Azerbaijan Medical University "I approve"

Head. Chair prof. A.K. Mammadbeyli

(stomatologiya)

12/02/2021

Spring semester (VI) 3-rd course

Working curriculum

(SILLABUS)

SPECIALTY CODE:

SPECIALTY TYPE: Mandatory
SEMESTER OF LEARNING: VI
NUMBER OF CREDITS: 3 credits
FORM OF EDUCATIONFull-time
LEARNING LANGUAGE: English

TEACHER

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Prerequisites: no

Course Description

In this specialty, the following are studied: the structure of the main parts of the nervous system, their interconnections, relationships, physiological characteristics; pathological symptoms and syndromes arising from pathology, their correct assessment and topical diagnosis using additional research methods.

Purpose of the course

The main goal of teaching neurology is to teach students the theoretical foundations, research methods, methodology for diagnosing and choosing tactics for treating neurological diseases.

Course summary

After studying the educational material, students should master the practical skills of studying the nervous system, the basics of topical diagnosis and assessment of pathological symptoms and syndromes.

THE PLAN OF LECTURES on NEUROLOGY FOR AMU 3rd YEAR STOMATOLOGY FACULTY

6th SEMESTER

1	A brief history of the development of neurology. Development of neurology in Azerbaijan.	2			
	Impairment of motor functions. The main symptoms of pyramidal and extrapyramidal system				
	disorders. Brain. Symptoms of damage to the coordination system				
2	Sensation and its disorders. Afferent systems of the face and oral cavity. Vegetative nervous 2				
	system. Features of vegetative innervation of the face and oral cavity				
3	Cranial nerves. Trigeminal and facial nerves. Clinical symptoms of damage. Sensory organs.	2			
	Caudal group cranial nerves. (IX, X, XI, XII). Higher brain functions and its disorders.				
	Structure, functions. Symptoms of the disorder.	İ			
4	Serebrovascular diseases. Neuroinfections.	2			
5	Specific neurology of the face. Prosopalgia and prosoplegia. Diseases associated with	2			
	odor disorders (rhinitis, influenza, traumatic brain injury, Parkinson's disease,				
	Alzheimer's disease)	İ			
6	Regional neurostomatological diseases accompanied by autonomic and cephalic	2			
	disorders. Facial seizures and hyperkinesis.				
7	Epilepsy. Epileptiform paroxysms. Nerve and muscle diseases. Myodystrophies.	2			
	Amyotrophias. Myasthenia gravis. Myotonia. Myoplegia. Pyramid, extrapyramidal				
	and cerebral degenerations.				

Totally: 14 h.

THE THEMATIC PLAN OF PRACTICAL LESSONS on NEUROLOGY FOR AMU 3rd YEAR STOMATOLOGY FACULTY STUDENTS

6th SEMESTER

1	Clinical anatomy of the spinal cord. Methods of examination of motor functions	2				
	(muscle tone, volume of active and passive movements, reflexes).					
2	Movement and its disorders. Peripheral and spastic paralysis. The main symptoms of	2				
	disorders of peripheral nerves and plexuses. Cerebellum. Basic anatomical and					
	physiological information. Symptoms of the disorder. Methods of examination of cerebral					
	function.					
	Extrapyramidal system, syndromes of damage.					
3	Sensation and it pathways. The features of face sensory innervations. Sensory	2				
	lesions. The types of sensory lesions in the face. The examination methods of					
	sensation					
4	Cranial nerves. Anatomy and physiology. The syndromes and symptoms of the I, II,	2				
	III, VI, cranial nerves lesions. The examination of olfactory, optic andoculomotor					
	nerves function					
5	Trigeminal and facial nerves. Lesion symptoms. The examination of V and VII cranial	2				
	nerves function					
6	IX, X, XI, XII cranial nerves. Bulbar andpsevdobulbarpalsy. The examination methods	2				
	of bulbar group cranial nerves					
7	Methods of examination of the functions of the autonomic nervous system. Features of	2				
	the vegetative innervation of the face and mouth cavity. Symptoms and syndromes of its					
	clinical damage.					
8	Brain cortex. The localization of higher brain functions. Symptoms of disturbance	2				
9	Meningeal syndrome. Examination of cerebrospinal fluid. Neuroinfections.	2				
	Neurovascular diseases					
10	Prosopalgias. Classification of facial pain. Trigeminal neuralgia.	2				
	Curatorial methods of neurostomatological patients.					
11	Damage to the nervous system of the face and tongue. Mouth cavity syndromes.	2				
12						
13	Vegetative syndromes. Hyperkinesis on the face.	2				
14	Neurovascular diseases. Diagnosis of acute vascular diseases of the brain, treatment	2				
	and prevention					
15	Epilepsy. Nervous and muscular diseases. Scheme of case history.	2				
	The final session	1				

Totally 31 h.

The structure of the practical lesson (2 acad. Hours - 1 hour 30 min.)

- 1. Introductory part 5 min study room
- 2. Discussion of the topic of the lesson 30 min study room
- 3. Demonstration of practical skills according to the topic, analysis of patients25 min clinic, study room
- Independent (self) work of students. Practical skills study and their delivery
 min clinic, study room
- 5. Completion of the lesson, homework 5 min study room

Total: 1 hour 30 minutes

Evaluation

In order to get credits for the discipline, you need to score 100 points:

50 points - before the exam

Including:

10 point - admission rate

10 point - completion of the essay (abstract)

10 point - practical skills

20 points - points scored for seminars

50 points - exam results

The exam is conducted on a test system. The test includes 50 questions. The answer to each question is worth 1 point. Incorrectly answered questions deduct points for correctly answered questions.

NOTE

The exam requires a minimum of 17 points. The points for the exam and the lesson before the exam are summed up:

A - "Excellent" -91 - 100

B - "Very good" -81 – 90

C - "Good" -71 - 80

D - "Mediocre" -61 - 70

E - "Satisfactory" -51 - 60

F - "Unsatisfactory" - less than 51 points

ESSAY

During the semester, 10 abstracts are completed. Each task is estimated at 1 point. Reception of the abstract ends at the end of the 14th week of classes.

The abstract is done in handwritten way (legible handwriting) or in writing in a word file; volume 1-2 pages (font 12). Each essay is an independent student's work. Plagiarism is not allowed.

Abstract topics - 1 point

- 1. Spinal cord. Clinical Anatomy
- 2. Symptoms of spinal cord injury
- 3. Pathways of the cerebellum
- 4. Pathways of the spinal cord

- 5. Medulla oblongata, clinical anatomy
- 6. Midbrain, clinical anatomy
- 7. Varolie bridge, clinical anatomy
- 8. Reticular format
- 9. Limbic system
- 10. Neurotransmitters
- 11. Olfactory nerve, structure, symptoms of damage
- 12. Optic nerve, structure, symptoms of damage
- 13. Types of hemianopsia
- 14. Methods for the study of the visual analyzer
- 15. Eyeground, norm and pathology
- 16.III pair of cranial nerves, structure, symptoms of damage
- 17. Posterior longitudinal bundle
- 18. Types of squint and double vision
- 19. Pupil, norm and pathology
- 20. IV pair of cranial nerves, structure, symptoms of damage
- 21. VI pair of cranial nerves, structure, symptoms of damage
- 22. V pair of cranial nerves, structure, symptoms of damage
- 23. VII pair of cranial nerves, structure, symptoms of defeat
- 24. Facial nerve, damage to the intracranial branches
- 25. VIII pair of cranial nerves, structure, symptoms of damage
- 26. Methods of research auditory analyzers
- 27. Vestibular analyzer, symptoms of lesion
- 28. IX pair of cranial nerves, structure, symptoms of damage
- 29. Taste function, Research methods, symptoms of defeat
- 30. X pair of cranial nerves, structure, symptoms of damage
- 31. XI pair of cranial nerves, structure, symptoms of lesion
- 32. XII pair of cranial nerves, structure, symptoms of lesion
- 33. Bulbar and pseudobulbar paralysis
- 34. Motor path

- 35. Methods for the study of the motor system
- 36. Symptoms of spinal cord injury at different levels
- 37. Study of physiological reflexes
- 38. Study of pathological reflexes
- 39. The structure and symptoms of lesions of the peripheral motor neuron
- 40. The structure and symptoms of lesions of the central motor neuron
- 41. Alternating paralysis
- 42. Study of gait, types of disorders
- 43. Central paralysis
- 44. Peripheral paralysis
- 45. Extrapyramidal system
- 46. Akinetico-rigid (pallidary syndrome)
- 47. Hypotonic hyperkinetic syndrome
- 48. Types of hyperkinesis and tremor
- 49. Cerebellum. Symptoms of defeat
- 50. Types of research of the coordination system
- 51. Types of ataxia
- 52. General sensitivity and its types
- 53. Ways of sensitivity, topical diagnosis of lesions
- 54. Clinical variants of sensitive disorders
- 55. Thalamic, capsular and polyneuropathic syndromes
- 56. Research methods of sensitivity system
- 57. The structure of the parasympathetic nervous system
- 58. The structure of the sympathetic nervous system
- 59. Methods for the study of the autonomic nervous system
- 60. Hypothalamus, structure and function
- 61. Symptoms of damage to the autonomic nervous system
- 62. Types of pelvic dysfunctions
- 63. Autonomic innervation of the bladder, pathology options
- 64. Cortex of the cerebral hemispheres

- 65. Localization of the main cortical functions
- 66. Methods for the study of cortical functions
- 67. Types of cortical disorders
- 68. Types of aphasia
- 69. Types of agnosia
- 70. Types of impairment of consciousness
- 71. Intelligence and methods of its assessment
- 72. Memory and types of memory impairments
- 73. Types of apraxia
- 74. The membranes of the brain
- 75. Meningeal syndrome
- 76. CSF in health and disease
- 77. Technique of lumbar puncture
- 78. Indications and contraindications for lumbar puncture
- 79. The clinical significance of craniography
- 80. Signs of intracranial hypertension on the craniogram
- 81. Radiopaque methods of studying the nervous system
- 82. Angiography of cerebral vessels
- 83. Methods of ultrasound examination of the brain
- 84. Echoencephalography
- 85. Doppler
- 86 Electroencephalography
- 87. Rheoencephalogy
- 88. Thermography
- 89. Electromyography
- 90. Modern methods of research of the nervous system
- 91. Computed tomography
- 92. Monitoring electroencephalography
- 93. Magnetic resonance imaging
- 94. Positron emission tomography

- 95. Spondylography
- 96. Myelography in the diagnosis of spinal cord diseases
- 97. Methods for assessing blood flow in the vessels of the brain
- 98. Cervical plexus and its nerves
- 99. Brachial plexus and its nerves
- 100. Lumbar plexus and its nerves
- 101. Sacral plexus and its nerves
- 102. Study of the nervous status of newborns
- 103. Scheme for assessing the nervous status in the history of the disease

Evaluation of abstracts is recorded in the teacher's journal and (or) in the computer system.

LITERATURE

- 1. R.K. Şirəliyeva.Sinirsistemixəstəlikləri.Bakı 2003
- 2. R.K. Şirəliyeva.Nevrologiya.Bakı.2007
- 3. T.Q.Qədirovavə b.Uşaqsinirxəstəlikləri.Bakı 1991
- 4. T.M.Nəbiyev.NeyrostomatologiyaBakı 2019.
- 5. UE Gusev et al. Neurology and neurosurgery.2015
- 6. З.А.Суслина и др. Неврология. 2015
- 6. A.S. Petrukhin.Pediatric neurology.2009
- 7. Richard S. Snell Clinical Neuroanatomy
- 8. Roger P. Simon, Michael J. Aminoff, David A. Greenberg. Lange. Clinical Neurology. 10th edition

Appendix No 1

Rules for assessing the admission rate of students enrolled in the credit system

(The decision was approved by the Academic Council of AMU No. 10 of 25.06.2019)

Checkout

Total number of hours	Number of hours missed									
	1	2	3	4	5	6	7	8	9	10 and
										more
45	0	0,5	0,75	1	1,2	1,4	1,6	1,75	2	Not
									points	allowed
									limit	to
										attend
										the
										exam

Appendix No. 2

A student who missed more than 40% of the lecture (regardless of the absence at practical classes) is not allowed to attend the exams.

Estimating missed lecture hours

Number of lecture hours	Numb	er of	hours	Percentage	of
	missed			absences	
	(not	allowing	exam		

	attendance)	
4	2	50%
6	3	50%
8	4	50%
10	5	50%
12	5	42%
14	6	43%
16	7	44%
20	9	45%
30	13	43%