



SUBJECT OUTLINE

1. Programme of study description

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	THE FACULTY OF MEDICINE / THE 6th CLINICAL DEPARTMENT: CLINICAL NEUROSCIENCES
1.3.	DISCIPLINE: NEUROSURGERY
1.4.	DOMAIN OF STUDY – HEALTHCARE – regulated sector within the EU
1.5.	CYCLE OF STUDIES: BACHELOR'S DEGREE
1.6.	PROGRAMME OF STUDY: MEDICINE

2. Subject description

2.1.	Name of the subject/compulsory subject/elective subject within the discipline: NEUROSURGERY							
2.2.	Location of the discipline:							
2.3.	Course tenured coordinator:							
2.4.	Practicals/clinical rotations tenured coordinator:							
2.5. Year of study	V	2.6. Semester	IX, X	2.7. Type of assessment	Written exam	2.8. Subject classification	Mandatory Specialty Discipline	

3. Total estimated time (hours/semester of didactic activity) – teaching module

Number of hours per week	10	Out of which: course	4	Clinical seminar	6
Total number of hours from curriculum	10	Out of which: course	4	Clinical seminar	6
Distribution of the allocated time	2 days				
Study from textbooks, courses, bibliography, and student notes					Individual study with personalised length outside of the hours of the course
Additional library study, study on specialized online platforms and field study					same
Preparing seminars / laboratories, assignments, reports, portfolios and essays					same

Tutoring	same
Examinations	3 hours/ student
Other activities	
3.7. Total hours of individual study	Personalised, on average 2 hours/day/student outside of the course hours(<i>besides teaching hours</i>)
3.10. Number of credits	0

4. Prerequisites (where applicable)

4.1. of curriculum	Not applicable
4.2. of competencies	Not applicable

5. Requirements (where applicable)

5.1. courses	Laptop, AV projector, lecture hall
5.2. seminars/labs	Department of Neurosurgery of...

6. Acquired specific competencies

6.1. Professional competencies (expressed through knowledge and skills)	<p>Definition of intracranial and spinal masses, brain and spinal tumors, brain pseudotumors</p> <p>Definition of intracranial hypertension syndrome, hypotension syndrome, focal neurologic syndromes supra/infratentorial; brain/spine; specific developmental and progression stages for tumoral and traumatic lesions of the brain and spine in the adult, elderly and paediatric population</p> <p>Definition of modern brain and spine diagnostic procedures</p> <p>Definition of pressure cones, Glasgow Coma Scale, Glasgow Outcome Scale</p> <p>Principles of neurosurgical treatment: conservative and surgical management indications, polytrauma</p>
6.2. Transversal competencies (of role, of professional and personal development)	<ul style="list-style-type: none"> • Identification of proposed objectives and resources; • Identification of roles and responsibilities in a multidisciplinary team • Efficient usage of sources of information, communication and professional development: databases, internet portals, course handovers/on-line resources • Presentation of information from courses/seminars • Communication and assisted professional development (internet portals, specialized software applications, databases, online courses, etc.)

7. Subject learning objectives (based on the scale of acquired specific competencies)

7.1. . General learning objectives	<p>Identification of neurosurgical emergencies from the tumoral and traumatic brain and spine pathology</p> <p>Notions of following pathologies: brain and spine tumors, cranio-cerebral and vertebra-medullary trauma</p>
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	Principles of conservative and neurosurgical treatment for the neurosurgical pathology in cases of polytrauma Defining a correct diagnosis (neurological diseases) Learning of medical ethical principles in neurology/neurosurgery
7.2. Specific learning objectives	Supporting the neurosurgical diagnosis through clinical and paraclinical exams

3. Content

8.1. Course	Teaching methods	Observations (number of hours)
Course 1: Cranio-cerebral and vertebro-medullary trauma	Lectures are held in a lecture hall with proper technical equipment	
Course 2. Intracranial tumors. Vertebro-medullary tumors.		
8.2. Clinical Seminar (CS)		
SC 1: Neurosurgical semiology		1,5 hours
SC 2: Cranio-cerebral and vertebro-medullary trauma		1,5 hours
SC 3: Intracranial tumors. Vertebro-medullary tumors.		1,5 hours
SC 4: Technological advances in the surgical approach of the tumors of the central nervous system		1,5 hours

Bibliography for course and seminars

- Adam Feather, David Randall, Mona Waterhouse: Kumar și Clark Medicină Clinică.** Leonard Azamfirei, Anca Dana Buzoianu, Dan Ionuț Gheonea – coordonatorii ediției în limba română, Ediția a 10-a, Editura Hipocrate, București, 2021, CAP. 26 - NEUROLOGIE 1. Coma și alte tulburări ale conștiinței - p.832-836
- Peter F. Lawrence - Chirurgie generală și specialități chirurgicale.** Octavian Crețu, Viorel Jinga, Viorel Scripcariu – coordonatorii ediției în limba română, Ediția a 6-a, Editura Hipocrate, București, 2021, CAP. 9 - TRAUMATOLOGIE - p.87-106

9. Corroboration of the subject content with expectations of the representatives of the epistemic community, professional associations and major employers in the field of the programme of study

<p>Professional training of the fifth-year medical student at the Neurosurgical Discipline at ... Hospital respects the following main coordinates:</p> <ul style="list-style-type: none"> - recognizing the brain and spinal tumoral and traumatic neurosurgical emergencies; - evaluation of the state of consciousness – Glasgow Coma Scale; - information about tumoral and traumatic pathology; - correct diagnosis and proper therapeutic management; - principles of conservative and neurosurgical management in the neurosurgical pathology in case of polytrauma and establishing the treatment priorities; - effective communication with the patient and the patients' relatives; - preparing the future doctor to have an adequate professional communication with the future employer, represented by a medical facility with inpatient and outpatient wards.
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10. Assessment

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
10.1. Course	- capacity of obtaining new theoretical principles of neurosurgical diagnosis and treatment - attendance of courses	Evaluation during the exam from the discipline of neurology	6%
10.2. Clinical Seminar	- Capacity to synthesis the learnt notions and to apply them particularly on each case based on the individual clinical and pathological characteristics	Interpretation of clinical and paraclinical exams, treatment principles. Establishing a neurosurgical diagnosis	
Minimal performance standards			
<ul style="list-style-type: none">• Passing degree: 5• Final degree is based on the evaluation criteria in a percentual way: 6% (neurosurgery), 26% (pediatric neurology), 68% (general and adult neurology)• Practical exam is eliminatory, passing degree being 5. Students are not accepted at the practical exam if they do not meet their attendance criteria. The degree from practical exam takes into account the involvement of the student during the whole length of the courses and clinical seminars.• Written exam has a minimal passing degree of 5.			

Date of filling:

20 oct 2022

Signature of the course tenured coordinator

Signature of the seminars tenured coordinator

Date of approval in the Council of the Department:

Signature of the Head of the Department

Conf Dr Cristina Aura Panea