

УТВЕРЖДАЮ

Заведующий кафедрой неврологии и  
нейрохирургии УО «ГрГМУ»



Кулеш С.Д.

26 апреля 2021 г.

**Контрольные вопросы к экзамену по неврологии и нейрохирургии  
для специальности 1 – 79 01 01 «Лечебное дело», 2020/2021 учебный год  
для студентов ФИУ, обучающихся на английском языке**

**Exam 2021 Neurology&Neurosurgery**

1. Motor cortex and the descending pyramidal pathways.
2. Examination of muscle appearance and power.
3. Examination of tendon reflexes.
4. Examination of superficial reflexes and muscle tone.
5. Examination of coordination.
6. Examination of gait.
7. Paralysis: upper motor neuron lesion.
8. Paralysis: lower motor neuron lesion and myopathic disorders.
9. Hypertonic-hypokinetic syndrome.
10. Abnormal movements.
11. Cerebellar ataxia.
12. Sensory and vestibular ataxia.
13. Anatomical substrate of sensation.
14. Examination of primary sensory modalities.
15. Examination of complex sensory functions.
16. Sensory disturbances in patients with peripheral nerve and root lesions.
17. Sensory disturbances in patients with spinal cord lesions.
18. Sensory disturbances in patients with brainstem and hemispheric lesions.
19. Pain syndromes.
20. Functional anatomy of the spinal cord.
21. Autonomic pathways and disturbances of bladder, bowel, and sexual function.
22. Complete spinal cord transection syndrome.
23. Anterior cord syndrome. Central cord syndrome. Radiculopathy syndromes.
24. Brown-Séquard syndrome. Cauda equina and conus medullaris syndromes.
25. Visual system: functional anatomy and examination (visual acuity, fields, ophthalmoscopy).
26. Ocular motor system: functional anatomy and examination of eye movements.
27. Disorders of the visual system.
28. Functional anatomy and examination of the trigeminal nerve.
29. Lesions of the trigeminal nerve.
30. Functional anatomy and examination of the facial nerve.
31. Lesions of the facial nerve.
32. Functional anatomy and examination of the vestibulocochlear nerve.
33. Lesions of the vestibulocochlear nerve.
34. Functional anatomy and lesions of the glossopharyngeal nerve (IX)
35. Functional anatomy of the vagus nerve (X)
36. Lesions of the vagus nerve and its branches
37. Functional anatomy and lesions of the accessory nerve (XI)

38. Functional anatomy and lesions of the hypoglossal nerve.
39. Frontal lobe syndrome.
40. Temporal lobe syndrome.
41. Parietal lobe syndrome.
42. Occipital lobe syndrome.
43. Disorders of perception and the agnosias.
44. Apraxia.
45. Aphasia: fundamentals.
46. Non-fluent Broca's aphasia.
47. Wernicke's aphasia. Nominal aphasia.
48. Dysarthria.
49. Disorders of memory. Coma.
50. Pathogenesis, clinical findings and prognosis in bacterial meningitis.
51. Treatment of bacterial meningitis.
52. Tuberculous meningitis: clinical findings.
53. Tuberculous meningitis: treatment and prognosis.
54. Syphilitic meningitis.
55. Lyme disease.
56. Viral meningitis.
57. Herpes simplex virus encephalitis.
58. Fungal meningitis.
59. Parasitic infections of CNS: malaria and toxoplasmosis.
60. Parasitic infections of CNS: amebic meningoencephalitis.
61. Cysticercosis.
62. Etiology of ischemic stroke.
63. Pathogenesis of ischemic stroke.
64. ACA and MCA syndromes.
65. ICA and PCA syndromes.
66. Basilar artery syndromes.
67. Syndromes of vertebrobasilar branches.
68. Lacunar infarctions.
69. Clinical findings in ischemic stroke.
70. Investigative studies in ischemic stroke.
71. Treatment of ischemic stroke.
72. Pathogenesis of intracerebral hemorrhage.
73. Clinical findings in intracerebral hemorrhage.
74. Treatment of intracerebral hemorrhage.
75. Clinical findings in subarachnoid hemorrhage.
76. Differential diagnosis and complications in subarachnoid hemorrhage.
77. Treatment and prognosis of subarachnoid hemorrhage.
78. Definition, epidemiology, etiology and pathogenesis of multiple sclerosis.
79. Clinical presentation of multiple sclerosis.
80. Diagnostic evaluation in multiple sclerosis.
81. Treatment of multiple sclerosis.
82. Treatment of complications, prognosis and medical pitfalls in multiple sclerosis.
83. Episodic loss of consciousness and its differentiation.
84. Common causes of seizures of new onset.
85. Classification of seizure type.
86. Diagnosis of seizures.
87. Treatment of epilepsy.
88. Multiple seizures or status epilepticus.
89. Complications of epilepsy and anticonvulsant therapy.

90. Definition, epidemiology, pathology and etiology of ALS.
91. Clinical features of ALS.
92. Differential diagnosis, investigation and treatment of ALS.
93. Peripheral nerve lesions: fundamentals.
94. Bell's palsy.
95. Trigeminal neuralgia.
96. Entrapment neuropathies.
97. Diseases of the brachial plexus.
98. Polyneuropathy (general features).
99. Acute inflammatory polyneuropathy (Guillain-Barre syndrome).
100. Metabolic & nutritional polyneuropathies.
101. Infective polyneuropathies.
102. Polyneuropathy due to arterial and connective tissue disease.
103. Neoplastic & paraproteinemic neuropathies. Drug-induced & toxic neuropathies.
104. Hereditary neuropathies.
105. Low back pain.
106. Neck pain. Herpes zoster (shingles).
107. Etiology and pathogenesis of parkinsonism.
108. Clinical findings in parkinsonism.
109. Differential diagnosis of parkinsonism.
110. Treatment of parkinsonism (amantadine, levodopa, dopamine agonists).
111. Treatment of parkinsonism (tolcapone, selegiline, surgery, deep brain stimulation).
112. Progressive supranuclear palsy.
113. Huntington's disease.
114. Idiopathic torsion dystonia.
115. Wilson's disease.
116. Gilles de la Tourette's syndrome.
117. Myasthenia gravis: Clinical findings and diagnosis.
118. Myasthenia gravis: treatment.
119. Lambert-Eaton syndrome.
120. Pathophysiology of traumatic brain injury.
121. Classification of head trauma.
122. Glasgow Coma Scale.
123. Intracranial compartments and types of herniation.
124. Investigative studies in TBI.
125. Mild head injury.
126. Subdural hematoma.
127. Epidural hematoma.
128. Treatment of head injury.
129. Complications of TBI.
130. Classification of brain tumors.
131. Symptoms of elevated ICP.
132. Craniopharyngiomas.
133. Meningiomas.
134. Pituitary adenomas.
135. Tumors of neuroglial cells.
136. Primitive neuroectodermal tumor (PNET).
137. Ependymoma.
138. Primary CNS lymphoma.
139. Metastatic brain tumors.
140. Etiology of hydrocephalus.

141. Hydrocephalus (classification and pathophysiology).
142. Hydrocephalus (symptoms and signs).
143. Treatment of hydrocephalus.
144. Syringomyelia.
145. Lumbar disc disease (fifth lumbar radiculopathy).
146. Lumbar disc disease (fourth lumbar radiculopathy).
147. Lumbar disc disease (first sacral radiculopathy).
148. Lumbar disc disease (surgical therapy).
149. Arterial aneurysms.
150. Arteriovenous malformations.