Topics for clinical classes in the discipline "Neurology, neurosurgery, medical genetics" for students of higher education programme in the specialty 31.05.01 «General Medicine» (specialist programme«General Medicine»), full-time mode of study, in the 2023/2024 academic year.

№	Topic	Duration, hours
1.	Introduction to neurology. Unconditioned reflexes in normal and pathology (part 1)	2
	Introduction to neurology. Unconditioned reflexes in normal and pathology (part 2)	2
	Introduction to neurology. Unconditioned reflexes in normal and pathology (part 3)	1
2.	Motor system, peripheral and central paresis and paralysis (part 1)	2
	Motor system, peripheral and central paresis and paralysis (part 2)	2
	Motor system, peripheral and central paresis and paralysis (part 3)	1
3.	Sensory system, its pathology. Types of pain. Types of sensory disturbances (part 1)	2
	Sensory system, its pathology. Types of pain. Types of sensory disturbances (part 2)	2
	Sensory system, its pathology. Types of pain. Types of sensory disturbances (part 3)	1
4.	Symptoms of spinal cord lesions at different levels. Brown-Séquard syndrome. Extrapyramidal and cerebellar systems. Anatomy, physiology, symptoms of lesion (part 1)	1
	Symptoms of spinal cord lesions at different levels. Brown-Séquard syndrome. Extrapyramidal and cerebellar systems. Anatomy, physiology, symptoms of lesion (part 2)	2
	Symptoms of spinal cord lesions at different levels. Brown-Séquard syndrome. Extrapyramidal and cerebellar systems. Anatomy, physiology, symptoms of lesion (part 3)	2
5	Cranial nerves 1-7. Anatomy, functions, symptoms of lesion. Cerebellopontine angle lesion. Alternating syndromes (part 1)	2
	Cranial nerves 1-7. Anatomy, functions, symptoms of lesion. Cerebellopontine angle lesion. Alternating syndromes (part 2)	2

	Cranial nerves 1-7. Anatomy, functions, symptoms of lesion. Cerebellopontine angle lesion. Alternating syndromes (part 3)	2
6.	Cranial nerves 9-12, symptoms of lesions. Bulbar and pseudobulbar syndromes.Thalamus, internal capsule. Cortex. Aphasia, agnosia, apraxia. Autonomic nervous system. Symptoms of lesions (part 1)	2
	Cranial nerves 9-12, symptoms of lesions. Bulbar and pseudobulbar syndromes. Thalamus, internal capsule. Cortex. Aphasia, agnosia, apraxia. Autonomic nervous system. Symptoms of lesions (part 2)	2
	Cranial nerves 9-12, symptoms of lesions. Bulbar and pseudobulbar syndromes. Thalamus, internal capsule. Cortex. Aphasia, agnosia, apraxia. Autonomic nervous system. Symptoms of lesions (part 3)	1
7.	Symptoms of brain lobes damage.Consciousness disturbances. Hypertension syndrome. Meningeal syndrome (part 1)	2
	Symptoms of brain lobes damage. Consciousness disturbances. Hypertension syndrome. Meningeal syndrome (part 2)	2
	Symptoms of brain lobes damage. Consciousness disturbances. Hypertension syndrome. Meningeal syndrome (part 3)	1
8.	The subject and objectives of medical genetics. Heredity and pathology. Classification and semiotics of hereditary diseases, principles of diagnosis. Diagnosticmethodsinmedicalgenetics. General characteristics of chromosomal diseases. Diagnostic methods. Examples of diseases (part 1)	2
	The subject and objectives of medical genetics. Heredity and pathology. Classification and semiotics of hereditary diseases, principles of diagnosis. Diagnostic methods in medical genetics. General characteristics of chromosomal diseases. Diagnostic methods. Examples of diseases (part2)	2
9.	General characteristics of single gene diseases. Methods of diagnosis. Examples of diseases. Degrees of kindred. The dangers of related marriages. Multifactorial diseases. Interaction of hereditary and environmental factors. Geneticallydeterminedhyperlipidaemia, carbohydratemetabolismdisorders, hypertonicdisease (part 1)	2
	General characteristics of single gene diseases. Methods of diagnosis. Examples of diseases. Degrees of kindred. The dangers of related marriages. Multifactorial diseases. Interaction of hereditary and environmental factors. Genetically determined hyperlipidaemia, carbohydratemetabolism disorders, hypertonic disease (part 1)	2
10.	Prevention of hereditary diseases. Prenatal diagnosis(part 1)	2
	Prevention of hereditary diseases. Prenatal diagnosis(part 2)	2
11.	Genetic counselling. Indications and modalities of genetic counseling.	2

	Principles of treatment for hereditary diseases (part 1)	
	Genetic counselling. Indications and modalities of genetic counseling. Principles of treatment for hereditary diseases (part 2)	2
	General neurology and medical genetics tests (part 3)	1
12.	Scheme of the case history. The method of neurological status assessment. Curation of patients (part 1)	2
	Scheme of the case history. The method of neurological status assessment. Curation of patients (part 2)	2
	Scheme of the case history. The method of neurological status assessment. Curation of patients (part 3)	1
13.	Peripheral nervous system diseases. Mono- and polyneuropathies. Plexopathies, neuralgia (part 1)	2
	Peripheral nervous system diseases. Mono- and polyneuropathies. Plexopathies, neuralgia (part 2)	2
	Curation of patients (part 3)	1
14.	Vertebrogenic neurological disorders: radiculopathies and radiculoalgia. Tunnelneuropathies (part 1)	2
	Vertebrogenic neurological disorders: radiculopathies and radiculoalgia. Tunnelneuropathies (part 2)	2
15.	Infectiousandinfectious-allergicdiseasesofthenervoussystem: meningitis, encephalitis(part 1)	2
	Infectious and infectious-allergic diseases of the nervous system: meningitis, encephalitis (part 2)	2
16.	Infectious and infectious-allergic diseases of the nervous system: multiple sclerosis and disseminated encephalomyelitis, myelitis, epiduritis, poliomyelitis, rheumatic chorea, neurosyphilis, nervous system disorders in AIDS, leukoencephalitis (part 1)	2
	Infectious and infectious-allergic diseases of the nervous system: multiple sclerosis and disseminated encephalomyelitis, myelitis, epiduritis, poliomyelitis, rheumatic chorea, neurosyphilis, nervous system disorders in AIDS, leukoencephalitis (part 2)	2
	Infectious and infectious-allergic diseases of the nervous system: multiple sclerosis and disseminated encephalomyelitis, myelitis, epiduritis, poliomyelitis, rheumatic chorea, neurosyphilis, nervous system disorders in AIDS, leukoencephalitis (part 3)	1

17.	Vascular brain diseases: strokes (part 1)	2
	Vascular brain diseases: strokes (part 2)	2
	Vascular brain diseases: strokes (part 3)	1
18.	Vascular brain disease: chronic cerebrovascular disease. Spinalstroke.Tumours of the brain and spinal cord. Neurosurgical methods of diagnosis (part 1)	2
	Vascular brain disease: chronic cerebrovascular disease. Spinal stroke. Tumours of the brain and spinal cord. Neurosurgical methods of diagnosis (part 2)	2
19.	Traumatic brain and spinal cord injuries. Epilepsy and seizure disorders (part 1)	2
	Traumatic brain and spinal cord injuries. Epilepsy and seizure disorders (part 2)	2
20.	Neuroses, autonomic nervous systemdiseases. Primary headaches. Diagnostic criteria, treatment, prevention. Sleepandwakefulnessdisorders (part 1)	2
	Neuroses, autonomic nervous system diseases. Primary headaches. Diagnostic criteria, treatment, prevention. Sleep and wakefulness disorders (part 2)	2
21.	Hereditaryneuromusculardiseases (part 1)	2
	Hereditaryneuromusculardiseases (part 2)	2
22.	Hereditary disorders of the extrapyramidal system and family ataxia, congenital dysplasia (part 1)	2
	Hereditary disorders of the extrapyramidal system and family ataxia, congenital dysplasia (part 2)	2
23.	Defending a case history. Final test (part 1)	2
	Defending a case history. Final test (part 2)	2
	Total	104

Approved at the meeting of the Department of neurology, neurosurgery, medical genetics
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