UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN
Faculty of Medicine

Course sylabus – part A
Pediatrics 1

48SJ-PED17
ECTS: 2.00
CYCLE: 2024Z

SUBJECT MATTER CONTENT

LECTURE
INTRODUCTION TO PAEDIATRICS 1. Introduction into the paediatrics. General terms related to the child care. Ethical issues in the paediatrics. Diagnostics guidelines and therapeutic standards in the modern paediatrics. [1H] 2. History taking and physical examination in pediatrics: principles of proper physical examination in pediatric patients. [1H] 3. Pediatric symptomatology / general semiotic in pediatrics and significance of chosen clinical signs and symptoms in children [2H] 4. Puberty – physiology and clinical features; major health-related problems in adolescent medicine [1H] 5. Child abuse and neglect (Maltreated child syndrome). Fetal Alcohol Syndrome (FAS) Attention deficit hyperactivity disorder-ADHD.[1H] 6. Major nutritional problems during growth: Undernutrition, childhood obesity; eating disorders (anorexia nervosa, bulimia nervosa).[2H] 7. Vitamin D – metabolism and clinical significance. Disturbances of the calcium and phosphorus homeostasis (rickets, osteoporosis) [1H] 8. Metabolic disorders. Metabolic screening of newborns [1H]

SEMINAR
1. Classification of the newborn infants by birth weight and gestational age. Prematurity [3H] 2. Medical assessment of the newborn infant. Adaptation to the extrauterine life [3H] 3. Rules of newborn resuscitation. Preventive health care during neonatal period [3H] 4. Respiratory and circulatory adaptation. Newborn laboratory standards [2H] E. Szwałkiewicz-Warowicka 5. Physiology and pathology of the respiratory system and cardiovascular system. Neonatal screening, inborn errors of the metabolism [2H] 6. Skin and subcutaneous tissue of the newborn infant: physiology, most common disorders [2H]

CLASSES
NEONATOLOGY 1. Symptomatology of newborn and infant diseases. Physical examination of infants [5H] 2. Medical history physiological and morphological features of the term babies. Adaptation to extra uterine life. Physiological jaundice, jaundice connected to breast feeding, pathological jaundice [5H] 3. Breastfeeding and formula-feeding. Types of formulas. Diarrhea in children [5H] 4. Physical examination of children [5H]

TEACHING OBJECTIVE
It is to get the student's knowledge on the efficient history taking, examination of the child and perform a differential diagnosis, assessment of the physical and psychomotoric child's development in different age groups, pre-treatment medical orders, develop a treatment plan.

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

Legal acts specifying learning outcomes: 672/2020, 311/2023
Disciplines: medical sciences
Status of the course: Obligatoryjny
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: 3/5

Types of classes: Lecture, Seminar, Classes
Number of hours in semester: Lecture: 10.00, Seminar: 15.00, Classes: 20.00
Language of instruction: English
Introductory subject: Anatomy, Physiology, Pathology, Biochemistry, Histology with cytophysiology and embryology, Immunology, Microbiology, Ethics, Laboratory diagnostics
Prerequisites: Knowledge of the subjects and introducing the ability to use it in the context of history taking, examination of the child and differential diagnosis, assessment of the physical and psychomotoric child's development in different age groups.

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: Presence during round. Examination of the choosen hospitalised patients.

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_KR++, M/NMA_P7S_KO++, M/NMA_P7S_WG++, M/NM+++
Symbols for outcomes related to the field of study:	A.U5.+, E.W2.+, E.W3.+, E.U4.+, E.W1.+, K.5.+, E.U8.+, E.U27.+, E.U9.+, A.U3.+, E.W5.+, E.W4.+, K.4.+, E.U2.+, K.2.+, K.3.+, K.1.+

LEARNING OUTCOMES:

Knowledge:

W1 – Student knows and understands environmental and epidemiological conditions of the most frequent diseases;

W2 – Student knows and understands the rules of nutrition applicable to healthy and ill children, including natural feeding, preventive vaccinations, and the rules of the child's health evaluation;

W3 – 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;

W4 – Student knows and understands the problems of a maltreated and sexually abused child, mental retardation and behavioural disorders - psychoses, addictions, eating and expelling disorders in children;

W5 – Student knows and understands the basic diagnostic and therapeutic methods with respect to the foetus;

Skills:

U1 – Student can explain the anatomical grounds of physical examination.

U2 – Student can use the anatomic, histological, and embryological nomenclature in speech and writing.

U3 – Student can take medical interview with a child and its family;

U4 – Student can conduct physical examination of a child of any age.;

U5 – Student can assess the condition of a new-born baby in the Apgar scale, its maturity, and examine its reflexes.

U6 – Student can analyse the anthropometric measurements and blood pressure against the percentile norm data.

U8 – Student can qualify the patient for vaccinations.

Social competence:

K1 – Student is ready to establish and maintain deep and respectful contact with the patient and show understanding for ideological and cultural differences.

K2 – Student is ready to be guided by the well-being of the patient.
K3 – Student is ready to respects phycisian-patient privilege and patient's rights.
K4 – The student is ready to take action towards a patient on the basis of ethical principles, with awareness of social determinants and limitations resulting from the disease
K5 – Student is ready to recognize his own limitations and to make self-assessments of educational deficits and needs.

TEACHING FORMS AND METHODS:

Lecture(W1;W2;W3;W4;W5;U1;U2;U3;U4;U5;U6;U8;K1;K2;K3;K4;K5;):Multimedia presentation
Seminar(W1;W2;W3;W4;W5;U1;U2;U3;U4;U5;U6;U8;K1;K2;K3;K4;K5;):Multimedia presentation. Discussion.
Classes(W1;W2;W3;W4;W5;U1;U2;U3;U4;U5;U6;U8;K1;K2;K3;K4;K5;):Work in small groups, case analysis, history taking, physical examination

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Lecture (Part in the discussion) - Part in the discussion - Presence at all classes -
Seminar (Part in the discussion) - Part in the discussion - Presence at all classes -
Classes (Evaluation of the work and cooperation in the group) - During each exercise the student is evaluated by the teacher (active in classes, preparation) 0 - 1 point. Participation in discussion - Oral answer, activity 0-1 pt. Written test - In the course of each day there is a test of preparation for classes (the material covers the topics of classes, seminars based on the obligatory textbooks and lectures). The test consists of three written questions or three test questions (credit = correct answer to 2 questions). The credit for the exercises in the winter semester according to the following scale: ≤ 71% points - unsatisfactory 72 -76% points - satisfactory 77-82% points - satisfactory plus 83-88% points - good 89-94% points - good plus 95- 100% points -Very Good -

BASIC LITERATURE:

1. Marcdante K. Kliegman R.M..M., *Nelson Essentials of Pediatrics - 9th edition*, Wyd. Elsevier, R. 2022
2. Lissauer T., Clayden G., *Illustrated Textbook of Paediatrics*, Wyd. Elsevier, R. 2021
3. William W. Hay JR., Myron J.Levin., Robin R. Deterding., Mark J. Abzug, *Current Diagnosis Treatment Pediatric*, Wyd. Lange Mc Graw Hill Education, R. 2018
4. Kliegman R., Joseph St.Geme, *Nelson Textbook of pediatrics, 21 edition*, Wyd. Elsevier, R. 2021

SUPPLEMENTARY LITERATURE:

Detailed description of ECTS credits awarded - part B

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Pediatrics 1

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Lecture	10.0 h
- participation in: Seminar	15.0 h
- participation in: Classes	20.0 h
- consultation	2.0
	Total: 47.0 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.	3.00 h

Total: 3.0 h

contact hours + independent work of a student Total: 50.0 h

1 ECTS credit = 25-30 h of an average student’s work, number of ECTS credit = 50.0 h : 25.0 h/ECTS = 2.00 ECTS on average: 2.0 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: