

Carol Davila" University of Medicine and Pharmacy Quality Assurance Committee

DISCIPLINE SHEET

1. Data about the programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	FACULTY OF MEDICINE
1.3.	DEPARTMENT: THE 6th CLINICAL DEPARTMENT - CLINICAL NEUROSCIENCES
1.4.	DISCIPLINE : NEUROLOGY
1.5.	DOMAIN OF STUDY: HEALTH - Sectorally regulated within the European Union
1.6.	STUDY CYCLE: LICENCE
1.7.	STUDY PROGRAME: MEDICINE – ENGLISH MODULE

2. D	ata about	discipli	ne				
2.1.	Name of	Name of the discipline in the educational plan: NEUROLOGY					
2.2.	Disciplin	ie code:	DS V 5M				
2.3.	Disciplin	ie type (FD/SD/CD): SD				
2.4.	Disciplin	ie regim	en (DOB/MD/OPI	D/): DOB			
2.5.	The hole	ler of th	e course activities:	· ·		3	
2.6.	The hole	ler of th	e seminar activitie	s :			
		· · ·			1		
	ear of		2.8. Semester	IX -X	2.9. Type of	${f E}$	
study	1				evaluation		
			1		(F/C)		

3. Total estimated time (hours/semester of didactic activity and self preparation/study)

I. Academic training (teaching, practical application, assessment)							
3.1 Number of hours per week	25	Out of which:	3.2 course	10	3.3 Clinical seminar	15	
3.4 Total number of hours from curriculum	105	Out of which:	3.5 course	42	3.6 Clinical seminar	63	
Evaluation (nr of hours): 3 h/student (practical exam and written exam)							

Evaluation (nr of hours): 3 h/student (practical exam and written exam)	
II. Self preparation/study	
Time allocation	hours
Study of course materials, textbooks, books, study of the recommended minimal bibliography	46
Additional research in the library, research trough the internet	23
Performing specific activities for preparing projects, laboratories, elaborating reviews or other tasks	11
Specific preparation activities for projects, laboratory work, assignments and reports	23
Tutoring	11
Other activities	11
3.7. Total hours of individual studying	125
3.9 Total hours/semester (3.4 + 3.7)	238

3.10. Number of credits				7	
4. Preconditions (where applical	ble)				
4.1. of curriculum		Not applicable	-		
4.2. of competences		Not applicable			
5. Conditions (where applicable)				
5.1. to conduct the lecture					
5.2. to conduct the seminar / laboratory		A clinical department that allo presentations, and demonstrat		taminations, case	
6. Learning outcomes		· · · · · · · · · · · · · · · · · · ·	~		
Knowledge		Skills	au	nsibility and itonomy	
Description of concepts, theories and fundamental notions regarding the mechanisms of diseases, the signs and symptoms characteristic for each disease, useful for clinical diagnosis in neurology	neur neur incre prev popu eme deat	correct diagnosis of cological syndromes, of cological diseases with eased incidence and calence in the general culation and of medical regencies (due to the risk of h and major disability)	main neurol symptoms, e of neurologi	y to identify the ogical signs and especially in case cal emergencies.	
The description of the mechanisms of action of the main drugs used in neurological conditions, their indications and contraindications, adverse effects and therapeutic resources used in medical practice, as well as the identification of basic life support maneuvers in first aid or emergency conditions in neurology	The correct assessment of the risk of acquiring a disease or the context of the occurrence of an individual/collective illness, followed by the choice and application of appropriate preventive measures		neurological the pre-hosp including ad the nearest r	dressing them to neurology able to provide	
Identifying the objectives to be achieved, the available resources, the conditions for their completion, work stages, working times, related deadlines and related risks in various neurological pathologies 7. Course objectives (aligned with	resp muli effect a teat with	tifying the roles and onsibilities in a tidisciplinary team, applying ctive work techniques within am and in direct relationship the neurological patient	communicat assisted pro- (internet por software ap- databases, o etc.) both in	resources and tion resources and fessional training tals, specialized	
			the dogress of	medical	
7.1. General objective	Identifying the state of the disease, the degree of medical emergency, as well as establishing the correct diagnosis of the neurological condition(s). Cultivating the principles of medical ethics in neurology				
7.2. Specific objective	Conception and application of a therapeutic plan suitable for the identified neurological condition Establishing solid and effective communication relationships between doctor and patient, developing doctor-patient, doctor-patient's family or relatives relationship				

8. Contents

8.1. Lecture	Teaching methods	Observations
	The courses are held in a	The courses are
	room technically equipped for	updated in terms of
	this purpose (PC, video	information, according
	projector, magnetic board).	to textbooks, national
	The courses have electronic	and international
	support.	practice guidelines,
		specialized journals,
		books edited by the
		teaching staff of the
		discipline as well as
		new data on specialized
		websites.
Course 1: Notions of neurobiology and the		2 h
functional organization of the nervous		
system. Motility. Upper motor neuron		
syndrome		
Course 2: Lower motor neuron syndrome		2 h
Course 3: Basal ganglia - anatomy and		2 h
physiopathology. Parkinsonian syndrome		
and involuntary movements		
Course 4: Parkinson's disease and		2 h
parkinsonian syndromes		
Course 5: Choreic syndromes.		2 h
Wilson's disease, Huntington's disease and		
dystonias		
Course 6: The cerebellum and coordination		2 h
Course 7: Somesthetic sensitivity.		2 h
Nociceptive and neuropathic pain		
Course 8: Cranial nerves I-VI – anatomy,		2 h
clinical syndromes	ň.	
Course 9: Cranial nerves: VII-XII –		2 h
anatomy, clinical syndromes		
Course 10: Consciousness in normal and		2 h
pathological conditions (sleep, coma, brain		
death)		
Course 11: Cortical syndromes: aphasia,		2 h
apraxia, agnosia, memory disorders		
Course 12: Vascular system of the brain.		2 h
Ischemic stroke		
Course 13: Cerebral and subarachnoid		2 h
hemorrhage		
Course 14: Cerebral venous thrombosis.		2 h
Spinal vascular disease		
Course 15: Primary and secondary		2 h
headaches		
Course 16: Neurocognitive disorders		2 h
Course 17: Epileptic seizures and adult		2 h
*1		
epilepsy Course 18: Neuroinfections		2 h

Course 19: Multiple sclerosis and other	2 h
demyelinating diseases	
Course 20: Peripheral nerve disorders	2 h
Course 21: Muscular and neuromuscular	2 h
junction diseases	

Recent Bibliography

- Harrison's Principles of Internal Medicine (Neurologic Disorders) any edition starting with the XVIIth
- Adam Feather, David Randall, Mona Waterhouse: "Kumar şi Clark Clinical Medicine" 10th Edition, Romanian, Hipocrate Publishing House, Bucharest, 2021, 26th chapter Neurology

- Geraint Fuller - "Clinical Neurological Examination", Callisto Publishing, 2007

8.2. Laboratory/ practical lesson	Teaching methods	Observations
	Demonstration and	The teaching methods are
	coordination of the	aimed at getting familiar
	acquisition of neurological	with the neurological
	clinical examination skills.	patient, knowing the
		ethical principles and communication
		techniques with the
		patient and his family,
		knowing the specific
		methods of diagnosis and
		treatment, interpreting
		the results of imaging and
		laboratory examinations
		specific to neurological
		pathology. Presentations of clinical
		cases daily, with different
		degrees of difficulty, in
		accordance with the study
		program
		Encouraging interactive
		discussions and the active
		participation of students
		based on the presented clinical cases, diagnostic
		algorithms and treatment
		plans for neurological
		conditions
1. Anamnesis. Particular clinical attitudes		3h
2. Diagnosis of meningeal syndrome		3h
3. Motor examination		3h
4. Examination of sensibility		3h
5. Cranial Nerves Examination		3h
6. Spinal nerves examination		3h
7. Autonomic nervous system examination		3h
8. Language examination		3h
Praxia and gnosia examination		
9. Minimal neuropsychological		3h
examination		

10. Consciousness state examination	3h
11. Examination of patients in status of coma	3h
12. Examination of stroke patients (TIA, ischemic or haemorhagic stroke, venous)	3h
13. Examination of patients with epilepsy	3h
14. Examination of patients with Parkinson's disease and other parkinsonian syndromes	3h
15. Examination of patients with chorea	3h
16. Examination of patients with ataxia	3h
17. Examination of patients with acute and chronic peripheral neuropathies	3h
18. Examination of patients with muscular disorders	3h
19. Examination of patients with multiple sclerosis	3h
20. Examination of patients with medullary syndromes	3h
21. Examination of patients with brain tumors	3h

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9. Evaluation

Activity type	9.1. Evaluation	9.2. Evaluation	9.3. Percentage in the
	criteria	methods	final grade
9.4. Lecture	The level of aquired	Written exam with 15	80%
	knowledge of diagnosis	questions with open	
	and treatment of	answers, from the	
	neurological disorders	displayed topic:	
		- 10 from general and	
		adult neurology	
		(68%)	
		- 4 from pediatric	
		neurology (26%)	
		- 1 from neurosurgery	
		(6%)	
9.5. Seminary/	- Involvement in the	Practical exam	Clinical/practical
practical activity	daily activity at the	consisting in -	examination: 20%
-	bedside	performing	Obs.: the practical exam
	- Involvement in case	neurological diagnostic	takes place before the
	presentations and	maneuvers and their	written exam and is
	interactive discussions	interpretation	eliminatory

	- Neurological examination skills - Seminars attendance		
9.5.1. Individual	-	-	-
project (if applicable)			

9.6. Minimum performance standard

The pass grade is 5 for each of the assessment methods (written test and practical exam).

The final mark is established based on the evaluation criteria taken into account in a weighted manner with the ratio of 20%, (general neurology practical exam), 80% (written exam) and for passing must be at least 5.

The general neurology practical exam is graded from 1 to 10 and is an eliminatory test, the minimum passing grade being 5 (a grade below 5 in this test does not allow the student to take the written exam). The grade for the practical exam also takes into account the degree of involvement and participation of the student in the didactic activity throughout the internship.

The pediatric neurology practical exam is a graded test (admitted / rejected) and is eliminatory, (the grade rejected in this test does not allow the student to take the written exam)

Students who do not meet the UMFCD criteria related to attendance at the internship are not accepted for the practical exam

Date of completion:

Signature of

the course holder

Signature of the laboratory holder

Date of approval by the Department Council:

Signature of the Department Director