

University of Mostar, Faculty of Medicine

Medical Study in English

Course in Neurology

Course leader: Ass. Prof. Nataša Pejanović-Škobić, MD, PhD

Academic Year: 2021/2022

October 4 - 22, 2021.

I. COURSE AIMS:

- To learn the meaningful approach to the case history, neurological status and clinical way of making a decision in neurology
- To encourage the independent gaining of knowledge
- To learn how to present patients verbally
- To prepare concise and clear neurological medical findings
- To learn how to carry out the neurological status and how to differentiate normal findings and neurological disturbances
- To learn how to localise the site of lesion in the central nervous system which could cause the patient's symptoms and signs
- To learn how to formulate the differential diagnosis
- To learn how to perform lumbar puncture
- To learn how to order and interpret findings of usual examinations which are being used in diagnostics of neurological diseases
- To understand the principles of treatment of the most frequent neurological disorders

II. LOCATIONS:

Lectures will take place at the Faculty of Medicine University of Mostar, Bijeli brijeg bb, 88000 Mostar

Seminars will take place at the Faculty of Medicine University of Mostar, Bijeli brijeg bb, 88000 Mostar

Practicals will be held in the divisions or in the laboratories of the Clinic of Neurology, University Clinical Hospital Mostar, Bijeli brijeg bb, 88000 Mostar

III. COURSE STRUCTURE:

Total: 90 hours

lectures (L): 24 hours

seminars (S): 25 hours

practicals (P): 41 hours

IV. MEDICAL STUDY IN ENGLISH: NEUROLOGY - COURSE SCHEDULE 2021-2022

Date	Title	Time	Topic	Hrs	Lecturer	Place
Monday 04.10.2021.	L1	08.30-10.00	Introduction	2	Nataša Pejanović-Škobić	Medical faculty (MEF)
	S1	10.05-10.50	Case history of neurological patient	1	Nataša Pejanović-Škobić	MEF
	S2	10.55-11.40	Examination of neurological patient - Crania nerves	1	Nataša Pejanović-Škobić	MEF
	P1	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Tuesday 05.10.2021.	L2	08.30-10.00	Functional neuroanatomy	2	Nikolina Pravdić	MEF
	S3	10.05-10.50	Examination of neurological patient - Motor system	1	Davor Batinić	MEF
	S4	10.55-11.40	Examination of neurological patient - Sensory system	1	Davor Batinić	MEF
	P2	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Wednesday 06.10.2021.	L3	08.30-10.00	Cerebrovascular disorders	2	Nataša Pejanović-Škobić	MEF
	S5	10.05-10.50	Cerebrovascular disorders - clinical picture	1	Marija Bender	MEF
	S6	10.55-11.40	Ultrasound of the head and neck blood vessels	1	Marija Bender	MEF
	P3	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Thursday 07.10.2021.	L4	08.30-10.00	Movement disorders	2	Nikolina Pravdić	MEF
	S7	10.05-10.50	Movement disorders - clinical picture	1	Nikolina Pravdić	MEF
	S8	10.55-11.40	Pain and pain syndromes	1	Nikolina Pravdić	MEF
	P4	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology

Date	Title	Time	Topic	Hrs	Lecturer	Place
Friday 08.10.2021.	L5	08.30-10.00	Dementia	2	Anđelko Vrca	MEF
	S9	10.05-10.50	Clinical picture of patient with dementia	1	Anđelko Vrca	MEF
	S10	10.55-11.40	Brain stem syndromes	1	Marija Bender	MEF
	P5	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Monday 11.10.2021.	L6	08.30-10.00	Intensive care neurology	2	Nataša Pejanović-Škobić	MEF
	S11	10.05-10.50	Spinal disorders	1	Davor Batinić	MEF
	S12	10.55-11.40	Genetics of neurological diseases	1	Nataša Pejanović-Škobić	MEF
	P6	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Tuesday 12.10.2021.	L7	08.30-10.00	Demyelinating disorders	2	Inge Klupka-Sarić	MEF
	S13	10.05-10.50	Treatment of multiple sclerosis	1	Inge Klupka-Sarić	MEF
	S14	10.55-11.40	Localisation in clinical neurology	1	Davor Batinić	MEF
	P7	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Wednesday 13.10.2021.	L8	08.30-10.00	Comma and brain death	2	Nataša Pejanović-Škobić	MEF
	S15	10.05-10.50	Autonomic nervous system disorders - selected topics	1	Nataša Pejanović-Škobić	MEF
	S16	10.55-11.40	Emergency neurology	1	Marija Bender	MEF
	P8	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Thursday 14.10.2021.	L9	08.30-10.00	Headache and cranial neuralgias	2	Nataša Pejanović-Škobić	MEF
	S17	10.05-10.50	Low back pain	1	Nataša Pejanović-Škobić	MEF
	S18	10.55-11.40	Diagnosis of cerebrospinal fluid	1	Inge Klupka-Sarić	MEF
	P9	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology

Date	Title	Time	Topic	Hrs	Lecturer	Place
Friday 15.10.2021.	L10	08.30-10.00	Neuromuscular disorders	2	Inge Klupka-Sarić	MEF
	S19	10.05-10.50	Electromyoneurography	1	Davor Batinić	MEF
	S20	10.55-11.40	CNS infections	1	Marija Bender	MEF
	P10	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Monday 18.10.2021.	L11	08.30-10.00	Central nervous system tumors	2	Inge Klupka-Sarić	MEF
	S21	10.05-10.50	Paraneoplastic neurologic syndromes	1	Inge Klupka-Sarić	MEF
	S22	10.55-11.40	Consciousness and disturbances of consciousness	1	Nataša Pejanović-Škobić	MEF
	P11	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Tuesday 19.10.2021.	L12	08.30-10.00	Epilepsy and paroxysmal consciousness disorders	2	Silvio Bašić	MEF
	S23	10.05-10.50	Epilepsy - clinical picture	1	Silvio Bašić	MEF
	S24	10.55-11.40	Electroencephalography	1	Silvio Bašić	MEF
	P12	12.00-13.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Wednesday 20.10.2021.	S25	08.30-09.15	My hardest clinical case	1	Davor Batinić	MEF
	P13	09.30-11.00	Practicals	2	Lecturers and assistants	Clinic of Neurology
	P14	11.00-12.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
	P15	13.00-14.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
Thursday 21.10.2021.	P16	09.30-11.00	Practicals	2	Lecturers and assistants	Clinic of Neurology
	P17	11.00-12.30	Practicals	2	Lecturers and assistants	Clinic of Neurology
	P18	13.00-14.30	Practicals	2	Lecturers and assistants	Clinic of Neurology

Date	Title	Time	Topic	Hrs	Lecturer	Place
Friday 22.10.2021.	P19	10.00-11.30	<i>Practicals</i>	2	Lecturers and assistants	Clinic of Neurology
	P20	11.30-13.45	Preliminary examination (practical)	3	Lecturers - examiners	Clinic of Neurology

Practicals:

P1: History and examination

P2: Motor system

P3: Sensation

P4: Cranial nerve I: Olfactory nerve

P5: Cranial nerves II, III, IV, VI: Eye

P6: Cranial nerves V and VII: The face

P7: Cranial nerve VIII: Auditory nerve

P8: Cranial nerves IX, X, XII: The mouth

P9: Cranial nerve XI: Accessory nerve

P10: Diagnostic methods in neurology: EMNG practicals

P11: Diagnostic methods in neurology: Ultrasound of the head and neck vessels

P12: Diagnostic methods in neurology: EEG practicals

P13: Gait

P14: Coordination

P15: The autonomic nervous system

P16: Speech

P17: Mental state, higher function

P18: Summary of standard neurological examination – 1

P19: Summary of standard neurological examination – 2

P20 Preliminary examination – practical exam

V. EXAMINATIONS:

Students need to prepare actively for participating in seminars and practicals.

Testing of knowledge is done by preliminary exam (examination of the neurological patient), written and oral final exam

Presence on the lectures, seminars and practicals is obligatory. Student can miss only 20% of the selected topics (reasonable grounds).

Preliminary exam (examination of the neurological patient) will be held on the last day of the Course.

After finishing the course students have to gather signature of the Course leader / Chair of the Department in Index (before written exam) as prove they have finished the Course and have prerequisite for the final exam.

Written exam consists of multiple choice questions. Passing the written exam is a requirement for approaching the oral exam.

The results of the written exam are acknowledged by the end of the ongoing academic year. After that, students have to take the written exam again.

The whole exam should be finished within 5 days after completion of the written exam.

VI. COURSE GRADES:

Written exam:

45-50 points - excellent (5) - (A)

40-44 points - very good (4) - (B)

34-39 points - good (3) - (C)

28-33 points - satisfactory (2) - (D)

0-27 points - fail (1) - (F)

Oral exam:

excellent (5) - (A); very good (4) - (B); good (3) - (C); satisfactory (2) - (D); fail (1) - (F).

Final course grade is calculated as a mean from final written (30%) and final oral (70%) exam grades.

VII. REGULAR DATES OF WRITTEN EXAM:

Written exam is usually held on Monday morning and oral exams are held through the entire week.

1st exam term: 25th October 2021

2nd exam term: 7th February 2022

3rd exam term: 11th July 2022

4th exam term: 12th September 2022

VIII. LITERATURE:

Recommended:

Simon RP, Aminoff MJ, Greenberg DA. Clinical Neurology. 10th Edition. New York: Lange Medical Books/McGraw Hill, 2018.

Supplementary:

Mattle H. Mumenthaler M. Fundamentals of Neurology, An illustrated Guide, Second edition. Thieme, 2017.

Adams AC. Mayo Clinic Essential Neurology. Rochester (2nd edition): Mayo Foundation for Medical Education and Research, 2017.

Fuller G. Neurological Examination Made Easy. Sixth Edition. Elsevier, 2019.

IX. LIST OF LECTURERS AND TEACHING STAFF

1. Assistant Professor Nataša Pejanović-Škobić, MD, PhD, neurologist – *Course leader*
2. Assistant Professor Inge Klupka-Sarić, MD, PhD, neurologist – *Course leader deputy*
3. Assistant Professor Nikolina Pravdić, MD, PhD, neurologist - *Secretary of the Course in Neurology*
4. Assistant Davor Batinić, MD, MSc, neurologist
5. Assistant Marija Bender, MD, MSc, neurologist
6. Professor Silvio Bašić, MD, PhD, neurologist (Zagreb, Croatia)
7. Professor Anđelko Vrca, MD, PhD, neurologist (Zagreb, Croatia)

X. LIST OF EXAMINERS FOR 2021/2022. ACADEMIC YEAR

1. Assistant Professor Nataša Pejanović-Škobić, MD, PhD, neurologist
2. Assistant Professor Inge Klupka-Sarić, MD, PhD, neurologist
3. Assistant Professor Nikolina Pravdić, MD, PhD, neurologist

Course leader:
Ass. Prof. Nataša Pejanović-Škobić, MD, PhD