



## SUBJECT OUTLINE

### 1. Programme of study description

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

### 2. Subject description

2.1.	<b>Name of the subject/compulsory subject/elective subject within the discipline: PEDIATRIC NEUROLOGY</b>						
2.2.	<b>Location of the discipline:</b>						
2.3.	<b>Course tenured coordinator:</b>						
2.4.	<b>Practicals/clinical rotations tenured coordinator:</b>						
2.5. Year of study	V	2.6. Semester	IX and X	2.7. Type of assessment	Practical and written examination	2.8. Subject classification	DOS

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

Number of hours per week	25	Out of which: course	10	Clinical rotation	15
Total number of hours from curriculum	50	Out of which: course	20	Clinical rotation	30
Distribution of allotted time	2 weeks		5h/day		<b>Hours</b>
Study from textbooks, courses, bibliography, and student notes					<i>individual personalized study</i>
Additional library study, study on specialized online platforms and field study					<i>Idem</i>
Preparing seminars / laboratories, assignments, reports, portfolios and essays					<i>Idem</i>
Tutoring					<i>Idem</i>
Examinations					3 hours/student
Other activities					<i>Idem</i>
Total hours of individual study					<i>Personalized, average 2h/day/ student</i>
Number of credit points					0

### 4. Prerequisites (where applicable)

4.1. of curriculum	Knowledge of paediatric neurology
4.2. of competencies	Not applicable



### 5. Requirements (where applicable)

5.1. for delivering the course	Not applicable
5.2. for delivering the clinical rotation	Not applicable

### 6. Acquired specific competencies

<b>Professional competencies (expressed through knowledge and skills)</b>	<ul style="list-style-type: none"> <li>• Corect diagnosis of the neurological syndromes, of the paediatric neurological disorders with increased incidence and prevalence in the general population and of the disorders representing medical emergencies (increae vital risk or major invalidity) ;</li> <li>• Correct therapy of the pediatric neurological emergencies in pre-hospital setting and correct orientation toward the most appropriate pediatric neurology department where the emergency can be treated appropriately ;</li> <li>• Description of the mechanisms of action of drugs, of the indication and contraindication and side effects of therapeutic resources used in medical practice and knowledge of the resuscitation maneuvers in first aid/emergency conditions in paediatric neurology</li> <li>• The correct evaluation of disease risk or the context of appearance of an individual/collective disease, followed by the appropriate choice and use of the prophylaxy measures including genetic advice;</li> </ul> <p>Description theories and fundamental concepts of disease development, of the characteristic signs and symptoms for each condition, useful for the clinical diagnosis in paediatric neurology</p>
<b>Transversal competencies (of role, of professional and personal development)</b>	<ul style="list-style-type: none"> <li>• Identifying the objectives to be achived, of available resources, the conditions to finalise them, the work stages, work timing, related deadlines and risks in various pathologies from paediatric neurology</li> <li>• Identification of roles and responsibilities in an multi-disciplinary team, implementation of relationship and effective work techniques in the team and in relationship with the patient</li> <li>• Efective use of information sources and communication resources and Utilizarea eficientă a surselor informaționale și a resurselor de comunicare și assisted trainig (internet portals, spciality software applications, data bases, online trainig, etc) both in Romainian language and in an international language</li> </ul>

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

<b>7.1. General learning objective</b>	Identifying the status of disease, of the medical emergency degree, and the establishing the correct diagnosis of the disease (ilness) of paediatric neurology. Growing the medical ethics principles in paediatric neurology
<b>7.2. Specific learning objectives</b>	Design and implementation of a therapeutical plan adequated for the identified neurological disease. Establishing of a good and efective counication relationship between the doctor and the patient in the paediatric neurology pathology; developepement of the interrelationship doctor/patient, doctor-family/caregivers



## 8. Content

8.1. Course	Teaching methods	Observations
Course 1 Neurologic examination in children; Pshyo-motor development	English language lectures are presented in the amphitheatre and classrooms technically equipped for this purpose. All the lectures have electronic support and are updated according to the paediatric neurology books, specialty journals, books edited by the lecturers of the discipline, bibliographical materials used for the residency exam as well as the new data published online on the paediatric neurology pathology. Video examples are used.	Order may differ
Course 2 Epilepsies 1		
Course 3 Epilepsies 2		
Course 4 Status epilepticus in children; Neurocutaneous syndromes		
Course 5 Non-epileptic paroxysmic events. Febrile seizures		
Course 6 Headache in children		
Course 7 - Increased intracranial pressure and Hydrocephallus – the perspective of the pediatric neurologist - Perinatal Hypoxic-ischaemic encephalopathy		
Course 8 Cerebral palsy		
Course 9 Neuro-muscular disorders in children		
Course 10 Structural congenital deffects of the nervous system		
8.2. Clinical rotation	Teaching methods	Observations
SC 1 Psycho-motor development in children	The teaching methods aim at knowing the ethical principles and communication techniques with the patient and family, knowing the specific methods of diagnosis and treatment, interpreting the results of imaging and laboratory examinations specific to neurological pathology. Student are being asked to present clinical cases daily, with different degrees of difficulty, in accordance with the study program. Interactive discussions and the active participation of students are being encouraged based on the presented clinical cases, diagnostic algorithms and treatment plans for neurological conditions. Themes in the form of questionnaires that stimulate learning are used; the study of the bibliography based on theoretical questions and clinical cases is encouraged.	Order may differ
SC 2 Clinical cases - epilepsies		
SC 3 Clinical cases- cerebral malformations		
SC 4 Clinical cases – diverse PN pathologies		
SC 5 Clinical cases – cerebral palsy		
SC 6 Clinical cases – non-epileptic events based on video-examples and direct examination		
SC 7 Clinical cases – neuro-muscular disorders		
SC 8 Clinical cases and questions – from the PN pathology		
SC 9 Clinical cases and evaluation of students based on clinical questions and patients examination		
<b>Bibliography for course and clinical rotation</b>		
<ol style="list-style-type: none"> <li>1. Forsyth, Rob, and Richard Newton (eds), <i>Paediatric Neurology</i>, 3 edn, Oxford Specialist Handbooks in Paediatrics (Oxford, 2017; online edn, Oxford Academic, 1 Oct. 2017), <a href="https://doi.org/10.1093/med/9780198784449.001.0001">https://doi.org/10.1093/med/9780198784449.001.0001</a></li> <li>2. Yasser M Awaad. <i>Absolute Pediatric Neurology. Essential Questions and Answers</i>. Springer Verlag, 2018.</li> <li>3. J. Eric Piña-Garza and Kaitlin C. James. <i>Fenichel's Clinical Pediatric Neurology</i>, 8th Edition. A Signs and Symptoms Approach. Elsevier, 2019; ISBN Number 9780323485289;</li> </ol>		



4. Adam Feather, David Randall, Mona Waterhouse (Coordonatorii editiei in limba romana: Azamfirei L, Buzoianu AD, Gheonea DI. Kumar si Clark MEDICINA CLINICA. Editura Hipocrate, 2021.
5. Gandi L, Lebowitz D, Rosario J, Vera A (Coordonatorii editiei in limba Romana: Marginean CO, Poiana C). SINOPSIS DE MEDICINA. Editia a 5-a, Editura Hipocrate 2021;
6. Kenneth F. Swaiman, Stephen Ashwal, Donna M. Ferriero, Nina F. Schor, Richard S. Finkel, Andrea L. Gropman, Phillip L. Pearl, Michael I. Shevell, (Editors):Swaiman's Pediatric Neurology (Sixth Edition), Elsevier,2017, ISBN 9780323371018,https://doi.org/10.1016/B978-0-323-37101-8.00001-1.  
(<https://www.sciencedirect.com/science/article/pii/B9780323371018000011>)

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

Professional training of the V year student at the Paediatric Neurology Discipline follows several coordinates: correct diagnosis correlated with an adequate therapeutical scheme, knowledge of interdisciplinary approach, an effective communication relationship with the patient and his family and respect of etical principles.

**10. Assessment**

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
<b>Course</b>	According to marking scale	Written examination as a part of the common single exam – neurology	26% of the final grade in the common exam in neurology
<b>Clinical rotation</b>	Presence at the training, involvement in daily activity at the bedside, case presentation and interactive discussions	Practical examination is held separately, before the written exam, it is eliminative and consists of performing and interpretation of some neurological maneuvers and formulating the diagnosis and treatment plan for the neurological patient.	Eliminatory

**Minimum performance standard**

Minimum grade is 5 to graduate the course. Practical exam is eliminatory – minimum grade is 5. Presence is obligatory – Absent students will not be accepted in the final exam.

Date of filing  
20.10.2022

Signature of the course tenured coordinator

Signature of the seminar tenured coordinator

Date of approval in the Council of the Department:  
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Signature of the Head of the Department  
Conf. Dr. Panea Cristina