



**48SJ-PED27**  
**ECTS: 2**  
**YEAR: 2022L**

**PEDIATRICS 2**  
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**COURSE CONTENT**  
**CLASSES**

exercises: 1. Physical examination of full-term newborn - physiological and morphological features of full-term newborns, adaptation of a newborn baby to ectopic life. Physiological jaundice. 2. Management of the newborn after birth. Nutrition of full-term newborn babies and premature babies. Breast-feeding. Jaundice associated with breast milk feeding. 3. A premature baby. 4. Cardiovascular system development, fetal / neonatal circulation, the most common cardiovascular pathology in the neonatal period. Respiratory system development. Apneas. The most common respiratory pathologies in the newborn. 5. Natural feeding and artificial feeding. Mixtures replacer. 6. Weight deficiencies in children. Assessment of child development, subjective and physical examination, medical history. 10. Baby colic, downpour. 11. Food allergy. seminars: 1. Classification of newborns by duration of pregnancy, birth weight, prematurity. 2. Assessment of the newborn's condition after delivery. Transient States. 3. Impact of mother's diseases on the newborn baby. 4. Screening, metabolic diseases. 5. Skin and subcutaneous tissue in infants: physiology and the most common diseases.

**LECTURES**

there are no lectures in the sixth semester

**EDUCATIONAL 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 LEARNING OUTCOMES FOR THE COURSE IN RELATION TO FIELD AND MAJOR LEARNING OUTCOMES**

Codes of learning outcomes in a major field of study: M/NM+++,

Codes of learning outcomes in a major area of study: E.U10.+ , E.U11.+ , E.U14.+ , E.U16.+ , E.U2.+ , E.U24.+ , E.U25.+ , E.U4.+ , E.U7.+ , E.U8.+ , E.U9.+ , E.W2.+ , E.W3.+ , E.W5.+ , E.W6.+ , G.U7.+ , K.1.+ , K.2.+ , K.3.+ , K.5+ ,

**LEARNING OUTCOMES:**

**Knowledge**

W1 - (E.W2) Knows and understands the current guidelines of healthy and sick children nutrition, including breastfeeding, preventive vaccination and maintaining obligatory child's health evaluation.  
W2 - (E.W5) Knows and understands the basic methods of fetal diagnostics and therapy.  
W3 - (E.W3) 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 - (E.W6) Knows and understands the most frequent conditions of life threat in children and rules of conduct in these states.

**Skills**

U1 - (E.U2) Takes the medical history of a child from child's parents/care-givers.  
U10 - (E.U25) Applies nutritional treatment (with enteral and parenteral nutrition).  
U11 - (E.U10) Evaluates the degree of advancement of sexual maturation  
U12 - (G.U5) During the examination, the child recognizes behaviors and symptoms indicating the possibility of violence against the child  
U2 - (E.U4) Conducts a physical examination of a child of all ages.  
U3 - (E.U7) Evaluates the general condition, the state of consciousness and awareness of the patient.  
U4 - (E.U8) It evaluates the state of the newborn on the Apgar scale and assesses its maturity, investigates neonatal reflexes.  
U5 - (E.U9) Compiles anthropometric and blood pressure measurements with data on centile grids.

**Course/module:**

Pediatrics 2

**Fields of education:**

**Course status:** mandatory  
**Course group:** B - przedmioty kierunkowe

**ECTS code:**

**Field of study:** Medicine

**Specialty area:** Medicine

**Educational profile:** General academic

**Form of study:** full-time

**Level of study:** uniform master's studies

**Year/semester:** 3 / 6

**Type of course:**

Classes, Seminar

**Number of hours per semester/week:** Classes: 30, Seminar: 10

**Teaching forms and methods**

Classes(K1, K2, K3, K4, U1, U10, U11, U12, U2, U3, U4, U5, U6, U7, U8, U9, W1, W2, W3, W4) : Exercise and practical classes in groups under the supervision of an assistant: problem, situational, brainstorming, case study., Seminar(K2, K3, K4, U10, U11, U3, U4, U6, U7, U8, U9, W1, W2, W3, W4) : Multimedia presentation. Discussion of the problem on the example of a clinical case. Round table talk.

**Form and terms of the verification results:**

CLASSES: Written test - Each day during the class, a test on preparation for exercises will be conducted (the material covers the topics of exercises, seminars based on mandatory textbooks and lectures). The test consists of three written questions or three test questions (passing = correct answer to 2 questions).  
Test failed - 0 points, passed - 5 points, max 25 points in the winter semester and 40 points in the summer semester. Obtaining 0 points from two tests during the block results in failing exercises in a given semester.  
During each exercise, the student is assessed by the teacher (active participation in classes, preparation) - 5 points in total max 25 points in the winter semester and 40 points in the summer semester. The final grade in the first semester is the average of the tests in the classes and oral answers during exercises - max 50 points  
Completing the winter semester ≤ 30 points - insufficient  
31 - 34 points sufficient  
35 - 38 points sufficient +  
39 - 42 points good  
43 - 46 good points +  
47-50 points very good(K4, U1, U10, U11, U4, U7, U8, U9, W1, W3, W4) ;  
CLASSES: Written exam - People who get an OSKE pass will write a final test, 60 points (pass from 32 points). If the student fails the test, the student may take the retake test or oral test depending on the number of students. Failure to complete the second OSKE date or / and the second theoretical exam date means repeating the third year.  
(K3, K4, U10, U4, U5, U6, U7, U8, U9, W1, W2, W3, W4) ;  
CLASSES: Evaluation of the work and cooperation in the group - During each exercise, the student is assessed by the teacher (active participation in class, preparation) 0 - 5 points(K1, K2, K3, K4, U1, U10, U11, U12, U2, U3, U4, U5, U6, U7, U8, U9, W1, W2, W3, W4) ;  
CLASSES: Colloquium practical - OSKE (Objective Structured Clinical Examination) - checking clinical skills; 2 stations with 20 points each,

- U6 - (E.U11) Carries out balance tests.  
U7 - (E.U14) Recognizes states of immediate threat to life.  
U8 - (E.U16) Plans diagnostic, therapeutic and prophylactic procedures.  
U9 - (E.U24) Interprets laboratory tests and identifies the causes of deviations.

#### **Social competence**

- K1 - (K.1) Can establish and maintain a deep and respectful contact with the patient and demonstrate understanding of differences in worldview and culture.  
K2 - (K.2) The student is guided by the well-being of the patient.  
K3 - (K.3) Obeys the medical confidentiality rule and respects patient rights.  
K4 - (K.5) Notices and recognises its own limitations and makes a self-assessment of deficits and educational needs.

#### **BASIC LITERATURE**

- 1) Kawalec W., Grenda R., Ziółkowska H., *Pediatrics*, wyd. PZWL, 2013, t. I ; 2) Kawalec W., Grenda R., Ziółkowska H., *Pediatrics*, wyd. PZWL, 2013, t. II ; 3) Dobrzańska A., Ryżko J., *Pediatrics. Podręcznik do Lekarskiego Egzaminu Końcowego i Państwowego Egzaminu Specjalizacyjnego*, wyd. U&P Wrocław , 2014, t. - ; 4) Szczapa J., *Neonatology*, wyd. PZWL, 2015, t. - ; 5) Obuchowicz A., *Badanie podmiotowe i przedmiotowe w pediatrii*, wyd. PZWL, 2010, t. -

#### **SUPPLEMENTARY LITERATURE**

max. 40 points, pass from 29 points Persons who did not pass the OSKE have a second OSKE exam or oral credit within 2 weeks, while the final grade takes into account the number of points obtained in the first OSKE exam. Failure to complete the second OSKE date or / and the second theoretical exam date means repeating the third year.(K1, K2, K3, K4, U1, U10, U11, U12, U2, U3, U4, U5, U6, U7, U8, U9, W1, W3, W4) ; SEMINAR: Written exam - People who get an OSKE pass will write a final test, 60 points (pass from 32 points). If the test is not passed, the student may take the retake test or oral test depending on the number of students. Failure to complete the second OSKE date or / and the second theoretical exam date means repeating the third year.(K3, K4, U10, U4, U5, U6, U7, U8, U9, W1, W2, W3, W4) ; SEMINAR: Part in the discussion - The student is required to actively participate in all seminars.(K3, K4, U10, U11, U12, U4, U5, U6, U7, U8, U9, W1, W2, W3, W4)

**Number of ECTS points:** 2

**Language of instruction:** English

#### **Introductory courses:**

Anatomy, physiology, biochemistry, histology with cytophysiology and embryology, immunology, microbiology, laboratory diagnostics, human development

#### **Preliminary requirements:**

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 organizational unit offering the course:**

Katedra Pediatrii Klinicznej,

#### **Person in charge of the course:**

dr hab. n. med. Elżbieta Jarocka-Cyrta, prof. UWM

#### **Course coordinators:**

#### **Notes:**

## Detailed description of the awarded ECTS points - part B

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The awarded number of ECTS points is composed of:

1. Contact hours with the academic teacher:

- participation in: classes	30 h.
- participation in: seminar	10 h.
- consultation	2 h.
	42 h.

2. Student's independent work:

- getting acquainted with the literature, covering the subject of classes (obligatory and extra-curricular sources of knowledge).	8 h.
	8 h.

1 ECTS point = 25-30 h of the average student's work, number of ECTS points = 50 h : 25 h/ECTS = 2,00 ECTS  
on average: **2 ECTS**

- including the number of ECTS points for contact hours with direct participation of the academic teacher:	1,68 ECTS points,
- including the number of ECTS points for hours completed in the form of the student's independent work:	0,32 ECTS points,