



## Course sylabus - part A Pediatrics 2

**48SJ-PED27**  
**ECTS: 2.00**  
**CYCLE: 2024L**

### SUBJECT MATTER CONTENT

#### SEMINAR

1. Fever in children. Pathogenesis, diagnostics and management. Dehydration. Fluid therapy [2H] 2. Vaccinations [2H] 3. Assessment of the physical development of the children. Growth disorders. Eating disorder [2H] 4. Nutrition in the first 1000 days [2H] 5. Psychomotor development, developmental milestones, red flags [2H]

#### CLASSES

History taking in pediatrics. Patient report Underweight in children. Assessment of the child development - history taking, physical examination. Case report. Physical examination of the children: general appearance. Case report - discussion. Examination of the head and neck, dysmorphs. Common symptoms: abdominal pain, vomiting in children-functional disorder or disease. Psychomotor development up to third year of life.

#### TEACHING OBJECTIVE

To acquaint the student with the principles of correct collection of interviews regarding pregnancy and childbirth. To acquaint the student with the physiology and pathology of a newborn born on time and prematurely born. To acquaint the student with the principles of proper nutrition of time-born and premature newborns with emphasis on the special role of natural feeding and difficulties in breastfeeding. Other methods - artificial, enteral, parenteral feeding. To introduce students to food allergy issues. To acquaint the student with the mechanisms of adapting a newborn baby to independent living. To introduce students to the principles of conducting screening tests in newborns. Preparation of the student for independent assessment of the newborn's condition and conducting the physical examination of the newborn. Preparing the student to interpret the results of basic laboratory tests in newborns.

#### DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

**Symbols for outcomes related to the discipline:**

M/NM+++

**Symbols for outcomes related to the field of study:**

E.U11.+ , E.U2.+ , E.U8.+ , K.3.+ , E.W2.+ , K.2.+ , E.U14.+ , E.U10.+ , E.U25.+ , E.U4.+ , E.U9.+ , E.W5.+ , E.W3.+ , E.W6.+ , E.U24.+ , G.U7.+ , E.U16.+ , E.U7.+ , K.1.+

**Legal acts specifying learning outcomes:** 672/2020, 311/2023  
**Disciplines:** medical sciences  
**Status of the course:** Obligatoryjny  
**Group of courses:** B - przedmioty kierunkowe  
**Code:** ISCED 0912  
**Field of study:** Medicine, Medicine  
**Scope of education:**  
**Profile of education:** General academic  
**Form of studies:** full-time  
**Level of studies:** uniform master's studies  
**Year/semester:** 3/6

**Types of classes:** Seminar, Classes  
**Number of hours in semester:** Seminar: 10.00, Classes: 30.00  
**Language of instruction:** English  
**Introductory subject:** Anatomy, physiology, biochemistry, histology with cytophysiology and embryology, immunology, microbiology, laboratory diagnostics, neonatology  
**Prerequisites:** Knowledge of the macroscopic and microscopic structure of organs, their development, functions, basic metabolic changes, their pathology, diagnostics. Knowledge of mechanisms of innate and acquired immunity. Knowledge of the most common pathogens, methods of their diagnosis and treatment. Knowledge of epidemiology of infectious and non-infectious diseases. Knowledge of normal child development and psychomotor and physical development disorders. Knowledge of the differences in physical examination of children.

**Name of the organisational unit conducting the course:** Katedra Pediatrii Klinicznej  
**Person responsible for the realization of the course:** dr hab. n. med. Elżbieta Jarocka-Cyrta, prof. UWM  
**e-mail:** elzbieta.jarocka@uwm.edu.pl

**Additional remarks:**

## **LEARNING OUTCOMES:**

### **Knowledge:**

W1 - Student knows and understands the rules of nutrition applicable to healthy and ill children, including natural feeding, preventive vaccinations, and the rules of the child's health evaluation;

W2 - Student knows and understands the basic diagnostic and therapeutic methods with respect to the foetus;

W3 - Student knows and understands the causes of symptoms, principles of diagnosis and therapeutic procedure in the case of the most common diseases of children: 1) rickets, tetany, convulsions, 2) heart defects, myocarditis, endocarditis and pericardium, cardiomyopathy, arrhythmias, heart failure, hypertension, syncope, 3) acute and chronic diseases of the upper and lower respiratory tract, congenital defects of the respiratory system, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria, anaphylactic shock, angioedema, 4) anemia, hemorrhagic diathesis, bone marrow failure conditions, childhood cancers, including solid tumors typical of childhood, 5) acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel disease, pancreatic disease, cholestasis and liver disease as well as other acquired diseases and birth defects of the gastrointestinal tract, 6) urinary tract infections, congenital urinary tract defects, nephrotic syndrome, nephrolithiasis, acute and chronic renal failure, acute and chronic inflammation of the kidneys, kidney systemic diseases, urination disorders, gastro-uric acid reflux disease, 7) growth disorders, thyroid and parathyroid gland diseases, adrenal gland diseases, diabetes, obesity, puberty and gonadal function disorders, 8) cerebral palsy, encephalitis and meningitis, epilepsy, 9) the most common infectious diseases of childhood, 10) genetic syndromes, 11) connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus erythematosus, dermatomyositis;

W4 - Student knows and understands the most frequent life-threatening conditions in children and the rules of procedure in such conditions.

### **Skills:**

U1 - Student is able to take medical interview with a child and its family.

U2 - Student is able to conduct physical examination of a child of any age

U3 - Student is able to evaluate the overall condition, state of consciousness, and awareness of the patient;

U4 - Student is able to assess the condition of a new-born baby in the Apgar scale, its maturity, and examine its reflexes

U5 - Student is able to analyse the anthropometric measurements and blood pressure against the percentile norm data;

U6 - Carries out balance tests.

U7 - Recognizes states of immediate threat to life.

U8 - Plans diagnostic, therapeutic and prophylactic procedures.

U9 - Interprets laboratory tests and identifies the causes of deviations.

U10 - Is able to apply nutritional treatment in the field of enteral and parenteral nutrition.

U11 - Evaluates the degree of advancement of sexual maturation

U12 - During the examination, the child recognizes behaviors and symptoms indicating the possibility of violence against the child

### **Social competence:**

K1 - Student can establish and maintain a deep and respectful contact with the patient and demonstrate understanding of differences in worldview and culture.

K2 - Student is guided by the well-being of the patient

K3 - Student respects medical confidentiality and patient's rights.

K4 - Notices and recognises its own limitations and makes a self-assessment of deficits and educational needs.

## **TEACHING FORMS AND METHODS:**

Seminar(W1;W2;W3;W4;U1;U2;U3;U4;U5;U6;U7;U8;U9;U10;U11;U12;K1;K2;K3;K4;):Multimedia presentation. Discussion of the problem with the example of a clinical case. Round table discussion.

Classes(W1;W2;W3;W4;U1;U2;U3;U4;U5;U6;U7;U8;U9;U10;U11;U12;K1;K2;K3;K4;):Practical exercises in groups under the supervision of the assistant: problem-based, situational, brainstorming, case study.

## **FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:**

Seminar (Part in the discussion) - The student is required to participate actively in all seminars. -

Classes (Written test) - During the classes each day there is a test on the preparation for the exercises (the material covers the topics of the exercises, seminars based on the mandatory textbooks and lectures). The test consists of three written questions or three test questions (credit = correct answer to 2 questions). Failure test - 0 points, passing test - 1 point, max. 6 points in the summer semester. Obtaining 0 points from one test results in failing the classes in a given semester. -

Classes (Evaluation of the work and cooperation in the group) - During each exercise the student is evaluated by the instructor (active participation in classes, preparation) 0 - 1 point. -

Classes (Competention test) - Knowledge test from seminars, lectures and exercises. A prerequisite for taking the test is obtaining 10 points in total from the entrance tests and activity classes in the summer semester. The test consists of 50 questions. A prerequisite for passing the practical part is obtaining above 70% of points. In the case of not passing the test, oral assessment. The final grade from the course Pediatrics in the third year is the result of the test according to the following scoring: ≤ 35 pts - unsatisfactory 36-38 pts - satisfactory 39-41 points - satisfactory plus 42-44 points - good 45-47 points - good plus 48-50 points - very good -

## **BASIC LITERATURE:**

1. Marc dante K Kliegman R.M., *Nelson essentials of Pediatrics - 9th edition*, Wyd. Elsevier, R. 2022
2. Lissauer T. Carroll W., *Illustrated Textbook of Pediatrics*, Wyd. Elsevier, R. 2021
3. Kliegman R.M Joseph St.Geme, *Nelson Textbook of Pediatrics, 21St edition*, Wyd. Elsevier, R. 2019

## **SUPPLEMENTARY LITERATURE:**

# Detailed description of ECTS credits awarded - part B

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**ECTS: 2.00**  
**CYCLE: 2024L**

## Pediatrics 2

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Seminar	10.0 h
- participation in: Classes	30.0 h
- consultation	2.0
	Total: 42.0 h.

2. Independent work of a student:

She/he learns required chapters of the books from the basis literature list and from additional sources of knowledge.	8.00 h
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Total: 8.0 h

contact hours + independent work of a student Total: 50.0 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS credit = 50.0 h : 25.0 h/ECTS  
= 2.00 ECTS on average: 2.0 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher: 0,00 ECTS points,

- including the number of ECTS credits for hours of independent work of a student: