

ANNOTATIONS OF ELECTIVE COURSE PROGRAMS

2nd year (3-4 semesters)

Each student is required to earn 5 credits (ECTS) during the year.

Department of Physics and Computer Science "Nanotechnology in medicine»

Total volume 1credit

The course program includes such issues as new and latest methods of prevention, diagnosis and treatment of diseases of patients, which include nanotechnology, laser therapy, radiation diagnostics, etc. In addition, during the course, students will get acquainted with the main medical devices and devices, their classification, study issues related to ionizing radiation and their dosimetry in medicine.

Department of the Kyrgyz Language «Speech culture»

Total volume 1credit

Formation of speech culture in teaching the Kyrgyz language, logically consistent speech, vocabulary enrichment, grammatically literate writing, training in proper office work, orientation to the deepening of knowledge obtained in the specialty

Department of Medical Biology "Tropical Parasitology»

Total volume 1credit

Parasitic diseases are one of the most common human diseases. At the same time, the large migration of the population to different parts of the world, the presence of transit hosts of parasites and vectors suggest the need for additional knowledge of tropical parasitology. Within the framework of this course, the morphology, features of the development cycles, distribution of parasites of the tropical climate, their pathogenic effects and measures to protect human health from pathogens and vectors of diseases will be studied.

Department of Normal Anatomy "Blood supply and innervation of the anterior part of the face"

Total volume 1credit

The purpose of this elective course is to develop a general understanding of the blood supply, innervation and lymphatic outflow of the anterior part of the face (eye sockets, nasal cavity, oral cavity), which is clinically important in a number of medical specialties, namely, in dermatology and cosmetology. In particular, knowing the dangerous areas where the branches of the nerves and large vessels pass will help the cosmetologist safely carry out any injection techniques for facial rejuvenation or plastic surgery

Department of Histology "Modern problems of regeneration"

Total volume 1credit

The elective course "Modern problems of regeneration" is designed for students of the 2nd year of the Faculty of Medicine and is devoted to the study of the structural foundations of the regeneration processes occurring in the body, and the mechanisms of their regulation, which are addressed to the solution of medical problems. In clinical practice, it is often necessary to affect the regeneration processes of various tissues and organs. The impact on these processes requires a careful approach and a deep understanding of the main patterns of the regenerative process. In recent years, due to the advances in molecular biology, the understanding of the mechanisms of regulation of reparative

processes has changed significantly. In light of this, knowledge of the structural foundations of regeneration is becoming an essential element of medical education, and the elective course is designed to provide this knowledge.

Department of Biochemistry and General Inorganic Chemistry
"The role of biogenic elements in the human body»

Total volume 1credit

Formation of the students' system of natural science knowledge about the chemical and biological properties of biogenic elements, the presence and transformation of which form the molecular basis of the vital activity of the body.

Department of Fundamental and Clinical Physiology
"Participation of the autonomic nervous system in the regulation of functional systems of the body»

Total volume 1credit

The subject of the elective course is devoted to the key problem of physiology-the study of the mechanisms of vegetative regulation of various body systems. For the first time, students will get acquainted with the characteristics and methods of assessing the functional state of the autonomous nervous system. In practical classes, students will conduct various tests (clinorhastatic and Martinet tests), calculate the Kerdo index, trigger the Danini-Aschner reflexes, and the Cermak-Goering sinocarotid test to assess the state of the ANS.

Department of Pathological Physiology
"Pathophysiology of adaptation syndrome and stress»

Total volume 1credit

This course will study the most non-specific general mobilization response of the body to any stimulus that threatens homeostasis really, potentially, or even just is unexpected. The causes of adaptation syndrome and stress, as well as the body's anti-stress mechanisms, and the principles of stress correction will be discussed in detail.

Department of Pathological Anatomy
"Pathological anatomy of prenatal and perinatal diseases periods»

Total volume 1credit

The purpose of the elective course of pathological anatomy of diseases of the prenatal and perinatal periods is to study the structural foundations of these diseases, their etiology, pathogenesis and morphogenesis for the use of the acquired knowledge in training at clinical departments for the training of a general practitioner.

3rd YEAR (5-6 SEMESTER)

Each student is required to earn 10 credits (ECTS) during the year.)

Department of General Hygiene
"Psychohygiene»

Total volume 1credit

The purpose of the course is to gain knowledge, skills and abilities to improve the stability of mental health and resistance to various harmful factors of the external environment and prevention of the development of initial forms of mental illness and their relapses in patients. The course program will address issues such as: Key factors the risk of developing neuropsychiatric diseases and abnormalities. The role of rational nutrition in maintaining mental health. Psychohygiene of children and adolescents. The mental state of the individual. Social psychology of the individual. Social psychology of groups. Psychology of abnormal development. Questions of psychohygienic education.

Department of Fundamental and Clinical Physiology
"Mechanisms of human adaptation to environmental conditions"

Total volume 1credit

Within the framework of the elective course, the mechanisms of human adaptation to various environmental conditions are considered, namely, to the factors of high mountains, physical exertion, and temperature shifts. Taking into account that 90% of the territory of Kyrgyzstan is occupied by mountains, considerable attention is paid to the study of the influence of high-altitude factors on the body.

Department of Pathological Physiology
"Pathophysiology of drug addiction and substance abuse»

Total volume 1credit

Drug addiction-occupies one of the most important places among the modern "diseases of civilization". This course will address the etiology and pathophysiology of drug addiction and substance abuse; the general mechanisms of action of drugs and psychoactive substances on the nervous system; the stages of drug addiction and substance abuse, as well as the principles of their prevention and therapy.

Department of Biochemistry and General Inorganic Chemistry
"Biochemical aspects of carcinogenesis"

Total volume 1credit

The purpose of this elective course is to expand and systematize students' knowledge about the biochemical foundations of carcinogenesis and its consequences. The following issues will be considered:

- Sources and ways of spreading carcinogenic factors in everyday life (bad habits smoking), at work, in the environment
- Factors that contribute to carcinogenesis (physical, chemical, biological, or oncoviruses).
- Major chemical carcinogens.
- Mechanisms and markers of carcinogenesis.
- Critical stages of the development of carcinogenesis.
- Features of the metabolism of tumor cells

Department of Pathological Physiology
"Pathophysiology of drug addiction and substance abuse»

Total volume 1redit

Drug addiction-occupies one of the most important places among the modern "diseases of civilization". Within the framework of this course, questions of the etiology and pathophysiology of drug addiction and substance abuse will be considered; general mechanisms of action of narcotic drugs and drugs and psychoactive substances on the nervous system; the stages of drug addiction and substance abuse, as well as the principles of their prevention and therapy.

Department of Medical Biology
"The genetic system of the human body and its changes under the influence of the external environment»

Total volume 1credit

Currently, more than two thousand hereditary human diseases are known, the main causes of which are a variety of mutations. The proposed elective course program provides for expanding knowledge about the features of the human genetic system, mutations of various nature,

mechanisms of developmental disorders, and the role of environmental factors in the development of certain anomalies.

Department of Propaedeutics of Children's Diseases

"The main elements of the development of preschool children in connection with their anatomical - physiological features"

Total volume 1credit

All children are different from birth and they also develop differently and this affects how they will learn. The anatomical and physiological characteristics of a child and their upbringing affect their development. The experience acquired by a child during the first years of life, under certain conditions of upbringing, plays a decisive role in what he will become in the future. The purpose of the course: to teach students the skills of observing and evaluating the development of a child, as well as methods of learning the world, using mother's counseling, observation, recommendations for age groups, identifying and solving problems of child development.

Department of Propedsurgery

"Fundamentals of specific surgical infections"

Total volume 1credit

The aim of the course is to teach students the theoretical foundations and practical skills on the main specific surgical infections in children.

Department of Urology

"Methods of examination of an andrological patient»

Total volume 1credit

Andrology covers all diseases of the genitals in men at any age. This includes congenital and genetically determined developmental abnormalities, inflammatory diseases of the male genital organs, which are widespread among young and middle-aged people who are most able-bodied and active in public life. Diseases of the male genitals lead to a decrease in copulatory and reproductive function, require complex diagnostic methods and targeted treatment

Department of Fundamental and Clinical Physiology

"Hemodynamic parameters and physiological mechanisms of regulation of regional blood circulation – coronary, pulmonary, cerebral, renal, portal»

Total volume 1credit

The elective course provides an in-depth study of the features of regional blood circulation. For the first time, students will be introduced not only to the general morphofunctional patterns of blood supply to various organs, but also to regional features of blood flow and vascular tone. The acquired knowledge will contribute to the deep assimilation of the development of pathological processes of regional blood circulation, which is important for the future activities of the doctor.

Department of Propaedeutics of Internal Diseases

"Pituitary dysfunction Syndrome»

Total volume 1credit

Recently, the work of the "general practitioner" is increasingly common with patients with pituitary dysfunction syndrome, with slowly developing clinical manifestations that are often perceived by the doctor as "age-related" changes or separate symptoms of somatic diseases. At the same time, untimely recognition of this pathology leads to damage to the target organs and dangerous complications. Taking into account the above, this elective course program has been developed for future general practitioners in order to form competencies for the diagnosis of basic clinical and laboratory-instrumental signs of "pituitary dysfunction syndrome".

Department of Biochemistry and General Inorganic Chemistry
"The role of antioxidants in metabolic disorders in the human body"

Total volume 1credit

This elective course will allow the student to understand the essence of the processes of free radical oxidation in normal and pathological conditions and to open the "door" to the world of antioxidants, which is important for the future specialist of the general practitioner, since all the main physiological processes in the human body in normal and pathological conditions occur with the participation of free radicals.

Department of Microbiology, Immunology and Virology
"Microbiological diagnostics of nosocomial infections»

Total volume 1credit

The program is aimed at studying the types of microbes, transmission routes, and factors contributing to the spread of nosocomial infections (NI). Microbiological significance of microorganisms in the objects of the hospital environment (in water, air, food) in the development of NI. As a result of the training, students will learn the rules for the collection, storage and transportation of clinical material in various locations of NI.

Department of "General and Clinical Epidemiology»
"Infection control»

Total volume 1credit

Infections associated with the provision of medical care are an urgent problem for practical health care, reducing the quality of medical care and increasing the social burden of diseases. At the same time, a large proportion of nosocomial infections are associated with invasive diagnostic and therapeutic procedures. Future specialists in practical health care should know the basic measures for the prevention of infections associated with the provision of medical care.

Department of Neurology
"Rare hemispheric syndromes"

Total volume 1credit

Within the framework of this elective course, the symptoms and syndromes of damage to various parts of the cerebral cortex of the large hemispheres of the brain that do not included in the main program of the subject "Neurology" in the module "Nervous system". The issues of differential diagnosis of cortical irritation and prolapse syndromes, the clinical significance of the asymmetry of the major hemispheres in neurology, as well as the clinical study of higher brain functions will be studied in detail.

Department of Public Health and Healthcare
"Medical Geography»

Total volume 1credit

Study of the influence of natural, economic and social conditions of various territories on the health of the population.

Department of Basic Pharmacology
"Features of pharmacokinetics and pharmacodynamics of medicinal products in children»

Total volume 1credit

The purpose of the Elective Course is to teach students the specifics of the use and impact of medicines in children.

4th YEAR (7-8 SEMESTER)

Each student is required to earn 10 credits (ECTS) during the year.

Department of Propaedeutics of Internal Diseases "Thyroid and pregnancy"

Total volume 1credit

Within the framework of this elective course, the issues of basic approaches to solving the problems of thyroid diseases in pregnant women according to disciplinary tasks, including the usual treatment regimens for uncomplicated cases, will be considered.

Department of Neurology "Emergency conditions in neurology»

Total volume 1credit

The elective course program details the diagnosis, differential diagnosis, treatment and emergency care for metabolic, toxic, autoimmune diseases of the nervous system, as well as lesions of the autonomic and peripheral nervous systems.

Department of Hospital Pediatrics "Actual problems of pediatric pulmonology»

Total volume 1credit

The organization of medical care for children with bronchopulmonary pathology is one of the most important sections of children's health care. The elective course is designed to deepen and supplement the main body of students' knowledge of pediatric pulmonology in terms of differential diagnosis, tactics of the syndromic approach to diagnosis verification and management of children with bronchopulmonary pathology against the background of premorbid conditions.

Department of Faculty Therapy "Modern methods of diagnosis, treatment and prevention of dyslipidemia"

Total volume 1credit

Within the framework of this elective course, students will study the classification of dyslipidemia, methods of their non-drug and drug treatment, prevention of cardiovascular diseases (CVD), the concept and diagnostic methods criteria for familial hypercholesterolemia, learn to determine the overall risk of CVD, interpret laboratory indicators of dyslipidemia.

Department of Obstetrics and Gynecology "Management of pregnancy and childbirth in rare extragenital diseases»

Total volume 1credit

The proposed EC implies the expansion of practical knowledge and skills in 4th-year students with rare extragenital diseases that may occur in practice. The need for the proposed elective is due to the fact that these conditions can occur under the guise of other urgent conditions, as well as threaten the life and health of the mother and child and, accordingly, require urgent medical measures.

Department of Radiation Diagnostics "Practical basics of ultrasound diagnostics

Total volume 1credit

The provided elective course is devoted to the in-depth study and application of ultrasound diagnostics in various areas of medicine. The analysis of frequently occurring ultrasound examinations with the use of doppler mode in gastroenterology, uronephrology, angiology, and endocrinology. It is mandatory to cover ultrasound normal anatomy in various age categories and in pathology. Practical training on ultrasound devices is provided.

Department of Hospital Surgery
"Operative mediastinal surgery»

Total volume 1credit

Damage to the sternum can lead to compression of vital organs located in it (heart, intrapericardial divisions of large vessels, bifurcation of the trachea, main bronchi, pulmonary arteries and veins, lymph nodes, esophagus, etc.).

The purpose of the elective course is to give an idea of surgical approaches in diseases of the mediastinal organs, as well as about therapeutic and diagnostic measures that are used in this section of surgery.

Department of Faculty Surgery
"Fundamentals of laparoscopic technologies in surgery»

Total volume 1credit

The course provides for the development of new theoretical knowledge and practical skills by the student and covers the types of specialized assistance in the basics of laparoscopy. Practical classes include:

- stitching of fabrics under the control of the endovideocamera;
- intracorporeal knot tying;
- extracorporeal knot tying;
- performing laparoscopic (macropreparation of cattle) visual diagnostics and biopsy;
- performing laparoscopic (macropreparation of cattle) appendectomy and cholecystectomy.

Department of Neurosurgery
"Emergency conditions in neurosurgery»

Total volume 1credit

The program provides for the study of emergency neurosurgical pathologies. During the course, students are introduced to the diagnosis and treatment of the most urgent diseases and injuries of the central and peripheral nervous system that require surgical treatment. The greatest attention is paid to such diseases as intracranial hematomas of various origins, trauma of the central nervous system, tumors of the central nervous system, vascular pathology of the nervous system (aneurysms, arteriovenous malformations, etc.).

Department of Dermatovenereology
"Fundamentals of Dermatocosmetology»

Total volume 1credit

The elective course opens up the world of medical dermatocosmetology for the student. The program deals with the physiology of skin aging, correction and prevention of various morpho-functional disorders of the skin, prevention of premature aging of the body. You will also get acquainted with the main laser technologies used in dermatology, with the main schemes of care for various skin types.

Department of General Hygiene
"Valeology»

Total volume 1credit

The purpose of the discipline is to provide students with knowledge, skills and abilities for the formation, preservation and promotion of health by studying and using the laws of health formation and developing ways to model and achieve a healthy lifestyle.

The program provides for the study of the basics of a healthy lifestyle, environmental factors of its components, natural and anthropogenic aspects.

Department of Ophthalmology
"Age-related physiology and pathology of the visual organ»

Total volume 1credit

Knowledge of ophthalmological methods of examination of the visual organ will make it possible to prevent complications associated with a decrease in visual functions in a timely manner. During the practical classes, students will receive information on the general semiotics of diseases of the visual organ, learn basic practical techniques, treatment of the retina in diseases such as hypertension, atherosclerosis, central nervous system damage.

Department of Neurosurgery
"Modern methods of diagnosis and treatment in neurosurgery"

Total volume 1credit

Within the framework of this elective course, modern approaches to the diagnosis of the most common neurosurgical nosologies will be considered (MRI – MR angiography, cisternography, myelography, spectroscopy, tractography; CT – with 3D reconstruction, with bolus angiography; PET), the use of tactical, modern equipment in the treatment of intervertebral hernias (microdiscectomy, endoscopic removal of disc hernias), CNS oncological diseases (neuroendoscopy, radiosurgery), vascular diseases of the brain (endovascular surgery) and many other pathologies.

Department of ENT Diseases
"Urgent conditions in otorhinolaryngology»

Total volume 1credit

The program provides for the study of theoretical and practical skills and abilities to diagnose and provide timely, urgent care to patients with various conditions in otorhinolaryngology such as: injuries, foreign bodies of ENT organs, nosebleeds, laryngeal stenosis of various origins, chemical burns of the pharynx and esophagus, paratonsillary abscesses and abscesses of other etiologies, etc.).

Special attention will be paid to working out the main techniques and methods of emergency care for otorhinolaryngological patients, namely, working with dummies (anterior and posterior nasal tamponade, tracheotomy techniques, etc.), visual aids.

Department of General and Clinical Epidemiology
"Modern problems of Immunoprophylaxis»

Total volume 1credit

Immunization of the population plays an important role in the prevention of infectious diseases, what is indisputably proved by its results. During the period of formation and development immunoprophylaxis new technologies for obtaining vaccines have been developed, schemes and methods of administration have been improved. Knowledge of the basics of organizing vaccinations and new directions in the development and production of immunobiological drugs are needed for future public health professionals.

Department of Faculty Surgery
"Fundamentals of liver Transplantation»

Total volume 1credit

The main goal of this course in liver transplantation is to increase the level of students' knowledge of the most important sections of liver transplantation. Training in this elective course will allow students to acquire more extensive and in-depth knowledge, get acquainted with the latest technologies and methods of liver transplantation.

Department of Hospital Surgery
"Features of the application of intestinal sutures in complicated forms of acute surgical diseases of the abdominal cavity"

Total volume 1credit

Quite often in abdominal surgery, such operations as resections of the small and large intestines are performed. At the same time, to restore the patency of the gastrointestinal tract, it is necessary to form an inter-intestinal anastomosis. Failure to comply with the principles of abdominal surgery, in particular-the requirements for intestinal sutures, leads to very serious consequences. Under these conditions, the problem of proper intestinal suture application becomes relevant for senior students of the faculty of "General Medicine".

Department of Hospital Therapy
"Microcrystalline arthritis"

Total volume 1credit

The relevance of this elective is that today the number of patients with metabolic disorders is growing, which accordingly leads to an increase in metabolic diseases. For GP doctors, this is relevant because it goes underdiagnosis or association of these diseases under gout, although individual microcrystalline arthritis has a specific diagnosis, treatment and management.

The lecture course presents the most relevant and complex issues in terms of identifying rare metabolic disorders, in particular pyrophosphate and hydroxyapatite arthropathies. The practical classes will focus on the analysis of the pathogenesis of certain forms of salt metabolism disorders. An important point in the training is to compare the clinical manifestations of diseases at all stages of their development, which will allow students to instill the skills of clinical analysis and diagnostic signs.

6th YEAR (11-12 SEMESTER)
Each student is required to earn 14 credits during the year

Department of Faculty Pediatrics
"Basic cardiopulmonary resuscitation in children"

Total volume 1credit

Elective course is based on the new recommendations for providing emergency and resuscitation care to the children of the Kyrgyz Republic and is based on the latest effective practices of international evidence-based medicine. The course provides for the formation of knowledge, skills and practical skills in providing emergency care to children with cardiopulmonary failure.

Department of Hospital Pediatrics
"Children's Allergy"

Total volume 1credit

Allergic diseases in children in modern conditions are becoming increasingly important. The general practitioner is experiencing difficulties in the diagnosis and management of children with these diseases due to the lack of information support and basic knowledge of children's allergy. The purpose of the elective course "Children's Allergy" is to deepen and supplement the basic knowledge of this section of pediatrics with an emphasis on practical issues of diagnosis and management of allergic diseases in children.

Department of Hospital Pediatrics
"Arterial hypertension in children"

Total volume 1credit

Treatment and especially prevention of arterial hypertension in children are currently at a very low level. As a rule, arterial hypertension is diagnosed already in people of working age, when

complications form and regular medication is required, and preventive measures are insufficient. It should be noted that the prevention and treatment of arterial hypertension in childhood can prevent the transformation of arterial hypertension into ischemic and hypertensive diseases, which are the main cause of disability and mortality in the adult population.

Department of Pediatric Surgery
"Purulent-inflammatory diseases of the skin and subcutaneous fat in children.
Outpatient care"

Total volume 1credit

Purulent-inflammatory diseases of the skin, subcutaneous fat and bone tissue in children older than 3 years in the structure of surgical pathology occupy a leading place and have their own pronounced features, because anatomical and physiological the peculiarities of the structure of the skin, subcutaneous fat and bone tissue, and the peculiarities of blood supply and age-related reactivity in children over 3 years of age determine the specificity of the course of inflammatory processes in this age group with a predominance of necrotic changes over inflammatory ones. At the same time, purulent-inflammatory diseases of the skin, subcutaneous fat and bone tissue in children older than 3 years can be accompanied by serious complications, which often end in death. All of the above determines the relevance of these diseases and the need to include them in the program of preparation of GP.

Department of Phthisiology
"Differential diagnosis of disseminated and infiltrative processes in the lungs"

Total volume 1credit

Knowledge of the main criteria for differential diagnosis between disseminated and infiltrative processes in the lungs of various etiologies, will increase the level of knowledge and skills that allow the general practitioner to freely navigate in the detection of tuberculosis at the primary level of health care.

Department of Faculty Therapy
"Electrocardiography"

Total volume 2 credits

The method of electrocardiography is indispensable for the diagnosis of rhythm and conduction disorders, coronary heart disease and other pathology often observed in clinical practice. Being widely in demand, it is successfully used not only in cardiology, but also in other areas: pulmonology, endocrinology, nephrology, etc. The purpose of teaching the elective course is to teach students the skills of taking electrocardiograms, analyzing the obtained curves and providing competent medical care if necessary.

Department of Obstetrics and Gynecology
"Prolonged and obstructive labor"

Total volume 1credit

Prolonged and obstructive labor is closely associated with known adverse outcomes for both the mother and the fetus. Within the framework of this elective course, the issues of diagnosis, emergency measures, treatment and prevention of complications in prolonged childbirth will be considered.

Department of Children's Infectious Diseases
"HIV and the child"

Total volume 1credit

As part of this elective course, students will receive basic information about HIV infection, how it occurs in children, and what medical professionals at the primary level of medical care should know about the management of HIV infection in children.

Department of Public Health and Healthcare
"Health Economics"

Total volume 1credit

A graduate of a medical university should have an economic mindset, he should be able to consider his professional medical activity taking into account the economic significance of the medical and recreational activities carried out by him.

Department of Forensic Medicine
"Features of forensic medical examination in extreme cases"

Total volume 1credit

Within the framework of this elective course, the features of forensic medical examination in cases of mass death of people; in cases of causing bodily harm; as well as in cases of self-harm, simulation, aggravation and de – aggravation are studied.

The practical classes will cover the specifics of examining the scene of the accident and sorting the corpses for further identification of the individual, establishing the cause and mechanism of death.

Department of Public Health and Healthcare
"Health Economics"

Total volume 1credit

A graduate of a medical university should have an economic mindset, he should be able to consider his professional medical activity taking into account the economic significance of the medical and recreational activities carried out by him.

Department of Clinical Rehabilitation
"Therapeutic classical massage"

Total volume 1credit

The program is designed for the initial study of massage. Within the framework of this course, all types and techniques of massage, the hygienic basics of massage, the mechanism of the therapeutic effect of massage on the body will be considered, recommendations for massage of various parts of the body will be given.

Department of Children's Infectious Diseases
"Children's infectious diseases in adults"

Total volume 1credit

Within the framework of the elective course, the issues of early diagnosis of so-called childhood infectious diseases in adults and the tactics of managing this category of patients in outpatient settings will be considered.

Department of Traumatology
"Static disorders of the human musculoskeletal system"

Total volume 1credit

The program of this elective course deals with the most common static disorders of the musculoskeletal system of the system. Students are expected to actively participate in the preparation of plaster dressings, making splints and applying them to the limbs of patients.

Department of General Practice Surgery

"Endoscopic surgery in a polyclinic"

Total volume 1credit

As part of this elective course, students will gain the knowledge and practical skills necessary for conducting FGDS, as well as its use for therapeutic purposes. Get acquainted with the technique of EPST (Endoscopic apillosphincterotomy) as a minimally invasive method of treatment in an outpatient setting. Classes will be conducted in the training rooms of the department and diagnostic rooms of the department of functional diagnostics (under the guidance of a teacher).

Department of Family Medicine of Pre-graduate training

"Treatment of seriously ill and dying patients in the practice of a family doctor in the conditions of a home hospital"

Total volume of 1credit

The program of this elective course is devoted to the main medical problems that arise in seriously ill and dying patients with diseases such as end-stage heart, kidney, lung, liver failure, tuberculosis, HIV-AIDS, after a stroke, dementia, Alzheimer's disease and the provision of medical care for these conditions. The article deals with the organization of a hospital at home, the main methods of treatment and care for patients, the solution of medical, moral and ethical problems in the practice of a family doctor.

Department of Nervous Diseases

"Medical rehabilitation for neurological diseases"

Total volume 1credit

The elective course will study the basic principles and methods of rehabilitation in neurology, as well as the basics of rehabilitation therapy for major diseases of the central and peripheral nervous system (vascular, traumatic, metabolic, infectious and inflammatory).

Department of Hospital Pediatrics

"Differential diagnosis of juvenile arthritis"

Total volume 1credit

In recent decades, there has been a significant increase in the incidence of children with rheumatic diseases, including juvenile arthritis, in all countries of the world. Chronic juvenile arthritis leads to a lag in physical and sexual development, to psychosocial trauma, as well as to the rapid development of disability in children. Timely diagnosis and early adequate therapy will help to avoid or reduce these adverse outcomes of rheumatic diseases.

Department of Infectious Diseases

"Testing and counseling for HIV infection"

Total volume 1credit

The elective course provides additional knowledge on testing issues, development of practical skills in conducting pre-test and post-test counseling for HIV infection, which are necessary in the professional activity of a GP. The article also discusses measures for the detection of HIV-infected people, patients' adherence to antiretroviral therapy (ART), issues of pre- and post-exposure prophylaxis, palliative care for HIV-infected people.

Department of Psychiatry

"Algorithm for providing emergency care for acute mental and mental illnesses narcological conditions "

Total volume 1credit

As part of this elective course, students will gain special knowledge and skills to cope with situations that require emergency therapeutic interventions. Knowledge and skills in providing

emergency psychiatric care are necessary for doctors of all specialties, since these conditions are quite common both in outpatient patients and among hospital patients.

Department of Propaedeutics of Internal Diseases
"Constipation, problems. Differentiated therapy of constipation"

Total volume 1credit

Constipation (obstipation) is an important medical and social problem that is often faced by practitioners: internists, general practitioners-family medicine, gastroenterologists. The quality of life of patients suffering from chronic constipation is comparable to the quality of life of patients with diabetes, hypertension and depression. Practical doctors often do not know modern methods of examination, find it difficult in the tactics of treatment with chronic constipation. This elective course is designed to provide modern assistance to the general practitioner. It is important to timely recognize the basic clinical and laboratory-instrumental signs of constipation

Department of Faculty Pediatrics
"Emergency nephrology in pediatrics"

Total labor intensity 1credit

A clinician of any specialty is faced with urgent nephrological conditions that can rapidly lead to life-threatening complications, which is especially common in pediatrics. Clinical manifestations of a sharp deterioration in renal function are often not noticeable, so special attention is paid to the analysis of the dynamics of laboratory parameters with a detailed description of the markers. Features of kidney disease often become decisive when choosing management tactics. Regardless of the etiological and pathogenetic nature, the general principles of treatment are justified in all cases.

Department of Public Health and Healthcare
"Marketing in healthcare"

Total volume 1credit

Marketing in healthcare is a social and managerial process aimed at meeting the needs and needs of the population in medical care, through the creation, supply and exchange of valuable medical and pharmaceutical services and goods on the market. The goal of medical marketing is to attract new patients by constantly meeting their changing demands for medical products and services.

Department of Public Health and Healthcare
"Social Gerontology"

Total volume 1credit

This elective course deals with issues closely related to the lifestyle of older people, health promotion, longevity, the organization of medical care, as well as ethical and legal issues related to the protection and guarantee of the rights of the elderly and old people.

Department of Family Medicine of Pre-graduate training
"Differential diagnosis of diseases occurring with skin lesions and mucous membranes in the practice of a general practitioner"

Total volume 1credit

This elective course aims to provide the student with additional competencies for the differential diagnosis of diseases of the internal organs and the endocrine system that occur with lesions of the skin and mucous membranes, necessary for the work of a general practitioner, but not provided for by the topics of the main program.

