

SYLLABUS

concerning the cycle of education 2020-2026

(date range)

**1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE**

Subject / Module	<b>Pediatrics</b>
Course code / module *	<b>Pd - E</b>
Faculty of (name of the leading direction)	<b>Medical College of Rzeszów University</b>
Department Name	<b>Medical College of Rzeszów University</b>
Field of study	<b>medical direction</b>
Level of education	<b>uniform master's studies</b>
Profile	<b>practical</b>
Form of study	<b>stationary / extramural</b>
Year and semester	<b>year V, semester IX</b>
Type of course	<b>obligatory</b>
Coordinator	<b>Dr n. med. Radosław Chaber</b>
First and Last Name of the Teacher	<b>prof. dr hab. Artur Mazur, dr hab. Bartosz Korczowski prof. UR, dr hab. Jacek Tabarkiewicz, prof. UR, dr Elżbieta Czyżyk, dr Witold Błaż, dr Radosław Chaber, lek Jakub Musiał, lek Anna Tomoń, lek Szymon Figurski, dr Marta Rachel, lek. Anna Mach-Jamińska, lek. Małgorzata Dąbrowska, dr Krystyna Piasecka, dr Józef Rusin, dr Hanna Czajka</b>

\* - According to the resolutions of the Faculty of Medicine

**1.2. Forms of classes, number of hours and ECTS**

Lecture	Exercise	Conversation	Laboratory	Seminar	ZP	Practical	Self-learning	Number of points ECTS
18	33	-	-	-	-	-	45	3

**1.3. The form of class activities**

classes are in the traditional form

classes are implemented using methods and techniques of distance learning

**1.4. Examination Forms / module** (exam, **credit with grade** or credit without grade)

**2. REQUIREMENTS**

Knowledge of topographic and functional human anatomy, knowledge of neuroanatomy, physiology and pathophysiology of the child.

### 3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS

#### 3.1. Objectives of this course/module

C1	Acquiring general theoretical and practical basics in the field of pediatrics.
C2	Mastering the skills of collecting medical history, physical examination of a child.
C3	Mastering the practical proceedings with a child coming to the children's clinic (healthy and sick child).
C4	Acquiring the ability to treat outpatient childhood anemia, dealing with a child suffering from hemorrhagic diathesis, cancer, after bone marrow transplantation.
C5	Mastering the basics of interpretation of additional research in hematology, neurology and pediatric rheumatology

#### 3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

EK (the effect of education)	The content of the learning effect defined for the subject (module)	Reference to directional effects (KEK)
EK_01	<p>knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children:</p> <p>a) anemia, bleeding disorders, conditions of bone marrow failure, neoplastic diseases of childhood, including solid tumors typical of childhood,</p> <p>b) cerebral palsy, inflammation of the brain and meningitis, epilepsy,</p> <p>k) connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus, dermatomyositis;</p> <p>cerebral palsy, inflammation of the brain and meningitis, epilepsy,</p> <p>knows the environmental and epidemiological conditions of the most common diseases</p>	E.W3.
EK_02	knows the environmental and epidemiological conditions of the most common diseases	E.W2.
EK_03	assesses the state of the newborn in the Apgar scale and assesses its maturity, investigates neonatal reflexes;	E.U8.
EK_04	compiles anthropometric and blood pressure measurements with data on centile grids;	E.U9.

EK_05	evaluates the degree of advancement of sexual maturation;	E.U10.
EK_06	performs differential diagnosis of the most common diseases of children;	E.U12.
EK_07	recognizes states of immediate life threat;	E.U14.
EK_08	plans diagnostic, therapeutic and prophylactic procedures;	E.U16.
Ek_09	interprets laboratory tests and identifies causes of deviations;	E.U24.
EK_10	plans specialist consultations;	E.U32.
EK_11	keeps the patient's medical records.	E.U38.
EK_12	can establish and maintain a deep and respectful contact with the patient	K.01.
EK_13	he is guided by the good of the patient, placing them in the first place	K.02.
EK_14	respects medical confidentiality and patient's rights	K.03.

### 3.3 CONTENT CURRICULUM (filled by the coordinator)

#### A. Lectures

<b>Course contents</b>
Basic symptoms and differential diagnosis in pediatric hematology and oncology - enlargement of lymph nodes, enlargement of the liver and spleen, bone pain. Conditions of life threat in pediatric oncohematology.
Solid tumors of childhood.
Basic symptoms and differential diagnosis in pediatric neurology: developmental delay, microcephaly and big muscles, decreased, increased muscle tone, paresis and paralysis, dyskinesia, ataxia, cerebral seizures.
Panic states in children. Infantile cerebral palsy
Basic symptoms and differential diagnosis in rheumatology. Rheumatic fever
Arthritis in children. Diseases of connective tissue in children.

#### B. Exercises

Course contents
Leukemia and lymphomas in children
CNS tumors.
Neuroblastoma, Wilms' tumor, germinal tumors
Soft tissue sarcomas and bones. Rare cancers in children

Anemia - signs and symptoms. Diagnostics. Differentiation. Treatment.
Thrombocytopenia in children. Autoimmune thrombocytopenic purpura.
Disorders affecting white blood cells in children. Immunocompromised disorders in children
Diagnosis of the coagulation system. Congenital and acquired haemorrhagic diathesis.
Laboratory tests in pediatric hematology
Combination therapy in pediatric oncology
Patients after treatment of cancer. Interview research, interpretation of test results, therapeutic recommendations in outpatient settings. Treatment of a child with cancer in outpatient settings
Epilepsy and epilepsy syndromes
Headaches and migraine
Defects of the central nervous system
Intracranial bleeding
An increase in intracranial pressure
Neuromuscular diseases
Inflammation of the brain and meningitis
Neurometabolic diseases
Cerebrospinal palsy
Juvenile rheumatoid arthritis
Rheumatic fever
Systemic lupus erythematosus
Kawasaki team

### 3.4 TEACHING METHODS

**Lecture:** multimedia presentation.

**Exercises:** case analysis.

**Student's own work:** work with a book

## 4 METHODS AND EVALUATION CRITERIA

### 4.1 Methods of verification of learning outcomes

Symbol of effect	Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes)	Form of classes
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EK_01 EK_02	Written and oral test	Lecture, Exercises
EK_03 EK_04 EK_05 EK_06 EK_07 EK_08 EK_09 EK_10 EK_11 EK_12 EK_13 EK_14	Practical pass	Exercises
EK_03 EK_04 EK_07 EK_08 EK_09 EK_10	Case study	Exercises

#### 4.2 Conditions for completing the course (evaluation criteria)

<p><b>Exercises, seminars:</b></p> <ol style="list-style-type: none"> <li>1. full participation and activity in the exercises</li> <li>2. written partial credits</li> </ol> <p>Range of ratings: 2.0 - 5.0</p> <p><b>Lectures:</b></p> <ol style="list-style-type: none"> <li>1. test pass and open questions:</li> </ol> <p>A: Questions in the field of messages to remember; B: Questions in the field of speech to understand;</p> <p>C: Solving a typical written task; D: Solving an atypical writing task;</p> <p>for insufficient solution of tasks only from areas A and B = score 2.0</p> <ul style="list-style-type: none"> <li>- for solving tasks only from areas A and B, the possibility of obtaining max. rating 3.0</li> <li>- for solving tasks from the area A + B + C, the possibility of obtaining max. evaluation 4.0</li> <li>- for the solution of tasks in the area A + B + C + D, the possibility of obtaining a rating of 5.0</li> </ul> <p><b>Knowledge assessment:</b></p> <p>5.0 - has knowledge of the education content at the level of 93% -100%</p> <p>4.5 - has knowledge of the content of education at the level of 85% -92%</p>
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4.0 - has knowledge of the content of education at the level of 77% -84%

3.5 - has knowledge of the content of education at the level of 69% -76%

3.0 - has knowledge of the content of education at the level of 60% -68%

2.0 - has knowledge of the educational content below 60%

#### **Skill assessment**

5.0 - the student actively participates in classes, is well prepared, has acquired theoretical and practical knowledge in the field of pediatrics. To a very good extent, he mastered the skills of collecting medical history, physical examination of the child

4.5 - the student actively participates in classes, has acquired theoretical and practical knowledge in the field of pediatrics at a very good level. He successfully mastered the skills of collecting medical history, physical examination of the child.

4.0 - the student actively participates in classes, is improved, he acquired theoretical and practical knowledge in the field of pediatrics to a good degree. He successfully mastered the skills of collecting medical history, physical examination of the child

3.5 - the student participates in the classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem in the field of paediatrics. He sufficiently mastered the skills of collecting medical history, physical examination of the child

3.0 - the student participates in the classes, sufficiently acquired theoretical and practical knowledge in the field of pediatrics. He mastered the skills of collecting medical history, physical examination of the child, however, it is often corrected.

2.0 - the student passively participates in classes, the statements are incorrect in substance, theoretical and practical knowledge in the field of pediatrics is not sufficient. He has not mastered the skills of collecting medical history, physical examination of the child, frequently made mistakes.

#### **5. Total student workload required to achieve the desired result in hours and ECTS credits**

Activity	Hours / student work
Hours of classes according to plan with the teacher	51
Preparation for classes	45
Participation in the consultations	2
The time to write a paper / essay	-
Preparation for tests	-
Participation in colloquia	-
Other (e-learning)	-
<b>SUM OF HOURS</b>	<b>98</b>
<b>TOTAL NUMBER OF ECTS</b>	<b>3</b>

## 6. TRAINING PRACTICES IN THE SUBJECT / MODUL

Number of hours	-
Rules and forms of apprenticeship	-

## 6. LITERATURE

<p><b>READING:</b></p> <ol style="list-style-type: none"><li>1. Pediatria tom 1-2 Wanda Kawalec, Ryszard Grenda, Helena Ziółkowska, Ewa Bernatowska, Mieczysław Chmielik, Mieczysława Czerwionka-Szaflarska PZWL, 2013, 1329 str.</li><li>2. Pediatria do LEK i PES. Podręcznik do Lekarskiego Egzaminu Końcowego i Państwowego Egzaminu Specjalizacyjnego). Anna Dobrzańska, Jozef Ryżko Elsevier Urban &amp; Partner, 2014, 1092 str.</li></ol>
<p>Additional literature:</p> <ol style="list-style-type: none"><li>1. Nelson Pediatria - Tom 1-2 (komplet) Karen Marcadante, Robert M. Kliegman, Hal B. Jenson, Richard E. Behrman, red. wyd. pol. Andrzej Milanowski Elsevier Urban &amp; Partner, 2013, 798 str.</li><li>2. Badanie kliniczne w pediatrii - atlas i podręcznik tom 1-2 komplet Basil J. Zitelli, red. wyd. pol. Anna Dobrzańska Elsevier Urban &amp; Partner, 2014, 1006 str.</li><li>3. Od objawu do nowotworu Wczesne rozpoznawanie chorób nowotworowych u dzieci Alicja Chybicka Elsevier Urban &amp; Partner, 2013, 353 str.</li><li>4. Neonatologia i opieka nad noworodkiem. Tom 1-2 komplet Janusz Świetliński PZWL, 2017, 1400 str.</li><li>5. Choroby zakaźne i pasożytnicze u dzieci Zbigniew Rudkowski PZWL, 2013, 375 str.</li><li>6. Endokrynologia i diabetologia wieku rozwojowego Anna Noczyńska MedPh..., 2013, 240 str.</li><li>7. Michałowicz R.: Mózgowe porażenie dziecięce, PZWL, Warszawa 2001</li></ol>

Acceptance Unit Manager or authorized person