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 2
Module code	
Language of training	English
Education effects for the training module	The aim of the module is: – familiarize students with issues related to infectious diseases, pulmonology, allergy and pediatric gastroenterology – teaching practical skills After completion of the course the student: In the frame of knowledge: – knows and understands the causes, symptoms, diagnosis and clinical management of the most common childhood diseases: • the most common infectious diseases of childhood, • acute and chronic diseases of the upper and lower respiratory tract, congenital malformation of respiratory, tuberculosis, cystic fibrosis, asthma, • allergic rhinitis, urticaria, anaphylactic shock, angioedema, • acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, non-specific intestinal diseases, • pancreatic diseases, cholestasis and liver diseases, other acquired diseases and congenital defects of the gastrointestinal tract, In the frame of skills: – is able to perform basic procedures and medical treatments, including: • measurement of body temperature and heart rate, non-invasive blood pressure measurement • monitoring of vital signs using a cardiomonitor, • pulse oximetry • spirometry, • oxygen therapy • introduction of oropharyngeal tube • collect nasal, throat and skin swabs • nasogastric intubation, gastric lavage, enema – assists in carrying out the following procedures and medical treatments: • pleural drainage/thoracocentesis • epidermal tests • intradermal and scarification tests, interprets results In the frame of social competence: – shows respect for the patient and his family – respect the patient's rights, including the protection of personal data, privacy – can operate in a group – demonstrate problem-solving skills
Type of training module (mandatory/facultative)	Mandatory
Year of study	3-6
Semester	6
Name of the person leading the module	Prof. Krzysztof Fyderek Grzegorz Lis, MD PhD Przemko Kwinta, MD PhD Course coordinator: Dr med. Piotr Kruczek
Name of the person examining or granting a credit if it is not the person conducting the module	Przemko Kwinta, MD PhD
Methods of performance	Lectures Working with a small group Presentations of cases, Teaching focused on problem, Clinical Exercise
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	Lectures – 8 hours Case presentations, teaching focused on problem - 8 hours Clinical Exercise - 34 hours
Number of ECTS credits allocated to the module	4
Balance of ECTS points	Participation in mandatory classes - 50 hours Preparation for classes - 20 hours

	Development of case and problem presentation - 16 hours Total 86 hours of student workload
Teaching methods applied	Lectures Presentation of clinical cases - working with a small group Clinical Exercise PBL classes
Methods for testing and evaluation criteria for learning outcomes achieved by students	Students will be evaluated based on participation and activity in classes, individual task preparation - presentation of case / medical problem. 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 presentation of case or medical problem 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: - systematic 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.
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	Completion of the module is subject to the following conditions: 1. attendance 2. active participation in classes 3. presentation of clinical case / medical problem
Training module content	Lectures Acute and chronic diseases of respiratory system – diagnostic and therapeutic rules. Physical examination, chest X-ray, CT, microbiologic tests, spirometry Respiratory failure – definition, causes, diagnostics, treatment Development of gastrointestinal tract and congenital defects Pneumonia – classification, clinical course, imagine techniques – USG, CT Case presentations, teaching focused on problem - 4 x 2 hours: 1. Evaluative and therapeutic steps in the course of asthma exacerbations 2. Evaluative and therapeutic steps in the course of croup syndrome 3. Jaundice in children 4. Chronic diarrhea Clinical Exercise - 17 x 2 hours: Acute and chronic upper respiratory tract infections. Laryngitis and epiglottitis Bronchitis, bronchiectasis, ciliary dyskinesia. The techniques of nebulization Urticaria and agnioedema. Asthma. Allergic tests Nosocomial pneumonia. Preventive measures. Community acquired pneumonia. Complications – empyema, abscess Artificial ventilation. Chronic assisted ventilation. Blood gases analysis. Spirometry and PEF Bronchiolitis. Prevention in high risk groups Congenital defects of respiratory tract and lungs – laryngo and trecheomalatia, lung hypoplasia, diaphragmatic hernia Cystic fibrosis, tuberculosis – diagnostic tests Chronic cough. Bronchoscopy Acute respiratory tract disorders Gastro-esophageal reflux. Hepatitis and pancreatitis Stomach ulcers, Helicobacter infections Functional disorders of GI tract. Non-specific inflammatory bowel disorders Urgent conditions in pediatric gastroenterology Food allergies. Special diets, nutritional treatment Additional test in pediatric gastroenterology, endoscopic examinations
Basic and supplementary bibliography to	Basic literature:

complete the module	1. A. J. Pomeranz et al. Pediatric decision making strategies. Elsevier 2. K. J. Marcdante. Nellson essential of pediatrics. 3. R. B Goldbloom. Pediatric clinical skills.
Principles and form of awarded for practice when the training program provides practice	n/a

3/6 part 2. Syllabus, 50 hours

Lectures – 8 hours

No	Topic	Department	Doctor
1.	Acute and chronic diseases of respiratory system – diagnostic and therapeutic rules. Physical examination, chest X-ray, CT, microbiologic tests, spirometry	Pediatrics	G. Lis
2.	Respiratory failure – definition, causes, diagnostics, treatment	Pediatrics	G. Lis
3.	Development of gastrointestinal tract and congenital defects	Gastroenterology	
4.	Pneumonia – classification, clinical course, imagine techniques – USG, CT	Pediatrics	P. Kruczek

Case presentations – 8 hours

No	Topic	Department	Doctor
1.	Diagnostic and therapeutic steps in asthma exacerbation	Pediatrics	G. Lis
2.	Stridor	Pediatrics	P. Kruczek
3.	Jaundice in neonate	Pediatrics	P. Kwinta
4.	Chronic diarrhea	Gastroenterology	

Practical exercises – 34 hours

No	Topic	Department	Doctor
1.	Acute and chronic upper respiratory tract infections. Laryngitis and epiglottitis	Pediatrics Gastroenterology	
2.	Bronchitis, bronchiectasis, ciliary dyskinesia. The techniques of nebulization	Pediatrics	
3.	Urticaria and agnioedema. Asthma. Allergic tests	Pediatrics Gastroenterology	
4.	Nosocomial pneumonia. Preventive measures. Community acquired pneumonia. Complications – empyema, abscess	Pediatrics	
5.	Artificial ventilation. Chronic assisted ventilation. Blood gases analysis. Spirometry and PEF	Pediatrics	
6.	Bronchiolitis. Prevention in high risk groups	Pediatrics	
7.	Congenital defects of respiratory tract and lungs – laryngo and trecheomalatia, lung hypoplasia, diaphragmatic hernia	Pediatrics Surgery	
8.	Cystic fibrosis, tuberculosis – diagnostic tests	Pediatrics	
9.	Chronic cough. Bronchoscopy	Pediatrics Surgery	
10.	Acute respiratory tract disorders	Pediatrics Gastroenterology	
11.	Gastro-esophageal reflux.	Pediatrics Gastroenterology	
12.	Hepatitis and pancreatitis	Gastroenterology	
13.	Stomach ulcers, Helicobacter infections	Gastroenterology	
14.	Functional disorders of GI tract. Non-specific inflammatory bowel disorders	Gastroenterology	
15.	Urgent conditions in pediatric gastroenterology	Gastroenterology Surgery	
16.	Food allergies. Special diets, nutritional treatment	Gastroenterology	
17.	Additional test in pediatric gastroenterology, endoscopic examinations	Gastroenterology	