Questions for exam from neurology for the 4th year of medical study - general part

- 1. Olfactory nerve (I.) nerve. Optic (II.) nerve.
- 2. Oculomotor (III.), trochlear (IV.) and abducent (VI.) cranial nerves.
- 3. Trigeminal (V.) nerve, trigeminal neuralgia. Facial nerve (VII.) anatomy, physiology, central palsy of n. VII.
- 4. Vestibulocochlear (VIII.) nerve. Peripheral and central vestibular syndromes. Nystagm.
- 5. Glossopharyngeal (IX.), vaggal (X.), accessorial (XI.), and hypoglosal (XII.) cranial nerves. Bulbar and pseudobulbar palsy.
- 6. The lower and the upper motor neuron lesion. Central and peripheral palsy syndromes. Brain stem anatomy and syndromes.
- 7. Syndromes of impaired somatosensory perception. Modalities of sensation. Findings on sensory examination in lesions of different parts of the nervous system. Brown Sequard syndrome.
- 8. Pain anatomy, acute and neuropatic pain, treatment.
- 9. Spinal cord syndromes. Extramedullary and intramedullary lesions.
- 10. Balance and gait disorders, ataxias.
- 11. The extrapyramidal system hypo and hyperkinetic syndromes.
- 12. The cerebellar syndromes.
- 13. Increased intracranial pressure, temporal and occipital brain herniations. Obstructive hydrocephalus. Intracranial hypotension.
- 14. Disorders of language: Aphasia, Dysphonia, Dysarthria.
- 15. Lesions of pariental lobe and of the frontal lobe.
- 16. Lesions of the occipital and of the temporal lobes, talamic syndrome, disconnection syndrome.
- 17. Coma pathogenesis, clinical findings, differential diagnosis, GCS, neurological examination of comatose patient, brain death.
- 18. Lumbar punction. Examination of the cerebrospinal fluid.
- 19. Imaging procedures of the head and spine. Plain X rays (skull X ray). Computerized tomography (CT scanning). Magnetic rezonance imaging (MRI), comparison of CT scanning and MRI. Indications. Normal and pathological findings, explanation.
- 20. Duplex ultrasound of extracranial and intracranial arteries. Angiography (arteriography). (DSA, CT AG, MR AG) indications.
- 21. Electroencephalography (EEG), Polysomnography.
- 22. Electromyography (EMG). Nerve conduction studies. Studies of neuromuscular transmission.
- 23. Evoked potentials (VEP, BAEP, SSEP).

Questions for exam from neurology for the 4th year of medical study - special part

- 1. CNS neoplasms. General symptoms. Glial tumors, Meningiomas, Schwannoma, Pituitary adenoma clinical findings, diagnosis, treatment, prognosis.
- 2. Paraneoplastic syndromes. Pseudotumor cerebri. Brain metastases diagnosis and treatment.
- 3. Head trauma: Skull fracture, Penetrating injury, Cereberal concussion, Axonal shearing injury, Subdural hematoma, Epidural hematoma, Cerebral contusion, Traumatic haemorrhage. Early and late complications of head traumas.
- 4. Ischemic stroke. Etiology, risk factors, clinical findings, diagnosis and treatment. Transient ischemic attack (TIA).
- 5. Brain haemorrhage pathogenesis, diagnosis, treatment.
- 6. Subarachnoid haemorrhage pathogenesis, diagnosis, treatment.
- 7. Intracranial thrombophlebitis and phlebotrombosis, etiology, clinical picture, diagnosis, treatment. Temporal arteritis and other vasculitides with CNS lesion.
- 8. Dementia definition, epidemiology. Classification of dementia. Alzheimer's disease, vascular dementia, other types of dementia definition, risk factors, clinical feature, therapy. The differential diagnosis of dementia.
- 9. Multiple sclerosis pathology, clinical findings, disease course, diagnostic criteria, differential diagnosis, treatment. ADEM, NMO.
- 10. Encephalitis etiology, clinical symptomatology, diagnosis, therapy. Brain abscess. Herpes zoster clinical symptoms, diagnosis and treatment.
- 11. Meningitis, meningeal syndrome. Tuberculotic meningitis. Etiology, clinical symptomatology, diagnosis, therapy.
- 12. Spirochetal infections (Syphilis, Lyme disease). AIDS and neurological complications. Clinical symptoms, diagnosis and treatment.
- 13. Prion diseases. Creutzfeldt Jakob disease. Clinical symptoms, diagnosis and treatment.
- 14. Parkinson's disease. Other Parkinsonian syndromes. Therapy.
- 15. Tremor, classification, etiology, treatment. Hungtinton's disease and other most common causes of chorea.
- 16. Dystonia, etiology, most common causes and manifestations. Therapy. Wilson's disease.
- 17. Epilepsy definition, etiology, types od epileptic seizures, diagnosis, therapy. Febrile convulsions, Status epilepticus.
- 18. Sleep disorders narcolepsy with cataplexy. Restless leg syndrome. Parasomnia.
- 19. Headache classification. Migraine, Cluster headache, Tension headache. Secondary headaches: Giant cell arteritis.

- 20. Non traumatic disorders of spinal cord (myelitis, myelomalacia, haematomyelia, spinal tumors). Spinal trauma.
- 21. Amyotrophic lateral sclerosis (ALS). Clinical symptoms, diagnosis and treatment.
- 22. Muscular dystrophies. Myositis and dermatomyositis. Clinical symptoms, diagnosis and treatment.
- 23. Myasthenia gravis and other disorders of neuro muscular junction. Clinical symptoms, diagnosis and treatment.
- 24. Cervicocranial and cervicobrachial syndromes. Cervical radiculopathies etiology, clinical picture, diagnosis, treatment. Cervical spondylotic myelopathy.
- 25. Sciatic syndrom. Lumbar radiculopathies. Lumbar stenosis. Syndrom cauda equina. Clinical symptoms, diagnosis and treatment.
- 26. Peripheral facial palsy, etiology, diferential diagnosis, treatment.
- 27. Brachial plexus disorders. Median, ulnar, radial mononeuropathy. Clinical symptoms, diagnosis and treatment. Carpal tunel syndrome.
- 28. Lumbosacral plexus disorders. Sciatic, peroneal, tibial and femoral mononeuropathy. Clinical symptoms, diagnosis and treatment.
- 29. Inflammatory neuropathies: AIDP (Guillain Barre syndrome), CIDP.
- 30. Neurological complications of alcoholism, diabetes mellitus, anemia, kidney and liver diseases, thyreopathies and systemic collagenous disorders.

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