

1. Muscle hypotony and hypertony
2. Muscle hypotrophy and hypertrophy
3. Tremor
4. Myoclonic jerks
5. Peripheral paralysis
6. Central paralysis
7. Disconnection of hemispheres
8. Differential diagnosis of peripheral and central paralysis
9. Sudden-onset and slow-progressive transversal spinal cord damage
10. Syndrome of spinal cord conus and epiconus
11. Brown-Séquard syndrome
12. Tabic syndrome
13. Cerebellar syndromes
14. Bulbar paralysis
15. Peripheral vestibular syndrome
16. Intracranial hypertension syndrome
17. Occipital and temporal conus
18. Meningeal syndrome
19. Parietal lobe syndrome
20. Frontal lobe syndrome
21. Rolandic syndromes
22. Thalamic syndrome
23. Brainstem syndromes – peduncular, pontine and bulbar
24. Barré-Liéou syndrome and cervicovestibular syndrome
25. Disturbances of consciousness
26. Neurogenic bladder dysfunction
27. Neurasthenia and psychasthenia
28. Ponto-cerebellar syndrome and Wallenberg syndrome
29. Anterior and medial cerebral artery syndromes
30. Radicular syndromes
31. Limbic system
32. Occipital lobe syndrome
33. Temporal lobe syndrome
34. Subclavian-steal syndrome
35. Motoric regulation at spinal cord level
36. Motoric regulation at brainstem and hemispheric level
37. Corticospinal tracts and movement
38. Cerebellum and movement
39. Pseudoradicular (radicular-like) syndromes
40. Anatomy and physiology of autonomic nervous system
41. Reticular formation – wakefulness and sleep
42. Secretion, circulation and functions of cerebrospinal fluid
43. Vascular supply of brain and spinal cord
44. Symbolic (phatic) functions

45. Pain afferentation
46. Anatomy and physiology of extrapyramidal system
47. Muscle tone regulation
48. Invasive neuroradiology
49. Cerebral panangiography
50. Perimyelography
51. Native RTG scanning in neurology
52. Lumbar and suboccipital puncture
53. Ultrasonography in neurology
54. Electroencephalography in neurology
55. Pneumoencephalography
56. EEG in childhood, high age and during sleep
57. Pathologic EEG and its significance in etiologic and topical diagnosis
58. Electromyography
59. SPECT, PET-CT
60. CT
61. Evoked potentials
62. Cranial nerve I
63. Cranial nerve II
64. Cranial nerve III
65. Cranial nerve IV
66. Cranial nerve V
67. Cranial nerve VI
68. Cranial nerve VII
69. Cranial nerve VIII
70. Biopsy in neurology
71. Transcranial magnetic stimulation
72. Cranial nerve IX
73. CSF evaluation
74. MR
75. Tics and Tourette syndrome
76. Ballistic hyperkinesias
77. Choreatic syndromes
78. Athetosis
79. Generalized dystonias
80. Blepharospasm
81. Facial hemispasm
82. Meige syndrome
83. Spastic torticollis
84. Cranial nerve X
85. Cranial nerve XI
86. Cranial nerve XII
87. Cranial nerve I
88. Cranial nerve II

- 89. Cauda equina syndrome**
- 90. Syringomyelic syndrome**
- 91. Pseudobulbar (bulbar-like) paralysis**
- 92. Rehabilitation and physiatric methods in neurology**
- 93. Neuromyelitis optica**
- 94. Claude Bernard Horner syndrome**
- 95. Spinal stenoses**
- 96. Physiologic reflexes**
- 97. Pathophysiologic reflexes**
- 98. Differential diagnosis of ataxias**
- 99. Intervertebral disc herniation**
- 100. Central vestibular syndrome**

1. Cervikobrachial syndrome
2. Lumboischiadic syndrome
3. Brachial plexus damage
4. Lumbosacral plexus damage
5. Median and ulnar nerve damage
6. Axillar and radial nerve damage
7. Fibular and tibial nerve damage
8. Facial nerve paralysis
9. Trigeminal nerve neuralgia and other neuralgias
10. Polyneuropathies
11. Syringomyelia and syringobulbia
12. Polyradiculoneuritis acuta (Guillain-Barré syndrome)
13. Somatoform disorder
14. Brain glial tumors (glioblastoma, astrocytoma, oligodendroglioma, meduloblastoma, spongioblastoma, ependymoma)
15. Meningeomas
16. Hypophyseal and epiphyseal tumors
17. Craniopharyngeoma
18. Statoacoustic nerve neurinoma
19. Spinal cord tumors and neoplasms with resulting spinal cord compression
20. Brain and cerebellar absces
21. Commotio and contusio cerebri
22. Epidural and subdural haematoma
23. Brain atherosclerosis and hypertensive encephalopathy
24. Spontaneous intracerebral haemorrhage
25. Basic stroke subtypes and their characteristics
26. Femoral nerve damage
27. Pathophysiology and risk factors of cerebrovascular stroke
28. Cerebral venous sinuses phlebothrombosis and thrombophlebitis
29. Clinical pictures of focal brain ischaemia
30. Intracranial vascular abnormalities and subarachnoideal haemorrhage
31. Spinal cord ischaemia and haemorrhage
32. Cerebrovascular stroke therapeutic options
33. Child-onset brain palsy
34. Multiple sclerosis
35. Encephalis and encephalomyelitis
36. Parainfectious and postvaccination encephalitis
37. Tetanus (Clostridium tetani infection)
38. SSPE
39. Meningitis
40. Lues cerebrospinalis
41. Parkinson disease
42. Huntigton disease and other choreatic syndromes

43. Wilson disease
44. Alzheimer disease
45. Primary generalized epilepsies
46. Focal epilepsies
47. Status epilepticus – diagnosis and therapy
48. Psychogenic seizures
49. Narcolepsy and hypersomnia
50. Parkinsonian syndromes
51. CIDP and MMN
52. Tension-type headache
53. Migraine
54. Motor neurone diseases (ALS and others)
55. Funicular myelosis (neuroanemic syndrome)
56. Hereditary myopathies (muscular dystrophies, metabolic myopathies)
57. Myotonia and paramyotonia
58. Myasthenia gravis and Lamberte-Eaton syndrome
59. Differential diagnosis of comatose states
60. Neuroleptic malignant syndrome
61. Creutzfeldt-Jakob disease
62. Therapy of multiple sclerosis
63. Neuroborreliosis
64. AIDS and the nervous system
65. Arachnopathic syndromes
66. Encephalitis epidemica lethargica
67. Poliomyelitis anterior acuta
68. Postpolio syndrome
69. Essential tremor
70. Progressive multifocal leukoencephalopathy
71. Progressive rubellar panencephalitis
72. Rabies (lyssavirus infection)
73. Hysteria
74. Malignant hyperthermia
75. Anxiety and depressive disorder
76. Obsessive and compulsive disorder
77. Panic disorder
78. Tetanic syndrome (syndrome of neuromuscular hyperexcitability)
79. Hyperventilation syndrome
80. Botulism and botulotoxin
81. Basilar meningitis
82. Primary brain lymphoma
83. Secondary brain tumors – metastases
84. Meningeal carcinomatosis
85. Brain death
86. Vegetative state

- 87. Functional vertebrogenic pain syndromes**
- 88. Carpal tunnel syndrome**
- 89. Cubital tunnel syndrome**
- 90. Sunday morning palsy**
- 91. Fibular palsy**
- 92. Radiation plexopathy**
- 93. Complex regional pain syndromes**
- 94. Diabetic neuropathy**
- 95. Phantom pain**
- 96. Periodic paralyses**
- 97. Myositic syndromes**
- 98. Syncope**
- 99. Arboviral encephalitis (sheep-tick mediated)**