



JSC Astana Medical University

Application for elective disciplines
 Educational program: 6B10107 - General Medicine
 Level of education Internship
 2022-2023 academic year
 7-course - 5 credits (MD)



№	a module / discipline	module component	cycle of discipline	Course Description	prerequisites	postrequisites	the department participating in the module	the number of credits (hours)	amount of hours			course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department
									practice	independent work of student with the teacher (20%)	independent work of students (50%)			
1	Topical issues of outpatient care for newborn children	Modern aspects of physiology and pathology of a newborn baby	MD	Studying and mastering the skills of organizing and implementing medical care for newborn children in accordance with the standard of pediatric outpatient care, mastering the methods of providing medical care to newborn children.	Childhood diseases	Residency disciplines	Department of Children's diseases with courses of pulmonology and nephrology	5 (150)	20	10	30	7 course (General Practice)	Department of Children's diseases with courses of pulmonology and nephrology	Muldakhmetov M.S.
		30							15	45				
2	Antenatal care and management of pregnancy with pathology of organs and systems	Intrauterine growth retardation (IUGR)	MD	Rise factors for IUGR. Etiology. Antenatal diagnosis. Ultrasound in the diagnosis of fetal malformations. Inheritance.	Fundamentals of obstetrics and gynecology, fundamentals of internal diseases, fundamentals of general medical practice	Disciplines of residency	Department of obstetrics and gynecology №1	2(60)	20	10	30	7 course (General Practice)	Department of obstetrics and gynecology №1	Khamidullina Z.G.
		Extragenital pathology		Features of pregnancy, delivery and postpartum in women with extragenital pathology. Clinical examination of pregnant women with extragenital pathology. Contraindications to pregnancy.					3(90)	30	15			
3	Differential diagnostic algorithms in clinical medicine	Algorithms for the diagnosis and treatment of infectious and non-infectious dermatoses	MD	Diagnostic criteria and treatment of infectious and non-infectious dermatoses and diseases of the urinary tract, which are the most common in the work of a general practitioner, are being studied	Pathology of organs and systems, basics of general medical practice	Residency disciplines	Department of dermatovenereology and dermatocosmetology	5 (150)	30	15	45	7 course (General Practice)	Department of dermatovenereology and dermatocosmetology	MD, prof. Batpenova G.R.
		Clinical aspects of urinary tract diseases							Departments of Urology and Andrology	20	10			
4	Pediatric emergency surgery with the basics of topographic anatomy	Features of topographic anatomy of childhood.	MD	The module contributes to the formation of clinical thinking, knowledge and skills in the diagnosis and treatment of surgical diseases of childhood in emergency conditions. Attention is paid also features of topographic anatomy of childhood.	General surgery, fundamentals of pediatrics, pediatric surgery in general practice	Residency disciplines of Pediatric Surgery, General Surgery, Thoracic Surgery, Traumatology and Orthopedics, Urology.	Department of Human Anatomy	1(30)	10	5	15	7 course (General Practice)	Department of Pediatric Surgery	V. Lozovoy
		Department of Pediatric Surgery					4(120)	40	20	60				

5	Principles of Rational Use of Medicines.		MD	This discipline heads students' knowledge of the role of the proper use of medicines in order to increase the efficiency of their use and includes key issues, the main strategies to improve the use of medicines, planning measures to ensure the rational use of medicines.	Pharmacology	disciplines of residency and magistracy	Department of Clinical Pharmacology	5 (150)	50	25	75	7 course (General Practice)	Department of Clinical Pharmacology	Ahmadyar N.S.
6	Emergency conditions in the pathology of ENT organs and the organ of vision	Emergency conditions in the pathology of the ENT organs	MD	Emergency conditions in the pathology of the nose, pharynx, larynx and ear requiring emergency surgery. Emergency conditions in different of the organ of vision requiring emergency surgery, injuries of the organ of vision	Pathology of organs and systems, the basics of general medical practice	Residency disciplines	ENT department	5 (150)	30	15	45	7 course (General Practice)	ENT Department	Tulebaev R.K.
		Department of Eye Diseases					20		10	30				
7	Topical issues of surgical infections in the work of the GP	Issues of infectious surgery in the work of the GP	MD	This module allows you to effectively master current knowledge on the clinic, diagnosis and treatment of purulent-surgical diseases in the practice of GP. Knowledge of all the mechanisms of development of staphylococcal, streptococcal and other purulent-septic, wound-anaerobic infections and the body's immune response to them gives a practitioner of any level of health care to freely navigate in the diagnosis and treatment of purulent-surgical diseases.	Medical microbiology, general immunology, pathology of organs and systems, general surgery, fundamentals of surgical diseases, fundamentals of surgical diseases in the work of GP, outpatient surgery	residency and master's degree disciplines	Department of Surgical Diseases, Bariatric Surgery and Neurosurgery	5 (150)	20	10	30	7 course (General Practice)	Department of Microbiology and Virology named after Sh.I. Sarbasova	Dusmagambetov M.U.
		Department of Microbiology and Virology named after Sh.I. Sarbasova					30		15	45				
8	Clinical microbiology and topical issues of immunopathology	Clinical microbiology and virology	MD	The main objectives of the module is to study topical issues of leading immunopathology and allergic diseases encountered in the work of a general practitioner with an introduction to clinical microbiology. Also, an important role in the development of immunopathology is played by microbial sensitization of the body and the knowledge and understanding of the practitioner of all mechanisms of the body's immune response to pathogenic and opportunistic microorganisms.	Medical microbiology, general immunology, immunology, medical biochemistry, normal physiology, pathology of organs and systems, basics of infectious diseases, general medical practice-1	residency and master's degree disciplines	Department of Microbiology and Virology named after Sh.I. Sarbasova	5 (150)	30	15	45	7 course (General Practice)	Department of Microbiology and Virology named after Sh.I. Sarbasova	Dusmagambetov M.U.
		Department of Internal diseases with courses in Nephrology, Hematology, Allergology and Immunology					20		10	30				
9	Issues of modern treatment of breast cancer	Reconstructive and organ-preserving operations for breast cancer	MD	The module "Issues of modern treatment of breast cancer" studies the principles of reconstructive and organ-preserving operations for breast cancer, and modern methods of treatment, depending on the molecular subtype of breast cancer. Particular attention is paid to the basics of surgical interventions, taking into account modern trends, aspects of plastic surgery. The module describes various options for organ-preserving surgical interventions for breast cancer, analyzes data on the molecular and biological characteristics of breast cancer subtypes.	Internal diseases in GP practice, surgical diseases in GP practice, oncology, pharmacology	Residency disciplines	Department of Oncology	5 (150)	20	10	30	7 course (General Practice)	Department of Oncology	Makishev A.K.
		Modern methods of treatment depending on the molecular subtype of breast cancer							30	15	45			

10	Modern personalized approach to cancer drug therapy	Principles of immunotherapy	MD	The module "Modern personalized approach to cancer drug therapy" studies the principles of immunotherapy, bisphosphonate therapy and hormone therapy in oncology, the principle of personalized therapy with NK and dendritic cells. Fundamentals of CAR-T therapy.	Internal diseases in GP practice, surgical diseases in GP practice, oncology, pharmacology	Residency disciplines	Department of Oncology	5 (150)	30	15	45	7 course (General Practice)	Department of Oncology	Makishev A.K.
		Principles of chemotherapy and targeted therapy in oncology												
11	Issues of rehabilitation and palliative care in oncology	Fundamentals of Palliative Oncology	MD	The module "Issues of rehabilitation and palliative care in oncology" studies the principles of rehabilitation of oncological patients after surgical, drug treatment and radiation therapy. Fundamentals of palliative care for cancer patients. Principles of treatment of chronic pain syndrome.	Internal diseases in GP practice, surgical diseases in GP practice, oncology, pharmacology	Residency disciplines	Department of Oncology	5 (150)	30	15	45	7 course (General Practice)	Department of Oncology	Makishev A.K.
		Oncorehabilitation												
12	Current trends in the diagnosis and treatment of head and neck tumors	Clinical picture, diagnosis and treatment of head and neck tumors	MD	The objective of the discipline is to study the etiology, pathogenesis, clinical manifestations of benign and malignant tumors of the head and neck. Acquisition of knowledge on diagnostics, differential diagnostics, modern approaches in the treatment and prevention of malignant tumors of the head and neck and late complications. Study of the principles of rehabilitation of patients with head and neck tumors.	Internal diseases in GP practice, surgical diseases in GP practice, oncology, pharmacology	Residency disciplines	Department of Oncology	5 (150)	30	15	45	7 course (General Practice)	Department of Oncology	Makishev A.K.
		Possibilities of reconstructive surgery in the complex treatment of head and neck tumors												
13	Sports nutrition		MD	the issues of sports nutrition are considered, which will allow achieving the main goal of the athlete - improving sports results.	Anatomy, physiology, biochemistry.	Residency disciplines		3(90)	30	15	45	7 course (General Practice)	Preventive medicine and nutrition	Dalenov E.D.
14	Diagnosis of addictive risk factors in children and adolescents.		MD	teenagers health and processes of monitoring of their development. Questions concerning pathologic forms of behavior specific for teenagers - chemical and nonchemical dependences, delinquency and deviation behavior, suicidal and self-damaging behavior will be considered.	general medical practice	Disciplines of residency	Department of Psychiatry and narcology	2(60)	20	10	30	7 course (General Practice)	Department of Psychiatry and narcology	Ракишева А.С.
15	Medical and social expertise based on ICF		MD	Determination of temporary disability based on the assessment of health status, nature and working conditions, social factors. Conducting medical and social expertise.	Anatomy. Physiology. General hygiene. Fundamentals of general medical practice	Residency disciplines	The department of rehabilitation and sports medicine	3(90)	30	15	45	7 course (General Practice)	The department of rehabilitation and sports medicine	Slivkina N.V.
16	Current issues of the work of a general practitioner in PHC	Clinical diagnostic and differential diagnostic criteria for allergic diseases	MD	During the study of the module, the most common allergic diseases encountered by a general practitioner on an outpatient appointment, diagnostic aspects, differential diagnosis, treatment based on the principles of evidence-based medicine will be considered.	Fundamentals of General Medical Practice	Residency disciplines	Department of Family Medicine № 3	2(60)	20	10	30	7 course (General Practice)	Department of Family Medicine № 3	S. Urazova
		Modern methods of treatment of allergic diseases												

17	Differential diagnosis of gastroenterological diseases in GP practice	Differential diagnosis of pain syndrome in diseases of the gastrointestinal tract	MD	During the study of the module, diagnostic criteria for common diseases of the gastrointestinal tract, which the general practitioner faces on an outpatient basis, will be considered.	Fundamentals of General Medical Practice	Residency disciplines	Department of Family Medicine № 3	2(60)	20	10	30	7 course (General Practice)	Department of Family Medicine № 3	S. Urazova
		Clinical diagnostic and differential diagnostic criteria for gastrointestinal diseases in GP practice						3(90)	30	15	45			
18	Examination of medical incidents		MD	Comprehension of versatile medical activity in legal terms on specific examples of forensic medical examinations on "medical cases". To train to assess and anticipate the legal consequences of an event related to the provision of medical care, which may harm the life and health of the patient, as well as lead to his death. To teach to identify possible legal ways to prevent professional offenses.	Fundamentals of Forensic Medicine, Medical law	Residency disciplines	The department of forensic medicine	5 (150)	50	25	75	7 course (General Practice)	The department of forensic medicine	V.Ossipov
19	Basics of geriatrics	Physiology of aging	MD	The increase in life expectancy and the ageing of the population is a worldwide demographic trend that is also observed in our country. Topical is the study of pathophysiological aspects of human ageing, features of the current, diagnosis and pharmacotherapy of diseases of internal organs in elderly and old people.	General medical practice I, Internal diseases at the level PHC	Residency disciplines	Department of Normal Physiology	2(60)	20	10	30	7 course (General Practice)	Department of Internal medicine with a course of geriatrics	Tkachev V.A.
		Clinical geriatrics					Department of Internal Diseases with Geriatrics course	3(90)	30	15	45			
20	Vaccination and antibiotic resistance in pediatric infectious practice.		MD	physiology, general pathophysiology, general pharmacology, general medical practice -1, infectious diseases, including childhood, childhood infectious diseases in GP practice.	Pathological anatomy, Physiology, General pathophysiology, Medical microbiology, General pharmacology, General medical practice № 1, infectious diseases, including children's, Children's infectious diseases in the practice of GP.	Residency and Master's courses	Department of childhood Infectious Diseases	5(150)	50	25	75	7 course (General Practice)	Department of childhood Infectious Diseases	Baesheva D.A.

21	Issues of prevention and rational therapy of children's infectious diseases.	Selected issues in pediatric infectious practice	MD	This module allows you to effectively master knowledge on the rational use of antibacterial drugs, antibiotic resistance in pediatric infectious practice according to the WHO recommendation. With an emphasis on the issues of vaccination, PIIC and microbiological diagnostics. With an emphasis on the issues of vaccination, PIIC and microbiological diagnostics.	General pathophysiology, Medical microbiology, General pharmacology, General medical practice -1, Infectious diseases, including childhood, Childhood infectious diseases in GP practice.	Residency and Master's courses	Department of childhood Infectious Diseases. Department of Microbiology and Virology named after S.I. Sarbasova	5(150)	30	15	45	7 course (General Practice)	Department of childhood Infectious Diseases	Baesheva D.A.
		IMicrobiological diagnosis of childhood infections and antibiotic resistance.							20	10	30			
22	Ambulatory proctology		MD	The course will present modern methods of diagnostics of coloproctological patients, including laboratory, instrumental methods of examination technics. Students will study modern approaches to the treatment of diseases such as hemorrhoids, paraproctitis, anal fissures, etc.	Anatomy, Physiology. Pathological Physiology, General Surgery. Essential of surgical diseases. Essential of general medical practice. Internal diseases.	Disciplines of residency, Master's programme, doctoral programme	The Department of Surgical Diseases with the Course of Angiosurgery and Plastic Surgery	5(150)	50	25	75	7 course (General Practice)	Department of Surgical Diseases with the Course of Angiosurgery and Plastic Surgery	A.Omarbekov

Approved at the meeting of the Committee on quality assurance of educational programs of the University

Protocol no.4 from "29" 04.2022 y.

Head of the Registrar's office  N. Tlesheva

Head of the Center for Academic Activities  G. Utenova