

## **LIST OF THEORETICAL QUESTIONS FOR FINAL MODULE CONTROL ON NEUROSURGERY**

1. Stages of development of domestic and foreign neurosurgery.
2. The value of auxiliary research methods in the diagnosis and development of pathogenetically sound treatment of diseases of the central nervous system.
3. Craniography. Focal and hypertensive signs of organic diseases of the brain.
4. Cerebral angiography. Indications, contraindications, technique.
5. Cerebral angiography. Types, significance of this method in the development of neurosurgery.
6. Electroencephalography and its importance in the diagnosis of organic diseases of the brain.
7. Liquorological and cerebrospinal fluid studies in the diagnosis of diseases of the central nervous system.
8. Radiography of the spine and the role of this research method in the diagnosis of diseases of the spinal cord and spine.
9. Comparative assessment of the informativeness of auxiliary examination methods in the diagnosis of neurosurgical diseases.
10. The value of ophthalmological examination in the diagnosis of brain diseases.
11. Computed tomography and the role of this research method in the diagnosis of neurosurgical diseases.
12. Magnetic resonance imaging and the role of this research method in the diagnosis of neurosurgical diseases.
13. Radioisotope studies and their role in neurosurgery.
14. Classification of traumatic brain injury. (TBI).
15. Closed traumatic brain injury. Classification. Types of traumatic injuries of the skull and brain.

16. Providing medical care to a patient with closed and open traumatic brain injury at the prehospital stage, including fire

17. Concussion. Pathomorphology. Clinic, diagnosis, treatment.

18. Bruising of the brain. Pathomorphology. Clinic, diagnosis, treatment.

19. Compression of the brain. Clinic, diagnosis, treatment.

20. Epidural hematomas. Clinic, diagnosis, treatment.

21. Subdural hematomas. Clinic, diagnosis, treatment.

22. Methods of surgical treatment of patients with acute, subacute, chronic subdural hematomas.

23. Subdural hydromas. Clinic, diagnosis, treatment.

24. Intracerebral hematomas. Clinic, diagnosis, treatment.

25. Intragastric hematomas. Clinic, diagnosis, treatment.

26. Fractures of the skull bones with closed traumatic brain injury. Classification. Methods of diagnosis of skull fractures.

27. Indications for surgery for fractures of the skull. Basic principles of operations.

28. Auxiliary research methods and sequence of their application in the diagnosis of traumatic brain injury.

29. Features of the course of traumatic brain injury depending on age. Features of surgical treatment of traumatic brain injury in the elderly.

30. Methods of plasticity of defects of the dura mater and skull in closed traumatic brain injury.

31. Open traumatic brain injury. Classification, diagnosis, emergency care.

32. Features of first aid to patients with open traumatic brain injury at the prehospital stage.

33. The sequence of application of auxiliary diagnostic methods for open traumatic brain injury.

34. Primary surgical treatment and its timing in open trauma. Methods of removing foreign bodies from the brain substance.

35. Combined and combined TBI.
36. Gunshot wounds to the skull and brain, their classification and clinic.
37. First aid for skull injuries on the battlefield. Medical sorting and content of medical care at the stages of evacuation.
38. Features of TBI depending on the age and somatic condition of patients.
39. Maternity trauma. Frequency, clinic, diagnosis. Indications for neurosurgical treatment, its principles.
40. Early and late complications in open trauma. Indications for surgical treatment, prevention of complications.
41. Gunshot wounds to the skull and brain, spine and spinal cord. Classification, clinic, emergency care.
42. Gunshot wounds to the spine and spinal cord. Clinical picture and diagnosis. Periods of clinical course. First aid on the battlefield. The amount of medical care at the stages of medical evacuation.
43. Multiple trauma to the head, spine and other parts of the person (torso, limbs). Medical care in field conditions and extreme situations. Features of preparation for evacuation. Regulations on non-transportability.
44. Methods of removing foreign bodies from the brain substance in open trauma.
45. Post-traumatic epilepsy and methods of removing patients from epistatus.
46. Rehabilitation treatment in the near and long term after trauma.
47. Features of the course of peripheral nerve injury and surgical treatment in the elderly.
48. Harmful effects of alcohol and smoking on the restoration of impaired brain function in patients with traumatic brain injury.
49. Tumors of the brain.
50. Hypertension syndrome, the main pathological mechanisms of its formation. Clinic, diagnosis, emergency care.
51. Auxiliary methods for diagnosing brain tumors in a neurosurgical clinic.

52. Focal symptoms of brain tumors.
53. Methods of treatment of patients with brain tumors.
54. Indications for surgical treatment of patients with brain tumors. radical and palliative operations for brain tumors.
55. Combined treatment of patients with brain tumors.
56. Pathology of the vessels of the brain. Classification, clinic, diagnosis, emergency care.
57. Modern possibilities of neurosurgical treatment of vascular diseases of the brain.
58. Ischemic strokes. Features of etiopathogenesis and pathology of cerebral vessels in the elderly. Features of rehabilitation of the elderly after acute cerebrovascular accident.
59. Hemorrhagic strokes as a manifestation of vascular pathology of the brain. Etiopathogenesis. Frequency. Classification, clinic, diagnosis, emergency therapy. Indications for surgical treatment, its principles.
60. Differential diagnosis of cerebrovascular pathology with other organic impressions of the brain.
61. Malformations of the brain and spinal cord. Classification, clinic, diagnosis. Indications for surgical treatment, its principles.
62. Hydrocephalus. Classification. Etiopathogenesis. Clinic, diagnosis. Indications for surgical treatment and its principles.
63. Brain abscesses. Classification, clinic, diagnosis, emergency care. Indications for surgical treatment and its principles.
64. Functional neurosurgery. Stereotactic method in neurosurgery, indications for its use.
65. Neurosurgical treatment of parkinsonism.
66. Neurosurgical treatment of cerebral palsy (cerebral palsy) and other extrapyramidal hyperkinesias.

67. Epilepsy. Etiopathogenesis. Diagnosis. Withdrawal of the patient from the epistatus. Indications for surgical treatment, its principles.
68. Tumors of the spinal cord. Classification, clinic, diagnosis.
69. Clinic of extramedullary tumors of the spinal cord.
70. Clinic of intramedullary tumors of the spinal cord.
71. Auxiliary methods for diagnosing spinal cord tumors.
72. The role of cerebrospinal fluid and cerebrospinal fluid studies in the diagnosis of spinal cord tumors.
73. Neurosurgical treatment of patients with spinal cord tumors.
74. Combined treatment of patients with spinal cord tumors. Prevention of complications. Rehabilitation treatment.
75. Osteochondrosis. Classification. Etiopathogenesis. Clinic, diagnosis, indications for surgical treatment.
76. Clinic of osteochondrosis of the cervical spine.
77. Clinic of osteochondrosis of the lumbosacral spine.
78. Differentiated approach to conservative and neurosurgical treatment of intervertebral disc pathology.
79. Basic methods of neurosurgical treatment of patients with pathology of intervertebral discs.
80. Traumatic injuries of the spine and spinal cord. Classification, clinic, diagnosis.
81. First aid and transportation of patients with traumatic injuries of the spine and spinal cord.
82. Neurosurgical operations for closed injuries of the spine and spinal cord.
83. Open injuries of the spine and spinal cord. Principles of surgical treatment.
84. Early and late complications of spinal cord injuries and their prevention.
85. Rehabilitation treatment for traumatic injuries of the spine and spinal cord.
86. Traumatic injuries of peripheral nerves. Classification, clinic, diagnosis.

87. Features of primary treatment of wounds at open damages of peripheral nerves.

88. Neurosurgical treatment of traumatic injuries of peripheral nerves.

89. Pain syndromes (causalgia, amputation pain, phantom pain). Clinic, diagnosis, emergency care.

90. Trigeminal neuralgia. Etiopathogenesis. Principles of neurosurgical treatment. Features of etiopathogenesis, course and surgical treatment of trigeminal neuralgia in the elderly

91. Principles of intensive care in the treatment of neurosurgical patients.