UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN
Faculty of Medicine

Course sylabus – part A
Pediatrics 6

48SJ-PED67
ECTS: 8.00
CYCLE: 2024Z

SUBJECT MATTER CONTENT

PRACTICAL CLASSES

ĆWICZENIA: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. Chemical burns of the GI tract. Gastrointestinal foreign bodies. Bleeding of the upper and lower part of the gastrointestinal tract. Enteral and parenteral nutrition in children. Short bowel syndrome. Inflammatory bowel disease in children. Ulcerative colitis, Crohn's disease, non-specific colitis Diagnosis of rheumatic diseases in children. Differences in the course of connective tissue diseases in children. Differential diagnosis of arthritis in children. Reactive arthritis. Juvenile rheumatoid arthritis. Neurological examination in children. Cerebral palsy. Epilepsy. Non-epileptic seizures. Febrile seizures. Headaches. Neurodegenerative disorders in children. Complications of the prematurity: bronchopulmonary dysplasia, retinopathy of prematurity, necrotizing enterocolitis, intraventricular hemorrhages, perinatal hypoxia, hypoxic ischemic encephalopathy. Congenital infections. Neonatal emergencies Vaccination in the special situations. Sepsis. Invasive pneumococcal disease. Meningitis. Symptomatology, taking history, physical examination in oncology and hematology. Solid tumors in children Emergencies in oncology Immunodeficiencies in children. Atopic dermatitis. Asthma in children. Anaphylaxis in children, emergencies in allergology – CSM Autism spectrum disorders Congenital anomalies of the head and central nervous system. Dysmorphology, diagnostics and treatment. Functional disorders in children. Rome criteria IV Atopic disorders: atopic dermatitis, asthma in chlidern, allergic rhinitis

SEMINAR

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Legal acts specifying learning outcomes: 672/2020
Disciplines: medical sciences
Status of the course: Obligatoryjny
Group of courses:B - przedmioty kierunkowe
Code: ISCED 0912
Field of study: 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, physiology of child development. Principles of child nutrition, symptomatology of the most common childhood diseases, physical examination of a child of different ages.
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:

prematurity: bronchopulmonary dysplasia, retinopathy of prematurity, necrotizing enterocolitis, intraventricular hemorrhages, perinatal hypoxia, hypoxic ischemic encephalopathy. Congenital infections. Neonatal emergencies Vaccination in the special situations. Sepsis. Invasive pneumococcal disease. Meningitis. Symptomatology, taking history, physical examination in oncology and hematology. Solid tumors in children Emergencies in oncology Immunodeficiencies in children. Atopic dermatitis. Asthma in children. Anaphylaxis in children, emergencies in allergology – CSM Autism spectrum disorders Congenital anomalies of the head and central nervous system. Dysmorphology, diagnostics and treatment. Functional disorders in children. Rome criteria IV Atopic disorders: atopic dermatitis, asthma in chlidern, allergic rhinitis

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.During the classes, the most common causes of injuries in children, methods of treating them and procedures in the pediatric emergency room will be discussed. The student joining the course has basic knowledge of pediatric and ophthalmology. He or she will be able to asses an eye injury, remove a forign body from the eye in a outpatient clinic and use ophthalmological drugs after an injury.

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/NMA_P7S_WG+++, M/NM+++, M/NMA_P7S_UW+++, M/NMA_P7S_KR+++, M/NMA_P7S_KO+++
Symbols for outcomes related to the field of study:	E.U8.+, E.U32.+, E.U12.+, M/NM_E.W2.+, K.1.+, G.U7.+, E.U18.+, E.U7.+, E.U14.+, K.2.+, K.3.+, M/NM_E.W3.+, K.5.+, E.U2.+, M/NM_E.W6.+, E.U24.+, M/NM_E.W34.+, E.U25.+, E.U10.+, E.U4.+, D.U16.+, M/NM_E.W1.+

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, gastro-intestinal 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) - Cxercises - 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. Marcdante K. Kliegman R.M., *Nelson Essentials of Pediatrics*, Tom 7, Wyd. Wyd. Saunders, R. 2015

SUPPLEMENTARY LITERATURE:

Detailed description of ECTS credits awarded - part B

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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.	75.00 h

Prowadzący nie przypisał wszystkich godzin pracy studenta lub przedmiot ma zmienioną ilość godzin i jest ich za dużo, wynik ECTS może być niepoprawny.

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: