



Course syllabus - part A Pediatrics 6

48SJ-PED67
ECTS: 8.00
CYCLE: 2023Z

SUBJECT MATTER CONTENT

PRACTICAL CLASSES

EXERCISES: Practical exercises take place in the hospital wards of the WSSD in Olsztyn or in the Simulation Centre. Under the supervision of an assistant, the student takes part in history taking, physical examination, performs differential diagnosis, interprets the results of laboratory and imaging tests, plans consultation, treatment and follow-up care in patients from the ward or outpatient clinic, takes part in rounds and discussion of selected cases. Main topics. Gastroenterology 1. Foreign body in the gastrointestinal tract. Lower gastrointestinal bleeding, upper gastrointestinal bleeding 2. Enteral and parenteral nutrition in children. Short bowel syndrome. 2. Ulcerative colitis, Crohn's disease, unspecified inflammatory bowel disease. 3. Functional gastrointestinal disorders in children. Roman criteria IV. 4. pancreatic diseases in children. Cystic fibrosis. Rheumatology 1. Diagnosis of rheumatological diseases in children. 2. Differential diagnosis of arthritis in children. Reactive arthritis. Juvenile idiopathic arthritis. Neurology 1. Neurological examination of children. Cerebral palsy in children. Headaches in children. 2 Epilepsy. Febrile convulsions. Non-epileptic seizure disorders. Neonatology 1. Prematurity and its complications: bronchopulmonary dysplasia, retinopathy, necrotising enterocolitis, hypoxia, hypoxic-ischaemic encephalopathy, intraventricular haemorrhage. 2 Congenital infections. Early and late neonatal infections. Emergencies in neonatology. Infectious diseases 1 Vaccination in special clinical situations. 2. Septicaemia in children. Invasive pneumococcal disease. Cerebrospinal meningitis. Haematology 1 Symptomatology of malignant diseases in children. 2. Solid tumours of childhood. 3. Emergency conditions in paediatric oncology. Allergology 1. Anaphylactic shock, emergencies in allergology. Autism 1. Autistic spectrum disorders Neurosurgery 1. Congenital malformations of the head and central nervous system. Dismorphology, diagnosis and treatment.

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Gastroenterology 1. Chemical burns of the esophagus. Gastrointestinal foreign bodies. Bleeding of the upper and lower part of the gastrointestinal tract. 2. Inflammatory - bowel disease in children. Ulcerative colitis, Crohn's disease, non-specific colitis 3. Vomiting in children. Constipations in children. Rheumatology 1. Diagnosis of rheumatic diseases in children. Differences in the course of connective tissue diseases in children. 2. Differential diagnosis of arthritis in children. Reactive arthritis. Juvenile rheumatoid arthritis. [2H] - E. Gniadek Neonatology 1. Prematurity and its complications (respiratory distress syndrome, bronchopulmonary dysplasia, retinopathy, necrotizing enterocolitis, periventricular hemorrhage, leucomalacia, osteopenia of prematurity, anemia). 2. Congenital infections (bacterial, viral, other). Early and late neonatal infections. Etiology, epidemiology, prevention, diagnosis, symptomatology, treatment of infections in the neonatal period. 3. Emergency conditions in neonatology - perinatal injuries, hypoxic-ischemic encephalopathy, selected metabolic diseases. Congenital malformations requiring intervention in the neonatal period

Legal acts specifying learning outcomes: 672/2020, 3112022
Disciplines: medical sciences
Status of the course: Obligatory
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: 6/11

Types of classes: Practical classes
Number of hours in semester: Practical classes: 90.00
Language of instruction: English
Introductory subject: Anatomy, Physiology, Pathology, Biochemistry, Histology with cytophysiology and embryology, Immunology, Microbiology, Pharmacology with Toxicology, Paediatrics Year III, IV and V, Ethics, Pathology, Laboratory diagnostics.
Prerequisites: Mastering the knowledge of introductory subjects and the ability to use it in the context of collecting interviews, examining a child, assessing his development as the basis for conducting differential diagnostics in the field of urinary tract diseases, endocrine diseases, including diabetes and hematology.

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:

(defects of the gastrointestinal tract, urinary tract, nervous system, ductal heart defects). Infectious diseases 1. Vaccination in the special situations. 2. Sepsis. Invasive pneumococcal disease. Meningitis. Haematology 1. Symptomatology, taking history, physical examination in oncology and hematology. 2. Solid tumors in children. 3. Emergencies in oncology. Autism 1. Autism spectrum disorders.

TEACHING 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 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+++ , M/NMA_P7S_UW+++ ,
M/NMA_P7S_WG+++ , M/NMA_P7S_KO+++ ,
M/NMA_P7S_KR+++

Symbols for outcomes related to the field of study:

K.3.+ , M/NM_E.W6.+ , E.U25.+ , E.U7.+ , E.U18.+ ,
M/NM_E.W1.+ , G.U7.+ , M/NM_E.W34.+ ,
E.U32.+ , E.U10.+ , E.U12.+ , M/NM_E.W2.+ ,
E.U24.+ , E.U14.+ , D.U16.+ , K.2.+ , K.5.+ ,
E.U4.+ , E.U2.+ , K.1.+ , E.U8.+ , M/NM_E.W3.+

LEARNING OUTCOMES:

Knowledge:

W1 - Knows and understands environmental and epidemiological conditions of the most frequent diseases

W2 - Knows and understands the most frequent life-threatening conditions in children and the rules of procedure in such conditions;

W3 - Knows and understands the causes, symptoms, rules of diagnostics, therapeutic and prevention procedures in most popular bacterial, viral, parasitic diseases and mycoses, including pneumococcal infections, hepatitis, acquired immune deficiency syndrome (AIDS), sepsis, and nosocomial infections;

W4 - Student knows and understands rules of nutrition applicable to healthy and ill children, including natural feeding, preventive vaccinations, and the rules of the child's health evaluation;

W5 - Student knows and understands the causes, symptoms, rules of diagnosing, and the therapeutic procedures in the most frequent paediatric health problems: 1) rickets, tetany, convulsions, 2) heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathy, heart arrhythmia, cardiac insufficiency, hypertension, fainting, 3) acute and chronic diseases of the upper and lower respiratory tract, congenital defects of the respiratory tract, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, nettle-rash, anaphylactic shock, angioedema, 4) anaemia, haemorrhagic diatheses, bone marrow failures, childhood malignancies, including solid tumours typical for childhood, 5) acute and chronic abdominal pains, vomiting, diarrheas, constipations, gastrointestinal bleedings, ulcer, non-specific bowel diseases, pancreatitis, cholestasis and liver diseases, and other acquired illnesses and congenital defects of the digestive tract, 6) urinary tract infections,

congenital defects of the urinary tract, nephrotic syndrome, kidney stones, acute and chronic kidney insufficiency, acute and chronic kidney inflammations, systemic kidney diseases, urination disorders, vesico-ureteral reflux disease, 7) growth disorders, thyroid and parathyroid diseases, adrenal diseases, diabetes, obesity, puberty and gonad function disorders, 8) infant cerebral palsy, encephalomyelitis and meningitis, epilepsy, 9) the most frequent children's infectious diseases, 10) genetic syndromes, 11) connective tissue diseases, rheumatoid fever, juvenile arthritis, systemic lupus erythematosus, dermatomyositis;

Skills:

- U1 - Student is able take medical interview with a child and its family;
- U2 - Student is able to apply nutritional treatment, including enteral and parenteral feeding.
- U3 - Student is able to plan specialist consultations.
- U4 - Student is be able to assess the stage of puberty.
- U5 - Student is be able to recognise behaviours and signals indicating possible violent abuse of a child while examining it.
- U6 - Student is able to perform a physical examination of a child of any age.
- U7 - Student is be able to assess the general condition, state of consciousness and awareness of the patient.
- U8 - Student is be able to assess the condition of the newborn on the Apgar scale and its maturity and examine neonatal reflexes.
- U9 - Student is able to perform differential diagnosis of the most common diseases of adults and children.
- U10 - Student is able to recognize life-threatening conditions.
- U11 - Student is able to show responsibility for improving their qualifications and passing their knowledge on to others.
- U12 - Student is able to propose individualization of existing therapeutic guidelines and other methods of treatment in the case of ineffectiveness or contraindications to standard therapy.
- U13 - The student is able to interpret the results of laboratory tests and identify the causes of deviations from the norm.

Social competence:

- K1 - Student is ready to establish and maintain a deep and respectful contact with the patient and to show understanding for the differences in world-view and culture.
- K2 - Student is willing to be guided by the welfare of the patient.
- K3 - Student is prepared to respect medical confidentiality and patient rights.
- K4 - Student is prepared to perceive and recognise his/her own limitations and to make a self-assessment of deficits and educational needs.

TEACHING FORMS AND METHODS:

Practical classes(W1;W2;W3;W4;W5;U1;U2;U3;U4;U5;U6;U7;U8;U9;U10;U11;U12; U13;K1;K2;K3;K4;):Exercise activities in groups under the supervision of the assistant: problem-based, situational, brainstorming, case study. Multimedia presentation. Discussion of the problem on the example of a clinical case. Round table discussion.

FORM AND CONDITIONS OF VERIFYING LEARNING

OUTCOMES:

Practical classes (Evaluation of the work and cooperation in the group) - Exercises - practical activities taking place in an assigned WSSD department or in the Medical Simulation Centre in groups of five, under the supervision of an assistant. Credit for each day on the basis of student activity: passed/unpassed. The student must pass each exercise, in case of failure there is a possibility of improvement with the assistant or the Head of the Department. -

Practical classes (Part in the discussion) - One unexcused absence is permitted. -

Practical classes (Colloquium test) - Seminars - include discussion of aspects of selected disease units. They are preceded by a test consisting of 3 open or test questions. Credit - correct answers to a minimum of two questions. Failure of 2 tests from all seminars results in failing the seminars. In case of failing more than 2 tests, they have to be passed by the seminar leader. -

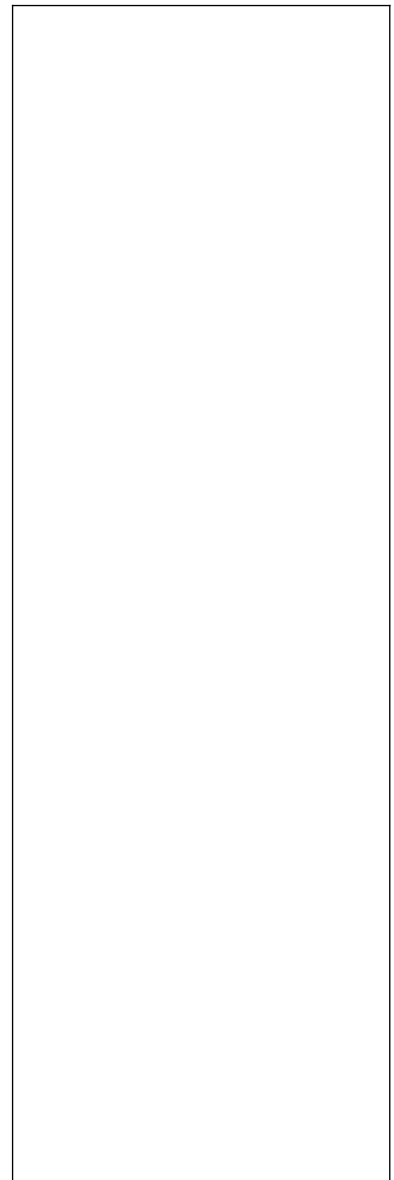
Practical classes (Written exam) - b.1 "Zero" term exam will be held with the use of National Board of Medical Examiners (NBME) Subject Exam. It consists of 110 questions from Pediatrics and it is fully organized by NBME. The exam is free of charge for English Division students. Students who receive from this test minimum 60 % are exempted from the final examination and receive 5 as a final grade. -

Practical classes (Exam) - 1. The final exam consists of three stages, the first two are the stages of admission to the third stage, for which the student receives a final grade. a) Stage one of the exam - the Practical exam for which a student can get max. 25 points. b) Final exam - „OSCE” The written examination consists of 15 clinical questions with a case description, laboratory and imaging results, for which 10 test questions are formulated. The student can receive 1 point for each correct answer - total max. 150 points for correct answers to all questions. To pass the second stage, a minimum of 71% i.e. 106 points must be obtained. The grade obtained from this stage of the examination is the final grade for the subject Pediatrics. -

BASIC LITERATURE:

1. Marc dante K. Kliegman R.M., *Nelson Essentials of Pediatrics 9 th edition*, Wyd. Elsevier, R. 2022
2. Lissauer T., Carrol W., *Illustrated Textbook of Paediatrics*,, Wyd. Elsevier, R. 2021

SUPPLEMENTARY LITERATURE:



Detailed description of ECTS credits awarded - part B

48SJ-PED67
ECTS: 8.00
CYCLE: 2023Z

Pediatrics 6

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Practical classes	90.0 h
- consultation	5.0
	Total: 95.0 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.	105.00 h
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Total: 105.0 h

contact hours + independent work of a student Total: 200.0 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS credit = 200.0 h : 25.0 h/ECTS
= 8.00 ECTS on average: 8.0 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: