

Course title: PEDIATRICS 1

ECTS credit allocation (and other scores): 3 ECTS

Semester: autumn

Level of study: ISCED-7 - second-cycle programmes (EQF-7)

Branch of science: Medical and health sciences

Language: English

Number of hours per semester: 45

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Type of classes: classes and lectures

Substantive content

CLASSES: Neonatology

1. Symptomatology of newborn and infant diseases. Physical examination of infants.
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
3. Breastfeeding and formula-feeding. Types of formulas. Diarrhea in children.
4. Physical examination of children

Seminars:

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

LECTURES: Introduction to Pediatrics

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
2. History taking and physical examination in pediatrics: principles of proper physical examination in pediatric patients.
3. Pediatric symptomatology / general semiotic in pediatrics and significance of chosen clinical signs and symptoms in children
4. Puberty – physiology and clinical features; major health-related problems in adolescent medicine
5. Child abuse and neglect (Maltreated child syndrome). Fetal Alcohol Syndrome (FAS) Attention deficit hyperactivity disorder-ADHD.
6. Major nutritional problems during growth: Undernutrition, childhood obesity; eating disorders (anorexia nervosa, bulimia nervosa).
7. Vitamin D – metabolism and clinical significance. Disturbances of the calcium and phosphorus homeostasis (rickets, osteoporosis)
8. Metabolic disorders. Metabolic screening of newborns.

Learning purpose: 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.

On completion of the study programme the graduate will gain:

Knowledge:

W1 - (E.W.1) Knows and understands the environmental and epidemiological factors which affect the most common disease.

W2 - (E.W2) Knows and understands the rules of nutrition for healthy and sick children, including natural feeding, preventive vaccination and maintaining child's health status report.

W3 - (E.W3) Knows and understands the causes, syndroms and signs, rules of diagnostic methods and therapeutic procedures in the most common paediatric diseases: a) rickets, tetany, convulsions, b) congenital cardiac defects, cardiomyopathy, cardiac arrhythmia, c) acute and chronic diseases of upper and lower respiratory tract, congenital defects of the respiratory system, tuberculosis, cystic fibrosis, asthma, d) acute and chronic abdominal pain, vomiting, diarrhoea, constipation, congenital defects of the gastrointestinal tract, e) urinary tract infections, congenital defects of the urinary tract, vesicoureteral reflux, f) genetic syndroms g) anaemia and bleeding disorders, h) the most common infectious diseases.

W4 - (E.W4) Knows and understands the issues of: maltreated children, sexual abuse, mental disability, behavioural disorders: psychoses, addictions, nutrition and excretion disorders in children.

W5 - (E.W5) Knows and understands the basic methods of foetus diagnostic and therapy.

Skills:

U1 - (A.U3) Student can explain anatomical foundations of a physical examination.

U2 - (A.U5) Student can use anatomical histological and embryological terminology in speech and writing.

U3 - (E.U2) The graduate can take the medical history of a child by talking to the child's family.

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

U5 - (E.U8) The graduate can make an assessment of the condition of an infant on the Apgar scale and of his/her maturity and examines the primitive reflexes.

U6 - (E.U9) The graduate can juxtapose the results of anthropometric measurements and blood pressure with data on centile charts.

U8 - (E.U27) The graduate can qualify a patient for vaccination.

Social Competencies:

K1 - (K.1) The graduate is ready to establish and maintain deep and respectful contact with the patient and show understanding for ideological and cultural differences.

K2 - (K.2) The graduate is ready to be guided by the well-being of the patient.

K3 - (K.3) The graduate is ready to respect physician-patient privilege and patient's rights.

K5 - (K.5) The graduate is ready to recognize his own limitations and to make self-assessments of educational deficits and needs.

Basic literature:

1) Lissauer T., Clayden G., *Illustrated Textbook of Paediatrics*, wyd. Mosby, 2011, t. - ; 2) Marcante K. Kliegman R.M., *Nelson Essentials of Pediatrics*, wyd. Saunders, 2011, t. 6 ; 3) Marcante K. Kliegman R.M., *Nelson Essentials of Pediatrics*, wyd. Saunders, 2015, t. 7

Supplementary literature:

1) Kawalec, Grenda, Ziółkowska, *Pediatrics*, wyd. PZWL, 2013, t. - ; 2) Dobrzańska A., Ryżko J., *Pediatrics*. Podręcznik do Lekarskiego Egzaminu Końcowego i Państwowego Egzaminu Specjalizacyjnego, wyd. PZWL, 2014, t. -, s. 561-710

The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 47h

Student's independent work: 28h