Name of the Faculty	Faculty of Medicine
Name of the unit conducting the module	Polish-American Children's Hospital of the Faculty of Medicine, Jagiellonian University
Name of the training module	Pediatrics part 1 (propaedeutic)
Module code	
Language of training	English
Education effects for the training module	The aim of the module is: • familiarize students with basic information on developmental medicine • to teach basic practical skills, including intelligence collections in pediatrics and full physical examination of the child's age-adjusted After completion of the course the student: In the frame of knowledge: • knows anatomical and physiological distinct of children • know genetic, environmental and epidemiological conditions of the most common childhood diseases • knows principles of nutrition healthy and sick children, • knows rules and conduct immunization balance the child's health In the frame of skills: • conduct medical interviews with child and his family • carry out a physical examination of child at any age • assesses the general condition, consciousness and awareness of patient • performs indicative hearing test and field of vision and otoscopic examination • evaluates the status of newborn using Apgar score and assesses its maturity, can examine reflexes of neonatal • summarizes the anthropometric measurements and blood pressure data on percentile grids • is able to assess the progress of sexual maturation In the frame of social competence: • can shows respect for the patient and his family • respect the patient's rights, including the protection of personal data • can operate in a group
Type of training module (mandatory/facultative)	Mandatory
Year of study	3-6
Semester	5
Name of the person leading the module	Prof. Marek Kaciński, MD PhD Prof. Jacek A. Pietrzyk, MD PhD Prof. Jacek J. Pietrzyk, MD PhD Prof. Walentyna Balwierz, MD PhD Prof. Krzysztof Fyderek, MD PhD Prof. Andrzej Rudziński, MD PhD Prof. Jerzy Starzyk, MD PhD Grzegorz Lis, MD PhD Przemko Kwinta, MD PhD Coordinator of the course: Dr med Piotr Kruczek
Name of the person examining or granting a credit if it is not the person conducting the module	Prof. Przemko Kwinta, MD, PhD
Methods of performance	Cases presentations Teaching focused on the problem Clinical classes
Initial and additional requirements	
Type and number of class hours that require direct involvement both teacher and students, when such activities are provided for the module	Case presentations, teaching focused on the problem - 26 hours Clinical classes - 24 hours
Number of ECTS credits allocated to the module	3
Balance of ECTS points	Participation in mandatory classes - 50 hours Preparation for classes - 14 hours Development of case and problem presentation- 14 hours Preparation for credit - 10 hours A total 88 hours of student workload

Teaching methods applied	Working with a small group: - Presentations of clinical cases - PBL type classes - "Problem Based Learning" Clinical Exercise
Methods for testing and evaluation criteria for learning outcomes achieved by students	Students will be evaluated based on participation and active participation in classes, individual task preparation – case or medical problem presentation. Additional criteria for evaluation are the timely execution of tasks and adapt to the requirements relating to the manner of their implementation set by the teacher. Individual task: Each student prepares a case or medical problem presentation related to the topics listed in the schedule of mandatory education module content. The presentation is presented to the other members of the group participating in the activities and provides a basis for discussion. Each presentation should include: - structured presentation of clinical case or presentation of medical problem definition - algorithm of diagnostic procedure - discussion about therapeutic procedure - prognosis presentation - list of current literature used for the preparation of presentation The presentation should include approx. 10 slides, duration of presentation -10 min. Deadlines for implementation of individual tasks and deliver a presentation are defined with the students during classes. Detailed criteria for the assessment of individual task will be discussed with students in the classroom. Assessment of practical skills: Full physical examination of the child and its presentation. Final test: (60 questions, 1 out of 5 answers correct), at least 60 % of positive answers needed to pass the test Practical skills test carried out by the assistant
Form and conditions for module passing, including the rules of admission to the exam, pass, and the form and condition for completion of the various activities within the scope of the module	Graded Credit Completion of the module is subject to the following conditions: 1. attendance 2. active participation in classes 3. presentation of clinical case / medical problem 4. credit test relating practical skills
Training module content	Case presentations, teaching focused on the problem - 13 x 2 hours 1. Fever 2. Interpretation of radiological examination of the chest in children. Ultrasound of lung 3. Vomiting, diarrhea, dehydration 4. The physical development of the child and assessment of nutritional status 5. Characteristics and physiological changes in the circulatory system of the child: fetal and after birth circulation - essential differences and their significance. A detailed family history (including family history of CHD and their types) 6. A detailed interview concerning the current status and clinical course of diseases/defects of the circulatory system, large and small signs of congenital heart defects in children 7. Diagnosis of a child with proteinuria, hematuria, pyuria 8. Congenital defects of the kidney in children-diagnosis and treatment based on selected clinical cases 9. Condition with lymphadenopathy. Condition with an enlarged liver and spleen 10. Anemia in children - symptoms and diagnosis, Bleeding disorders - symptoms and diagnosis 11. Normal and abnormal grow - clinical significance. 12. Normal and abnormal maturation - clinical significance 13. Progressive and stationary encephalopathy 14. Assessment of motor, cognitive and speech development Clinical Exercise - 12 x 2 hours: 1. Child as a patient in hospital - the principle of respect for the rights of children and parents. Periods of child development. Documentation in pediatrics - history of the disease, febrile card. Child's health booklet. 2. Intelligence collection in pediatrics 3. Criteria for assessing general child condition. Methods for

	evaluation of somatic development. 4. Skin, subcutaneous tissue, peripheral lymph nodes - physical examination, semiotics. Level of nutrition assessment. 5. Chest: study by watching, percussion, auscultation. Measurement of blood pressure. 6. Semiotics of the most common disorders of the respiratory system: cough, dyspnea, stridor, cyanosis, physiological and pathological rales 7. Abdomen - study by watching, rating peristalsis, percussion, superficial and deep palpation. External genitalia examination. 8. Semiotics of abdominal diseases: abdominal pain (signs of acute abdomen), vomiting, diarrhea, constipation, free fluid in the peritoneal cavity, enlargement of parenchymal organs 9. Assessment of strength and muscle tone. Deep and superficial reflexes. Meningeal symptoms depending on age of the child. Neurological examination of the cranial nerves. Assessment of psychomotor development 10. Oral cavity and nasopharynx evaluation. Semiotics of oral diseases. Examination of the neck organs. Evaluation of the thyroid gland. 11. The skeletal system, the most common disorder. Evaluation of active and passive mobility of the joints. Examination of the hip joints. 12. Summary - complete physical examination of the child, case presentation by the student.
Basic and supplementary bibliography to complete the module	Basic literature: 1. A.J. Pomeranz et al. Pediatric decision making strategies. Elsavier 2. K.J. Marcdante. Nellson essential of Pediatrics 3. R.B. Goldbloom. Pediatric Clinical Skills
Dimension, principles and form of awarded for practice when the training program provides practice	

3/6 part 1. Syllabus, 50 hours

Case presentations – 26 hours

No	Topic	Department	Doctor
1.	Fever	Pediatrics	P. Kwinta
2.	Lung USG	Pediatrics	P. Kruczek
3.	Vomiting, diarrhea, dehydration	Gastroenterology	
4.	Physical development, assessment of nutrition	Gastroenterology	
5.	Fetal and neonatal circulation. Causes of congenital heart defects	Pediatrics	P. Kruczek
6.	History taking in heart disorders. Minor and major signs of congenital heart defects	Cardiology	
7.	Proteinuria, hematuria, pyuria	Nephrology	
8.	Congenital defects of kidneys and urinary tract – diagnostics	Nephrology	
9.	Lymphadenopathy, hepatosplenomegaly	Hematology	
10.	Anemia in children –symptoms and diagnostics. Hemorrhagic diathesis	Hematology	
11.	Normal and abnormal growth	Endocrinology	
12.	Normal and abnormal puberty	Endocrinology	
13.	Assessment of motor, cognitive and speech development	Neurology	

Practical exercises – 24 hours

No	Topic	Department	Doctor
1.	The child as a patient – respect of the child's and parental rights. Periods of development in childhood. Patient's record	Pediatrics Gastroenterology Nephrology Neurology	
2.	Taking history in pediatrics	Pediatrics Gastroenterology Nephrology Neurology	
3.	General status assessment. Assessment of growth	Pediatrics Gastroenterology Nephrology Neurology	
4.	Skin, subcutaneous tissue, lymph nodes – physical exam, signs and symptoms. Assessment of nutrition	Pediatrics Gastroenterology Nephrology	

		Neurology	
5.	Chest examination – inspection, percussion, palpation, auscultation. Blood pressure measurement	Pediatrics Gastroenterology Nephrology Neurology	
6.	Signs and symptoms of respiratory tract disorders: cough, dyspnoe, stridor, physiologic and pathologic ausculatory changes	Pediatrics Gastroenterology Nephrology Neurology	
7.	Examination of abdomen: bowel sounds, percussion, palpation. Examination of genitalia	Pediatrics Gastroenterology Nephrology Neurology	
8.	Signs and symptoms of abdominal disorders: abdominal pain (acute abdomen), vomiting, diarrhea, constipations, ascites, hepatosplenomegaly	Pediatrics Gastroenterology Nephrology Neurology	
9.	Mascular strength and tone. Deep tendon reflexes. Meningeal signs in different ages. Cranial nerves examination. Assessment of psychomotor development	Pediatrics Gastroenterology Nephrology Neurology	
10.	Examination of the oral cavity and nose. Signs and symptoms of oral cavity disorders. Neck examination	Pediatrics Gastroenterology Nephrology Neurology	
11.	Examination of extremities and joints. Active and passive range of movements. Hips examination	Pediatrics Gastroenterology Nephrology Neurology	
12.	Summary – full physical exam. Case presentation by the student	Pediatrics Gastroenterology Nephrology Neurology	