

LIST OF PRACTICE TOPICS ON NEUROLOGY AND NEUROSURGERY FOR 4 CORSES STUDENTS OF THE MEDICAL FACULTY FOR THE 8 SEMESTER

7. Infection-inflammatory diseases of the nervous system (6 hours).

1. Classification of the meningitis. Meningococcal meningitis. Etiology, pathogenesis, symptoms, diagnosis, differential diagnosis, complications, treatment.
2. Enteroviral, parotitic meningitis: etiology, pathogenesis, symptoms, diagnosis, treatment.
3. Tuberculous meningitis. Etiology, pathogenesis, symptoms, diagnosis, complications, treatment.
4. Classification of the encephalitis. Herpetic encephalitis. Etiology, pathogenesis, symptoms, diagnosis, treatment.
5. Tick-borne encephalitis: eastern and western variants. Etiology, pathogenesis, symptoms, diagnosis, treatment, prevention.
6. Epidemic encephalitis Economo. Etiology, pathogenesis, symptoms, diagnosis, treatment.
7. Poliomyelitis. Etiology, pathogenesis, symptoms, diagnosis, treatment.
8. Parainfectious encephalomyelitis. Etiology, pathogenesis, symptoms, diagnosis, treatment.
9. Lesions of the nervous system in syphilis. Classification, symptoms, diagnosis, treatment.
10. Damage of the nervous system in HIV infection, pathogenesis, symptoms, diagnosis, treatment.
11. Creutzfeldt – Jacob disease. Etiology, pathogenesis, clinic, diagnosis, treatment.
12. Neuroborreliosis. Etiology, pathogenesis, stages, symptoms, diagnosis, treatment, prevention.

Examination of thematic patients. Self examination of patients and writing a case history

8. Vascular disorders of the nervous system (6 hours).

1. Clinical classification of the cerebrovascular disorders.
2. Transient ischemic attack, acute hypertensive crisis, transient global amnesia and acute hypertensive encephalopathy. Etiology, pathogenesis, symptoms, diagnosis, treatment.
3. Cerebral infarction. Etiology, risk factors, pathogenetic types (atherothrombotic, cardioembolic, hemodynamic, lacunar, hemorrhagic).
4. Symptoms of cerebral infarction in the carotid, vertebral and basilar arteries.
5. Basic stroke therapy. Emergency medical treatment of the stroke. Primary and secondary prevention.
6. Differentiated therapy of cerebral infarction. Thrombolysis, surgical treatment.
7. Intracerebral hemorrhage. Etiology, pathogenesis, symptoms, diagnosis, drug therapy, surgical treatment.
8. Subarachnoid non-traumatic hemorrhage. Etiology, pathogenesis, symptoms, diagnosis, treatment. Indications for surgical treatment.
9. Instrumental methods for the diagnosis of vascular diseases of the nervous system.
10. Spinal blood supply disorders: classification, clinical courses, diagnosis, treatment.

11. Examination of thematic patients. Self examination of patients and writing a case history

9. Autoimmun and degenerative diseases of the nervous system (6 hours).

1. Multiple sclerosis. Etiology, pathogenesis, symptoms, diagnosis, diagnostic criteria of McDonald, differential diagnosis
2. Multiple sclerosis. Principles of treatment (drugs, criteria for prescribing).
3. Acute disseminated encephalomyelitis. Etiology, pathogenesis, symptoms, diagnosis, treatment.
4. Parkinson's disease and parkinsonism syndrome. Etiology, pathogenesis, clinic, diagnosis. Drug therapy (principles of prescription and groups of drugs) and surgical treatment.
5. Myasthenia. Etiology, pathogenesis, classification, symptoms, diagnosis, differential diagnosis, treatment.
6. Myasthenic and cholinergic crises, symptoms, emergency care.
7. Amyotrophic lateral sclerosis. Etiology, pathogenesis, symptoms, diagnosis, treatment.
8. Alzheimer's disease. Etiology, pathogenesis, clinic, diagnosis, treatment, prevention.
9. Syringomyelia. Etiology, pathogenesis, symptoms, diagnosis, treatment.

Examination of thematic patients. Self examination of patients and writing a case history

10. Hereditary diseases of the nervous system. (6 hours).

1. Classification of the hereditary diseases of the nervous system. Genetic counseling, medical care for patients with genetic pathology.
2. Huntington's disease. Etiology, clinic, diagnosis, treatment.
3. Wilson disease. Etiology, pathogenesis, clinic, diagnosis, treatment.
4. Duchenne's myodystrophy. Etiology, pathogenesis, symptoms, diagnosis, treatment.
5. Limb girdle Erb's muscular dystrophy. Distal muscular dystrophy with the late onset (Welander type). Mode of inheritance, clinical features, diagnosing, differential diagnostics.
6. Spinal amyotrophy of childhood: types, clinic, diagnosis, treatment.
7. Hereditary polyneuropathy: classification, clinic, diagnosis, therapy.
8. Myotonia congenital. Etiology, pathogenesis, clinic, diagnosis, treatment.
9. Hereditary spastic paraplegia (Strumpell disease). Etiology, pathogenesis, clinic, diagnosis, treatment.
10. Spinocerebellar ataxia. Clinic, diagnosis, treatment.
11. Friedreich's disease. Etiology, clinic, diagnosis, treatment.

Examination of thematic patients. Self examination of patients and writing a case history

11. Disorders of the peripheral and autonomic nervous system (6 hours).

1. Epidemiology and classification of diseases of the peripheral nervous system.
2. Classification of the polyneuropathies. Acute inflammatory demyelinating polyradiculoneuropathy Guillain – Barré. Etiology, pathogenesis, symptoms, diagnosis, treatment.
3. Chronic inflammatory demyelinating polyradiculoneuropathy. Etiology, pathogenesis, symptoms, diagnosis, treatment.
4. Diphtheritic polyneuropathy. Etiology, pathogenesis, symptoms, diagnosis, treatment.
5. Diabetic polyneuropathy. Pathogenesis, symptoms, diagnosis, treatment.
6. Alcoholic polyneuropathy. Pathogenesis, symptoms, diagnosis, treatment.
7. Backbone osteochondrosis: etiology, pathogenesis.
8. Classification of the neurological disorders at the backbone osteochondrosis. Stages of the disease: reflex, radicular, compressive- ischemic.
9. Reflex and radicular syndromes of neurological manifestations of the backbone osteochondrosis at the cervical, thoracic and lumbosacral level: clinic, differential diagnosis
10. Compressive-ischemic syndrome C5 – C6, C7 – C8, L2 – L4, L5 – S1. Clinic, diagnosis.
11. Combined therapy and prevention of neurological manifestations of the backbone osteochondrosis. Indications for surgical treatment and its types.
12. Compression ischemic mononeuropathies of the median, ulnar, radial, femoral, sciatic, peroneal, tibial nerves: etiology, symptoms, diagnosing, treatment, prevention.
13. The syndrome of autonomic dysfunction. Diagnosis and treatment of diseases of the autonomic nervous system.

Examination of thematic patients. Self examination of patients and writing a case history

12. Epilepsy and seizures. Facial pain and headache (6 hours).

1. Epilepsy. Epidemiology, classification, etiology, pathogenesis. Classification of epileptic seizures. Symptoms of focal and generalized epileptic seizures.
2. Diagnosis of epilepsy. Differential diagnostics of the epileptic seizures, syncope and hysterical seizures.
3. Status epilepticus. Emergency care for epileptic seizure and status.
4. Anticonvulsant therapy. Absolute and relative contraindications to work. Treatment of pharmacoresistant epilepsy: drug therapy, ketogenic diet, surgical.
5. International classification of the facial pain and headache.
6. Migraine. Pathogenesis, classification, clinic, diagnosis, treatment, prevention.
7. Tension headache. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment and prevention.
8. Cluster headache. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment and prevention.
9. Trigeminal neuralgia. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment. Surgical treatment and its types.

Examination of thematic patients. Self examination of patients and writing a case history

13. Traumatic brain and spinal cord injury. Neurosurgical treatment of vascular diseases of nervous system (6 hours).

1. Epidemiology, classification, etiology, pathogenesis of the brain and spinal cord injury.
2. Mild traumatic brain injury: concussion and contusion of the brain. Clinic, diagnosis, treatment.
3. The moderate traumatic brain injury. Clinic, diagnosis, treatment.
4. Severe traumatic brain injury. Clinic, diagnosis, treatment.
5. Intracranial traumatic hemorrhages. Clinic, diagnosis, methods of surgical treatment.
6. Peculiarities of the traumatic brain injury in children, elderly and old ages and injuries due to alcohol intoxication.
7. Prevalence, mechanisms, classification, pathogenesis of spinal cord injury. Diagnosis of the level and degree of the spinal cord lesion (concussion, contusion, compression). The principles of conservative and surgical treatment.
8. Complications and sequelae of the traumatic brain and spinal cord injury. Emergency care and transportation of the patients. The principles of rehabilitation.
9. Carotid-cavernous anastomosis. Etiology, symptoms, diagnosis, treatment.
10. Cerebral aneurysms. Etiology, symptoms, diagnosis, surgical treatment.
11. Arteriovenous malformations. Symptoms, diagnosis, surgical treatment.
12. Surgical treatment of occlusive processes of extra- and cerebral vessels.

Examination of thematic patients.

Public defense of the case history. Computer testing for general neurology and topical diagnostics.

Head of the Neurology
and neurosurgery Department with
courses of medical rehabilitation and
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N.N.Usova

TIMETABLE OF LECTURES IN NEUROLOGY AND NEUROSURGERY FOR THE FOURTH YEAR FOREIGN STUDENTS IN THE 8 SEMESTER 2017/2018

Date	Time	Lecturer	№ of topic
20.02	14.30-15.30	N.N. Usova	Topic № 9
06.03	14.30-15.30	N.N. Usova	Topic № 12
13.03	14.30-15.30	E.V. Serebrova	Topic № 10
20.03	14.30-15.30	N.N. Usova	Topic № 13
03.04	14.30-15.30	M.V. Olizarovich	Topic № 14
17.04	14.30-15.30	E.V. Serebrova	Topic № 11

LIST OF LECTURE TOPICS IN NEUROLOGY AND NEUROSURGERY FOR THE FOURTH YEAR FOREIGN STUDENTS IN THE 8 SEMESTER 2017/2018

9. Blood supply of brain and a spinal cord.
10. Vascular disorders of the nervous system.
11. Disorders of the peripheral nervous system.
12. Hereditary and degenerative diseases of the nervous system.
13. Epilepsy and seizures.
14. Neurosurgical treatment of the cerebrovascular diseases. Traumatic brain and spinal cord injury.

TIMETABLE OF PRACTICAL LESSONS IN NEUROLOGY AND NEUROSURGERY FOR THE FOURTH YEAR FOREIGN STUDENTS IN THE 8 SEMESTER 2017/2018

№ of group	Date	Teacher	Place of lesson
403 eng (1)	11.02-19.02	E.V. Serebrova	Gomel clinical regional hospital IOV, 4 fl., class room № 2
402 eng (1)	14.03-18.03 19.02-22.03	N.N. Usova E.V. Serebrova	Gomel clinical regional hospital IOV, 4 fl., class room № 2
401 eng (1)	23.04-02.05	N.N. Usova	Gomel clinical regional hospital IOV, 4 fl., class room № 2
405 eng (1)	03.05-15.05	E.V. Serebrova	Gomel clinical regional hospital IOV, 4 fl., class room № 2
404 eng (1)	23.05-31.05	N.N. Usova	Gomel clinical regional hospital IOV, 4 fl., class room № 2

Head of the of the Neurology and neurosurgery
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N.N.Usova

**TIMETABLE OF MISSED CLASSES TESTING
IN NEUROLOGY AND NEUROSURGERY FOR THE FOURTH YEAR FOREIGN
STUDENTS WITH ENGLISH LANGUAGE OF TEACHING
IN THE 8 SEMESTER 2017/2018**

Date	Teacher	№ of class room	Time
23.02.19	E.V. Serebrova	2	9.00–14.00
23.03.19	E.V. Serebrova	2	9.00–14.00
25.05.19	N.N. Usova	2	9.00–14.00
01.06.19	N.N. Usova	2	9.00–14.00

Student can agree individual about miss classes testing with the teachers of the Chair.

Head of the of the Neurology
and neurosurgery Department with
course of medical rehabilitation,
M.D.

N.N.Usova

**TIMETABLE OF ELECTIVE COURSE IN NEUROLOGY AND
NEUROSURGERY FOR THE FOURTH YEAR FOREIGN STUDENTS
IN THE 8 SEMESTER 2017/2018**

№ of group	Date	Time	Teacher	Place of lesson
401 eng	27.02	16.30-18.00	N.N. Usova	Gomel clinical regional hospital IOV, 4 fl., class room № 4
	28.03	16.30-18.00	N.N. Usova	
	04.04	16.30-18.00	N.N. Usova	
	15.05	16.30-18.00	N.N. Usova	
402 eng	21.02	16.30-18.00	N.N. Usova	Gomel clinical regional hospital IOV, 4 fl., class room № 4
	21.03	16.30-18.00	N.N. Usova	
	16.05	16.30-18.00	N.N. Usova	
	23.05	16.30-18.00	N.N. Usova	
403 eng	19.02	16.30-18.00	N.N. Usova	Gomel clinical regional hospital IOV, 4 fl., class room № 4
	14.03	16.30-18.00	N.N. Usova	
	19.03	16.30-18.00	N.N. Usova	
	29.03	16.30-18.00	N.N. Usova	
404 eng	26.03	16.30-18.00	N.N. Usova	Gomel clinical regional hospital IOV, 4 fl., class room № 4
	02.04	16.30-18.00	N.N. Usova	
	14.05	16.30-18.00	N.N. Usova	
	21.05	16.30-18.00	N.N. Usova	
405 eng	05.03	16.30-18.00	N.N. Usova	Gomel clinical regional hospital IOV, 4 fl., class room № 4
	12.03	16.30-18.00	N.N. Usova	
	22.03	16.30-18.00	N.N. Usova	
	27.03	16.30-18.00	N.N. Usova	

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