



SUBJECT OUTLINE

1. Programme of study description

1.1.	THE "CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	THE FACULTY OF MEDICINE / THE CLINICAL DEPARTMENT
1.3.	DISCIPLINA 2 Pediatrie
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: 2 Pediatrics						
2.2.	Location of the discipline:						
2.3.	Course tenured coordinator:						
2.4.	Practical/clinical rotations tenured coordinator: <ul style="list-style-type: none"> Asist. Univ. Dr. Sigrid Covaci (10 - 15 years experience); Asist. Univ. Dr. Comănici Valentina Daniela (10 - 15 years experience);. 						
2.5. Year of study	V	2.6. Semester	I II	2.7. Type of assessment	Written and practical exam	2.8. Subject classification	Mandatory

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

Number of hours per week	30	Out of which: course	10	Clinical rotation	20
Total number of hours from curriculum	228	Out of which: course	76	Clinical rotation	152
Distribution of allotted time	8 weeks		2 hours / day		4 Hours / day
Study from textbooks, courses, bibliography and student notes					-
Additional library study, study on specialized online platforms and field study					-
Preparing seminars / laboratories, assignments, reports, portfolios and essays					-
Tutoring					-
Examinations					2 days
Other activities					
Total hours of individual study					
Number of credit points					12

4. Prerequisites (where applicable)

4.1. of curriculum	Knowledge about Pediatrics and child health
4.2. of competencies	General clinical examination of the pediatric patient, interpretation of the results of paraclinical investigations, description of appropriate therapeutic principles; Knowledge of EKG in children and adolescents; General notions of ultrasound;



5. Requirements (where applicable)

5.1. for delivering the course	Classroom, laptop, multimedia projector, medical simulation with newborn, infant and child mannequins, ultrasound, electrocardiograph
5.2. for delivering the clinical rotation	The hospital wards

6. Acquired specific competencies

Professional competencies (expressed through knowledge and skills)	<p>At the end of the pediatric internship, the student must be able to:</p> <ul style="list-style-type: none">- describe the main pediatric conditions,- present notions of childcare,- describe diagnostic criteria and treatment principles for the main pediatric conditions <p>At the end of the internship, the student must be able to:</p> <ul style="list-style-type: none">- to examine pediatric patients,- to interpret the results of the investigations,- to state the diagnosis and principles of treatment,- to interpret EKG in children and adolescents,- to master general notions of ultrasound - newborn, infant, child or young person;
Transversal competencies (of role, of professional and personal development)	<p>Have the ability to work in a medical team</p> <ul style="list-style-type: none">• Communicate with patients and relatives• To show empathy and professional ethics

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

7.1. General learning objective	<p>At the end of the internship, the student must know:</p> <ul style="list-style-type: none">- the main pediatric diseases,- notions of childcare,- diagnostic criteria and treatment principles of the main pediatric conditions;
7.2. Specific learning objectives	<p>At the end of the internship, the student must be able to:</p> <ul style="list-style-type: none">- to examine pediatric patients,- interpret the results of investigations,- to state the diagnosis and principles of treatment,- to interpret EKG in children and adolescents,- to master general notions of ultrasound

8. Content

8.1. Course	Teaching methods	Observations
Course 1 Problems of diagnosis and treatment in Pediatrics	Oral presentation with multimedia support Interactive discussions	
Course 2 Growth and development	Oral presentation with multimedia support Interactive discussions	
Course 3 Nutrition and food	Oral presentation with multimedia support Interactive discussions	
Course 4 Nutrition and food	Oral presentation with multimedia support Interactive discussions	
Course 5 Vaccination recommendations in pediatrics	Oral presentation with multimedia support Interactive discussions	
Course 6 Newborn (full-term, premature)	Oral presentation with multimedia support	



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	Interactive discussions	
Course 7 The pathological newborn	Oral presentation with multimedia support Interactive discussions	
Course 8 Genetic and metabolic diseases	Oral presentation with multimedia support Interactive discussions	
Course 9 Deficiency pathology 1 (MPC, deficiency anemia)	Oral presentation with multimedia support Interactive discussions	
Course 10 Deficiency pathology 2 (common deficiency rickets)	Oral presentation with multimedia support Interactive discussions	
Course 11 Congenital heart diseases 1	Oral presentation with multimedia support Interactive discussions	
Course 12 Congenital heart diseases 2	Oral presentation with multimedia support Interactive discussions	
Course 13 Heart failure	Oral presentation with multimedia support Interactive discussions	
Course 14 Shock	Oral presentation with multimedia support Interactive discussions	
Course 15 Upper respiratory infections	Oral presentation with multimedia support Interactive discussions	
Course 16 Bronchiolitis, interstitial pneumonias, atypical pneumonias	Oral presentation with multimedia support Interactive discussions	
Course 17 Bacterial pneumonia	Oral presentation with multimedia support Interactive discussions	
Course 18 Recurrent wheezing. Bronchial asthma	Oral presentation with multimedia support Interactive discussions	
Course 19 Aplastic anemias	Oral presentation with multimedia support Interactive discussions	
Course 20 Hemolytic anemias	Oral presentation with multimedia support Interactive discussions	
Course 21 Hemorrhagic syndromes (thrombocytopenias/pathies, vasculopathies, coagulopathy)	Oral presentation with multimedia support Interactive discussions	
Course 22 Acute and chronic leukemias	Oral presentation with multimedia support Interactive discussions	
Course 23 Lymphomas, solid tumors	Oral presentation with multimedia support Interactive discussions	
Course 24 JIA, Lupus erythematosus	Oral presentation with multimedia support Interactive discussions	
Course 25 ARF, dermatomyositis	Oral presentation with multimedia support Interactive discussions	
Course 26 Adolescent medicine (obesity, behavioral disorders, abused child, drugs)	Oral presentation with multimedia support Interactive discussions	
Course 27 Simple acute diarrheal disease, acute dehydration syndrome	Oral presentation with multimedia support Interactive discussions	
Course 28 Chronic diarrheal diseases	Oral presentation with multimedia support Interactive discussions	
Course 29 Malabsorption syndromes	Oral presentation with multimedia support Interactive discussions	
Course 30 Infant and child jaundice	Oral presentation with multimedia support Interactive discussions	
Course 31 Chronic hepatitis/liver cirrhosis	Oral presentation with multimedia support	



	Interactive discussions	
Course 32 Urinary tract infections	Oral presentation with multimedia support Interactive discussions	
Course 33 Acute and chronic glomerulonephritides	Oral presentation with multimedia support Interactive discussions	
Course 34 Nephrotic syndromes	Oral presentation with multimedia support Interactive discussions	
Course 35 Acute and chronic renal failure	Oral presentation with multimedia support Interactive discussions	
Course 36 Congenital and acquired immunodeficiency syndromes	Oral presentation with multimedia support Interactive discussions	
Course 37 Cardio-respiratory resuscitation	Oral presentation with multimedia support Interactive discussions	
Course 38 Acute poisoning	Oral presentation with multimedia support Interactive discussions	
8.2. Clinical rotation	Teaching methods	Observations
CR 1 Presentation of the medical file dedicated to pediatric patient and the clinical examination in pediatrics	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 2 Diagnostic and treatment problems in pediatrics	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 3 Growth and development	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 4 Nutrition and Diet	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 5 Immunization recommendations in pediatrics	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 6 Newborn (full-term, premature)	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 7 The sick newborn	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 8 Genetic and metabolic diseases	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 9 Deficiency pathology 1 (MPC, deficiency anemia)	Examples through clinical case presentations Clinical examination, positive diagnosis,	



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CR 10 Deficiency pathology 2 (common deficiency rickets)	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 11 Congenital heart diseases 1	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
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CR 16 Bronchiolitis, interstitial pneumonias, atypical pneumonias	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
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	therapeutic attitude	
CR 36 Congenital and acquired immunodeficiency syndromes	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 37 Cardio-respiratory resuscitation	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	
CR 38 Acute poisoning	Examples through clinical case presentations Clinical examination, positive diagnosis, therapeutic attitude	

Bibliography for course and clinical rotation

1. Curs de Pediatrie pentru Studenti, coordonator: Doina Anca Plesca, Editura Universitara „Carol Davila”, București, 2017, ISBN 978-973-708-952-6, volumele nr.1 si 2
2. Esențialul in pediatrie, Editia a 4-a, Eugen Ciofu, Carmen Ciofu, Editura Medicală Almatea, Bucuresti, 2017, ISBN: 978-973-162-169-2
3. Nelson Textbook of Pediatrics, 20th Edition, By Robert M. Kliegman, Bonita MD, Stanton, Joseph St. Geme, Nina Schor, and Richard E. Behrman, ISBN: 978-0-323-35307-6, 2015

9. Harmonization of content with the expectations of the representatives of the epistemic community, professional associations, and major employers in area of the study programme.

Appropriate training at the end of the pediatrics module provides the prerequisites for admission to residency and the development of a successful medical activity.

10. Assessment

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
Course	Knowledge of the theoretical notions of the subject.	Grid type exam with 100 simple complement type questions.	75 %
Clinical rotation	<ul style="list-style-type: none"> • Carrying out the clinical examination on devices and systems • The request for laboratory investigations in order to establish the diagnosis • Proposing a therapeutic plan for the examined case. 	Practical exam in front of the teacher and the group assistant.	25 %

Minimum performance standard

Minimum 50% in each component of the assessment



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