



## Course syllabus - part A Pediatrics 3

**48SJ-PED37**  
**ECTS: 3.00**  
**CYCLE: 2024Z**

### SUBJECT MATTER CONTENT

#### LECTURE

Nephrology 1. Urinary tract infections 2. Guidelines for diagnosis of urinary tract infections in children. 3. Guidelines for treatment of urinary tract infections in children. 4. Vesicoureteral reflux- diagnosis and treatment. 5. CAKUT-congenital anomalies of the kidney and urinary tract. 6. Management of isolated proteinuria. Functional proteinuria. 7. Nephrotic syndrome in children. 8. Guidelines for treatment of nephrotic syndrome in children. 9. Management of hematuria. 10. Poisoning in children.

#### SEMINAR

1. Anaemia in children: iron deficiency anaemia, haemolytic anaemia aplastic anaemia [3H] 2. Disorders of primary hemostasis and fibrinolysis (vascular defects, von Willebrand disease, thrombocytopenia, platelets dysfunction) [2H] 3. Disorders of secondary hemostasis in children. Normal ranges of hemostasis in children [1H] 4. Leukaemias in children [2H] 5. Tumors of lymphatic system in children [2H]

#### CLASSES

1. Anaemia due to reduced red cell production. Iron deficiency, foliate deficiency anaemia. Pernicious anaemia. Anaemia of the chronic diseases. Haemolytic anaemia (congenital, acquired) [5H] 2. Aplastic anaemia (congenital, acquired) [5H] 3. Haemostasis disorders in children [5H] 4. Leukaemia. Lymphomas [5H] 5. Diabetes mellitus in children. [5H] 6. Treatment of diabetes mellitus: ketoacidosis. Diabetes mellitus type 2. [5H]

#### TEACHING OBJECTIVE

It is getting the knowledge of individuality anatomic and physiologic urinary and endocrine systems. Acquire the knowledge of hematological standards in children. Collecting intelligence, knowledge of differential diagnosis, treatment, supervision and prevention of diseases of the urinary tract, diabetes, haematological disorders, selected cancers, immune disorders in children. Consolidation of skills to take medical history, physical examination. Programming of therapeutic plan, monitoring the patient.

#### 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**

M/NMA\_P7S\_WG+++ , M/NM+++ ,

**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:** 4/7

**Types of classes:** Lecture, Seminar, Classes

**Number of hours in semester:**Lecture: 10.00, Seminar: 10.00, Classes: 30.00

**Language of**

**instruction:**English

**Introductory subject:**

Anatomy, Physiology, Pathology, Biochemistry, Histology with cytophysiology and embriology, Immunology, Microbiology, Pharmacology and Toxycology, Pediatrics

**Prerequisites:** Mastering knowledge of the subjects, orientation and ability to use in the context of history taking, physical examination of the child, assess its development as a basis for the differential diagnosis of disorders of the urinary system, endocrine disorders, 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

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**Additional remarks:**

**related to the discipline:**

M/NMA\_P7S\_UW+++ , M/NMA\_P7S\_KR+++ ,  
M/NMA\_P7S\_KO+++

**Symbols for outcomes  
related to the field of study:**

E.U24.+ , E.W6.+ , K.5.+ , E.W3.+ , E.W1.+ ,  
E.U4.+ , E.U16.+ , E.U32.+ , K.4.+ , E.U2.+ ,  
E.U17.+ , 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 most frequent life-threatening conditions in children and the rules of procedure in such conditions;

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;

**Skills:**

U1 - (E.U4) The graduate can perform a physical examination of the child at any age.

U2 - (E.U16) The graduate can plan diagnostic, therapeutic and prophylactic procedures.

U3 - (E.U17)The graduate can analyze the possible side effects and interactions of proscribed drugs

U4 - (E.U24) The graduate is able to interpret laboratory tests and identifies the causes of deviations.

U5 - (E.U32) The graduate can plan specialist consultations.

U6 - (E.U2) The graduate can perform a medical history of the child and his family.

**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 physician-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 - The 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:

Lecture(W1;W2;W3;U1;U2;U3;U4;U5;U6;K1;K2;K3;K4;K5;):Multimedia presentation

Seminar(W1;W2;W3;U1;U2;U3;U4;U5;U6;K1;K2;K3;K4;K5;):Multimedia presentation. Discussion.

Classes(W1;W2;W3;U1;U2;U3;U4;U5;U6;K1;K2;K3;K4;K5;):Work in small groups. History taking, physical examination, analysis of cases.

## FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Lecture (Part in the discussion) - Presence at all lectures. -

Seminar (Part in the discussion) - Part in the discussion - Presence at all classes. The student receives the same grade as in the classes. -

Classes (Written test) - Participation in discussion - Oral answer, activity 0-1 pt. Medical history - Preparing by the student the medical history of one patient in the winter semester: 0-2 pts 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., *Nelson Essentials of Pediatrics*, Wyd. wyd.Saunders., R. 2011
2. Marcdante K. Kliegman R.M. wyd.Saunders Nelson essentials of Pediatrics 2011, *Nelson Essentials of Pediatrics*, Wyd. wyd.Saunders, R. 2015
3. Kawalec W., Grenda R., Ziółkowska H, *Pediatrics*, Tom I, Wyd. PZWL, R. 2013
4. Kawalec W., Grenda R., Ziółkowska H, *Pediatrics*, Tom II, Wyd. PZWL, R. 2013
5. Dobrzańska A., Ryżko J., *Pediatrics - podręcznik do lekarskiego egzaminu państwowego*, Wyd. U Wrocław, R. 2014
6. Pietrzyk J., Szajewska H., Mrukowicz J., *BC zabiegów w pediatrii*, Wyd. edycyna Praktyczna,, R. 2012
7. Obuchowicz A., *Badania podmiotowe i przedmiotowe w pediatrii*, Wyd. PZWL, R. 2007
8. Kubicka K., Kawalec W., *Pediatrics*, Tom I, Wyd. PZWL, R. 2003
9. Kubicka K., Kawalec W., *Pediatrics*, Tom II, Wyd. PZWL, R. 2003

## SUPPLEMENTARY LITERATURE:

## Detailed description of ECTS credits awarded - part B

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### **Pediatrics 3**

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Lecture	10.0 h
- participation in: Seminar	10.0 h
- participation in: Classes	30.0 h
- consultation	2.0
	Total: 52.0 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. 23.00 h

Total: 23.0 h

contact hours + independent work of a student Total: 75.0 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS credit = 75.0 h : 25.0 h/ECTS  
= 3.00 ECTS on average: 3.0 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: