

I approve
 Vice-Rector for Academic Affairs
 M. Dauletgarova



Catalogue of elective subjects
Specialty: "7R01102 "Rheumatology, including Pediatric Rheumatology""
 (residency)
 2021-2022 academic year

2-course - MI -4

1	2	3	4	5	6	7	8				9	10	11		
							the department participating in the module	the number of credits (hours)	lecture	practice				independent work of students	independent work of student with the teacher
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites									
1	Basic aspects of rheumatology		MI	Application of genetically engineered biological preparations in rheumatology. Rehabilitation methods in rheumatology. Specificity of rehabilitation of patients with rheumatic diseases. Kidney damage in rheumatic diseases. Approaches to the choice of therapy depending on the activity of the disease, clinical and morphological variants of lupus nephritis.	Resident disciplines	Disciplines of the magistracy	Department of internal diseases No.4	4	-	12	19	89	2	Department of internal diseases No.4	Туганбекова С.К.
2	Actual problems in rheumatology		MI	Modern aspects of immunosuppressive therapy. Medicines used in rheumatology. Modern approaches to the choice of immunosuppressive therapy. Autoimmune diseases as a manifestation of immunopathology. Immunopathogenetic disorders in autoimmune diseases.	Disciplines of residency, magistracy	Research work	Department of internal diseases No.4	4	-	12	18	90	2	Department of internal diseases No.4	Туганбекова С.К.
3	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			

1	2		3	4	5	6		7	8					9	10	11
№	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
									lecture	practice	independent work of students	independent work of student with the teacher				
4	Immunology and biological therapy in modern rheumatology		MI	Improving the knowledge and skills of residents in the interpretation of laboratory and instrumental diagnostics in primary care.	Internship in General Medicine	Disciplines of magistracy, doctoral studies	№1 Family Medicine Department	4	-	12	18	90	2	№1 Family Medicine Department	Абишева С.Т.	
5	Rheumatic diseases and pregnancy		MI	Rheumatic diseases, diffuse connective tissue diseases, and pregnancy. Pregnancy management.	Internship in General Medicine	Disciplines of magistracy, doctoral studies	№1 Family Medicine Department	4	-	12	18	90	2	№1 Family Medicine Department	Абишева С.Т.	
6	Indices and questionnaires used in rheumatology		MI	Indices, questionnaires for identifying the activity and functional ability of patients with rheumatic diseases.	Internship in General Medicine	Disciplines of magistracy, doctoral studies	№1 Family Medicine Department	4	-	12	18	90	2	№1 Family Medicine Department	Абишева С.Т.	
7	Modern principles of therapy for seronegative spondyloarthropathy (SNSA)		MI	Principles of SNSA therapy, NSAID therapy, basic drugs, indications for antibiotic therapy, muscle relaxants, the role of GCS in the treatment of SNSA, physiotherapy exercises, and physiotherapy.	Internship in General Medicine	Disciplines of magistracy, doctoral studies	№1 Family Medicine Department	4	-	12	18	90	2	№1 Family Medicine Department	Абишева С.Т.	
8	Dispensary observation of children in GP practice		MI	Improving the knowledge and skills of residents in matters of clinical examination of the child population in the work of a family doctor	Internship in General Medicine	Disciplines of magistracy, doctoral studies	№1 Family Medicine Department	4	-	12	18	90	2	№1 Family Medicine Department	Абишева С.Т.	

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5



Catalogue of elective subjects
Specialty: "7R01104 "Gastroenterology, including Pediatric Gastroenterology""
(residency)
2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8					9	10	11	
							the department participating in the module	the number of credits	lecture	practice	independent work of students				independent work of student with the teacher
1	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			
2	Innovative technologies in the treatment of viral hepatitis	Selected issues of modern Hepatology	MI	The last decade has been characterized by the latest achievements in molecular biology, Virology, and genetic engineering, which allowed us to discover new hepatotropic viruses, study pathogenesis in more detail, and develop new approaches to antiviral therapy of viral hepatitis. The educational program of this discipline involves the study of the basic principles of treatment of chronic viral hepatitis in accordance with the competence model of the specialist.	Internship disciplines	Master, doctoral discipline, clinical practice	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Айнабекова Б.А.
		Topical issues of rational therapy of chronic viral hepatitis							-	6	9	45			
3	Current aspects of cancer's prevention in gastroenterology	Topical issues of diseases of the gastrointestinal tract	MI	The development of students' skills for precancerous diseases diagnostics in the internal medicine's clinic. Differential diagnosis of precancerous diseases and selection of patient management tactics.	Internship disciplines	Master, doctoral discipline, clinical practice	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Айнабекова Б.А.
		Precancerous diseases of the gastrointestinal tract							-	6	9	45			

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5

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Vice-Rector for Academic Affairs
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Catalogue of elective subjects
Specialty: "7R01105 "Hematology (adult)""
(residency)
2021-2022 academic year

2-course - MI - 4

№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites	the department participating in the module	the number of credits	amount of hours				course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department
									lecture	practice	independent work of students	independent work of student with the teacher			
1	Basic aspects of hematology	Principles of drug therapy for disorders of the hemostasis system in congenital thrombophilia	MI	Study of modern principles of drug therapy for disorders of hemostasis in hematology.	internship disciplines	disciplines Master's, PhD	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Турбеков Д.К.
		Prevention of thromboembolic complications							-	6	9	45			
2	Selected issues of hematology	Disturbances in the hemostatic system in viral diseases, including COVID-19	MI	Study of modern principles of diagnosis and management of patients with disorders in the hemostasis system in viral diseases.	internship disciplines	disciplines Master's, PhD	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Турбеков Д.К.
		Features of the management of patients with hematological malignancies in COVID-19							-	6	9	45			
3	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5

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Vice-Rector for Academic Affairs
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Catalogue of elective subjects
Specialty: "7R01107 "Pulmonology, including children's""
(residency)
2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8				9	10	11		
							amount of hours								
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites	the department participating in the module	the number of credits	lecture	practice	independent work of students	independent work of student with the teacher	course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department
1	Emergencies in the clinic of internal medicine		MI	Formation of students' skills in diagnostics of emergency conditions in the clinic of internal diseases. Differential diagnosis of emergency conditions and selection of patient management tactics.	Internship disciplines	Master's and doctoral disciplines, clinical practice	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	12	18	90	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Айнабекова Б.А.
2	Selected Issues of Radiological Diagnostics in Disseminated Lung Disease		MI	Formation of skills of radiological diagnosis of disseminated lung lesions in students to assess the prevalence of the process and make a diagnosis. Improvement of differential diagnosis of disseminated processes in the lungs.	Internship disciplines	Master's and doctoral disciplines, clinical practice	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	12	18	90	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Айнабекова Б.А.
3	The main aspects of pulmonology	Principles of medicament therapy for respiratory diseases	MI	Study of the main aspects of drug therapy and rehabilitation in pulmonology.	internship disciplines	" disciplines Master's, PhD"	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Турбеков Д.К.
		Rehabilitation in pulmonology				disciplines Master's, PhD"			-	6	9	45			
4	Selected issues of pulmonology	Orphan lung diseases and storage diseases Fungal lung diseases. Lung damage with immunodeficiency	MI	Study of modern principles of diagnosis and management of patients with rare respiratory diseases and comorbid conditions.	internship disciplines	disciplines Master's, PhD"	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Турбеков Д.К.
		Features of management of patients with combined respiratory and cardiovascular pathology							-	6	9	45			

1	2	3	4	5	6	7	8				9	10	11		
							the department participating in the module	the number of credits	amount of hours						
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites			the department participating in the module	the number of credits	lecture	practice	independent work of students	independent work of student with the teacher	course (specialization / training trajectory)
							5	The main aspects of pulmonology				MI	Interstitial lung disease. Differential diagnosis of interstitial lung diseases and complex examination of the patient using clinical, radiological, morphological and immunological methods. Differential diagnostic criteria for obstructive and restrictive syndromes. Respiratory support in pulmonology. Approaches to the choice of respiratory support method.	Resident disciplines	
6	Selected issues of pulmonology		MI	Differential diagnosis for intrathoracic lymphadenopathy. Drawing up a patient examination program. Outpatient management tactics Suppurative diseases of the lungs and pleura. Algorithm for rational differential diagnosis, management tactics and dynamic observation. Views. Modern diagnostic methods.	Disciplines of residency, magistracy	Научно-исследовательская работа	Department of internal diseases No.4	4	-	12	18	90	2	Department of internal diseases No.4	Туганбекова С.К.
7	Interstitial lung diseases (ILD)	Internal diseases Pulmonology	MI	Improving knowledge on ILD Consideration of differential -diagnostic criteria ILD based on radiological and clinical diagnostics.	Internal diseases Pulmonology	Masters. PHd	№2 Family Medicine Department	4	-	6	9	45	2	№2 Family Medicine Department	Латыпова Н.А.
		Radiological diagnostic of ILD	MD		Radiological diagnostic	Internal diseases Pulmonology Radiology	Radiology named after academician Zh.Kh. Hamzabayev		-	6	9	45		Рахимжанова Р.И.	
8	Allergic and IgE - mediated respiratory diseases	Differential diagnosis of allergic lung diseases	MI	Improving knowledge on Allergic diseases and lung IgE -mediated respiratory diseases. Exploration of the specifics of immune system ,allergies in respiratory medicine.	Internal diseases Pulmonology	Masters. PHd	№2 Family Medicine Department	4	-	6	9	45	2	№2 Family Medicine Department	Латыпова Н.А.
		Allergology and immunology in respiratory medicine	MD		Allergology and Immunology	Internal diseases Pulmonology	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology		-	6	9	45		Төрбеков Д.К.	
9	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5



Catalogue of elective subjects
Specialty: "7R01109 "Nephrology, including Pediatric Nephrology""
 (residency)
2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8					9	10	11		
							№	a module / discipline	module component	cycle of discipline	Course Description				Prerequisites	postrequisites
lecture	practice	independent work of students	independent work of student with the teacher													
1	Peculiarities of patient management after kidney transplantation		MI	Study of the contemporary approaches to immunosuppressive therapy of patients after transplantation.	internship disciplines	disciplines Master's, PhD	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	12	18	90	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Туребеков Д.К.	
2	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.	
		Judicial practice in cases involving the provision of medical services							-	6	45	9				
3	The main aspects of nephrology	The differential diagnosis of renal disease in pregnancy	MI	During the study of electives residents become familiar with the physiological changes of the urinary system and pathological conditions during pregnancy: urinary tract infections, glomerular diseases, acute kidney injury, HELLP-syndrome, CKD during pregnancy. The impact of drugs on the fetus will be explored.	internship disciplines	" disciplines Master's, PhD"	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Туребеков Д.К.	
		Kidney and arterial hypertension				-			6	9	45					

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5



Catalogue of elective subjects
Specialty: "7R01111 "Infectious Diseases, including Children Infectious Diseases""

(residency)

2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8	9	10	11					
											the number of credits	amount of hours			
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites	the department participating in the module	lecture	practice	independent work of students	independent work of student with the teacher				
1	Actual issues of infectious diseases		MI	Based on the modular principle in integration with clinical disciplines, to form knowledge among residents about HIV infection, especially dangerous infections, topical zoonotic infections.	disciplines of the internship "General medical practice" and "Internal medicine"	Disciplines of magistracy and doctoral studies	Department of infectious diseases and clinical epidemiology	4	-	12	18	90	2	Department of infectious diseases and clinical epidemiology	Кулжанова Ш.А.
2	SARS-CoV-2 coronavirus infection		MI	Epidemiology, clinic, main diagnostic criteria, principles of treatment for new coronavirus infection Covid-19.	disciplines of the internship "General medical practice" and "Internal medicine"	Disciplines of magistracy and doctoral studies	Department of infectious diseases and clinical epidemiology	4	-	12	18	90	2	Department of infectious diseases and clinical epidemiology	Кулжанова Ш.А.
3	Modern approaches in the diagnosis and treatment of infectious brain lesions. Antimicrobial Resistance		MI	Study of clinical and pathological features of emergency conditions in children due to central nervous system damage in infectious pathology. Highlights of the WHO Global Strategy for the Control of Antimicrobial Resistance.	Residency specialty disciplines	Master's and doctoral disciplines	Department of Pediatric Infectious Diseases	4	-	12	18	90	2	Department of Pediatric Infectious Diseases	Башева Д.А
4	Management of introduction of coronavirus infection (COVID-19) in children at the outpatient and inpatient stage		MI	To study the epidemiology, clinical and laboratory features of coronavirus infection in children.	Residency specialty disciplines	дисциплины магистратуры и докторантуры	Department of Pediatric Infectious Diseases	4	-	12	18	90	2	Department of Pediatric Infectious Diseases	Башева Д.А

1	2	3	4	5	6	7	8				9	10	11		
							the department participating in the module	the number of credits	amount of hours					course (specialization / training trajectory)	responsible department for the module / discipline
lecture	practice	independent work of students	independent work of student with the teacher												
5	Topical issues of coronavirus infection (COVID-19) in children: clinic, diagnosis, treatment, complication and prevention		MI	To study the clinical and laboratory features of MVS associated with SARS COV 2.	Residency specialty disciplines	дисциплины магистратуры и докторантуры	Department of Pediatric Infectious Diseases	4	-	12	18	90	2	Department of Pediatric Infectious Diseases	Башева Д.А
6	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5

I approve
Vice-Rector for Academic Affairs
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Catalogue of elective subjects
Specialty: "7R01113 "Psychiatry including pediatric psychiatry""
(residency)
2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8					9	10	11
							the department participating in the module	the number of credits (hours)	amount of hours					
lecture	practice	independent work of students	independent work of student with the teacher											
1	Teenage Psychiatry and addictology		MI The Teenage Psychiatry and addictology study questions concerning to teenagers health and processes of monitoring of their development , pathologic forms of behavior specific for teenagers - chemical and nonchemical dependences, delinquency and deviation behavior, suicidal and self-damaging behavior.	Disciplines of internship	Disciplines of magistracy and doctoral studies	Department of Psychiatry and Addiction	4	-	12	18	90	2	Department of Psychiatry and Addiction	Рақиева А.С.
2	Gerontologic psychiatry in specialty		MI Gerontologic psychiatry in specialty forming of knowledge and skills of organization of psychiatry help for patients of gerontologic age for residents. Study in gerontopsychiatry is due to tendency to constant increasing of the share of elderly in population of country, that causes the increasing of frequency of mental diseases, specific for old age and also increasing of number of young patients who have reached the old age.	Disciplines of internship	Disciplines of magistracy and doctoral studies	Department of Psychiatry and Addiction	4	-	12	18	90	2	Department of Psychiatry and Addiction	Рақиева А.С.
3	The basics of family psychotherapy in the practice of a doctor		MI Improving personal and professional efficiency when working with the family. Study of the family system, the structure of psychology, the life cycle of the family, etc. Family rules. Children's symptoms. Diagnostics and psychotherapy / correction of disorders of family functioning.	specialties of interaction, general medical practice	Specialties of doctoral studies in clinical psychology, medicine	Department of the clinical psychology	4	-	12	18	90	2	Department of the clinical psychology	Қаражанова А.С.
4	The basics of cognitive behavioral therapy in the work of a doctor		MI Knowledge in family psychotherapy will help to increase personal as well as professional effectiveness in the activities of a family doctor or GP. Basic provisions in CBT. Deep beliefs, cognitive errors, diagnosis and correction. Types of compensatory strategies.	specialties of interaction, general medical practice	Specialties of doctoral studies in clinical psychology, medicine	Department of the clinical psychology	4	-	12	18	90	2	Department of the clinical psychology	Қаражанова А.С.

1	2	3	4	5	6	7	8					9	10	11								
							№	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			
																			lecture	practice	independent work of students	independent work of student with the teacher
5	Effective interaction in the work collective. Leadership		MI	Acquisition of skills to motivate other people for the necessary goals. The ability to identify the personality types of colleagues. Stages of development of relationships in groups. Conflicts, types of conflicts, ways of coping with conflict situations. Personal effectiveness skills.	specialties of interaction, general medical practice	Specialties of doctoral studies in clinical psychology, medicine	Department of the clinical psychology	4	-	12	18	90	2	Department of the clinical psychology	Каражанова А.С.							
6	Working out personal effectiveness in professional and personal aspects		MI	Increasing personal self-organization, time management (allocation of time, how to do to keep up with everything); personal motivation management; personality identification (who I am, my strengths and weaknesses of the personality) and pumping my competencies; the formation of coping (coping with stress) strategies for the implementation of their plans.	specialties of interaction, general medical practice	Specialties of doctoral studies in clinical psychology, medicine	Department of the clinical psychology	4	-	12	18	90	2	Department of the clinical psychology	Каражанова А.С.							
7	Skills of persuasion and influence on people, increasing therapeutic compliance. Leadership		MI	Working with objections, resistances, types of conflicts, ways of resolving them, acquiring skills to motivate other people for the necessary goals, skills of written and oral communication in social networks and offline (doctor's appointment, consultations, interaction with relatives of patients). Formation of leadership qualities.	specialties of interaction, general medical practice	Specialties of doctoral studies in clinical psychology, medicine	Department of the clinical psychology	4	-	12	18	90	2	Department of the clinical psychology	Каражанова А.С.							
8	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.							
		Judicial practice in cases involving the provision of medical services							-	6	45	9										

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30.06.2021, protocol №5



Catalogue of elective subjects
Specialty: "7R01114 "Radiodiagnosis""

(residency)

2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8	9	10	11										
											the department participating in the module	the number of credits	amount of hours				course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department	
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites														
1	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	lecture	practice	independent work of students	independent work of student with the teacher	2	Department of medical law and ethics	Тлембаева Ж.У.					
		-							6	45	9									
		Judicial practice in cases involving the provision of medical services							-	6	45	9								
2	Radiation diagnostics in oncology		MI	Radiation diagnostics and radiation therapy for tumor metastases in bones, lungs, abdominal cavity, kidneys and other organs. Methodological aspects of radiation diagnostics and radiation therapy: preparation of patients, laying, positioning, safety precautions. Indications and contraindications. Algorithms for X-ray diagnostic and X-ray therapeutic procedures for metastases.	Profile disciplines in radiation diagnostics	Disciplines of magistracy and doctoral studies	Radiology named after academician Zh.Kh. Hamzabayev	4	-	12	18	90	2	Radiology named after academician Zh.Kh. Hamzabayev	Рахимжанова Р.И.					
3	Physical and technical foundations of radiation diagnostic methods		MI	The history of the development of CT, MRI, ultrasound. The principle of operation of diagnostic methods. Methods for obtaining CT, MRI, ultrasound images. Diagnostic research methods.	Profile disciplines in radiation diagnostics	Disciplines of magistracy and doctoral studies	Radiology named after academician Zh.Kh. Hamzabayev	4	-	12	18	90	2	Radiology named after academician Zh.Kh. Hamzabayev	Рахимжанова Р.И.					

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Catalogue of elective subjects
Specialty: "7R01115 "Radiotherapy""
 (residency)
 2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8					9	10	11	
							№	a module / discipline	module component	cycle of discipline	Course Description				Prerequisites
lecture	practice	independent work of students	independent work of student with the teacher	course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department									
1	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			
2	Magnetic resonance imaging in oncology		MI	Organization of MRI service in the Republic of Kazakhstan. History of development of MRI Methods of obtaining MRI images. How MRI works. Methods of MRI of the head and neck MRI diagnostics for: Oncological diseases of the skull and brain, nose, nasopharynx and paranasal sinuses, larynx. MRI technique for examining the respiratory system. Malignant lung tumors. Benign lung tumors. Research methods of oncological diseases of the digestive system and abdominal cavity. Oncological diseases of the colon and small intestine, pancreas, liver and biliary tract. Extraorganic oncological diseases of the abdominal cavity.	Anatomy, surgery, neurology, cardiology, radiation diagnostics and radiation therapy	Pathological anatomy, hospital surgery, vascular surgery, neurosurgery, urology, cardiac surgery, anesthesiology, radiation diagnostics and radiation therapy	Department of radiology and nuclear medicine	4	-	12	18	90	2	Department of radiology and nuclear medicine	Абдрахманова Ж.С.

1	2	3	4	5	6	7	8					9	10	11		
							№	a module / discipline	module component	cycle of discipline	Course Description				Prerequisites	postrequisites
lecture	practice	independent work of students	independent work of student with the teacher													
3	Breast cancer screening		MI	<p>Organization of work during screening mammographic studies in women in outpatient settings. The role of radiation methods in early radiation diagnosis of various diseases of the breast in order to prevent complications, malignization of processes. The role of electromammography in the detection of oncological diseases in mass preventive examinations of the population. Organizational principles of using the X-ray method in mammology. Organization of mammological screening of breast tumors. Features of radiation examination of the breast in an outpatient setting, placement, projection and technique of performing an X-ray examination of the breast, determining the quality of a mammogram, choosing the degree of required normal, hard and soft radiation. Detection of breast diseases at the outpatient stage. BIRADS is a system for screening studies. Emergency medical care for interventional radiation research methods. Occupational health and safety in x-ray rooms and laboratories. Protective measures against damaging effects of ionizing radiation.</p>	Anatomy, surgery, neurology, cardiology, radiation diagnostics and radiation therapy	Pathological anatomy, hospital surgery, vascular surgery, neurosurgery, urology, cardiac surgery anesthesiology, radiation diagnostics and radiation therapy	Department of radiology and nuclear medicine	4	-	12	18	90	2	Department of radiology and nuclear medicine	Абдрахманова Ж.С.	
4	Computed tomography for cancer		MI	<p>Organization of X-ray and CT services in the Republic of Kazakhstan. History of the development of CT. Methods of obtaining CT images. The principle of operation of CT. CT of the head and neck. CT scan for: Oncological diseases of the skull and brain, nose, nasopharynx and paranasal sinuses, larynx. Respiratory research technique. CT scan for malignant lung tumors. Benign lung tumors. CT for oncological diseases of the mediastinum. Methods of CT-examination of oncological diseases of the digestive system and abdominal cavity. CT scan for diseases of the colon and small intestine, pancreas, liver and biliary tract, extraorgan oncological diseases of the abdominal cavity.</p>	Anatomy, general surgery, nervous diseases, cardiology, radiation diagnostics and radiation therapy	Pathological anatomy, hospital surgery, vascular surgery, neurosurgery, urology, cardiac surgery anesthesiology, radiation diagnostics and radiation therapy, radionuclide diagnostics	Department of radiology and nuclear medicine	4	-	12	18	90	2	Department of radiology and nuclear medicine	Абдрахманова Ж.С.	

Discussed and agreed on the meeting the University Committee for Quality Assurance
30.06.2021, protocol №5



Catalogue of elective subjects
Specialty: "7R01130 "Pediatrics""
 (residency)
2021-2022 academic year

2-course - MI - 4

№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites	the department participating in the module	the number of credits	amount of hours				course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department
									lecture	practice	independent work of students	independent work of student with the teacher			
1	Modern aspects of hereditary diseases in children		MI	Organization of medical and genetic assistance to children in the Republic of Kazakhstan. Description of the patient's phenotype. Mucoviscidosis. Congenital hypothyroidism. Phenylketonuria. Adrenogenital syndrome. Congenital epidermolysis bullosa (butterfly disease). Progeria (Hutchinson-Guilford syndrome). Congenital ichthyosis. Inherited forms of mental and physical development disorders in children. Screening diagnostics of hereditary diseases in the Republic of Kazakhstan.	Specialized disciplines of the residency	Master's degree courses	Department of pediatric diseases with courses in allergology, Hematology and Endocrinology	4	-	12	18	90	2	Department of pediatric diseases with courses in allergology, Hematology and Endocrinology	Моренко М.А.
2	"Difficult diagnosis "in pediatrics	"Difficult diagnosis "in pediatric allergology and immunology	MI	In the practice of a pediatrician, difficulties arise in the diagnosis of certain diseases. In this regard, it is necessary to form active clinical thinking in the diagnostic search for complex pathology in children. With the aim, theoretical knowledge and practical skills will be improved.	internship disciplines in the direction of "Pediatrics"	disciplines of master program and PHD studies	Department of pediatric diseases with courses in cardiorheumatology and gastroenterology	4	-	3	22,5	4,5	2	Department of pediatric diseases with courses in cardiorheumatology and gastroenterology	Абдрахманова С.Т.
		"Difficult diagnosis "in pediatric pulmonology							-	3	22,5	4,5			
		"Difficult diagnosis "in pediatric cardio-rheumatology							-	3	22,5	4,5			
		"Difficult diagnosis "in pediatric gastroenterology							-	3	22,5	4,5			
3	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			



Catalogue of elective subjects
Specialty: "7R01131 "Neonatology""

(residency)

2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8	9	10	11		
											the number of credits	lecture
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites	the department participating in the module	the number of credits	amount of hours	course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department
1	Ultrasound diagnostics in Neonatology		MI	Mastering the basic principles of ultrasound diagnostics in a newborn. The formation of ultrasound diagnostic skills in residents to identify the main pathological condition. Requirements, indications and contraindications for ultrasound diagnostics in neonatology.	Residency majors	Disciplines of magistracy and doctoral studies	Department of Neonatology	4	- 12 18 90	2	Department of Neonatology	Карин Б.Т.
2	Pathological examination in neonatology		MI	Mastering the main principles for identifying the causes of various diseases of deceased newborns.	Residency majors	Disciplines of magistracy and doctoral studies	Department of Neonatology	4	- 12 18 90	2	Department of Neonatology	Карин Б.Т.
3	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	- 6 45 9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							- 6 45 9			

Discussed and agreed on the meeting the University Committee for Quality Assurance
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Catalogue of elective subjects
Specialty: "7R01134 "Forensic Medical Examination""
 (residency)
2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8					9	10	11	
							the number of credits (hours)	lecture	practice	independent work of students	independent work of student with the teacher				
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites						the department participating in the module	the number of credits (hours)	lecture	practice
1	Forensic histology	Morphological diagnosis of causes of death	MI	In-depth clinical specialist training for independent work as a medical examiner, by improving the practical training and improvement of theoretical knowledge, mastery and perfection of practical skills necessary physician medical examiner in the performance of his duties for the current level and the high quality of the forensic -Medical examination is appointed by law enforcement agencies.	Profiling related subjects	Discipline master's or doctorate	Department of Forensic Medicine	4	-	6	9	45	2 Clinical direction	Department of Forensic Medicine	Осипов В.Д.
		General questions of forensic histology							-	6	9	45			
2	Molecular genetic studies in forensic medicine	Molecular genetic studies in forensic medicine	MI	Train to evaluate and anticipate the legal consequences on matters relating to biological material evidence, ie, items related to the incident and help to reveal his circumstances, by deepening theoretical and clinical specialist training for independent work as a forensic expert, to ensure that the current level and the high quality of the forensic medical examination is appointed by law enforcement agencies.	Profiling related subjects	Discipline master's or doctorate	Department of Forensic Medicine	4	-	6	9	45	2 Clinical direction	Department of Forensic Medicine	Осипов В.Д.
		Molecular genetic studies in forensic medicine							-	6	9	45			
3	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5



Catalogue of elective subjects
Specialty: "7R01137 "Neurology, including pediatric""
 (residency)
2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8					9	10	11	
							the number of credits	amount of hours							course (specialization / training trajectory)
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites		the department participating in the module	lecture	practice	independent work of students	independent work of student with the teacher			
1	Demyelinating diseases of the central and peripheral nervous systems		MI	Diagnostic criteria for multiple sclerosis, clinical and pathomorphological variants of the course, treatment according to international standards and protocols.	major residency disciplines	master's and doctoral degree disciplines	Neuropathology with course of psychiatry and narcology	4	-	11	18	90	2	Department of Neurology	Джаксыбаева А.Х.
2	Parkinson's disease		MI	Clinical and epidemiological aspects of Parkinson's disease and other extrapyramidal disorders. Immunopathological mechanisms of parkinsonism pathogenesis. Modern approaches to treatment in the early and late stages of parkinsonism.	major residency disciplines	master's and doctoral degree disciplines	Neuropathology with course of psychiatry and narcology	4	-	12	18	90	2	Department of Neurology	Джаксыбаева А.Х.
3	Clinical electroencephalography		MI	Features of EEG diagnostics of epileptic and non-epileptic paroxysmal disorders of consciousness in adults and children with various pathologies of the nervous system. Epileptic seizures during sleep.	major residency disciplines	master's and doctoral degree disciplines	Neuropathology with course of psychiatry and narcology	4	-	12	18	90	2	Department of Neurology	Джаксыбаева А.Х.
4	Ischemic stroke		MI	Diagnostic criteria for the main subtypes of ischemic stroke. Neuroprotective, reperfusion therapy in the acute period of stroke. A modern view of thrombolytic therapy.	major residency disciplines	master's and doctoral degree disciplines	Neuropathology with course of psychiatry and narcology	4	-	12	18	88	2	Department of Neurology	Джаксыбаева А.Х.
5	Epilepsy and other paroxysmal conditions		MI	Diagnosis and treatment tactics for the main neurological conditions (epilepsy, paroxysmal conditions)	major residency disciplines	master's and doctoral degree disciplines	Neuropathology with course of psychiatry and narcology	4	-	12	18	90	2	Department of Neurology	Джаксыбаева А.Х.

1	2	3	4	5	6	7	8					9	10	11		
							№	a module / discipline	module component	cycle of discipline	Course Description				Prerequisites	postrequisites
lecture	practice	independent work of students	independent work of student with the teacher													
6	Insomnia, diagnosis, prevention and treatment from an evidence-based medicine perspective		MI	Formation of knowledge, skills and abilities of managing patients with various types of sleep disorders, methods of diagnosis and principles of pharmacological and non-pharmacological treatment.	major residency disciplines	master's and doctoral degree disciplines	Neuropathology with course of psychiatry and narcology	4	-	12	18	90	2	Department of Neurology	Джаксыбаева А.Х.	
7	Cognitive disorders: from moderate cognitive disorders to dementia		MI	Diagnosis and treatment tactics.	major residency disciplines	master's and doctoral degree disciplines	Neuropathology with course of psychiatry and narcology	4	-	12	18	90	2	Department of Neurology	Джаксыбаева А.Х.	
8	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.	
		Judicial practice in cases involving the provision of medical services							-	6	45	9				

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5



Catalogue of elective subjects
Specialty: "7R01138 "Family medicine"
(residency)
2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8					9	10	11
							the department participating in the module	the number of credits (hours)	amount of hours					
lecture	practice	independent work of students	independent work of student with the teacher											
1	Gerontologic psychiatry in specialty	MI	Gerontologic psychiatry in specialty forming of knowledge and skills of organization of psychiatryc help for patients of gerontologic age for residents. Study in gerontopsychiatry is due to tendency to constant increasing of the share of elderly in population of country, that causes the increasing of frequency of mental diseases, specific for old age and also increasing of number of young patients who have reched the old age.	Disciplines of internship	Disciplines of magistracy and doctoral studies	Department of Psychiatry and Addiction	4	-	12	18	90	2	Department of Psychiatry and Addiction	Ракишева А.С.
2	Differential diagnosis of gastroenterological diseases	MI	The course will consider topical issues of diseases of the gastrointestinal tract: the most common nosologies that a general practitioner encounters at an outpatient appointment, diagnostic aspects, differential diagnosis, basic principles of treatment based on the laws of evidence-based medicine.	Basic and major disciplines of residency	Disciplines of magistracy or doctoral studies	№3 Family Medicine Department	4	-	12	18	90	2	№3 Family Medicine Department	Уразова С.Н.
3	Modern laboratory and instrumental methods for diagnosing diseases of the gastrointestinal tract	MI	The course will consider a study of modern methods of laboratory and instrumental diagnostics, which make it possible to correctly diagnose the pathology of the gastrointestinal tract in an outpatient setting.	Basic and major disciplines of residency	Disciplines of magistracy or doctoral studies	№3 Family Medicine Department	4	-	12	18	90	2	№3 Family Medicine Department	Уразова С.Н.
4	Relevant issues of laboratory and instrumental diagnostics in primary care	MI	Improving the knowledge and skills of residents in the interpretation of laboratory and instrumental diagnostics in primary care.	Internship in General Medicine	Disciplines of magistracy, doctoral studies	№2 Family Medicine Department	4	-	12	18	90	2	№2 Family Medicine Department	Латыпова Н.А.

1	2	3	4	5	6	7	8					9	10	11	
							the number of credits (hours)	amount of hours							course (specialization / training trajectory)
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites		the department participating in the module	lecture	practice	independent work of students	independent work of student with the teacher			
5	Respiratory pathology in children in family medicine		MI	Improving the knowledge and skills of residents in the diagnosis, differential diagnosis and treatment of respiratory pathology in children in family medicine.	Internship in General Medicine	Disciplines of magistracy, doctoral studies	№2 Family Medicine Department	4	-	12	18	90	2	№2 Family Medicine Department	Латыпова Н.А.
6	Medical errors and solutions in the practice of a doctor		MI	Analysis of medical errors encountered in the therapeutic and pediatric practice of a family medicine doctor. The formation of knowledge, skills in matters of expert assessment of cause-effect relationships of medical and diagnostic measures and their outcomes in the provision of medical care.	Internship in General Medicine	Disciplines of magistracy, doctoral studies	№2 Family Medicine Department	4	-	12	18	90	2	№2 Family Medicine Department	Латыпова Н.А.
7	Electrocardiographic diagnostics in practice of a general practitioner		MI	Improving the knowledge and skills of residents in the electrocardiographic diagnostics	Internship in General Medicine	Disciplines of magistracy, doctoral studies	№2 Family Medicine Department	4	-	12	18	90	2	№2 Family Medicine Department	Латыпова Н.А.
8	Health of teenagers, features of psychosocial development taking into account of addictiological factors of risk		MI	During studying of module questions concerning to 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.	Disciplines of internship	Disciplines of magistracy and doctoral studies	Department of Psychiatry and Addiction	4	-	12	18	90	2	Department of Psychiatry and Addiction	Ракишева А.С.
9	The mental health of pregnant		MI	The actuality of the theme of mental health is pulled off with high of illness spreadness among women with disorders of anxio-depressive register. That needs gender approach in studying and prophylaxis in this group of diseases. High standards of appearance in society and wrong information of massmedia can cause distroing of women health, with wide spread of disorders of meals behaviour and obsessive drive to modification of body among women. that affects womens healthcare.	Disciplines of internship	Disciplines of magistracy and doctoral studies	Department of Psychiatry and Addiction	4	-	12	18	90	2	Department of Psychiatry and Addiction	Ракишева А.С.
10	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			

I approve

Vice-Rector for Academic Affairs

M. Dauletayrova



Catalogue of elective subjects
Specialty: "7R01139 "Therapy""

(residency)

2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8				9	10	11		
							the number of credits	lecture	practice	independent work of students				independent work of student with the teacher	course (specialization / training trajectory)
1	Differential diagnosis for nephrotic syndrome in therapeutic practice	Differential diagnosis in secondary nephrotic syndrome	MI	Nephrotic syndrome is one of the most important and difficult nephrological syndromes. Differential diagnosis in nephrotic syndrome and the establishment of the main diagnosis that led to its formation is a responsible and difficult task in therapeutic practice. The increase in cases of nephrotic syndrome in adulthood and old age, requiring clarification of its nosological affiliation, is of paramount importance for treatment and prognosis.	Internship disciplines	Master, doctoral discipline, clinical practice	Department of internal diseases with course in geriatrics	4	-	6	9	45	2	Department of internal diseases with course in geriatrics	Ткачев В.А.
		Differential diagnosis in primary nephrotic syndrome							-	6	9	45			
2	Liver diseases in therapeutic practice: modern principles of diagnosis, prevention and treatment	Liver cirrhosis and its complications	MI	The study of modern methods of diagnosis, prevention and treatment of liver diseases is an integral part of the training of a general practitioner, due to the widespread prevalence of these diseases, as well as the introduction of the latest diagnostic and treatment methods from the standpoint of evidence-based medicine into clinical practice.	Internship disciplines	Master, doctoral discipline, clinical practice	Department of internal diseases with course in geriatrics	4	-	3	4	23	2	Department of internal diseases with course in geriatrics	Ткачев В.А.
		Modern principles of diagnosis, prevention, treatment of acute and chronic liver diseases							-	9	14	67			
3	Features of the diagnosis and treatment of diseases of the internal organs in pregnant women	Features of diagnostics and treatment of diseases of the digestive, urinary, hematopoietic and endocrine systems in pregnant women	MI	The formation of residents' skills in the diagnosis and treatment of pathologies of the heart, lungs, liver, gastrointestinal tract, kidneys, hematopoietic and endocrine systems in pregnant women.	Internship disciplines	Master, doctoral discipline, clinical practice	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Айнабекова Б.А.
		Features of diagnostics and treatment of diseases of the cardiovascular and respiratory systems in pregnant women							-	6	9	45			

1	2	3	4	5	6	7	8				9	10	11		
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites	the department participating in the module	the number of credits	amount of hours				course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department
									lecture	practice	independent work of students	independent work of student with the teacher			
4	Features of the diagnosis and treatment of COVID-19 in patients with a therapeutic profile	Features of the diagnosis and treatment of COVID-19 in patients with pathology of the digestive, urinary, hematopoietic and endocrine systems.	MI	Formation of students' skills in the diagnosis and treatment of COVID-19 in patients with pathology of the cardiovascular, respiratory, digestive, urinary, hematopoietic and endocrine systems.	Internship disciplines	Master, doctoral discipline, clinical practice	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Айнабекова Б.А.
		-							6	9	45				
5	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		-							6	45	9				

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5

I approve
Vice-Rector for Academic Affairs
M. Dauletgarova



Catalogue of elective subjects
Specialty: "7R01140 "Physical medicine and rehabilitation""
(residency)
2021-2022 academic year

2-course - MI - 4

№	a module / discipline	module component	3 cycle of discipline	4 Course Description	5 Prerequisites	6 postrequisites	the department participating in the module	7 the number of credits	8 amount of hours					9 course (specialization / training trajectory)	10 responsible department for the module / discipline	11 Head of the department
									lecture	practice	independent work of students	independent work of student with the teacher				
1	Rehabilitation of sportsmen		MI	Features of rehabilitation of sportsmen with TBI, injuries of the limbs and spine. The use of physical methods for the recovery of athletes. Terms of rehabilitation and sports prediction.	Bases of medical rehabilitation, Physiotherapy, Physical therapy (kinesitherapy), Functional diagnostics, Balneology, Erotherapy, Inpatient rehabilitation, including children's rehabilitation.	Disciplines of master's, PHD degrees	Sports Medicine, Rehabilitation and Physical Training Course Chair	2	-	6	9	45	2	Sports Medicine, Rehabilitation and Physical Training Course Chair	Сливкина Н.В.	
2	Kinesitherapy with elements of Bobat and Voit therapy		MI	Features of bobat therapy with elements of Voit therapy include the interaction of the central nervous system with other functional systems and inhibit the pathological motor and postural stereotypes of the child's body. They are used to stimulate the physiological development of the central nervous system and motor skills of the child.	Bases of medical rehabilitation, Physiotherapy, Physical therapy (kinesitherapy), Functional diagnostics, Balneology, Erotherapy, Inpatient rehabilitation, including children's rehabilitation.	Disciplines of master's, PHD degrees	Sports Medicine, Rehabilitation and Physical Training Course Chair	2	-	6	9	45	2	Sports Medicine, Rehabilitation and Physical Training Course Chair	Сливкина Н.В.	
3	Medical rehabilitation based on ICF criteria		MI	The basics of ICF and the formulation of a rehabilitation diagnosis in order to describe all the components of health and the real problems associated with it. Implementation of the patient-centered, problem-oriented and multidisciplinary principle of rehabilitation.	Bases of Medical rehabilitation, Outpatient rehabilitation, Repeated and Supportive rehabilitation	Disciplines of master's, PHD degrees	Sports Medicine, Rehabilitation and Physical Training Course Chair	2	-	6	9	45	2	Sports Medicine, Rehabilitation and Physical Training Course Chair	Сливкина Н.В.	

1	2	3	4	5	6	7	8					9	10	11					
							the department participating in the module	the number of credits	amount of hours						course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department		
									lecture	practice	independent work of students							independent work of student with the teacher	
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites													
4	Examination of Temporary and Permanent Disability (MSE)		MI	Determination of temporary disability based on an assessment of the state of health, nature and working conditions, and social factors. Fundamentals of medical and social expertise. Features of establishing disability for children.	Bases of Medical rehabilitation, Outpatient rehabilitation, Repeated and Supportive rehabilitation	Disciplines of master's, PHD degrees	Sports Medicine, Rehabilitation and Physical Training Course Chair	2	-	6	9	45	2	Sports Medicine, Rehabilitation and Physical Training Course Chair	Сливкина Н.В.				
5	Rehabilitation and assistive technologies based on ICF		MI	Methodology of individual selection of technical auxiliary (compensatory) means and special means of transportation, taking into account the criteria of the ICF. Setting rehabilitation aims. Social and professional rehabilitation of persons with disabilities.	Bases of Medical rehabilitation, Outpatient rehabilitation, Repeated and Supportive rehabilitation	Disciplines of master's, PHD degrees	Sports Medicine, Rehabilitation and Physical Training Course Chair	2	-	6	9	45	2	Sports Medicine, Rehabilitation and Physical Training Course Chair	Сливкина Н.В.				

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5

I approve

Vice-Rector for Academic Affairs

M. Dauletyarova



Catalogue of elective subjects
Specialty: "7R01142 "Clinical Pharmacology""

(residency)

2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8					9	10	11	
							the department participating in the module	the number of credits	lecture	practice	independent work of students				independent work of student with the teacher
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites						the department participating in the module	the number of credits	lecture	
1	Assessment of medicinal technology		MI	This discipline provides residents with the necessary knowledge to understand and use modern analytical methods for the economic assessment of the effectiveness of drugs and treatment methods. Basic concepts, goals and types of analysis: cost of illness analysis (COI - cost of illness), pharmaco-economic research like cost minimization CMA (cost minimization analysis), pharmaco-economic research like cost-effectiveness CEA (cost-effectiveness analysis), cost-utility analysis CUA (cost-benefit), cost-benefit analysis CBA (cost-benefit).	Profile disciplines of residency	Disciplines of magistracy and doctoral studies	Department of Clinical Pharmacology	4	-	12	18	90	2	Department of Clinical Pharmacology	Ахмадьяр Н.С.
2	Topical issues of rational use of medicines		MI	This discipline forms the residents' 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.	Profile disciplines of residency	Disciplines of magistracy and doctoral studies	Department of Clinical Pharmacology	4	-	12	18	90	2	Department of Clinical Pharmacology	Ахмадьяр Н.С.
3	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5



Catalogue of elective subjects
Specialty: "7R09117 "Oncology (adult)""
 (residency)
 2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8					9	10	11	
							the number of credits (hours)	amount of hours							course (specialization / training trajectory)
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites		the department participating in the module	lecture	practice	independent work of students	independent work of student with the teacher			
1	Oncourology		MI	The study of the principles of diagnosis and treatment of oncological diseases of the genitourinary system is of great importance in training resident oncologists to form the foundations of clinical thinking, mastering communication and clinical skills, collecting anamnesis, examining patients, and being competent in diagnosing the most common malignant diseases.	Residency disciplines	Disciplines of magistracy, doctoral studies	Department of Oncology	4	-	12	18	85	2	Department of Oncology	проф. Макишев А.К.
2	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			
3	Oncological gynecology		MI	The study of the discipline, including the principles of diagnosis and treatment of oncological diseases of the female reproductive system, is of great importance in training resident oncologists to form the foundations of clinical thinking, mastering communicative and clinical skills, collecting anamnesis, examining patients, and being competent in diagnosing the most common malignant diseases.	Residency disciplines	Disciplines of magistracy, doctoral studies	Department of Oncology	4	-	12	18	90	2	Department of Oncology	проф. Макишев А.К.

Discussed and agreed on the meeting the University Committee for Quality Assurance

30.06.2021, protocol №5



Catalogue of elective subjects
Specialty: "7R09132 "Oncology and Hematology for children""
(residency)
2021-2022 academic year

2-course - MI-4

1	2	3	4	5	6	7	8					9	10	11	
							the number of credits (hours)	amount of hours							course (specialization / training trajectory)
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites		the department participating in the module	lecture	practice	independent work of students	independent work of students with the teacher			
1	Leukemia in children. Modern methods of diagnosis and treatment		MI	Types of leukemia in children; factor affecting the development of leukemia in children. Modern classification of leukemia, according to morphological, phenotypic and immunohistochemical characteristics. Basic clinical leukemia syndrome and algorithm of modern diagnosis of leukemia in children. Modern schemes of leukemia therapy: treatment and supportive therapy protocols. Differential diagnosis of leukemia in children.	Specialized disciplines of the residency	Master's degree courses	Department of pediatric diseases with courses in allergology, Hematology and Endocrinology	4	-	12	18	90	2	Department of pediatric diseases with courses in allergology, Hematology and Endocrinology	Моренко М.А.
2	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			

Discussed and agreed on the meeting the University Committee for Quality Assurance

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Catalogue of elective subjects
Specialty: "7R09133 "Endocrinology, including children's""
(residency)
2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8	9	10	11					
											the number of credits (hours)	amount of hours	course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department
№	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			
									lecture	practice	independent work of students	independent work of student with the teacher			
1	Peculiarities of the course, diagnosis and treatment of the cardiovascular system diseases in patients with endocrine pathology	Peculiarities of the course, diagnosis and treatment of cardiovascular system diseases in patients with thyroid pathology	MI	Improving students' skills in diagnosis, treatment, and management of cardiovascular diseases in comorbid patients with background endocrine pathology.	Internship disciplines	Master, doctoral discipline, clinical practice	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Айнабекова Б.А.
		Peculiarities of the course, diagnosis and treatment of cardiovascular system diseases in patients with diabetes mellitus							-	6	9	45			
2	Differentiated management of patients with impaired calcium-phosphorus metabolism	Peculiarities of the course, diagnosis and treatment of calcium-phosphorus metabolism disorders in renal diseases	MI	Improving students' skills in differentiated management of patients with calcium-phosphorus metabolism disorders on the background of combined pathology of the bone-joint and urinary systems.	Internship disciplines	Master, doctoral discipline, clinical practice	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	6	9	45	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Айнабекова Б.А.
		Peculiarities of osteoporosis management in comorbid patients with endocrine and rheumatological pathology							-	6	9	45			
3	Current issues of clinical endocrinology		MI	In-depth study of the biochemistry of endocrine diseases, emergency care, pharmacology of endocrine drugs. International clinical.	internship disciplines	doctoral discipline	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	4	-	12	18	90	2	Department of internal diseases with course in gastroenterology, endocrinology, rheumatology and pulmonology	Туребеков Д.К.

Discussed and agreed on the meeting the University Committee for Quality Assurance



Catalogue of elective subjects
Specialty: "7R09138 "Medical genetics""

(residency)

2021-2022 academic year

2-course - MI - 4

1	2	3	4	5	6	7	8	9	10	11					
											amount of hours				
№	a module / discipline	module component	cycle of discipline	Course Description	Prerequisites	postrequisites	the department participating in the module	the number of credits	lecture	practice	independent work of students	independent work of student with the teacher	course (specialization / training trajectory)	responsible department for the module / discipline	Head of the department
1	Questions of molecular biology		MI	This discipline examines the mechanisms of intercellular and intracellular signal transmission, the latest molecular genetic research methods used in medicine. Regulation of the cell cycle. Mechanisms of apoptosis and carcinogenesis.	Medical genetics. Molecular biology.	Doctoral disciplines	Department of molecular biology and medical genetics	4	-	12	18	90	2	Department of molecular biology and medical genetics	Мамбетбаева Б.С.
2	Questions of modern biomedicine		MI	This discipline examines the main areas of modern medicine (regenerative, personalized, predictive), the main areas of science (gene reading, therapeutic manipulations at the level of cells and individual molecules, modern molecular genetic research methods and biomedical technologies), issues of bioethics and bioinformatics.	Medical genetics. Molecular biology.	Doctoral disciplines	Department of molecular biology and medical genetics	4	-	12	18	90	2	Department of molecular biology and medical genetics	Мамбетбаева Б.С.
3	Legal regulation of public relations in the healthcare sector	Legal status of medical professionals	MI	The course is aimed at developing legal knowledge that allows you to make legitimate decisions in situations that arise in the course of professional activity, independently give a legal assessment of cases of improper medical care and determine the possible legal consequences of such acts, to develop skills in preparing documents used in the activities of medical organizations and using legal mechanisms to protect the rights and legitimate interests of both medical workers and patients, to study the practice of considering court cases in the field of providing medical services.	Specialized disciplines of the specialty	Disciplines of magistracy, doctoral studies	Department of medical law and ethics	4	-	6	45	9	2	Department of medical law and ethics	Тлембаева Ж.У.
		Judicial practice in cases involving the provision of medical services							-	6	45	9			

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