

48SJ-PED57  
ECTS: 4  
YEAR: 2024L

**PEDIATRICS 5**  
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**COURSE CONTENT**  
**CLASSES**

Classes: 1. Syncope. Definition, symptoms, diagnostic methods, differential diagnosis, treatment. 2. Chest pain: definition, symptoms, diagnostic methods, differential diagnosis, treatment. 3. Arrhythmias. Kinds of arrhythmias. Supraventricular tachycardia (SVT). Ventricular arrhythmias. Heart blocks. Definition, symptoms, diagnostic methods, differential diagnosis, treatment. 4. Feeding disorder – definition, types, diagnosis, treatment. 5. Abdominal pain in children - acute pain, chronic pain, functional pain. Pathogenesis, diagnosis, treatment. 6. Upper respiratory tract disorders. Congenital respiratory disorders. Physical examination of the upper respiratory tract. Otitis, sinusitis, epiglottitis, croup, pharyngitis – etiology, symptoms, differential diagnosis, treatment. 7. Lower respiratory tract disorders. Physical examination of the lower respiratory tract. Spirometry, bronchodilator response. Bronchitis, bronchiolitis. Pneumonia: types, symptoms, differential diagnosis, interpretation of the lab tests and diagnostic imaging, treatment, complications. Asthma. Cystic fibrosis. Primary ciliary dyskinesia. 8. Bacterial diarrhea. Viral diarrhea. Salmonella, Shigella, Campylobacter, Clostridium. E.coli. Routes of transmission, symptoms, differential diagnosis, treatment. 9. Exanthematous childhood disease. Adenovirus, herpesvirus, varicella zoster, Epstein-Barr virus, cytomegalovirus, coxackie, parvovirus B19, enterovirus, measles, mumps, rubella. The incubation period, clinical image, treatment, prevention. 10. Parasitic infections. Pinworm infection, Giardiasis, Toxocarosis, Taeniasis, Scabies, Ascariasis, Echinococcosis. Routes of transmission, symptoms, differential diagnosis, treatment. Seminars: 1. Congenital disorders of respiratory system. 2. Child with wheezing. 3. Aerosol therapy. 4. Diagnosis of gastrointestinal disorders. 5. Dysphagia, vomiting. 6. Constipation. 7. Coeliac disease. Gluten-related disorders. 8. Functional gastrointestinal disorders. 9. Rome IV Criteria. 10. Food allergy. 11. Neuroinfection, sepsis, invasive meningococcal disease. 12. Diagnostic methods of cardiovascular system in children. 13. Myocarditis. 14. Infective endocarditis, Kawasaki disease. 15. Cardiomyopathy.

**LECTURES**

1. HIV Infection in children: clinical manifestation, diagnosis, prevention and treatment regimens. 2. A new approach to childhood tuberculosis. Pediatric tuberculosis: diagnostic and therapeutic challenges. 3. Pertussis (whooping cough) – classic and mild form – diagnosis, treatment regimens. 4. Nosocomial infections in children – etiological factors (multiresistant bacteria strains, viruses), the most frequent clinical manifestations. 5. Emerging infectious diseases in children. 6. Congenital heart defects. 7. Heart failure.

**EDUCATIONAL OBJECTIVE:**

The student knows and understands the causes, symptoms, guidelines of diagnosis and therapeutic management of the most common diseases of the gastrointestinal tract, cardiovascular and respiratory system in children. Consolidation of skills to collect history, physical examination. Programming therapeutic, monitoring of the patient.

**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.U12.+ , E.U13.+ , E.U16.+ , E.U2.+ , E.U20.+ , E.U32.+ , E.W1.+ , E.W2.+ , E.W3.+++ , K.1.+ , K.2.+ , K.3.+ , K.5+ ,

**LEARNING OUTCOMES:**

**Knowledge**

W1 - (E.W1) Knows and understands the environmental and epidemiological factors which determinate the most common diseases.  
W2 - (E.W2) Knows and understands the current guidelines of healthy and sick children nutrition, vaccination and maintaining obligatory child's health evaluation.  
W3 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic management of the most common diseases of children: heart defects, myocarditis, endocarditis and pericardium, cardiomyopathy, arrhythmias, heart failure, hypertension, syncope.  
W4 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic management of 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.  
W5 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic management of the most common diseases of children: acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel disease, pancreatic disease, cholestasis and liver disease, and other acquired diseases and birth defects of the gastrointestinal tract.  
W6 - (E.W3) Knows and understands the causes, symptoms, rules of diagnostic and the therapeutic procedures in the most common paediatric diseases: the most common infectious diseases of childhood.

**Skills**

U1 - (E.U2) Can conduct a medical interview with the child and his family  
U2 - (E.U12) Can conduct differential diagnosis of the most common diseases in children.  
U3 - (E.U13) Can assess and describe the somatic and mental state of the patient.  
U4 - (E.U16) Can plans diagnostic, therapeutic and prophylactic procedures.  
U5 - (E.U20) Can qualify the patient for home and hospital treatment;  
U6 - (E.U32) Can plans specialist consultation.

**Course/module:**

Pediatrics 5

**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:** 5 / 10

**Type of course:**

Classes, Seminar, Lecture

**Number of hours per semester/week:** Classes: 50, Seminar: 15, Lecture: 10

**Teaching forms and methods**

Classes(K1, K2, K3, K4, U1, U2, U3, U4, U5, U6, W1, W2, W3, W4, W5, W6) : Practical classes in small groups supervised by assistant: case studies, medical problem approach discussion, brain storm., Seminar(K3, K4, U2, U4, U6, W1, W2, W3, W4, W5, W6) : Multimedia presentation. The case report based discussion. Round table discussion. , Lecture(U4, W3, W6) : Multimedia presentation. Formal lecture.

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

CLASSES: Evaluation of the work and cooperation in the group - Obligatory presence in all classes.(K1, K2, K3, K4, U1, U2, U3, U4, U5, U6, W1, W2, W3, W4, W5, W6) ; CLASSES: Written test - A test related to preparation for practical classes (the material covering the subject matter of practical classes and seminars on the basis of obligatory textbooks and lectures) will be taken during the classes. The test includes three written question; pass - 5 pts, fail - 0 pts, max 30 pts in a semester. The student who obtains 0 pts for three tests during the two-week block cannot obtain a credit for practical classes in a given semester. Obtaining ≥ 46 pts for tests taken during the practical classes, the medical case record and the oral report. Admission to taking a test by students who have not obtained credits for a winter or a summer semester is conditioned upon obtaining a credit in the oral examination carried out by the Head of the Department of Paediatrics. A failure to obtain a credit will result in non-admittance to taking the final tests and repetition of year V. (U2, U4, W1, W2, W3, W4, W5, W6) ; CLASSES: Competention test - A 100-questions test; a credit is obtained for obtaining 71 pts. Students who have not passed the test will have an oral examination (in June). A failure to pass the examination on the second date results in repetition of year V. The final grade is related to the test result. 0-70 pkt fail 71-77 pkt satisfactory 78-83 pkt satisfactory plus 84-90 pkt good 91-95 pkt good plus 96-100 pkt very good.(U2, U4, U6, W1, W2, W3, W4, W5, W6) ; SEMINAR: Competention test - Obligatory presence on seminars. (U2, U4, U6, W1, W2, W3, W4, W5, W6) ; SEMINAR: Part in the discussion - A 100-questions test; a credit is obtained for obtaining 71 pts. Students who have not passed the test will have an oral examination (in June). A failure

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

## BASIC LITERATURE

1) Marcdante K., Kliegman R.M, Nelson Essentials of Pediatrics, wyd. Saunders, 2011, t. 6 ; 2) Lissauer T., Clayden G, Illustrated Textbook of Pediatrics, wyd. Mosby, 2011

## SUPPLEMENTARY LITERATURE

to pass the examination on the second date results in repetition of year V. The final grade is related to the test result. 0-70 pkt fail 71-77 pkt satisfactory 78-83 pkt satisfactory plus 84-90 pkt good 91-95 pkt good plus 96-100 pkt very good.(K3, K4, U2, U4, U6, W1, W2, W3, W4, W5, W6) ; LECTURE: Part in the discussion - Obligatory presence on lecturers. (K3, K4, U2, U4, U6, W1, W2, W3, W4, W5, W6) ; LECTURE: Competention test - A 100-questions test; a credit is obtained for obtaining 71 pts. Students who have not passed the test will have an oral examination (in June). A failure to pass the examination on the second date results in repetition of year V. The final grade is related to the test result. ≤ 70 niedostateczny 71-76 pkt dostateczny 77-82 pkt dostateczny + 83-87 pkt dobry 88-94 pkt dobry + 95-100 pkt bardzo dobry (U2, U4, U6, W1, W2, W3, W4, W5, W6)

**Number of ECTS points:** 4

**Language of instruction:** English

### Introductory courses:

Anatomy, Physiology, Pathology, Biochemistry, Histology withf cytophysiology and embryology, Immunology, Microbiology, Pharmacology with toxicology, Diagnostic imaging, Infectious Diseases, Clinical Genetics, Otolaryngology, Pediatrics

### Preliminary requirements:

Student should have knowledge of human anatomy, physiology and pathophysiology, schould have ability to use the knowledge acquired during the previous course of Pediatrics.

### 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:

none

## 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	50 h.
- participation in: seminar	15 h.
- participation in: lecture	10 h.
- consultation	2 h.
	77 h.

2. Student's independent work:

- she/he learns required chapters of the books from the basis literature list and from additional sources of knowledge.	23 h.
	23 h.

1 ECTS point = 25-30 h of the average student's work, number of ECTS points = 100 h : 25 h/ECTS = 4,00 ECTS  
on average: **4 ECTS**

- including the number of ECTS points for contact hours with direct participation of the academic teacher:	3,08 ECTS points,
- including the number of ECTS points for hours completed in the form of the student's independent work:	0,92 ECTS points,