems, | control of knowledge is written less that | in |
| AR – 1-15 | Study - | questioning and | 60.0%, unsatisfactory examination of the | he |
| | 1-36 | clinical | patient (unsatisfactory assessment of pr | actical |
| | | examination of the | skills), the main test on the topic is write | tten on |
| | | patient, analysis | unsatisfactory assessment, the student i | nakes |
| | | and evaluation of | mistakes, that can lead to the death of t | he |
| | | the results of | patient - unsatisfactory; | |
| | | instrumental | 2. Knowledge of theoretical material ha | as |
| | | research and | errors, which, however, can not cause t | he |
| | | parameters that | death of the patient, the initial test cont | rol is |
| | | characterize the | written at 60.0-74.0%, a satisfactory gr | ade for |
| | | functions of the | practical skills, a test on the topic writte | en on a |
| | | human body, | satisfactory grade, the student makes m | istakes |
| | | determining the | that lead to a prolongation of the diagn | ostic |
| | | treatment tactics of | search, but do not threaten the patient's | life - |
| | | the patient, filling | satisfactory; | |
| | | the patient's card, | 3. Knowledge of theoretical material w | ithout |
| | | demonstration of | errors, corresponds to the program, the | ınıtıal |
| | | practical skills, | test control is written on 75,0-89,0%, th | ne |
| | | report on the | grade "good" for the performed practic | |
| | | performed | skills, the test on the studied topic is wi | ritten |
| | | independent study | on the grade "good", the student does n | ot |
| | | | make mistakes - good. | |
| | | | 4. Knowledge of theoretical material w | itnout |
| | | | errors, corresponds to the program, from | 111 1 1- |
| | | | basic disciplines excellent knowledge v | |
| | | | the student can use in therapy, the initia | ai test |
| | | | control is written on 90,0% and more, a | 411 |
| | | | estimation excellent for the executed | له م ال |
| | | | practical skills, control work on the stu | aied |

| | | | subject written o student does not examine the pati- examinations and individual, with excellent. | n the grade "excellent" make mistakes, is able ent, interpret the result d prescribe modern, a dosage of treatment - | , the to s of |
|----------------------------|--|---|--|--|---------------------|
| Final control | | | | | |
| General evaluation system | | Participation in the work during the semester (credit) on a 200-point scale | | | |
| Rating scales | | traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale | | | |
| Conditions of admission to | | The student attended all practical classes and received at least 120 | | | |
| the final control | | points for current performance | | | |
| 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 | | Maximal number of points - 200. Minimal number of points - 120 | |
| Other types of control | | 6th year students take the Licensing Exam "Step-2" and an objective structured practical (clinical) exam (OSCE I) | | | |

9. Course policy

The course is compulsory for students majoring in "222 Medicine". The student is obliged to fully master the knowledge, skills, practical skills and competencies in the discipline. The presence and activity of the student during the practical classes must be taken into account. The applicant of higher education has the right to an individual schedule of attending lectures. Debt settlement as a result of semester control is carried out under the control of the dean's office of the faculty in accordance with the schedule approved by the dean of the faculty. For high efficiency of the educational process the student is obliged to follow the following rules:

- attend practical classes according to the schedule
- obligatory in a dressing gown and removable shoes, with an identifier;
- must have a mask, gloves, stethoscope and tonometer;
- do not be late for class;
- follow the rules of internal regulations of the university;
- do not talk during classes;
- turn off your mobile phone;
- do not miss classes without good reason;
- timely and diligently perform tasks;
- do not write off and do not use plagiarism;
- be polite and friendly to classmates and teachers;
- be punctual and obligatory.

10. References

- 1. Adebajo A., Dunkley L. ABC of Rheumatology. 2018. 226 p.
- 2. Alan D., Jessica J., Joan T., Sharon Andrea. Rapid Review of Rheumatology and Musculoskeletal Disorders. 2014. 172 p.

- 3. Baker T., Nikolic G.Practical Cardiology An Approach to the Management of Problems in Cardiology. 2016. 405 p.
- 4. Bender J., Russell K., Rosenfeld L., Chaudry S. Oxford American Handbook of Cardiology (Oxford American Handbooks in Medicine) 2010. 706.
- 5. Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine. 2018. 5174 p.
- 6. Clunie G., Wilkinson N., Nikiphorou E., Jadon D., Oxford Handbook of Rheumatology. 2018. 832 p.
- 7. Feehally J. Comprehensive Clinical Nephrology. 2019. 1570 p.
- 8. Firestein G. S., Budd R. C., Gabriel S. E. Kelley and Firestein's Textbook of Rheumatology. 2017. 2441 p.
- 9. Mayo Clinic Cardiology : Board Review Questions and Answers. 2007. 328 p.
- 10. Navadia Chirag. Cardiology: Expert Consult Online and Print (Cardiology (Mosby)), Third Edition. 2009. 1970 p.
- 11. Schrier R. W. Manual of Nephrology. 2014. 453 p.
- 12. Hayes P.2016: Guidelines for preventive activities in general practice, 9th edition
- The Royal Australian College of General Practitioners, 173 p. Hoffman R., Edward J., Benz Jr. et al 2017 7th edition. Hematology. Basic principles and practice. ELSEVIER, 2650 p..
- 14. Lynn S. Bickley. I 2016: Bates' Guide to Physical Examination and History Taking, 10th Edition. 1010p.
- 15. Murtagh J., Rosenblatt J., Coleman J., Murtagh C. General Practice, 2019:7th edition, McGraw-Hill Education (Australia) Pty Ltd, 6541 p.
- 16. Wearne S. 2016: Clinical cases for general practice exams / Susan Wearne. Edition: 3rd ed. 374 p.

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

11. Equipment, logistics and software of the discipline / course

1) synopsis or extended plan of lectures

- 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.

Equipment:

- 1. Enzyme-linked immunosorbent assay (BioTek, USA)
- 2. ABPM-04 (daily blood pressure monitoring) (Meditech ltd., Hungary)

3. Daily monitor of blood pressure and electrocardiographic signals SDM 23 (LLC "X-Techno", Kyiv, Ukraine)

- 4. Sonost 2000 (diagnosis of osteoporosis by densitometric method) ("Osteosys", South Korea)
- 5. Pulse oximeter "NANOX exo". (MedLab, Germany)
- 6. Recorder of the daily electrocardiogram according to Holter B16600-12 (Heaco ltd.)
- 7. Electrocardiograph ELI 230 (Mortara, Milwaukee, USA)

8. Electrocardiograph "BIOMED" BE 300 (Shenzhen Comen Medical Instruments Co., Ltd., China)

- 9. Scanner ultrasonic diagnostic UGEO H60 (Samsung Medison Co., ltd.)
- 10. Patient monitor G3D (General Meditech, Inc.) (3 pcs.)
- 11. Syringe pump SN 50 F66 (SINO Medical-Device Technology Co., ltd.) (2 pcs.)
- 12. Video gastroscope EG27-i10 (Pentax)
- 13. Video colonoscope EC34-i10L (Pentax)

14. HOREV-2516 (washing and disinfection machine for 2 flexible endoscopes) (Kharkov, Ukraine)

15. Centrifuge laboratory SM-6MT with a rotor 6M 02 (ELMI ltd.)

16. Combined system "HELIK-scan-M" (LLC "AMA", Russia)

17. Power Heart AED G3 pro (automated external defibrillation) (Cardiac Science Corp., Bothell, USA)

12. Additional information

The student scientific circle of the department is present and each teacher prepares the student for participation in the scientific conference.

Practical classes are held on the clinical bases of the Department of Internal Medicine \mathbb{N}_{2} 1. link to the web page of the department:

https://new.meduniv.lviv.ua/kafedry/kafedra-vnutrishnoyi-medytsyny-

13. Appendices

List 1 (syndromes and symptoms)

- 1) anemic syndrome
- 2) anuria and oliguria
- 3) hypertension
- 4) arterial hypotension
- 5) chest pain
- 6) abdominal pain
- 7) pain in the extremities and back
- 8) vomiting
- 9) bronchoobstructive syndrome
- 10) effusion into the pleural cavity

11) fever 1

- 2) hemorrhagic syndrome
- 13) exanthema, enanthema
- 14) hepatomegaly and hepatolienal syndrome
- 15) headache
- 16) dysuria
- 17) dyspepsia
- 18) dysphagia
- 19) diarrhea
- 20) jaundice
- 21) shortness of breath
- 22) asphyxia
- 23) constipation
- 24) dizziness,
- 25) cardiomegaly
- 26) cough
- 27) hemoptysis
- 28) lymphadenopathy

- 29) edematous syndrome
- 30) polyuria
- 31) portal hypertension
- 32) disorders of heart rhythm and conduction
- 33) disorders of consciousness
- 34) itchy skin
- 35) urinary syndrome
- 36) dehydration syndrome
- 37) indigestion syndrome
- 38) stridor
- 39) joint syndrome
- 40) weight loss
- 41) cyanosis
- 42) gastrointestinal bleeding

List 2 (diseases)

List 2 (diseases)

I. Diseases of the blood and blood-forming organs, disorders involving the immune

- mechanism:
- 1) anemia
- 2) hemolytic disease
- 3) hemophilia
- 4) leukemia
- 5) lymphoma
- 6) congenital (Bruton's disease, Viscot-Aldridge syndrome) and acquired immunodeficiency states
- 7) idiopathic thrombocytopenic purpura
- 8) chronic radiation injuries

IV. Diseases of the cardiovascular system:

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

V. Respiratory and mediastinal diseases:

- 1) asphyxia
- 2) bronchial asthma
- 3) bronchitis
- 4) bronchiectasis
- 5) bronchopulmonary dysplasia
- 6) congenital malformations of the respiratory system

- 7) respiratory failure
- 8) infectious and destructive lung diseases
- 9) pulmonary insufficiency
- 10) mediastinitis
- 11) cystic fibrosis
- 12) neoplasms of the lungs and mediastinum
- 13) pleurisy
- 14) pneumoconiosis
- 15) pneumonia
- 16) pneumothorax
- 17) respiratory distress syndrome
- 18) a foreign body in the respiratory tract
- 19) chest injuries (superficial, open)
- 20) chronic obstructive pulmonary disease

VI. Digestive diseases:

- 1) peptic ulcer disease
- 2) gastroesophageal reflux disease, esophagitis
- 3) gastritis, duodenitis
- 4) acute and chronic hepatitis
- 5) acute intestinal obstruction
- 6) acute and chronic appendicitis
- 7) acute and chronic pancreatitis
- 8) benign diseases of the esophagus

9) enteritis, colitis

- 10) neoplasms of the esophagus, stomach, colon, liver and pancreas
- 11) peptic ulcers of the stomach and duodenum
- 12) peritonitis
- 13) perforation of the hollow organ
- 14) liver failure
- 15) malabsorption syndrome
- 16) stenosis of the pylorus of the stomach
- 17) functional gastrointestinal disorders
- 18) diseases of the operated stomach
- 19) cholecystitis, cholangitis, gallstone disease, choledocholithiasis
- 20) cirrhosis of the liver
- 21) gastrointestinal bleeding

VII. Diseases of the genitourinary system:

- 1) renal amyloidosis
- 2) congenital malformations of the urinary system
- 3) glomerulonephritis
- 4) dysmetabolic nephropathy
- 5) nephrotic syndrome
- 6) neoplasms of the kidney, urinary tract and prostate
- 7) pyelonephritis
- 8) urolithiasis
- 9) tubulointerstitial nephritis
- 10) urethritis
- 11) chronic kidney disease
- 12) cystitis

IX. Diseases of the musculoskeletal system and connective tissue:

- 1) ankylosing spondylitis
- 2) congenital and acquired malformations of the musculoskeletal system
- 3) acute rheumatic fever
- 4) dermatomyositis and polymyositis

- 5) neoplasms of the musculoskeletal system 6) osteoarthritis
- 7) osteomyelitis
- 8) gout 9) reactive arthritis
- 10) rheumatoid arthritis
- 11) systemic scleroderma
- 12) systemic lupus erythematosus
- 13) systemic vasculitis (nodular polyarteritis, hemorrhagic vasculitis, hypersensitive vasculitis)
- 14) damage to large joints (hip, knee, ankle, elbow)
- 15) chronic rheumatic disease
- 16) juvenile rheumatoid arthritis

X. Diseases of the endocrine system, eating disorders and metabolic disorders:

17) obesity

List 3 (emergencies):

- 1) hypertensive crisis
- 2) acute respiratory failure
- 3) acute urinary retention
- 4) acute kidney damage
- 5) acute liver failure
- 6) acute heart failure
- 7) acute coronary syndrome
- 8) acute bleeding
- 9) cardiac arrest
- 10) collapse
- 11) disturbance of consciousness and coma
- 12) renal colic
- 13) biliary colic
- 14) acute anaphylactic reactions
- 15) acute cardiac arrhythmias,
- 16) shocks

List 4 (laboratory and instrumental research):

- 1) analysis of pleural fluid
- 2) analysis of ascitic fluid
- 3) analysis of synovial fluid
- 4) urine analysis according to Zymnytsky
- 5) analysis of urine by Nechiporenko
- 6) activity of alpha-amylase in blood and urine, fecal elastase-1
- 7) blood proteins and their fractions, C-reactive protein
- 8) blood glucose, glycosylated hemoglobin,
- 9) oral glucose tolerance test
- 10) lipids and lipoproteins of blood and their fractions
- 11) blood hormones
- 12) serum ferritin, iron and copper
- 13) creatinine, urea, blood and urine, glomerular filtration rate
- 14) blood electrolytes
- 15) blood aminotransferases
- 16) total blood bilirubin and its fractions
- 17) coagulogram
- 18) blood uric acid
- 19) alkaline blood phosphatase
- 20) histomorphological examination of lymph node biopsy
- 21) histomorphological examination of the biopsy of parenchymal organs
- 22) histomorphological examination of the biopsy of mucous membranes
- 23) histomorphological examination of muscle and skin biopsy

24) study of the function of external respiration

25) standard ECG (in 12 leads)

26) endoscopic examination of the bronchi

27) endoscopic examination of the digestive tract

28) echocardiography and Doppler

29) general analysis of feces

30) general blood test

31) general analysis of urine

32) general analysis of cerebrospinal fluid

33) general analysis of sternal punctate

34) general analysis of sputum

35) general immunological profile of blood

36) serological reactions in infectious diseases

37) rapid tests for viral diseases

38) amplification methods for infectious diseases (PCR, LLR)

39) serological reactions in autoimmune diseases

40) microbiological study of biological fluids and secretions

41) methods of instrumental visualization of the thyroid gland

42) X-ray contrast angiography

43) methods of instrumental visualization of abdominal organs

44) methods of instrumental visualization of the thoracic cavity

45) methods of instrumental visualization of the genitourinary system

46) methods of instrumental visualization of the skull, spine, spinal cord, bones and joints

47) multi-moment fractional study of bile and pH-metry of the stomach and esophagus

List 5 (medical manipulations):

1) perform indirect heart massage

- 2) perform artificial respiration
- 3) perform defibrillation using a manual automatic defibrillator-cardioverter

4) to register a standard ECG in 12 leads

5) to temporarily stop external bleeding

6) apply bandages, including in the field

7) install a nasogastric and orogastric tube

8) to carry out transport immobilization

9) to carry out administration of medicinal substances (intravenous jet and drip, intraosseous)

10) provide peripheral venous access

11) measure blood pressure

12) to restore airway patency

13) perform catheterization of the bladder with a soft probe

14) carry out finger examination of a rectum

15) carry out a clinical examination of the mammary glands

16) perform a pleural puncture

17) determine blood groups, rhesus affiliation

18) transfuse blood components and blood substitutes

19) taking smears for bacterioscopic, bacteriological and cytological examinations

LIST OF QUESTIONS FOR TRAINING STUDENTS OF VIKURS FROM THE DISCIPLINE "INTERNAL MEDICINE"

1. Management of a patient with hypertension: existing algorithms and standards of diagnosis and treatment.

2. Management of a patient with hypotension and fainting: existing algorithms for diagnosis and treatment.

3. Management of a patient with cardialgia: existing algorithms for diagnosis and treatment.

4. Management of a patient with cardiac arrhythmia: existing algorithms and standards of diagnosis and treatment.

5. Management of a patient with cardiac conduction disorders: existing algorithms and standards of diagnosis and treatment.

6. Management of a patient with stable angina: existing algorithms and standards of diagnosis and treatment.

7. Management of a patient with painless myocardial ischemia: existing algorithms and standards of diagnosis and treatment.

8. Management of a patient with unstable angina: existing algorithms and standards of diagnosis and treatment.

9. Management of a patient with shortness of breath: existing algorithms and standards of diagnosis and treatment

10. Management of a patient with cardiomegaly: existing algorithms and standards of diagnosis and treatment.

11. Management of a patient with cyanosis: existing algorithms and standards of diagnosis and treatment.

12. Management of a patient with heart failure: existing algorithms and standards of diagnosis and treatment.

13. Management of a patient with heart murmurs: existing algorithms and standards of diagnosis and treatment.

14. Management of a patient with pain in the extremities and back: existing algorithms and standards of diagnosis and treatment.

15. Management of a patient with arthralgias / myalgias: existing algorithms and standards of diagnosis and treatment.

16. Management of a patient with joint syndrome: existing algorithms and standards of diagnosis and treatment.

17. Management of a patient with hemorrhagic syndrome: existing algorithms and standards of diagnosis and treatment.

18. Management of a patient with orthosis: existing algorithms and standards of diagnosis and treatment.

19. Management of a patient with gastric dyspepsia: existing algorithms and standards of diagnosis and treatment.

20. Management of a patient with dysphagia: existing algorithms and standards of diagnosis and treatment.

21. Management of a patient with heartburn: existing algorithms and standards of diagnosis and treatment.

22. Management of a patient with abdominal pain: existing algorithms and standards of diagnosis and treatment.

23. Management of a patient with chronic diarrheal syndrome: existing algorithms and standards of diagnosis and treatment.

24. Management of a patient with constipation: existing algorithms and standards of diagnosis and treatment.

25. Management of a patient with jaundice: existing algorithms and standards of diagnosis and treatment. Management of a patient with ascites: existing algorithms and standards of diagnosis and treatment.

26. Management of a patient with hepatomegaly and hepatolienal syndrome: existing algorithms and standards of diagnosis and treatment.

27. Management of a patient with portal hypertension: existing algorithms and standards of diagnosis and treatment.

28. Management of a patient with hepatic encephalopathy: existing algorithms and standards of diagnosis and treatment.

29. Management of a patient with bronchoobstructive syndrome: existing algorithms and standards of diagnosis and treatment.

30. Management of a patient with chronic cough: existing algorithms and standards of diagnosis and treatment.

31. Management of a patient with infiltrative darkening in the lungs: existing algorithms and standards of diagnosis and treatment.

32. Management of a patient with fever of uncertain genesis: existing algorithms and standards of diagnosis and treatment.

33. Management of a patient with hemoptysis: existing algorithms and standards of diagnosis and treatment.

34. Management of a patient with asthma and asphyxia: existing algorithms and standards of diagnosis and treatment.

35. Management of a patient with pleural effusion: existing algorithms and standards of diagnosis and treatment.

36. Management of a patient with respiratory failure: existing algorithms and standards of diagnosis and treatment.

37. Management of a patient with community-acquired pneumonia: existing algorithms and standards of diagnosis and treatment.

38. Management of a patient with nosocomial pneumonia: existing algorithms and standards of diagnosis and treatment.

39. Management of a patient with lung abscess: existing algorithms and standards of diagnosis and treatment.

40. Management of a patient with urinary syndrome: existing algorithms and standards of diagnosis and treatment.

41. Management of a patient with edema syndrome: existing algorithms and standards of diagnosis and treatment.

42. Management of a patient with chronic renal failure: existing algorithms and standards of diagnosis and treatment.

43. Management of a patient with nephrotic syndrome: existing algorithms and standards of diagnosis and treatment.

44. Management of a patient with anemia: existing algorithms and standards of diagnosis and treatment.

45. Management of a patient with leukemoid reaction and leukemia: existing algorithms and standards of diagnosis and treatment.

46. Management of a patient with polycythemia: existing algorithms and standards of diagnosis and treatment.

47. Management of a patient with purpura: existing algorithms and standards of diagnosis and treatment.

48. Management of a patient with lymphadenopathy: existing algorithms and condition

49. Treatment of diseases of internal organs according to the current protocols approved by the Ministry of Health of Ukraine.

50. Curation of a patient with a complicated hypertensive crisis. Existing standards of diagnosis and emergency treatment at the pre-hospital and hospital stage.

51. Curation of a patient with cardiac asthma and pulmonary edema. Existing standards of diagnosis and emergency treatment at the pre-hospital and hospital stage.

52. Curation of a patient with acute coronary syndrome. Existing standards of diagnosis and emergency treatment at the pre-hospital and hospital stage.

53. Curation of a patient with myocardial infarction. Existing standards of urgent diagnostics and emergency treatment at the pre-hospital and hospital stage.

54. Curation of a patient with cardiogenic shock. Existing standards of urgent diagnostics and emergency treatment at the pre-hospital and hospital stage.

55. Curation of a patient with pulmonary embolism. Existing standards of urgent diagnostics and emergency treatment at the pre-hospital and hospital stage.

56. Tactics of treatment for sudden cardiac death. Existing standards of urgent diagnostics and emergency treatment at the pre-hospital and hospital stage.

57. Curation of a patient with paroxysmal arrhythmias and conduction. Existing standards of urgent diagnostics and emergency treatment at the pre-hospital and hospital stage.

58. Curation of a patient with acute reactive arthritis. Existing standards of urgent diagnostics and emergency treatment at the pre-hospital and hospital stage.

59. Curation of a patient with thrombocytopenic purpura. Existing standards of urgent diagnostics and emergency treatment at the pre-hospital and hospital stage.

60. Curation of a patient with acute back pain. Existing standards of diagnosis and treatment.

61. Curation of a patient with severe community-acquired and nosocomial pneumonia. Existing standards of diagnosis and emergency treatment.

62. Curation of a patient with total pleural effusion and pneumothorax. Existing standards of diagnosis and treatment.

63. Curation of a patient with asthmatic status. Existing standards of diagnosis and treatment. 64. Curation of a patient with anaphylactic shock and Quincke's edema. Existing standards of diagnosis and treatment.

65. Curation of a patient with acute liver failure. Existing standards of diagnosis and treatment.66. Curation of a patient with acute abdominal pain. Existing standards of diagnosis and management of patients.

67. Curation of a patient with gastrointestinal bleeding. Existing standards of diagnosis and management of patients.

68. Curation of a patient with severe anemia. Existing standards of diagnosis and management of patients.

69. Curation of a patient with agranulocytosis. Existing standards of diagnosis and management of patients.

70. Curation of a patient with purpura. Existing standards of diagnosis and treatment.

71. Curation of a patient with acute thrombosis. Existing standards of diagnosis and management of patients.

72. Curation of a patient with acute renal failure. Existing standards of diagnosis and management of patients.

LIST OF PRACTICAL SKILLS AND SKILLS FROM THE DISCIPLINE "INTERNAL MEDICINE"

1. Conduct surveys and physical examinations of patients with major cardiac syndromes. Be able to evaluate the results of the examination of the cardiovascular system.

2. Make the plan of inspection of patients with heart diseases, to substantiate application of the basic invasive and noninvasive diagnostic methods applied in cardiology, to define indications and contraindications for their carrying out, possible complications.

3. Identify different variants of the course and complications of heart disease.

4. Carry out differential diagnosis, substantiate and formulate the diagnosis of major cardiac

syndromes on the basis of analysis of laboratory and instrumental examination data.

5. Prescribe treatment, determine the prognosis, conduct primary and secondary prevention of heart disease.

6. Record and interpret the ECG in 12 leads. Know the method of ECG recording.

7. Measure and interpret blood pressure in the upper and lower extremities

8. Be able to interpret the conclusion of the Echo-CG.

9. Be able to interpret Holter monitoring.

10. Be able to interpret the results of drug tests and tests with exercise

11. Be able to interpret the results of a comprehensive biochemical study of patients with cardiovascular disease. 1

2. Be able to interpret the indicators of the troponin test.

13. Be able to interpret the results of lipidogram and coagulogram.

14. Diagnose and provide assistance in case of fainting. 1

5. Diagnose and provide assistance in hypertensive crisis. 1

6. Diagnose and provide care for hypotension.

17. Diagnose and provide care for paroxysmal heart rhythm disorders

18. Diagnose and care for Morgan-Edems-Stokes syndrome.

19. Carry out pulmonary and cardiac resuscitation.

20. Conduct surveys and physical examinations of patients with major rheumatic syndromes. Be able to evaluate the results of the examination of the musculoskeletal system.

21. Justify the use of basic invasive and non-invasive diagnostic methods used in rheumatology, identify indications and contraindications for their implementation, possible complications.

22. Identify different variants of the course and complications of rheumatic diseases.

23. Make a plan of examination of patients with rheumatic diseases.

24. To make the differential diagnosis, to substantiate and formulate the diagnosis at the basic rheumatological syndromes on the basis of the analysis of data of laboratory and instrumental inspection.

25. Prescribe treatment, determine the prognosis, conduct primary and secondary prevention of rheumatic diseases.

26. Be able to interpret laboratory parameters in rheumatic diseases (rheumatic tests, autoimmune markers, etc.).

27. Be able to interpret X-ray examination of joints, spine.

28. Be able to interpret the data of echocardiographic examination and radiological examination of joints and spine.

29. Conduct surveys and physical examinations of patients with major gastrointestinal syndromes. Be able to evaluate the results of the examination of the gastrointestinal tract.

30. Be able to interpret the results of esophagogastroduodenoscopy, duodenal and gastric sounding.

31. Be able to interpret the results of pH metry.

32. Be able to interpret the results of X-ray examination of the digestive system.

33. Be able to interpret the results of scans and ultrasound of the liver, gallbladder, pancreas.

34. Be able to interpret the results of enzyme-linked immunosorbent assay for viral hepatitis.

35. Be able to interpret the indicators of biochemical liver tests.

36. Know the technique of bowel cleansing.

37. Be able to perform a puncture of the abdominal cavity

38. Be able to interpret the results of computed tomography and magnetic resonance imaging of internal organs.

39. To make the plan of inspection of patients with the basic gastroenterological syndromes.40. To substantiate the use of invasive and non-invasive diagnostic methods used in

gastroenterology, to determine the indications and contraindications for their implementation, possible complications.

41. To make a differential diagnosis, to substantiate and formulate the diagnosis at the basic gastroenterological syndromes on the basis of the analysis of results of laboratory and instrumental inspection.

42. Identify the main options for the course and complications of diseases of the digestive tract, hepatobiliary system and pancreas.

43. Prescribe treatment, determine the prognosis, carry out primary and secondary prevention of diseases of the digestive tract, hepatobiliary system and pancreas.

44. Conduct surveys and physical examinations of patients with major pulmonary syndromes. Be able to evaluate the results of respiratory examination.

45. Be able to interpret X-ray examination of the thoracic cavity.

46. Be able to interpret the indicators of the function of external respiration.

47. Be able to perform a puncture of the pleura.

48. To make the plan of inspection of patients with the basic pulmonological syndromes.

49. Justify the use of basic invasive and non-invasive diagnostic methods used in pulmonology,

identify indications and contraindications for their implementation, possible complications. 50. On the basis of the analysis of data of laboratory and instrumental inspection to carry out differential diagnosis of the basic pulmonological syndromes, to substantiate and formulate the diagnosis at the basic diseases of respiratory organs.

51. Prescribe treatment, determine the prognosis and carry out primary and secondary prevention of major respiratory diseases.

52. Diagnose and provide care for respiratory failure.

53. Know the indications for pleural puncture.

54. Perform peak flowmetry.

55. Conduct surveys and focused physical examination of patients with major nephrological syndromes. Be able to evaluate the results of the examination of the urinary system

56. To be able to interpret indicators of biochemical research of a functional condition of kidneys 57. Be able to interpret the indicators of general analysis of urine, samples Zymnytsky, Nechiporenko, Reberg.

58. Know the basic invasive and non-invasive diagnostic methods used in nephrology, indications and contraindications for their implementation, possible complications.

59. Identify the main and atypical variants of the course and complications of diseases of the urinary system.

60. Make a plan of examination of patients with major nephrological syndromes. 61. On the basis of the analysis of data of laboratory and instrumental inspection to carry out differential diagnostics, to substantiate and formulate the diagnosis at diseases of urinary system.

62. Prescribe treatment, determine the prognosis, conduct primary and secondary prevention of diseases of the genitourinary system.

63. Diagnose and provide care for renal failure.

64. Conduct surveys and physical examinations of patients with major hematological syndromes.

65. To be able to interpret indicators of the general analysis of blood.

66. Be able to determine blood type and rhesus factor.

67. Justify the use of basic invasive and non-invasive diagnostic methods used in hematology, indications and contraindications for their implementation, possible complications.

68. Identify typical and atypical clinical picture of major diseases of the blood and blood-forming organs.

69. Make a plan of examination of patients with major hematological diseases. 70. On the basis of the analysis of data of laboratory and instrumental inspection to carry out the differential diagnosis, to substantiate and formulate the diagnosis at the basic diseases of blood and hematopoietic organs.

71. Prescribe treatment, determine the prognosis, carry out primary and secondary prevention of major diseases of the blood and blood-forming organs. 72. Diagnose and provide assistance with bleeding due to diseases of the blood and blood-forming organs.

73. Be able to perform subcutaneous intramuscular and intravenous injections. 74. Be able to transfuse blood components and blood substitutes.

75. Know the technique of bloodletting.

76. Demonstrate mastery of moral and deontological principles of a medical specialist and the principles of professional subordination.

77. To determine the level of examination and treatment of patients with urgent cardiac conditions in the hospital.

78. Apply in practice algorithms for examination and management of patients with urgent cardiac conditions in the hospital.

79. Carry out in practice the differential diagnosis of the main syndromes that occur in the clinic of emergency cardiac conditions.

80. Master the methods of treatment of urgent cardiac conditions, the effectiveness of which is proven by evidence-based medicine. Cardiac defibrillation technique.

81. Apply in practice the standards of diagnosis and treatment of cardiac patients in the clinic of emergency conditions.

82. Determine the level of examination and treatment of patients with urgent rheumatic conditions in the hospital.

83. Apply in practice the algorithms of examination and management of patients with urgent rheumatic conditions in the hospital.

84. Carry out in practice the differential diagnosis of the main syndromes that occur in the clinic of urgent rheumatic conditions.

85. Master the methods of treatment of urgent rheumatic conditions, the effectiveness of which is proven by evidence-based medicine.

86. Apply in practice the standards of diagnosis and treatment of rheumatic patients in the clinic of emergencies.

87. To determine the level of examination and treatment of patients with urgent pulmonological and allergological conditions in the hospital.

88. Apply in practice algorithms for examination and management of patients with urgent pulmonological and allergological conditions in the hospital.

89. Carry out in practice the differential diagnosis of the main syndromes found in the clinic of urgent pulmonological and allergological conditions.

90. Master the methods of treatment of urgent pulmonological and allergic conditions, the effectiveness of which is proven by evidence-based medicine

91. Be able to perform allergy tests before the introduction of drugs

92. Apply in practice the standards of diagnosis and treatment of patients in the clinic of pulmonology and allergy emergencies

93. To determine the level of examination and treatment of patients with urgent gastroenterological conditions in the hospital.

94. Apply in practice algorithms for examination and management of patients with urgent gastroenterological conditions in the hospital.

95. Carry out in practice the differential diagnosis of the main syndromes that occur in the clinic of urgent gastrointestinal conditions.

96. Master the methods of treatment of urgent gastroenterological conditions, the effectiveness of which is proven by evidence-based medicine

97. Apply in practice the standards of diagnosis and treatment of patients in the clinic of gastroenterological emergencies.

98. To determine the level of examination and treatment of patients with urgent hematological conditions in the hospital.

99. Apply in practice algorithms for examination and management of patients with urgent hematological conditions in the hospital.

100. Carry out in practice the differential diagnosis of the main syndromes that occur in the clinic of urgent hematological conditions.

101. Master the methods of treatment of urgent hematological conditions, the effectiveness of which is proven by evidence-based medicine.

102. Apply in practice the standards of diagnosis and treatment of patients in the clinic of hematological emergencies.

103. Determine the level of examination and treatment of patients with urgent nephrological conditions in the hospital. 1

04. Apply in practice algorithms for examination and management of patients with urgent nephrological conditions in the hospital.

105. Carry out in practice the differential diagnosis of the main syndromes that occur in the clinic of urgent nephrological conditions.

106. Master the methods of treatment of urgent nephrological conditions, the effectiveness of which is proven by evidence-based medicine.

107. Apply in practice the standards of diagnosis and treatment of patients in the clinic of nephrological emergencies.

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Information resources

- 1. <u>https://www.aasld.org/</u>
- 2. <u>https://www.diabetes.org</u>
- 3. <u>http://www.eagen.org/</u>
- 4. <u>http://www.ers-education.org/guidelines.aspx</u>
- 5. <u>http://www.esmo.org/Guidelines/Haematological-Malignancies</u>
- 6. <u>https://ehaweb.org/organization/committees/swg-unit/scientific-working-</u>

groups/structure-and-guidelines/

- 7. <u>http://www.gastro.org/guidelines</u>
- 8. <u>www.ginasthma.org</u>

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