

General neurology

	Question	Content details, explanations
1.	Disorders of consciousness	definition, symptoms, severity assessment (GCS), topical dg.
2.	Cognitive impairment	cognitive functions, classification, symptoms, examination. Definitions of dementia and mild cognitive impairment.
3.	Cerebral lobe syndromes	anatomy, syndromes of the F – T – P – O lobes
4.	Speech disorders	anatomy, aphasia, dysarthria, symptoms and examination
5.	Visual disturbances	visual pathway, pre- and retrochiasmatic lesions
6.	Disorders of oculomotor innervation	oculomotor nerves and their palsies, nystagmus, internuclear ophthalmoplegia, orbital apex and cavernous sinus syndromes
7.	Dizziness and balance disorders	vestibular and non-vestibular dizziness, peripheral and central vestibular syndrome, vestibular ataxia
8.	Disorders of cranial nerves V and VII, alternating brainstem syndromes	trigeminal nerve dysfunction, peripheral and central facial nerve paresis, alternating syndrome at the three levels
9.	Bulbar and pseudobulbar syndrome, swallowing disorders	involvement of cranial nerves IX, X, XI and XII, swallowing disorders
10.	Paralysis and muscle weakness	central and peripheral paresis, myasthenic syndrome, myopathic syndrome, spasticity – symptoms and examination
11.	Extrapyramidal hypokinetic (Parkinsonian) syndrome	definition, principal symptoms and signs, pathophysiology, classification of causes
12.	Hyperkinetic extrapyramidal syndromes	classification, definitions and description of symptoms, pathophysiology, classification of causes
13.	Cerebellar syndrome	cerebellar ataxia, symptoms and examination
14.	Cerebello-pontine angle and posterior fossa syndromes	anatomy, symptoms according to location
15.	Somatosensory disorders	symptoms of sensory disorders, sensory ataxia
16.	Pain	definition, classification, and pathophysiology
17.	Spinal syndromes	syndromes of transverse spinal lesion, posterior and lateral cord syndromes, central spinal cord syndrome, spinal hemisection
18.	Gait disorders	core symptoms of gait disorders, anatomical-clinical classification
19.	Syndromes of peripheral nerve lesions in the upper limb	symptoms and signs of lesions of the median, ulnar, and radial nerves
20.	Syndromes of peripheral nerve lesions in the lower limb	symptoms and signs of lesions of the femoral, sciatic, tibial, and peroneal nerves
21.	Disorders of the autonomic nervous system	sympathetic and parasympathetic system, hypothalamic sy, Horner's sy, orthostatic hypotension, micturition disorders, autonomic neuropathy
22.	Spinal root syndromes	radicular syndromes, cauda equina syndrome
23.	Intracranial hypertension syndrome	symptoms, causes and mechanisms, hydrocephalus, brain herniation
24.	Meningeal syndrome	clinical signs and tests, cerebrospinal fluid findings
25.	Psychiatric symptoms in neurological disorders	delirium, dementia, anxiety, depression, psychotic symptoms - manifestations and most common causes,
26.	Imaging methods in neurology	X-ray, CT and MRI; SPECT and PET, principles, indications and contraindications, main pathological findings
27.	Electrophysiological examination in neurology	principles of EEG, EMG, evoked potentials; indications, contraindications, and main pathological findings
28.	Examination of cerebrospinal fluid	Indications and contraindications for lumbar puncture; normal and major pathological findings
29.	Psychomotor development and neurological exam of an infant	basic developmental milestones, neurological exam - techniques and findings