UNIVERSITY
OF WARMIA AND MAZURY
IN OLSZTYN

Faculty of Medicine

Course title: Pediatrics 6

ECTS credit allocation (and other scores): 8 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: 120

Course coordinator/ Department and e-mail: Elżbieta Jarocka – Cyrta, elzbieta.jarocka@uwm.edu.pl

Type of classes: classes

Substantive content

CLASSES:
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. Gastroeneterology 1. Chemical burns of the GI tract. Gastrointestinal foreign bodies. Bleeding of the upper and lower part of the gastrointestinal tract. 2. Enteral and prenatal nutrition in children. Short bowel syndrome. 3. Inflammatory bowel disease in children. Ulcerative colitis, Crohn's disease, non-specific colitis 4. Functional disorders in children. Rome criteria IV 5. Pancreatic disorders in children. Cystic fibrosis. Reumatology 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. Neurology 1. Neurological examination in children. Cerebral palsy. Epilepsy. Non-epileptic seizures. Febrile seizures. 2. Headaches. Neurodegenerative disorders in children. Neonatology 1. Complications of the prematurity: bronchopulmonary dysplasia, retinopathy of prematurity, necrotizing enterocolitis, intraventricular hemorrhages, perinatal hypoxia, hypoxic ischemic encephalopathy. 2. Congenital infections. Neonatal emergencies Infection diseases 1. Vaccination in the special situations. 2. Sepsis. Invasive pneumococcal disease. Meningitis. Oncology 1. Symptomatology, taking history, physical examination in oncology and hematology. 2. Solid tumors in children 3. Emergencies in oncology Immunology 1. Immunodeficiencies in children. Atopic dermatitis. Asthma in children. Alergology 1. Anaphylaxis in children, emergencies in allergology – CSM Autism 1. Autism spectrum disorders Rare congenital syndromes, craniostenosis. Application of modern methods of biomedical engineering in preoperative planning of craniofacial surgery
disorder.

Learning purpose: 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.

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.

W10 - (E.W6) Student knows and understand the most frequent conditions of life threat in children and rules of conduct in these states.
W11 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic and prophylactic treatment in the most common bacterial, viral, parasitic and fungal diseases, including pneumococcal infections, viral hepatitis, acquired AIDS immune deficiency, sepsis and nosocomial infections.
W2 - (E.W2) Knows and understand the principles of nutrition for healthy and sick children, protective vaccinations and keeps the child's health balance.
W3 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: heart defects, myocarditis, endocarditis, cardiomyopathy, cardiac arrhythmias, heart failure, hypertension, syncope.
W4 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the most common diseases of children: acute and chronic diseases of the upper and lower respiratory tract, congenital defects of the respiratory system, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria, anaphylactic shock, edema vasomotor.
W5 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: anemia, bleeding disorders, conditions of bone marrow failure, childhood cancers, including solid tumors typical of childhood.
W6 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: cerebral palsy, inflammation of the brain and meningitis, epilepsy.
W7 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: the most common infectious diseases of childhood.
W8 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus, dermatomyositis.
W9 - (E.W3) Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the most common diseases of children: acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, diseases of the pancreas, cholestasis and liver diseases, and other acquired diseases and congenital malformations of the gastrointestinal tract

Skills:
U1 - (E.U2) The graduate can conduct a medical interview with the child and his family.
U10 - (E.U25) The graduate is able to appy nutritional treatment including enteral and parenteral nutrition.
U11 - (E.U32) The graduate plans specialist consultations.
U12 - (E.U10) The graduate can assess the stage of sexual maturation.
U13 - (G.U7) The graduate is able to recognize during the child's examination behaviors and symptoms indicating the possibility of violence against the child
U2 - (E.U4) The graduate can perform a physical examination of a child of all ages.
U3 - (E.U7) The graduate can assess the general condition, the state of consciousness and awareness of the patient.
U4 - (E.U8) The graduate is able to assess the condition of the newborn on the Apgar scale, its maturity and newborn reflexes.
U5 - (E.U12) The graduate can performs differential diagnostics of the most common diseases of adults and children.
U6 - (E.U14) The graduate can recognize the states of immediate threat to life.
U7 - (E.U16) The graduate can plan diagnostic, therapeutic and prophylactic procedures.
U8 - (E.U18) The graduate is able to propose individualization of existing therapeutic guidelines and other methods of treatment in the event of ineffectiveness or contraindications to standard therapy.
U9 - (E.U24) The graduate is able to interpret the laboratory tests and identify the causes of deviations from the norm.

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 respects phycisian-patient privilege and patient's rights.
K4 - (K.5) The graduate is ready to recognize his own limitations and to make self-assessments of educational deficits and needs.

Basic literature:
1) W. Kawalec, R. Grenda, H. Ziółkowska, Pediatria, wyd. PZWL, 2013, t. 1 i 2 ; 2) A. Dobrzańska, J. Ryżko, Pediatria. Podręcznik do Lekarskiego Egzaminu Końcowego i Państwowego Egzaminu Specjalizacyjnego, wyd. Elsevier Urban&Partner, 2014

Supplementary literature:
1) J. Szczapa, Neonatologia, wyd. PZWL, 2015 ; 2) A. Chybicka, K. Sawicz-Birkowska, Onkologia i hematologia dziecięca , wyd. PZWL, 2008, t. 1 i 2 ; 3) A. Chybicka, Od objawu do nowotworu, wyd. Urban&Partner, 2013 ; 4) P. Socha, Gastroenterologia dziecięca, wyd. Medi Press, 2016 ; 5) E. Bernatowska, Szczepienia ochronne, wyd. PZWL, 2017 ; 6) A. Dobrzańska, Wywiad i badanie w pediatrii, wyd. Elsevier Urban&Partner, 2012.

The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 125h

Student's independent work: 75h