ONTUSTIK QAZAQSTAN
MEDISINA
AKADEMIASY
«Оңтүстік Қазақстан медицина академиясы» АК

Department of Biology and Biochemistry
Department of Pathology and Forensic Medicine
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology
Department of Propaedeutics and Internal Medicine
Department "Pediatrics-1"

Working programme of the discipline "Nervous system and organs of sense and vision in pathology " (Syllabus)
Educational program 6B10115 "Medicine"

Syllabus

Department of Biology and Biochemistry
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Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology
Department of Propaedeutics and Internal Medicine
Department of Pediatrics-1

Working programme of the discipline "Nervous system and organs of sense and vision in pathology "
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1.	General information about the discipline	·Kr	2, My 3 6 10. 15 24 Wo.
1.1	Discipline code: NSOSVP 3301	1.6	Academic year: 2024-2025
1.2	Course title: Nervous system and organs of sense and vision in pathology	1.7	Course: 3
1.3	Prerequisites: General pathology, the normal nervous system and sense organs and vision	1.8	Semester: 6
1.4	Postrequisites: Diseases of the nervous system, sensory organs and vision	1.9	Number of credits (ECTS): 6 / 180
1.5	Cycle: BD	1.10	Component : UC
- 4			

2. Description of the discipline

Discipline "Nervous system and organs of sense and vision in pathology "involves studying the basics of semiotics, syndromology, the main parameters of laboratory tests, issues of etiology, pathogenesis, morphogenesis, morphology, acquiring skills in choosing medications to determine the main syndromes and symptoms in pathology of the nervous system and sensory organs and vision, which will allow the future specialist to apply the acquired knowledge for diagnosis, treatment, prevention of diseases, acquire skills in clinical thinking and research.

3.	Summative Assessment Form	600 / K	s. Mr. Jin Mr. Ar Se
3.1	☑ Testing	3.5	Coursework
3.2	Writing	3.6	Essay
3.3	Oral	3.7	Project
3.4	☑ OSPE/OSKE or practical skills assessment	3.8	Other (specify)
-/3/			

4. Objectives of the discipline

- 1. Formation of a holistic understanding of the pathology of the nervous system and sensory and visual organs, based on symptoms and syndromes, as well as on methods of their study.
- 2. Ensuring the achievement of the final learning outcomes based on the joint study of the pathology of the nervous system and sensory organs and vision in the propaedeutics of internal and childhood diseases with fundamental disciplines .
- 3. Development of clinical thinking skills based on knowledge of pathophysiological mechanisms of the course, pathological changes, complications and outcomes of diseases, physical and clinical laboratory methods of examination and selection of drugs in adults and children with the main clinical syndromes in pathology of the nervous system and sensory organs and vision .
- 4. Development of research skills through the analysis of scientific articles, analysis of experimental studies and project activities.

Final learning outcomes (LO of the discipline) LO1 Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of pathology of the nervous system and sensory organs and vision.

- Proficient in methods of conducting questioning, physical examination of adults and children, uses clinical thinking in collecting information when drawing up an examination plan; outlines the scope of basic and additional studies to clarify the syndrome of damage in pathology of the nervous system and sensory organs and vision.
- LO3 Uses clinical judgment in gathering information when interpreting morphological, laboratory And instrumental research methods patients with pathology of the nervous system and sensory organs and vision, formulates a

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041- /11 Page 2of 36

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103

Department of Propaededucs and interior

Department "Pediatrics-1"

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VI	syndromic diagnos	sis, fills out a medical history.							
LO4		Formation, ideas, problems and solutions to patients and their family members, and is proficient in logical practices when communicating with patients, their relatives and colleagues.							
LO5	morphology dise regularities deve	ological processes on organ And cellular levels, interprets data O pathophysiology And lases. With taking into account clinical data patients, does conclusions, will explain elopment complications. And outcomes pathologies of the nervous system and sensory organs are results experimental research.							
LO6	recognizes adverse	ons in accordance with the diagnosis, writes prescriptions, determines the dosage regimen, e effects of medications, predicts the development of side effects and interactions of medications s of the nervous system and sensory organs and vision.							
LO7		onal literature when working with scientific articles, completes a project, demonstrates a desire for vement of his/her activities.							
5.1	LO discipline	Learning outcomes of the EP, which are associated with the discipline LO							
JU.K.	LO 1 LO 2	LO 1 Apply fundamental knowledge in the field of biomedical, clinical, epidemiological and social-behavioral sciences in practice.							
g. egn	LO 3 LO 4	LO 2 Provides patient-centered care in the biomedical, clinical, epidemiological and social-behavioral sciences aimed at the diagnosis, treatment and prevention of the most common diseases.							
Wg.	LO 5 LO 6	LO 6 Conducts admission, diagnostics, treatment, dynamic observation and rehabilitation of pediatric and adult patients, including pregnant women, based on the principles of evidence-based medicine.							
Sho	LO7	LO 11 Analyzes the results of the conducted research and his/her professional activities based on scientific data .							
6.	Detailed information	tion about the discipline							
6.1	of SKMA, 4th								
Sgn.	building No. 2 e-mail: <u>Patan.</u>	• Location of the Department of Pathology and Forensic Medicine: Shymkent, Al-Farabi sq., 3, academic building No. 2 SKMA, 4th floor, classroom No. 404 a,b,№ 406, No. 408, No. 409, No. 411 a,b; e-mail: Patan.gisto@mail.ru							
My.	Shymkent, Al No. 421, No.	• Location of the Department of Pharmacology, Pharmacotherapy and Clinic of Pharmacology: Shymkent, Al-Farabi Ave., 1, main educational building of SKMA, 4th floor, room No. 419, No. 421, No. 425, No. 429, No. 431, No. 434, No. 417, lecture hall No. 4;							
SKI		e Department of Internal Medicine: Shymkent, clinic "ParkHealth", Kurmanbekov st., 2; 6114, e-mail: propedevtica_vb@mail.ru							

• Location of the Department of Pediatrics-1: Shymkent, Argynbekov St., 125, Regional Children's Hospital;

Practical. les.

48

Lab.

SIWT

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e-mail: ped.rez@mail.ru

Study plan for the discipline

Lectures

12

Number of hours

6.2

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АСАDEMY АО «Южно-Казахстанская медицинская академия» «Оңтүстік Қазақстан медицина академиясы» АҚ

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041-/11 Page 3of 36

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7.	Information about teach	chers	ch vo. 60 11 1
No.	Full name	Degrees and Position	Email address
	10. 10 ch. "	Department of Biology and Biochemistry	2. M. Jin M. M.
1	Kenzhebekov P.K.	Candidate of Chemical Sciences, Professor	kenzhebekov.p@gmail.com
2	Ordabekov A.B.	Master of Biology, Senior Lecturer	asmira75@mail.ru
3	Asylbekova G.K.	Master of Biology, Senior Lecturer	shahats@mail.ru
4	Kanzhiritova M.Zh.	Master of Biology, Senior Lecturer	Molya_1503@mail.ru
5	Zhienbayeva A.A.	Master of Biology, Senior Lecturer	alia.zhienbaeva@mail.ru
	2, 14, 50, 10.	Department of Pathology and Forensic Medicir	ne di constituti
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AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ **ACADEMY**AO «Южно-Казахстанская медицинская академия»

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SKMA

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041-/11 Page 4of 36

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SKMA SOUTH KAZAKHSTAN «Оңтүстік Қазақстан медицина академиясы» АҚ

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041- /11 Page 5of 36

Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus) Educational program 6B10115 "Medicine"

7.KJ	1 St Knows	so gn. Kr	sk Rug. Jiso VIII. KT	SKI,	hours	learning technologies	methods
10.6 10.6 14.0	Propaedeutics of internal diseases Lecture 1	Methods of research of patients with pathology of the nervous system. Diagnostic value.	The method of questioning complaints, the anamnesis of the disease and the life of a patient with a pathology of the nervous system; The method of external and local examination of a patient with a pathology of the nervous system. General symptomatology of nervous system damage. Methods of examination of neurological status in adults: examination, palpation, determination of tendon reflexes.	LO2	skus du.k	Overview lecture	Quick poll Feedback
SAL	Propaedeutics of internal diseases Practical lesson 1	Methods of research of patients with pathology of the nervous system. Diagnostic value.	The method of questioning complaints, the anamnesis of the disease and the life of a patient with a pathology of the nervous system; The method of external and local examination of a patient with a pathology of the nervous system. General symptomatology of nervous system damage.	LO2 LO3 LO4	3	Discussion of the practical lesson topic, solving situational problems, learning and performing practical skills	Oral interview checklist, assessment of practical skills
in.	Propaedeutics of internal diseases SIWT/SIW 1	Instrumental research methods for patients with diseases of the nervous system.	Instrumental research methods for patients with diseases of the nervous system.	LO3 LO5	1/6	Preparation and protection of presentation.	Checklist
341 341	Pathological physiology. Lecture 1	Etiology and pathogenesis of nervous disorders	General etiology and pathogenesis of nervous disorders. Pathology of the neuron. Generator of pathologically increased excitation, pathological determinant, pathological system. Typical pathological processes in the nervous system. Clinical significance	LOI	sku us o	Overview lecture	Quick poll Feedback
4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Pathological physiology. Practical lesson 1	Etiology and pathogenesis of nervous disorders	General etiology and pathogenesis of nervous disorders. Pathology of the neuron. Generator of pathologically increased excitation, pathological determinant, pathological system. Typical pathological processes in the nervous system. Clinical significance	LO3 LO5		Work in small groups, discussion of the topic, case - study	Checklist

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041-/11 Page 6of 36

edu	Pathological physiology. SIWT/SIW 1	Convulsive syndrome	Convulsions, concept, types. Causes and mechanisms of development of convulsive syndrome, manifestations. Clinical significance	LO3 LO5	1/4	Case study	Checklist
3	Pathological anatomy . Lecture 1	Cerebrovascular diseases	Hemorrhagic and ischemic stroke. Etiology, pathogenesis, morphogenesis, pathological anatomy, complications, outcome, causes of death. Clinical significance	LO1	1 du k	Overview lecture	Quick poll Feedback
0.ed	Pathological anatomy . Practical lesson 1	Cerebrovascular diseases	Hemorrhagic and ischemic stroke. Etiology, pathogenesis, morphogenesis, pathological anatomy, complications, outcome, causes of death. Clinical significance	LO3 LO5	ALUS ALUS	Discussion of the topic, description of macro- and micropreparat ions with a conclusion, case - study	Checklist
KUC SKI	Pathological anatomy . SIWT/SIW 1	Degenerative changes in the brain	Alzheimer's disease. Etiology, pathogenesis, morphogenesis, pathological anatomy, complications, outcome, causes of death. Clinical significance	LO3 LO5	1/4	Case study	Checklist
gieg gni	Biochemistry Practical lesson 1	Neurotransmitters: their synthesis, regulation, and role in pathologies of the nervous system.	Neurotransmitters: their synthesis, regulation, and role in pathologies of the nervous system.	LO3 LO5	1 2 5 K	Overview lecture	Quick poll Feedback
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Propaedeutics of children diseases Lecture 1	Healthy child. Stages of childhood and features of each.Features of the development of the nervous system in children of different ages. Basic research methods	Morphological and functional features of the child's brain. Growth and differentiation of CNS structures. Timing of the formation and extinction of the basic reflexes of newborns. Patterns of formation of motor activity.	LO1	Sku is in in	Overview lecture	Quick poll Feedback
NO THE	Propaedeutics of children diseases Practical lesson 1	Healthy child. Stages of childhood and features of each. Features of the development of the nervous system in children of different ages.	Factors affecting neuropsychiatric development. Methodology for assessing the neuropsychiatric development of a newborn, a child of the first year of life, children over three year and older children. Examination of the newborns. Assessment of head size, large	LO3 LO5	Wa:	Discussion of the practical lesson topic, solving situational problems, learning and performing practical	Checklist

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041-/11 Page 7of 36

Department "Pediatrics-1" Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus) Educational program 6B10115 "Medicine"

KI	1 SKNOW	Basic research methods	fontanel and suture condition. Assessment of the condition of 12 pairs of cranial nerves.	SKU	Wg.	skills	1 5 skm
9.6	Propaedeutics of children diseases SIWT/SIW 1	Peculiarities of sensory organs development.	Development, age-related features of sensory organs. Types of sensitivity	LO3 LO5	1/4	Preparation and protection of presentation.	Checklist
5	Pharmacology Lecture 1	Drugs affecting the central nervous system. Psychotropic drugs.	Classification of drugs. Mechanism of action. Main pharmacological effects. Indications, contraindications. Comparative characteristics of drugs and use. Features of use in children.	LOI	1 v	Overview lecture	Quick poll Feedback
ig.	Pharmacology Practical lesson 1	Psychotropic drugs. CNS depressants.	CNS depressants (neuroleptics, tranquilizers, normothymic drugs, sedatives). Classification. Mechanism of action. Main pharmacological effects. Indications for use, contraindications. Comparative characteristics of drugs. Features of use in children.	LO3 LO5	1.K1	Work in small groups, discussion of the topic, case - study	Checklist
1. edi	Pharmacology SIWT/SIW 1	Medicines used in diseases of the nervous system. Antiepileptic drugs. Antiparkinsonian drugs.	Classification. Mechanism of action. Main pharmacological effects. Conservative treatment of epilepsy. Advantages of modern antiepileptic drugs, features of use in children. Drugs used in Parkinsonism.	LO3 LO5	1/2	Discussion of the topic, presentation defense, essay, analysis of scientific articles, glossary	Checklist
	Biochemistry Practical lesson 2	Metabolic disorders in mental illnesses.	Metabolic disorders in mental illnesses.	LO3 LO5	VI du	KT 34 34	Checklist
1.11	Biochemistry SIWT/SIW 1	"Biochemical aspects of pathology of the nervous system, sensory organs and vision."	"Biochemical aspects of pathology of the nervous system, sensory organs and vision."	LO3 LO5	1/7	ug'egn'k	Checklist
67	Propaedeutics of internal diseases Lecture 2	The leading clinical syndromes (meningeal) in neurology. Diagnostic value.	The principles of questioning, anamnesis collection, and an objective method of examining patients with leading clinical syndromes (meningeal) of the nervous system.	LO2	70.14 11.14	Overview lecture	Quick poll Feedback
KL	Propaedeutics of internal diseases Practical lesson 2	Methods of examination of neurological status in adults.	Methods of examination of the neurological status in adults: examination, palpation, determination (physiological	LO2 LO3 LO4	3.3	Discussion of the practical lesson topic, solving	Checklist

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041- /11 Page 8of 36

Working programme of the discipline "Nervous system and organs of sense and vision in pathology " (Syllabus) Educational program 6B10115 "Medicine"

edu	MYNY SKUS	Kus signiki sorginiki	and pathological) of tendon reflexes (stiffness of the muscles of the occiput, Kernig's symptoms, upper and lower Brudzinsky's symptoms, Babinsky's symptom, etc.).	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Skil.	situational problems, learning and performing practical skills	70.KT KT 24.U.
sku.	Propaedeutics of internal diseases SIWT/SIW 2	Laboratory and research methods for patients with diseases of the nervous system	Laboratory methods for the study of patients with diseases of the nervous system (cerebrospinal fluid analysis).	LO2 LO3	1/6	Preparation and protection of presentation.	Checklist
17 311.K1	Pathological physiology. Lecture 2 Neurogenic movement disorders		Typical forms of neurogenic movement disorders. Hypo- and hyperkinesia, hypodynamia, ataxia, concept, types, development mechanisms, manifestations. Clinical significance	LO1	KW9	Overview lecture	Quick poll Feedback
KT SKU	Pathological physiology. Practical lesson 2	Neurogenic movement disorders	Typical forms of neurogenic movement disorders. Hypo- and hyperkinesia, hypodynamia, ataxia, concept, types, development mechanisms, manifestations. Clinical significance	LO3 LO5	3	Work in small groups, discussion of the topic, case - study	Checklist
g.ed	Pathological physiology. SIWT/SIW 2	Pathology of the sense organs and vision	Disorders of the functions of the visual, auditory, gustatory and olfactory analyzers, causes, mechanisms of development, manifestations. Clinical significance	LO3 LO5	1/4	Case study	Checklist
8	Pharmacology Practical lesson 2	Psychotropic drugs. CNS stimulants.	CNS stimulants (antidepressants, psychostimulants, nootropics, adaptogens). Classification. Mechanism of action. Main pharmacological effects. Indications for use, contraindications. Comparative characteristics of drugs. Features of use in children.	LO3 LO5	eku egn	Work in small groups, discussion of the topic, case - study	Checklist
13.64 3kUs 1	Pharmacology SIWT/SIW 2	Principles of drug therapy for depressive syndrome. Border control № 1	The main group of drugs for the treatment of depression are antidepressants. Neuroleptics, tranquilizers, sleeping pills for depressive syndrome. Topics of lectures, practical classes, independent work, covered during 1-8 days of training	LO1 LO2 LO3 LO4 LO5 LO6	1/6 111. 111. 111. 111. 111.	Integrated monitoring of educational achievements using control training cases, testing	Checklist

«Оңтүстік Қазақстан медицина академиясы» АҚ

SKMA MEDICAL ACADEMY

АСАDEMY АО «Южно-Казахстанская медицинская академия»

Department of Biology and Biochemistry
Department of Pathology and Forensic Medicine
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology
Department of Propaedeutics and Internal Medicine
Department "Pediatrics-1"

041- /11 Page 9of 36

Working programme of the discipline "Nervous system and organs of sense and vision in pathology " (Syllabus) Educational program 6B10115 "Medicine"

edu	Pathological anatomy . Lecture 2	Inflammatory diseases of the brain	Meningitis, encephalitis. Etiology, pathogenesis, morphogenesis, pathological anatomy, complications, outcome, causes of death. Clinical significance	LO1	mb.	Overview lecture	Quick poll Feedback
1 X 3 X 3 X 3 X 3 X 3 X 3 X 3 X 3 X 3 X	Pathological anatomy . Practical lesson 2	Inflammatory diseases of the brain	Meningitis, encephalitis. Etiology, pathogenesis, morphogenesis, pathological anatomy, complications, outcome, causes of death. Clinical significance	LO3 LO5	3.43	Discussion of the topic, description of macro- and micropreparat ions with a conclusion, case - study	Checklist
ing. Equ	Pathological anatomy . SIWT/SIW 2	Tumors of the central nervous system	Tumors of the nervous system and peripheral nerves. Etiology, pathogenesis, morphogenesis, pathological anatomy, complications, outcome, causes of death. Clinical significance	LO3 LO5	1/4	case - study	Checklist
10	Propaedeutics of internal diseases Lecture 3	The leading clinical syndromes (disorders of cerebral circulation) in neurology. Diagnostic value.	Principles of questioning, anamnesis collection, and an objective method of examining patients with leading clinical syndromes (disorders of cerebral circulation) of the nervous system.	LO2		Overview lecture	Quick poll Feedback
y.eq.	Propaedeutics of internal diseases Practical lesson 3	The leading clinical syndromes (meningeal) in neurology. Diagnostic value.	The principles of questioning, anamnesis collection, and an objective method of examining patients with leading clinical syndromes (meningeal) of the nervous system.	LO2 LO3 LO4	1	Discussion of the practical lesson topic, solving situational problems	Checklist
1×1	Propaedeutics of internal diseases SIWT/SIW 3	The leading clinical syndromes (meningeal) in neurology. Diagnostic value.	The principles of questioning, anamnesis collection, and an objective method of examining patients with leading clinical syndromes (meningeal) of the nervous system.	LO2 LO3	2/5	Preparation and protection of presentation.	Checklist
9.00	Propaedeutics of children diseases Lecture 2	Clinical syndromes in pathologies of the nervous system.	Features of damage to the nervous system in children: convulsive syndrome. meningeal syndrome, disorders of consciousness, sleep. The concept of neuroses, CNS lesions in newborns and infants.	LOI	54	Overview lecture	Quick poll Feedback
1.17	Propaedeutics of children diseases Practical lesson 2	Clinical syndromes in pathologies of the nervous system.	Principles of questioning, anamnesis collection, and an objective method of examining sick children of different age groups with neurological	LO3 LO5	30	Discussion of the practical lesson topic, solving situational	Checklist

«Оңтүстік Қазақстан медицина академиясы» АҚ

MEDICAL

ACADEMYAO «Южно-Казахстанская медицинская академия»

041-/11

Page 10of 36

Department of Biology and Biochemistry Department of Pathology and Forensic Medicine

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics and Internal Medicine Department "Pediatrics-1"

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Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus) Educational program 6B10115 "Medicine"

ug e	1 skina.	skusisquikt	disorders. Semiotics of deviations in the child's psychomotor development. Semiotics of nervous system damage. Neuropsychiatric development of children in different age periods.	, K1 K1	Wa.	problems, learning and performing practical skills	Siedniki Siedniki Kr skud
	Propaedeutics of children diseases SIWT/SIW 2	Congenital malformations and abnormalities of central nervous system.	Main causes, pathogenesis, clinical manifestations, diagnosis.	LO3 LO5	1/5	Preparation and protection of presentation.	Checklist
12	Pathological physiology. Practical lesson 3	Neurogenic sensory disturbances. Pathophysiology of pain	Typical forms and general mechanisms of sensitivity disorders. Anesthesia, hyperand hypoesthesia. Pain, types, causes and mechanisms of formation. Antinociceptive system. Clinical significance	LO3 LO5	K12.0	Work in small groups, discussion of the topic, case - study	Checklist
KL SKI	Pathological physiology. SIWT/SIW 3	Disorders of higher nervous activity. Neuroses	Pathology of higher nervous activity, types, causes, mechanisms of development and compensation, manifestations. Neuroses, concept, types, etiology. Clinical significance	LO3 LO5	1/6	Case study	Checklist
s'edi	Biochemistry Lecture 1	Biochemical aspects of pathology of the nervous system, sensory organs and vision.	Biochemical aspects of pathology of the nervous system, sensory organs and vision	LO1	1 1 1,11	Skulgier eg	Quick poll Feedback
147. SK2	Biochemistry Practical lesson 3	Retinal biochemistry and visual pathology. Investigation of the role of rhodopsin in photoreception.	Retinal biochemistry and visual pathology. Investigation of the role of rhodopsin in photoreception.	LO3 LO5	na.	916-697-14 917-14-14	Checklist
13	Pharmacology Lecture 2	Hypnotics. Analgesics.	Hypnotics. Analgesics. Comparative characteristics of drugs. Features of use in children.	LO1	54	Overview lecture	Quick poll Feedback
1 KJ 1 KJ 3 KUS	Pharmacology Practical lesson 3	Hypnotics. Analgesics.	Hypnotics. Analgesics. Classification. Mechanism of action. Main pharmacological effects. Indications for use, contraindications. Comparative characteristics of drugs. Features of use in children.	LO3 LO5	2k	Work in small groups, discussion of the topic, case - study	Checklist

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Department of Biology and Biochemistry
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Department of Propaedeutics and Internal Medicine

Department "Pediatrics-1"

041-/11 Page 11of 36

Working programme of the discipline "Nervous system and organs of sense and vision in pathology " (Syllabus) Educational program 6B10115 "Medicine"

Skull Jugos	Propaedeutics of children diseases Practical lesson 4	Clinical syndromes in pathologies of the nervous system.	Principles of questioning, anamnesis collection, and an objective method of examining sick children of different age groups with neurological disorders. Features of clinical methods of examination of children: assessment of the level of neuropsychiatric development of the child according to age, assessment of consciousness, syndromes of rigidity of occipital muscles, Kernig, Brudzinsky symptoms.	LO3 LO5	12. 12. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	Discussion of the practical lesson topic, solving situational problems, learning and performing practical skills	Checklist
isq ₁	Propaedeutics of children diseases SIWT/SIW 3	Behavioral and emotional disorders in children.	Attention deficit disorder. Hyperactivity disorder in children	LO3 LO5	1/5	Preparation and protection of presentation.	Checklist
14	Pathological anatomy . Practical lesson 3 Pathological anatomy of organ trache anatomy of trache anatomy of trache anatomy of the sense organs of the sense organs cavity pathological anatomy of trache anatomy of the sense organs of the sense organs anatomy of trache anatomy of the sense organs of the sense organs anatomy of trache anatomy of trache anatomy of trache anatomy of the sense organs of the sense organs anatomy of the sense organs of the sense organs of the sense organs of the sense organs or trache anatomy or		Inflammatory diseases of ENT organs. Sinusitis, otitis, tracheitis, pharyngitis, laryngitis. Sialadenitis, glossitis, stomatitis. Tumors of the oral cavity. Etiology, pathogenesis, pathological anatomy, outcomes, complications, causes of death	LO3 LO5	2	Discussion of the topic, description of macro- and micropreparat ions with a conclusion, case - study	Checklist
kius giegi	Pathological anatomy . SIWT/SIW 3	Ky Skus egn k	Eye diseases: inflammatory diseases of the eye and auxiliary apparatus of the eye, retinopathy, karataract, glaucoma. Etiology, pathogenesis, pathological anatomy, outcomes, complications, causes of death	LO3 LO5	1/6	Case study	Checklist
W.	Biochemistry Practical lesson 4	Brain metabolism.	Brain metabolism. A nervous impulse. Molecular mechanisms of synaptic transmission.	LO3 LO5	1	egn'yn'r	Checklist
15	Propaedeutics of internal diseases Practical lesson 4	The leading clinical syndromes (disorders of cerebral circulation) in neurology. Diagnostic value.	Principles of questioning, anamnesis collection, and an objective method of examining patients with leading clinical syndromes (disorders of cerebral circulation) of the nervous system.	LO2 LO3 LO4	37	Discussion of the practical lesson topic, solving situational problems	Checklist
1.1.1.	Propaedeutics of internal diseases SIWT/SIW 4	Methods of examination of neurological status in adults.	Methods of examination of the neurological status in adults: examination, palpation, determination (physiological and pathological) of tendon	LO4	1/4	Assimilation and implementation of practical skills.	Checklist

«Оңтүстік Қазақстан медицина академиясы» АҚ

MEDICAL

ACADEMY AO «Южно-Казахстанская медицинская академия»

for fundamental inaccuracies

Department of Biology and Biochemistry Department of Pathology and Forensic Medicine

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Department "Pediatrics-1"

Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus) Educational program 6B10115 "Medicine"

041- /11 Page 12of 36

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M.KT Skurg.	igiegni Socini	edu.kl	muscles of the symptoms, u Brudzinsky's Babinsky's sy	ne occiput, Kernig's pper and lower symptoms, ymptom, etc.).	KL	Sku	rwgieg	in Ko	1 SKM
Pharmacology Practical lesson 4	Modern methods of treatment of ischemic and hemorrhagic stroke.		stroke. Mode treatment of hemorrhagic Pharmacothe			group discussion the top	s, on of oic,	Checklist	
Pharmacology SIWT/SIW 3	drugs. G principle pharmac of menir	eneral es of otherapy agitis.	principles of of meningitis Topics of lecclasses, indecovered dur	pharmacotherapy tures, practical pendent work,	LO3 LO4 LO5	SKUO	Integrated monitoring of educational achievements using control training cases, testing		Checklist
Interim assessmer	nt 9	H 100	60 7/1/-	1 4 0	0		1 5	W	18 hours
Teaching method	ds	Ch V	3. 60.11	it is the	3.	900	The same	2,	100
Lectures	11.	Kill	Overvi	ew lectures	1	1.0	10. KT	5	1100
Practical classes	o du je	12 5	of mac	ro- and microprepar	ations	with co	nclusion	8 11	CA, a
SIWT/SIW	2.0), Kr	C ase -	study, analysis of s	cienti	fic artic	les, projec	t imple	ementation \
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		Ma S	701.	ch war	egu	Good		71,	Excellent
and understanding basics of semiotic syndromology, eti pathogenesis and morphogenesis of pathology of the n	g of the s and iology,	basics of semiotics syndromology, doe identify symptoms syndromes. 2. Cannot explain etiology, pathogen and morphogenesi pathological chang the nervous system		basic understanding of semiotics and syndromology makes gross errors determining symptoms and syndromes in pathologies of the nervous system ar	synin synin syn dd production ar a gant ar a g	semiotindromo can id sympto syndro 2. Expli etiol eathoger	nding of ics and logy, and entify ms and omes. ains the ogy, nesis and enesis of ogical	ser sync ind do syn 2. Fr the pathe morp pathole	fluent basics miotics and dromology, dependently etermines inptoms and orndromes. eely explains e etiology, ogenesis and ohogenesis of ogical change the nervous
	Pharmacology SIWT/SIW 3 Interim assessment Teaching method Lectures Practical classes SIWT/SIW Midterm Evaluation criter Criteria for asses Name of lear outcomes Demonstrates known and understanding basics of semiotic syndromology, et pathogenesis and morphogenesis of pathology of the r system and sensor	Practical lesson 4 treatment ischemic hemorth Pharmacology SIWT/SIW 3 drugs. Grapharmaco of mening pharmaco of mening and treating methods Lectures Practical classes SIWT/SIW Midterm Evaluation criteria Criteria for assessing the manage outcomes Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of pathology of the nervous system and sensory organs	Pharmacology Practical lesson 4 Pharmacology SIWT/SIW 3 Pharmacology SIWT/SIW 3 Pharmacology SIWT/SIW 3 Neurological drugs. General principles of pharmacotherapy of meningitis. Border control № 2 Interim assessment Teaching methods Lectures Practical classes SIWT/SIW Midterm Evaluation criteria Criteria for assessing the results of the Name of learning outcomes Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of pathology of the nervous system and sensory organs and wision Modern methods of treatment of ischemic and hemorrhagic stroke. Neurological drugs. General principles of pharmacotherapy of meningitis. Border control № 2 Interim assessment Teaching methods Lectures Practical classes SIWT/SIW Midterm Evaluation criteria Criteria for assessing the results of the basics of semiotics and syndromology, etiology, and morphogenesis of pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and morp pathologic the nervous system and sensory organs and mo	Pharmacology Practical lesson 4 Pharmacology Practical lesson 4 Pharmacology SIWT/SIW 3 Interim assessment Teaching methods Lectures Practical classes SIWT/SIW C ase- Practical classes Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of practical classes Pharmacology Modern methods of Principles of stroke. Mode treatment of hemorrhagic Pharmacothe cerebrovascu Principles of of principles of of meningitis. Topics of lec classes, inde covered duritraining Topics of lec classes, inde covered duritraining	Practical lesson 4 treatment of ischemic and hemorrhagic stroke. Pharmacology SIWT/SIW 3 Murological drugs. General principles of pharmacotherapy of meningitis. Border control Note 2 Topics of lectures, practical classes, independent work, covered during 9-16 days of training Interim assessment Teaching methods Lectures Overview lectures Practical classes Work in small groups , disc of macro- and microprepars. SIWT/SIW C ase - study , analysis of semiotics and syndromology, etiology of the nervous system and sensory organs and vision sense organs and vision stroke. Modern methods of treatment of ischemic and hemorrhagic stroke. Pharmacotherapy of cerebrovascular disorders. Neurological drugs. General principles of pharmacotherapy of meningitis. Topics of lectures, practical classes, independent work, covered during 9-16 days of training Overview lectures Work in small groups , disc of macro- and microprepars. C ase - study , analysis of se ducational cases , testing. Evaluation criteria Criteria for assessing the results of the discipline Name of learning outcomes Demonstrates knowledge and understanding of the basics of semiotics and syndromology, does not identify symptoms and asyndromology symptoms and and syndromology symptoms and syndromose in pathological changes in the nervous system and sensory organs an vision.	Pharmacology Practical lesson 4 Treatment of ischemic and hemorrhagic stroke. Pharmacology SIWT/SIW 3 Pharmacology of meningitis. Border control № 2 Practical classes Paractical classes Practical classes	Pharmacology Practical lesson 4 Modern methods of treatment of ischemic and hemorrhagic stroke. Pharmacotherapy of cerebrovascular disorders.	Pharmacology Practical lesson 4 Modern methods of Principles of drug therapy for stroke. Modern methods of treatment of ischemic and hemorrhagic stroke. Modern methods of treatment of ischemic and hemorrhagic stroke. Modern methods of treatment of ischemic and hemorrhagic stroke. Pharmacotherapy of cerebrovascular disorders. Pharmacology SIWT/SIW 3 Neurological drugs. General principles of pharmacotherapy of meningitis. Neurological drugs. General principl	reflexes (stiffness of the muscles of the occiput, Kernig's symptoms, upper and lower Brudzinsky's symptom, etc.). Pharmacology Practical lesson 4 treatment of ischemic and hemorrhagic stroke pharmacotherapy of cerebrovascular disorders. Pharmacology SIWT/SIW 3 drugs, General principles of pharmacotherapy of meningitis. Pharmacotherapy of meningitis. Border control Ne 2 treatment of ischemic and hemorrhagic stroke pharmacotherapy of meningitis. Border control Ne 2 treatment of ischemic and hemorrhagic stroke. Pharmacotherapy of cerebrovascular disorders. Neurological drugs, General principles of pharmacotherapy of meningitis. Topics of lectures, practical LO3 using control training cases, independent work, covered during 9-16 days of training Interim assessment Teaching methods Lectures Overview lectures Overview lectures Practical classes Overview lectures Overview lectures Teaching methods Lectures Overview lectures Teaching methods Lectures Overview lectures Overview lectures Teaching methods Lectures Overview lectures Overview lectures Teaching methods Lectures Overview lectures Teaching methods Lectures Overview lectures Overview lectures Teaching methods Lectures Overview lectures Teaching methods Lectures Overview lectures Overview lectures Teaching methods Lectures Teaching methods Lectures Teaching methods Lectures Overview lectures Teaching methods Lectures Teaching

SKMA SOUTH KAZAKHSTAN MEDICAL

OÑTÚSTIK QAZAQSTAN **MEDISINA AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ **ACADEMY** AO «Южно-Казахстанская медицинская академия»

Department of Biology and Biochemistry Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

Department of Propaedeutics and Internal Medicine Department "Pediatrics-1"

Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus) Educational program 6B10115 "Medicine"

041-/11 Page 13of 36

K	2 St. Myo Sign 9/11:	1 5K W3.	and sense organs and vision	Kulgie Egn	1.K 2 2400
LO2	Has knowledge of methods of conducting questioning, physical examination of adults and children, uses clinical thinking in collecting information when drawing up an examination plan; outlines the scope of basic and additional studies to clarify the syndrome of damage in pathology of the nervous system and sensory organs and vision	1. Does not know the basic physiological processes of the nervous system and the organs of sense and vision, does not understand the regulation of the nervous system.	1. Makes mistakes in describing the basic physiological processes of the nervous system and the organs of sense and vision, in explaining the regulation of the nervous system. 2. He can explain the mechanisms of the nervous system and the organs of sense and vision with errors.	1. Characterizes the basic physiological processes of the nervous system and the senses and vision, understands the regulation of the nervous system and the functions of the senses and vision. 2. Can fully explain the mechanisms of the nervous system and the process of sensory organs and vision	sensory organs and vision, deeply
LO 3	Uses clinical thinking in collecting information when interpreting the results of morphological, laboratory and instrumental methods of examining patients with pathology of the nervous system and sensory organs and vision, formulates a syndromic diagnosis, fills out a medical history	1. Does not know the main metabolic pathways affecting the nervous system and the functions of the senses and vision. 2. Does not understand the biochemical processes related to the nervous system and the organs of sense and vision.	1. They do not fully know the main metabolic pathways that affect the functioning of the nervous system and the organs of sense and vision. 2. Poorly understands the biochemical processes related to the nervous system and the organs of sense and vision.	metabolic pathways that affect the functioning of the nervous system and the organs of sense and vision. 2. Understands well the biochemical processes related to	1. Possesses clinical thinking skills, uses knowledge in collecting information when interpreting the results of morphological, laboratory and instrumental research methods for patients with pathologies of the nervous system and sensory and visual organs. 2. Formulates a syndromic diagnosis, fills out a medical history. 3. Effectively solves situational problems
LO 4	Communicates information, ideas, problems and solutions to patients and their family members, and is proficient in ethical and deontological practices when interacting with patients, their relatives and colleagues	and physical examination	examinations of	Lists information about the nervous system in a clinical context, collects clinical anamnesis and physical examinations of patients with diseases of the nervous system with	He freely demonstrates knowledge about the nervous system in a clinical context, collects clinical anamnesis and physical examinations of

«Оңтүстік Қазақстан медицина академиясы» АҚ

SKMA SOUTH KAZAKHSTAN MEDICAL

ACADEMYAO «Южно-Казахстанская медицинская академия»

Department of Biology and Biochemistry Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics and Internal Medicine Department "Pediatrics-1"

041-/11 Page 14of 36

Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus) Educational program 6B10115 "Medicine"

ina.es	in iki khus eqrani	interpret the results of laboratory and instrumental studies	for first aid with errors, is poorly oriented in interpreting the results of laboratory and instrumental studies.	first aid, is well- versed in interpreting the results of laboratory and instrumental studies.	diseases of the nervous system with first aid, is well- versed in interpreting the results of laboratory and instrumental studies.
LO 5	Determines pathological processes at the organ and cellular levels, interprets data on the pathophysiology and morphology of diseases taking into account the clinical data of patients, makes conclusions, explains the patterns of development of complications and outcomes of pathology of the nervous system and sensory organs and vision , evaluates the results of experimental studies	1. Is unable to identify pathological processes at the organ and cellular levels, makes gross errors. 2. Cannot interpret data on the etiology, pathophysiology and morphology of diseases taking into account the clinical data of patients. 3. Makes erroneous conclusions, has poor orientation and does not explain the patterns of development of complications and outcomes of pathology of the nervous system and sensory and visual organs. 4. Is unable to evaluate the results of experimental studies and makes fundamental mistakes. 5. Incapable of solving situational problems	processes at the organ and cellular levels, but makes gross errors. 2. Cannot independently interpret data on the etiology, pathophysiology and morphology of diseases taking into account the clinical data of patients . 3. Makes erroneous conclusions , finds it difficult to independently explain the patterns of development of complications and outcomes of	organ and cellular levels. 2. Interprets data on the etiology, pathophysiology and morphology of diseases, taking into account the clinical data of patients. 3. Draws conclusions, explains the patterns of development of complications and outcomes of pathology of the nervous system and sense and visual organs. 4. Appreciates the results of experimental studies, but allows for unfundamental inaccuracies.	1. Independently identifies pathological processes at the organ and cellular levels. 2. Independently interprets data on the etiology, pathophysiology and morphology of diseases, taking into account the clinical data of patients. 3. Draws conclusions, explains the patterns of development of complications and outcomes of pathology of the nervous system and sense and visual organs. 4. Evaluates the results of experimental studies
LO 6	Selects medications in accordance with the diagnosis, writes prescriptions, determines the dosage regimen, recognizes adverse effects of medications, predicts the	1. It defines a general pharmacological group of drugs . 2. writes out a prescription with errors	1. Selects a pharmacological group of drugs by organs and systems. 2. Writes out a prescription using reference literature/	Selects medications for the treatment and prevention of the most common diseases . Writes out a	Selects drugs from various pharmacological groups in accordance with indications for use, contraindications

MEDICAL

041-/11

Page 15of 36

creative approach to completing tasks

OÑTÚSTIK QAZAQSTAN **MEDISINA AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ АСАDEMY АО «Южно-Казахстанская медицинская академия»

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Working programme of the discipline "Nervous system and organs of sense and vision in pathology " (Syllabus) Educational program 6B10115 "Medicine"

JUK SKING SK	development of side effects and interactions of medications used in pathologies of the nervous system and sensory organs and vision	JU.KL SKINA. EKINA. EKI	sources 1 2 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	prescription for the specified medication without errors . 3. Calculates the dose of the medicine	prescription for medications in the
LO 7	Analyzes professional literature when working with scientific articles, carries out a project, demonstrates a desire for continuous improvement of his/her activities	1. Does not have research skills. 2. Does not have a desire for continuous selfeducation and development	 Cannot analyze by topic of classes. Participates in the implementation of the project. Violates deadlines for completing tasks 	scientific articles on the topics of the	1. Analyzes scientific articles on the topics of the lesson. 2. And uses international databases at work 3. Successfully defends the completed project . 4. Demonstrates motivation for independent work,

10.2 Criteria for assessing teaching methods and technologies

Letter Grading	Digital equivalent of points	Percentage content	Traditional system assessment
A	4.0	95-100	Excellent
A-	3.67	90-94	40, 60, 40, 11, 12, 34,
B +	3.33	85-89	Good
В	3.0	80-84	4. vs. comit
B -	2.67	75-79	KILL ST. SQL. KI
C+	2.33	70-74	2, KU, 3' 9' 40. K
CC	2.0	65-69	Satisfactorily
C -0	1.67	60-64	· M SK War Er
D+	1.33	55-59	17. 15 ch. 39. 60
D-	91.0	50-54	3 11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
FX	0,5	25-49	Unsatisfactory
SF C	0 0	0-24	2 - 90. Kr 21. We

Checklist for assessing a lesson	V/F) V,O,	00			1/1/	2.	- Vo.		2	
Form of control Grade	2. 14.		YO.	Ev	aluatio	n criter	ia	11.	1.	4

SKMA SOUTH KAZAKHSTAN MEDICAL

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Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus) Educational program 6B10115 "Medicine"

041-/11 Page 16of 36

Work in small groups (implementation of practical work	Excellent corresponds to points 95-100 90-94	 completed the practical work on time and without any errors and submitted a report on it; took an active part in the discussion research results; made a reasonable conclusion, while showing original thinking
Kus egn yen g	Good corresponds to points 85-89 80-84 75-79 70-74	 completed the practical work on time and submitted a report on it, allowing non-fundamental errors; took an active part in the discussion of the research results
YKT SKULSYNS	Satisfactorily corresponds to points 65-69 60-64 50-54	 completed the practical work on time and submitted a report on it, allowing fundamental errors; was not active during the discussion, needed help teacher
19.59711/KJ	Unsatisfactory corresponds to points 25-49 Unsatisfactory	 failed to submit the report on time practical work, made gross mistakes, did not complete all the practical work, provided by the program; did not take part in the discussion of the results of the work
Kusis segnin	corresponds to points 0-24	Son in the sexual second in the sexual second
Case - study	Excellent corresponds to points 95-100 90-94	solved cases within a certain time;gave full answers to all questions
	Good corresponds to points 85-89 80-84 75-79 70-74	 solved cases within a certain time; gave complete answers to all questions; when solving cases made minor mistakes
skus egn.	Satisfactorily corresponds to points 65-69 60-64 50-54	 solved cases within a certain time; gave incomplete answers to questions; made fundamental mistakes when solving cases
KI SE KUU	Unsatisfactory corresponds to points 25-49	 solved cases incorrectly or did not solve them at all; made gross mistakes when solving cases
edu.K.V.	Unsatisfactory corresponds to points 0-24	1 2. 2Kurusis egniniki zikusisisi enginiki
Work in small groups (and interpretation of clinical	Excellent corresponds to points 95-100 90-94	 correctly, without any errors, interpreted the results of clinical laboratory tests; made a reasoned conclusion
laboratory test results)	Good corresponds to points 85-89 80-84	 correctly interpreted the results of clinical laboratory tests, making minor errors; made a reasoned conclusion

OŃTÚSTIK QAZAQSTAN MEDISINA

SOUTH KAZAKHSTAN
MEDICAL

АКАDEMIASY
«Оңтүстік Қазақстан медицина академиясы» АҚ
АО «Южно-Казахстанская медицинская академия»

Department of Biology and Biochemistry

SKMA

Department of Pathology and Forensic Medicine

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics and Internal Medicine

Department "Pediatrics-1"

Working programme of the discipline "Nervous system and organs of sense and vision in pathology " (Syllabus) Educational program 6B10115 "Medicine"

041- /11 Page 17of 36

KI SK MO	75-79 70-74	Mg. g. squirity of skilling of squirity of skilling			
edu.kl s. sk	Satisfactorily corresponds to points 65-69 60-64 50-54	 correctly interpreted the results of clinical laboratory studies, having made fundamental mistakes; made an unfounded conclusion 			
etusis edu	Unsatisfactory corresponds to points 25-49	 incorrectly interpreted the results of clinical laboratory tests, making gross errors; did not draw a conclusion 			
1 SKULOUS	Unsatisfactory corresponds to points 0-24	us eggnikry s skurus egnikry s skugs.			
Discussion of the topic	Excellent corresponds to points 95-100 90-94	 did not make any mistakes during the discussion; was oriented in the theories, concepts and directions of the discipline and gave them a critical assessment; used scientific achievements of other disciplines 			
Skus egn k	Good corresponds to points 85-89 80-84 75-79 70-74	 during the discussion he did not make any gross mistakes, but he did make inaccuracies and minor errors, which he corrected himself; managed systematize the program material with the help of the teacher 			
miki ki skusi	Satisfactorily corresponds to points 65-69 60-64 50-54	 made fundamental mistakes during the discussion; limited himself to only the educational literature specified by the teacher; experienced Excellent difficulty in systematizing the material 			
siegnyniky	Unsatisfactory corresponds to points 25-49	 made gross mistakes during the discussion; did not study the basic literature on the topic of the lesson; failed to use the scientific terminology of the discipline 			
Way Ser San.	Unsatisfactory corresponds to points 0-24	gniky z zkurusi egniky z zkurusi egni.			
Testing	Excellent corresponds to points 95-100 90-94	- correctly completed 90-100% of test tasks			
3.edu.k7 ski	Good corresponds to points 85-89 80-84 75-79 70-74	- did it correctly 70-89% of test tasks			
Skulgieg	Satisfactorily corresponds to points 65-69 60-64 50-54	- did it correctly 50-69% of test tasks			

041-/11

Page 18of 36

Department of Biology and Biochemistry
Department of Pathology and Forensic Medicine

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology
Department of Propaedeutics and Internal Medicine

Department "Pediatrics-1"

Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus)
Educational program 6B10115 "Medicine"

Unsatisfactory corresponds to points 25-49
Unsatisfactory

corresponds to points 0-24

- performed less correctly 50% of test tasks

Checklist for assessing answers to descriptions of macropreparations

No.	Evaluation Criteria/Evaluation	Excellent	Good	Satisfactory	Unsatisfactory
1	Name of the organ	4	1 3	2 2	SK10 0.
2	Organ size	10	1. 1. 2 st	5	V 0 Km
3	Surface: condition of the capsule or serous membrane, dullness, shine, overlap	Skulus	edu. 1XI	1 5km2.00	SULL 10 3
40	Characteristics of the pathological focus: Localization, size, shape (if ulcer - condition of the bottom), color, consistency	1. K. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Skilly Sign	2 9 9 9	0
5	Pathological diagnosis/conclusion	Mar EggM	it of sky	13. 6911.11	1 Sk. Klyo
6	Total	20	15	10	1 6 KU

Checklist for assessment answers on the description of m and cropreparations

No	Evaluation Criteria/Evaluation	Excellent	Good	Satisfactory	Unsatisfactory
1	Name of an organ or tissue	X 4 9	3	1 2 9	0 0
2	Characteristics of pathological changes: localization, description	10	3K1 70.0	edu 17 1	SKULO OS EGIT
3	Coloring	1 7/1	15 B		1 60 0
4	Pathological diagnosis/conclusion	5	14 5	2000	1 03k W
5	Total	20	15	10	D. KO S.

Checklist for assessment answers on writing prescriptions

Prescription writing	Excellent Corresponds to ratings: A (4.0; 95-100%); A- (3.67; 90-94%)	Writes out a prescription for medicines in the most appropriate dosage form depending on age, gender, and functional characteristics. Writes out a prescription for the selected medicine without errors. Calculates doses using various methods and determines the frequency and duration of use of the medicine.
Sking.	Good Corresponds to ratings: B+ (3.33; 85-89%) B (3.0; 80-84%)	Writes out a prescription for the selected medication without errors. Calculates the dose of the medicine. Limited to general indications "Internal", "External".
7 3 W	B- (2.67; 75-79%)	14 7 5 40. 15 34 419, 60 111. 1 5

ACADEMY

АО «Южно-Казахстанская медицинская академия» «Онтустік Казакстан медицина академиясы» АК

Department of Biology and Biochemistry Department of Pathology and Forensic Medicine

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics and Internal Medicine

Department "Pediatrics-1"

Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus) Educational program 6B10115 "Medicine"

041-/11 Page 19of 36

1 5k /200	C+ (2.33; 70-74%)	31, Wg. 5600	Mik KJ SKILLING	3. 690 Mily 1 3. 9
. 6 6 6 6 7 . K. J. 6 K. J. 6 K.	Satisfactorily Corresponds to ratings: C (2.0; 65-69%) C- (1.67; 60-64%) D+ (1.33; 55-59%) D- (1.0; 50-54%)			iterature/sources. Allows
Skug. 600	Unsatisfactory FX (0.5 ; 2.5-4.9 %) F (0; 0- 2 4%)	Writes out a presc	ription with errors.	"INKY SKING"
necklist for asses	sing the analysis of scien	tific articles	Ky 2 My Vi	10. Kr 24. 4
Score in points	49%)	Satisfactory (65- 54%)	Good (70-89%)	Excellent (90-100%)
Evaluation crite	eria	7 24 Mg. 6	690:1KT 3K	TWO 3'60, 911, KT
Structure of	the 1. Does not name the	1. Does not follow	1. Lists the structural	1. Observes the order of the

Skuller of the	Insatisfactory FX (0.5 ; 2.5-4.9 %) F (0; 0- 2 4%)	Writes out a prescr	ripuon with errors.	STIKE SERVING OF
Score in points by % Evaluation criteria	49%)	Satisfactory (65- 54%)	Good (70-89%)	Excellent (90-100%)
Structure of the article	1. Does not name the structural components of a scientific article	1. Does not follow the order of the structure of the scientific article when listing, skips components	Lists the structural components of a scientific article, but violates the order of the structure	1. Observes the order of the structure of a scientific article when listing: - Name - Authors - Publishing house - Summary - General part (introduction, purpose, materials and methods results and discussion) - Conclusions - Bibliography
Analysis of the content of a scientific article		1. Understands the relevance of the problem 2. Lists the purpose of the work, the materials and methods used in the work 3. Understands the content of a scientific article 4. Lists the conclusions and bibliography in this article	1. Assumes the relevance of the problem 2. Explains the purpose of the work, the materials used in the work and methods presents the content of a scientific article 3. Justifies the conclusions 4. Justifies the selected list of references in this article	conclusions 5. Has the skill of using literature and justifies the

MEDICAL ACADEMY

AKADEMIASY
«Оңтүстік Қазақстан медицина академиясы» АҚ
«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Biology and Biochemistry
Department of Pathology and Forensic Medicine
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

041-/11 Page 20of 36

Department of Propaedeutics and Internal Medicine
Department "Pediatrics-1"

Working programme of the discipline "Nervous system and organs of sense and vision in pathology " (Syllabus)

Educational program 6B10115 "Medicine"

Answer to additional questions (on the topic of the article for the discipline)	1. Does not answer additional questions on the topic	1. Does not understand the problem at hand when answering additional questions	1. Apply the knowledge gained during the practical lesson on the topic when answering additional questions	1. Applies the knowledge gained during the practical lesson on the topic when answering additional questions, provides a deep and comprehensive argumentation
Checklist for assessme	ent of written tasks a	t midterm assessmen	7/1	17 8k, 40, 60, 11
Form control	Grade). 690. 1X	Evaluation	criteria
Written	" Excellent 90-100%		nas not made any mista inology of the subject.	akes in answering, he can use the

Form control	Grade	Evaluation criteria
Written	" Excellent " 90-100%	If the student has not made any mistakes in answering, he can use the scientific terminology of the subject. It focuses on the pharmacological classification and nomenclature of medicines. Provides pharmacological characteristics of medicines. Compares drugs in pharmacological groups and offspring according to pharmacokinetic and pharmacodynamic parameters. Prescribes medications.
skus egn ky	" Good " 70-89%	If the student has not made any mistakes in answering, he can use the scientific terminology of the subject. It focuses on the pharmacological classification and nomenclature of medicines. It does not provide complete pharmacological characteristics of medicines. It does not compare drugs in pharmacological groups, progeny by pharmacokinetic, pharmacodynamic parameters. Prescribes medications.
na.edu.kl skina.e	"Satisfaction - remarkably » 50-69%	If a student does not make many mistakes when answering, he does not know how to use the scientific terminology of the subject. It does not focus on the pharmacological classification and nomenclature of medicines. It does not provide complete pharmacological characteristics of medicines. It does not compare drugs in pharmacological groups or generations according to pharmacokinetic and pharmacodynamic parameters. Writes prescriptions for medicines with errors.
skulgi en egnisi 1 skulgi egnisi 1 skulgi egnisi	" Unsatisfactory " 0-49%	If a student makes fundamental mistakes in answering, does not know how to use the scientific terminology of the subject, responds with gross stylistic and logical errors. It does not focus on the pharmacological classification and nomenclature of medicines. It does not provide pharmacological characteristics of medicines. It does not compare drugs in pharmacological groups or generations according to pharmacokinetic and pharmacodynamic parameters. Does not prescribe medications .

11. Educational resources

Electronic resources • Elec

- Electronic library of YUKMA https://e-lib.skma.edu.kz/genres
- Republican Interuniversity Electronic Library (RIEL) http://rmebrk.kz
- Digital library " Aknurpress " https://www.aknurpress.kz/
- Electronic library "Epigraph" http://www.elib.kz/
- Epigraph portal of multimedia textbooks https://mbook.kz/ru/index/
- EBS IPR SMART https://www.iprbookshop.ru/auth
- information and legal system "Zan" https://zan.kz/ru

Cochrane Library - https://www.cochranelibrary.com/

**Ohttyctik Qazaostan Medisina Akademiasy «Оңтүстік Қазақстан медицина академиясы» АҚ Вераrtment of Biology and Biochemistry

Department of Pathology and Forensic Medicine

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

Department of Propaedeutics and Internal Medicine

Department "Pediatrics-1"

Working programme of the discipline "Nervous system and organs of sense and vision in pathology " (Syllabus)

 Pharmacology Kharkevitch , DA Pharmacology : textbookformedicalstudents / DA Kharkevitch Electronic text given (83.9MB) M.: GEOTAR - Media, 2017 email. wholesale Disk Pharmacology: textbook / ed. bass. G. M. Pichkhadze = Pharmacology: textbook / edited by G. M. Pichkhadze Electronic text data. (43.0 Mb) M.: "Litterra", 2016. Lecture course on pharmacology for students of the dental faculty. Stikeeva R.K., Koranova T.S., 2014 https://aknurpress.kz/reader/web/1384 Aisina, R.A., Oryntaeva, M.D. Pharmacology with toxicology for the formulation section: Guidelines Kostanay: KSU named after. A. Baitursynova, 2012. http://rmebrk.kz/book/1024531 Kalieva Sh.S. Clinics of pharmacology and pharmacotherapy. Volume 2 - Okulyk / Sh.S.Kalieva, N.A. Simokhin, B.E.
Tonkabaeva. – Almaty: "Evero" basspasy, 2020. https://www.elib.kz/ru/search/read_book/2799/ 6. Ormanov N.Zh., Syrmanova N.R., Ormanova L.N. Zhalpy recipe. Zhalpy pharmacology-Almaty: Evero, 2020. https://elib.kz/ru/search/read_book/743/ 7. Stikeeva R.K. Pharmacology – 1 - textbook R.K.Stikeeva Almat Evero, 2020. https://elib.kz/ru/search/read_book/2742/ 8. Stikeeva R.K. Pharmacology-I oku kuraly Stikeeva R.K. – Almat Evero 2020. https://elib.kz/ru/search/read_book/2741/ 9. Ormanov N.Zh., Ormanova L.N. Pharmacology-1. Almaty. "Evero"
ZhS. 2020. https://elib.kz/ru/search/read_book/735/ Ormanov N.Zh., Ormanova L.N. Pharmacology-2. "Evero"
ZhS. Almaty, 2020. https://elib.kz/ru/search/read_book/736/
25. 897. 15 2K Mg 3. 60 47. KT 3K, Mg. 605, 47
Pharmacology
 Main: Pharmacology: oku kuraly = Pharmacology: textbook/G. M. Pichkhadze [t.b.] M.: "Litterra", 2016504b. Stikeeva, R. K. Pharmacology-1: okukuraly / R. K. Stikeeva Almaty: Evero, 2016 148 bet.s. Kharkevich, D. A. Fundamentals of Pharmacology: textbook M.: GEOTAR - Media, 2015 720 p. Alyautdin, R. N. Pharmacology: textbook M.: GEOTAR - Media, 2014. 704 p. ; Kharkevich, D. A. Pharmacology: okulyk M.: GEOTAR - Media, 2014. 784 bet. Rakhimov, K. D. Pharmacology: okukuraly Almaty: Zhaniya-Poligraf Housing Society, 2014 554 bet.s. Ormanov N. Zh. Pharmacology. 1-kitap:okulyk /N.Zh. Ormanov, L.N. Ormanova Almaty: Evero, 2013 656 bet.s. Ormanov, N. Zh. Pharmacology. 2-kitap: okulyk / N. Zh. Ormanov, L. N.

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2013. - 832 + el.

Department "Pediatrics-1" Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus) Educational program 6B10115 "Medicine"

Additional:

- 1. Pharmacology: nyskaulyk = Pharmacology: manual / G. M. Pichkhadze [t.b.]. - M.: "Litterra", 2017. - 640 b.
- 2. Mashkovsky M.D. Medicines. 16th edition. revised, supplemented and corrected. M. Novaya Volna. 2017. – 1216 p.
- 3. Pharmacology: a guide to laboratory classes: a textbook / edited by D. A. Kharkevich. - 6th edition, corrected and supplemented; Rec. educational and methodological association for medical and pharmaceutical education of universities in Russia. - M.: GEOTAR - Media, 2014. - 512 p.
- 4. Pharmacology of non-medicinal formulations: okulyk / M. Z. Shaidarov [f/.b.]. - Astana: Aknur, 2014. - 398 bet. With.
- 5. Fundamentals of Pharmacology with a Recipe: Textbook / M. Z. Shaidarov [et al.]. - Astana: Aknur, 2014. - 406 p.
- 6. Ormanov, N. Zh. Zhalpy recipe. Zhalpy pharmacology: okukuraly.-Shymkent: "RISO", 2013. - 76 bet.s.
- 7. Ormanov, N. Zh. Zhalpy recipe. Zhalpy pharmacology: оқикқұғаly / N. Zh. Ormanov, N. R. Syrmanova, L. N. Ormanova; KR densaulyk saktau ministerligi; OKMMA. - Almaty: Evero, 2012. - 102 bet.s.

12. Discipline Policy

Requirements for students (attendance, behavior, grading policy, penalties, incentives, etc.)

• observe medical ethics and deontology;

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- no smoking in the academy;
- maintain cleanliness in the department;
- do not damage furniture in classrooms;
- treat textbooks with care;
- maintain the appearance of a medical university student;
- observe safety regulations;
- during quarantine, wear medical masks and comply with sanitary and epidemiological regulations;
- do not miss classes without a good reason;
- classes missed for a valid reason must be made up in a timely manner, but only with permission from the dean's office and at a time determined by the teacher;
- don't be late for classes;
- have the necessary documentation in class: syllabus, methodological instructions for classes, lectures, notebook and textbook;
- prepare for classes conscientiously;
- be active during classes;
- do not engage in other activities during classes: do not talk, do not smoke, do not chew gum, do not eat food, do not use the phone, do not listen to music, do not read newspapers and magazines, do not prepare for classes in another subject;
- maintain silence and order during breaks;
- implement SIW in a timely manner.

Penalties for failure to complete sections of the work:

- If you miss lectures without a valid reason, your grade for the midterm assessment will be reduced
- − 1 point for each missed lecture;
- If you miss a SIW without a valid reason, your midterm assessment score will be reduced by 2 points for each missed lesson;
- In case of a single violation of the discipline policy, the student is given a warning;
- In case of systematic violation of the discipline policy, information about the student's behavior is transferred to the

MEDISINA

ACADEMY АО «Южно-Казахстанская медицинская академия»

041-/11

Page 23of 36

Department of Biology and Biochemistry Department of Pathology and Forensic Medicine

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

Department of Propaedeutics and Internal Medicine Department "Pediatrics-1"

Working programme of the discipline "Nervous system and organs of sense and vision in pathology" (Syllabus) Educational program 6B10115 "Medicine"

faculty dean's office.

Criteria for non-admission to final control:

A student who has received an unsatisfactory grade for one of the types of tests (M 1, /m 2, average grade of the current test) is not admitted to the final test for the discipline.

Academic policy based on the moral and ethical values of the academy

Regulations and Rules of SKMA. Academic policy.

P.4. Code of honor of the student

P.10. Organization of the educational process

P.12. Grading Policy

The final grade is calculated automatically based on the average grade of the current control, the average grade of the midterm control and the grade of the final control.

Final score (100%) = AR (60%) + FCA (40%)

AR (60%) = M avg (20%) + CC avg (40%)

M av = (M 1 + M 2): 2

Final score (100%) = M avg x 0.2 + CC avg x 0.4 + FCA x 0.4

AR – Admission Rating

FCA – final control assessment

M avg – average grade of the midterm control taking into account penalty points

CC avg – average assessment of current control taking into account SRO

M 1 – Midterm 1

M 2 –midterm 2

Date of agreement with the library and information center	14.06, 24	Head of the LIC Darbicheva R. I.	Signature 1
Date of approval for AC EP	Protocol No. 11 14 06 2024	Full name of the Chairman of the AC	Signature
Date of approval at the department	28.06 2024	Bull name of the head	Signature
Date of revision at the department	Protocol No.	Foll name of the head	Signature
Date of revision on AC EP	Protocol No. 34 Skill	Full name of the Chairman of the AC EP	Signature