

48SJ-PED67

ECTS: 8

YEAR: 2025Z

PEDIATRICS 6
PEDIATRICS 6**COURSE CONTENT**
CLASSES

Practical exercises take place in hospital wards (WSSD in Olsztyn) or in the Medical Simulation Center. Under the care of the assistant, the student participates in the collecting interview from the patient, physical examination, performs differential diagnosis, interprets the results of laboratory and imaging tests, plans consultations, treatment and further care in patients from the ward or clinic, and takes part in the discussion of selected cases. Exercises part II selected diseases and sudden states. Cardiology: syncope, cardiac arrhythmias, hypertension. Gastroenterology: inflammatory – bowel disease in children, ulcerative colitis, Crohn's disease, non – specific colitis, chemical burns of the esophagus, gastrointestinal foreign bodies, bleeding of the lower part of the gastrointestinal tract: IBD, juvenile polyps, Meckel's diverticulum, pancreatic disorders in children, cystic fibrosis, congenital diarrhea disorders, short gut syndrome. Pulmonology: asthma, bronchiolitis, laryngitis, fever in children. Infectious diseases: sepsis, invasive pneumococcal disease, meningitis, vaccination in the special situations. Oncology: symptomatology, taking report case, physical examination in oncology and hematology, solid tumors in children, oncological emergencies, leukemia in children, lymphomas in children, immunodeficiency disorders in children. Rheumatology: differential diagnosis of arthritis in children, reactive arthritis, juvenile rheumatoid arthritis, diagnosis of rheumatic diseases in children, differences in the course of connective tissue diseases in children. Neurology: neurological examination in children, epilepsy, non-epileptic seizures, febrile seizures, headaches, neurodegenerative disorders in children, cerebral palsy. Neonatology: preterm baby and complications of the prematurity: bronchopulmonary dysplasia, retinopathy of prematurity, necrotizing enterocolitis, intraventricular hemorrhages, perinatal hypoxia, hypoxic ischemic encephalopathy, early and late – onset infections (GBS), neonatal emergencies. Allergology: anaphylaxis in children.

LECTURES

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EDUCATIONAL OBJECTIVE:

Introduction the student with anatomical and physiological differences of the cardiovascular, respiratory and digestive systems in different periods of child's development. Introduction the student with infectious diseases of childhood. Preparing the student to perform differential diagnosis, treatment, supervision and prevention of diseases of the circulatory, respiratory, nervous, gastrointestinal and infectious diseases. Consolidation of skills to collect a case report, and conducting physical examination. Establishing therapeutic treatment and patient care.

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.U12.+ , E.U14.+ , E.U16.+ , E.U18.+ , E.U2.+ , E.U24.+ , E.U25.+ , E.U32.+ , E.U4.+ , E.U7.+ , E.U8.+ , E.W1.+ , E.W2.+ , E.W3.+ , E.W6.+ , G.U7.+ , K.1.+ , K.2.+ , K.3.+ , K.5+ ,

LEARNING OUTCOMES:**Knowledge**

- W1 - (E.W.1) Knows and understands the environmental and epidemiological factors which affect the most common disease.
- W10 - (E.W6) Student knows and understand the most frequent conditions of life threat in children and rules of conduct in these states.
- W11 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic and prophylactic treatment in the most common bacterial, viral, parasitic and fungal diseases, including pneumococcal infections, viral hepatitis, acquired AIDS immune deficiency, sepsis and nosocomial infections.
- W2 - (E.W2) Knows and understand the principles of nutrition for healthy and sick children, protective vaccinations and keeps the child's health balance.
- W3 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: heart defects, myocarditis, endocarditis, cardiomyopathy, cardiac arrhythmias, heart failure, hypertension, syncope.
- W4 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the most common diseases of children: 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, edema vasomotor.
- W5 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: anemia, bleeding disorders, conditions of bone marrow failure, childhood cancers, including solid tumors typical of childhood.
- W6 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: cerebral palsy, inflammation of the brain and meningitis, epilepsy.
- W7 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: the most common infectious diseases of childhood.
- W8 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in

Course/module:

Pediatrics 6

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:** 6 / 11**Type of course:**

Classes

Number of hours per semester/week: Classes: 120**Teaching forms and methods**

Classes(K1, K2, K3, K4, U1, U10, U11, U12, U13, U2, U3, U4, U5, U6, U7, U8, U9, W1, W10, W11, W2, W3, W4, W5, W6, W7, W8, W9) : Multimedia presentation. Discussing the problem on the example of a clinical case.

Form and terms of the verification results:

CLASSES: Written test - null(K3, K4, U11, U12, U5, U7, U8, U9, W1, W10, W11, W2, W3, W4, W5, W6, W7, W8, W9) ; CLASSES: Part in the discussion - null(K1, K2, K3, K4, U1, U10, U11, U12, U13, U2, U3, U4, U5, U6, U7, U8, U9, W1, W10, W11, W2, W3, W4, W5, W6, W7, W8, W9)

Number of ECTS points: 8**Language of instruction:** English**Introductory courses:**

Anatomy, physiology, pathology, biochemistry, histology with cytophysiology and embryology, immunology, microbiology, pharmacology with toxicology, physiology of child development. Principles of child nutrition, symptomatology of the most common childhood diseases, physical examination of a child of different ages.

Preliminary requirements:

Mastering knowledge of introductory subjects and the ability to use it in the context of case report, child examination, assessment of child development as a basis for differential diagnosis in the field of hematological and oncological diseases, cardiovascular system, respiratory system, nervous system, gastrointestinal tract, infectious diseases, neonatology and rheumatology.

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. UWMM

Course coordinators:**Notes:**

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the case of the most common diseases of children: connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus, dermatomyositis.

W9 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the most common diseases of children: acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, diseases of the pancreas, cholestasis and liver diseases, and other acquired diseases and congenital malformations of the gastrointestinal tract.

Skills

U1 - (E.U2) The graduate can conduct a medical interview with the child and his family.

U10 - (E.U25) The graduate is able to apply nutritional treatment including enteral and parenteral nutrition.

U11 - (E.U32) The graduate plans specialist consultations.

U12 - (E.U10) The graduate can assess the stage of sexual maturation.

U13 - (G.U7) The graduate is able to recognize during the child's examination behaviors and symptoms indicating the possibility of violence against the child

U2 - (E.U4) The graduate can perform a physical examination of a child of all ages.

U3 - (E.U7) The graduate can assess the general condition, the state of consciousness and awareness of the patient.

U4 - (E.U8) The graduate is able to assess the condition of the newborn on the Apgar scale, its maturity and newborn reflexes.

U5 - (E.U12) The graduate can perform differential diagnostics of the most common diseases of adults and children.

U6 - (E.U14) The graduate can recognize the states of immediate threat to life.

U7 - (E.U16) The graduate can plan diagnostic, therapeutic and prophylactic procedures.

U8 - (E.U18) The graduate is able to propose individualization of existing therapeutic guidelines and other methods of treatment in the event of ineffectiveness or contraindications to standard therapy.

U9 - (E.U24) The graduate is able to interpret the laboratory tests and identify the causes of deviations from the norm.

Social competence

K1 - (K.1) The graduate is ready to establish and maintain deep and respectful contact with the patient and show understanding for ideological and cultural differences.

K2 - (K.2) The graduate is ready to be guided by the well-being of the patient

K3 - (K.3) The graduate is ready to respect physician-patient privilege and patient's rights.

K4 - (K.5) The graduate is ready to recognize his own limitations and to make self-assessments of educational deficits and needs.

BASIC LITERATURE

1) W. Kawalec, R. Grenda, H. Ziółkowska, *Pediatrics*, wyd. PZWL, 2013, t. 1 i 2 ; 2) A. Dobrzańska, J. Ryżko, *Pediatrics. Podręcznik do Lekarskiego Egzaminu Końcowego i Państwowego Egzaminu Specjalizacyjnego*, wyd. Elsevier Urban&Partner, 2014

SUPPLEMENTARY LITERATURE

1) J. Szczapa, *Neonatology*, wyd. PZWL, 2015 ; 2) A. Chybicka, K. Sawicz-Birkowska, *Onkologia i hematologia dziecięca*, wyd. PZWL, 2008, t. 1 i 2 ; 3) A. Chybicka, *Od objawu do nowotworu*, wyd. Urban&Partner, 2013 ; 4) P. Socha, *Gastroenterologia dziecięca*, wyd. Medi Press, 2016 ; 5) E. Bernatowska, *Szczepienia ochronne*, wyd. PZWL, 2017 ; 6) A. Dobrzańska, *Wywiad i badanie w pediatrii*, wyd. Elsevier Urban&Partner, 2012

Detailed description of the awarded ECTS points - part B

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PEDIATRICS 6
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The awarded number of ECTS points is composed of:

1. Contact hours with the academic teacher:

- participation in: classes	120 h.
- consultation	5 h.
	125 h.

2. Student's independent work:

- 156/5000 getting to know the literature, covering the subject matter of classes (sources of obligatory and extracurricular knowledge). the student is required to learn from the third-fifth year classes.	75 h.
	75 h.

1 ECTS point = 25-30 h of the average student's work, number of ECTS points = 200 h : 25 h/ECTS = 8,00 ECTS
on average: **8 ECTS**

- including the number of ECTS points for contact hours with direct participation of the academic teacher:	5,00 ECTS points,
- including the number of ECTS points for hours completed in the form of the student's independent work:	3,00 ECTS points,