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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Syllabus for academic year: 2021/2022**  **Training cycle: 2016/2017 – 2021/2022** | | | | | | | | | | | | | | | | | | | | | | | | |
| **Description of the course** | | | | | | | | | | | | | | | | | | | | | | | | |
| **Course** | | Paediatrics (3) | | | | | | | | | | | | | Group of detailed education results | | | | | | | | | |
| Group code  E | | | | Group name  non-interventional clinical sciences | | | | | |
| **Faculty** | | Faculty of Medicine | | | | | | | | | | | | | | | | | | | | | | |
| **Major** | | medicine | | | | | | | | | | | | | | | | | | | | | | |
| **Level of studies** | | X uniform magister studies  1st degree studies  2nd degree studies  3rd degree studies  postgraduate studies | | | | | | | | | | | | | | | | | | | | | | |
| **Form of studies** | | X full-time part-time | | | | | | | | | | | | | | | | | | | | | | |
| **Year of studies** | | VI | | | | | | | | | **Semester:** | | | | | | x winter  x summer | | | | | | | |
| **Type of course** | | x obligatory  limited choice  free choice / optional | | | | | | | | | | | | | | | | | | | | | | |
| **Language of study** | | Polish X English | | | | | | | | | | | | | | | | | | | | | | |
| **Number of hours** | | | | | | | | | | | | | | | | | | | | | | | | |
| Form of education | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | Lectures (L) | Seminars (SE) | | Auditorium classes (AC) | Major Classes – not clinical (MC) | | Clinical Classes (CC) | Laboratory Classes (LC) | | Classes in Simulated Conditions (CSC) | | Practical Classes with Patient (PCP) | | Foreign language Course (FLC) | | Physical Education (PE) | | | Vocational Practice (VP) | Directed Self-Study (DSS) | E-learning (EL) | |
| **Winter semester: 80** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1st Department of Paediatrics,  Allergology and Cardiology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education[[1]](#footnote-1) | | |  |  | | **2** |  | | **12** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning[[2]](#footnote-2) | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| 2nd Department of Paediatrics, Gastroenterology and Nutrition | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **2** |  | | **12** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Department of Paediatric Endocrinology and Diabetology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **2** |  | | **12** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Department of Paediatric Bone Marrow Transplantation, Oncology and Haematology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **2** |  | | **12** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Department of Paediatric Nephrology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **2** |  | | **12** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| **Summer semester: 40** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1st Department of Paediatrics,  Allergology and Cardiology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **2** |  | | **8** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| 2nd Department of Paediatrics, Gastroenterology and Nutrition | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **2** |  | | **8** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Department of Paediatric Endocrinology and Diabetology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **2** |  | | **8** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Department of Paediatric Bone Marrow Transplantation, Oncology and Haematology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **2** |  | | **8** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Department of Paediatric Nephrology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **2** |  | | **8** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| **TOTAL per year: 120** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1st Department of Paediatrics,  Allergology and Cardiology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **4** |  | | **20** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| 2nd Department of Paediatrics, Gastroenterology and Nutrition | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **4** |  | | **20** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Department of Paediatric Endocrinology and Diabetology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **4** |  | | **20** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Department of Paediatric Bone Marrow Transplantation, Oncology and Haematology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **4** |  | | **20** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Department of Paediatric Nephrology | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| Direct (contact) education | | |  |  | | **4** |  | | **20** |  | |  | |  | |  | |  | | |  |  |  | |
| Distance learning | | |  |  | |  |  | |  |  | |  | |  | |  | |  | | |  |  |  | |
| **Educational objectives** (max. 6 items)  C1. Practical skills to examine pediatric patients  C2. The differences in physiology and pathology in children. Physiology of pediatric growth  C3. Infant and children feeding in health and illnesses  C4. The common illnesses in pediatric age, neonates patophysiology  C5. Pediatric psychological disorders  C6.Development social competences needed to practice the medical profession, in accordance with graduate’s profile. | | | | | | | | | | | | | | | | | | | | | | | | |
| **Education result for course in relation to verification methods of the intended education result and the type of class:** | | | | | | | | | | | | | | | | | | | | | | | | |
| Number of detailed education result | Student who completes the course knows/is able to | | | | | | | | | | | | | Methods of verification of intended education results | | | | | | Form of didactic class  *\*enter the abbreviation* | | | | |
| **E.W1.** | the environmental and epidemiological determinants of the most common diseases | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.W3.** | the causes, symptoms, principles of diagnosis and therapeutic management of the diseases that are most frequent in children:  1.rickets, tetany, convulsions,   1. 2.heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathy, cardiac arrhythmias, heart failure, hypertension, vaso-vagal episodes, 2. 3.acute and chronic diseases of the upper and lower respiratory tract, congenital malformations of the respiratory system, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria, anaphylactic shock, angioedema, 3. 4.anaemias, haemorrhagic diathesis, bone marrow failure, childhood cancers, including solid tumours typical of childhood, 4. 5.acute and chronic abdominal pain, vomiting, diarrhoea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, pancreatic diseases, cholestasis and liver diseases and other acquired diseases and congenital defects of the gastrointestinal tract, 5. 6.urinary tract infections, congenital defects of the urinary tract, nephrotic syndrome, kidney stones, acute and chronic renal failure, acute and chronic nephritis, systemic kidney diseases, urinary disorders, vesicoureteral reflux disease, 6. 7.growth disorders, thyroid and parathyroid diseases, adrenal diseases, diabetes, obesity, puberty and gonadal function disorders,   8.cerebral palsy, encephalitis and  meningitis, epilepsy,   1. 9.the most common childhood infectious diseases, 2. 10.genetic syndromes, 3. 11.connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus, dermatomyositis; | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.W6.** | the most common life-threatening conditions in children and the management of these conditions | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.W37.** | the causes, symptoms, principles of diagnosis and therapeutic management of the most common hereditary diseases | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U2.** | carry out a medical interview with a child and its family | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U4.** | conduct a physical examination on a child of any age | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U6.** | conduct an orientation hearing and visual field examination as well as an otoscopic examination | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U7.** | assess the general condition, state of consciousness and awareness of the patient | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U11.** | conduct a balance study | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U12.** | perform differential diagnosis of the most common diseases of adults and children | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U13.** | assess and describe the somatic and psychological state of the patient | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U14.** | recognise immediate life-threatening conditions | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U16.** | plan diagnostic, therapeutic and preventive procedures | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U17.** | conduct an analysis of possible adverse reactions to and interactions between individual drugs | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U20.** | qualify the patient for home and hospital treatment | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U24.** | interpret laboratory test results and identify causes of deviations from the norm | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U28.** | collect and preserve material for tests used in laboratory diagnosis | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U29.** | perform basic medical procedures and treatments including:  1.measurement of body temperature (surface and deep), heart rate measurement, non-invasive blood pressure measurement,  2.monitoring of vital signs with a cardiomonitor, pulse oximetry,  3.spirometric examination, oxygen treatment, support and mechanical ventilation,  4.inserting an oropharyngeal tube,  5.intravenous, intramuscular and subcutaneous injections, peripheral venous cannulation, collection of peripheral venous blood, collection of blood for culture, collection of arterial blood, collection of arterialised capillary blood,  6.taking nasal, throat and skin swabs,  7.bladder catheterisation in women and men, gastric probing, gastric lavage, enema,  8.standard resting electrocardiogram with interpretation, electrical cardioversion and cardiac defibrillation,  9.simple strip tests and blood glucose measurement | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U32.** | plan specialist consultations | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **E.U38.** | maintain patient medical records | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **G.U6.** | prepare medical certificates for patients, their families and other parties | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **G.U7.** | recognise, when examining a child, behaviours and symptoms that indicate the possibility that violence against the child may have occurred | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| **G.U8.** | act in such a way as to avoid medical errors | | | | | | | | | | | | | Final exam | | | | | | AC, CC | | | | |
| \* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning | | | | | | | | | | | | | | | | | | | | | | | | |
| **Student's amount of work (balance of ECTS points):** | | | | | | | | | | | | | | | | | | | | | | | | |
| **Student's workload**  (class participation, activity, preparation, etc.) | | | | | | | | | | | | | | | **Student Workload** | | | | | | | | | |
| 1. Number of hours of direct contact: | | | | | | | | | | | | | | | 120 | | | | | | | | | |
| 2. Number of hours of distance learning: | | | | | | | | | | | | | | |  | | | | | | | | | |
| 3. Number of hours of student's own work: | | | | | | | | | | | | | | | 120 | | | | | | | | | |
| 4. Number of hours of directed self-study | | | | | | | | | | | | | | | n/a | | | | | | | | | |
| Total student's workload | | | | | | | | | | | | | | | 240 | | | | | | | | | |
| **ECTS points for course** | | | | | | | | | | | | | | | **8,0** | | | | | | | | | |
| **1st Department of Paediatrics, Allergology and Cardiology**  Classes are taught by the professor, assistant professors and assistants and PhD students. Classes are conducted within the outpatients clinic, ward and during the afternoon and evening duties and Department of Medical Simulation . If possible, include student self-care for one or more patients who in the course of the next duty proposes additional tests and modifies the applied treatment on the basis of observations, analyzes in detail the degree of regression or progression of symptoms, unaided series of simple diagnostic and therapeutic procedures. Significant emphasis during the course of counseling will be placed on expanding the ability of independent lessons learned and cooperation with the family doctor primary care. An important element of the exercise is to familiarize the participants with the current and with the existing state of the law obligating provider to certain forms and scope of health services.  **2nd Department of Paediatrics, Gastroenterology and Nutrition**  Classes are conducted within the outpatient clinic and during the afternoon and evening duties and at Department of Medical Simulation. Whenever possible, the student includes self-care of one or a few patients who in the course of the next duty proposes additional tests and modifies the applied treatment on the basis of our observations, analyzes in detail the degree of regression or progression of symptoms, unaided series of simple diagnostic and therapeutic procedures in the field of pediatrics and pediatric gastroenterology. Particular emphasis will be placed on the principle of rational nutrition of infants and children. Significant emphasis during the course of counseling will be placed on expanding the ability of independent lessons learned and cooperation with the family doctor primary care. An important element of the exercise is to familiarize the participants with the current and with the existing state of the law obligating provider to certain forms and scope of health services.    **Department of Paediatric Endocrinology and Diabetology**  Classes are taught by the professor, assistant professors and assistants and PhD student. Task is to familiarize students with endocrine disorders. Patients enrolled come from departments of the clinic as well as the outpatient Clinic and at Department of Medical Simulation. During the course we will discuss the symptoms of endocrine diseases, diagnosis and their treatment. Students become familiar with the documentation, they will plan the study and interpret them. Insulin pomps, pens, glucometers and Zostaną zaprezentowane osobiste pompy insulinowe, peny, glukometry and a continuous glucose monitoring system as well as a glucose scanning system will be presented. Each student will perform the measurement of level of glucose, weigh the baby, assess vital signs. Students will be implemented in the method of treatment of endocrine disorders During the duties will participate together with their doctor in all administrative procedures and medical devices. The student must obtain a history, examine the patient, assess the state of health and plan diagnostic tests and treatment. During the course we will focus on self-reliance in the field of diagnosis and treatment.  **Department of Paediatric Bone Marrow Transplantation, Oncology and Haematology**  Classes are conducted in the framework of the Consultative Clinic and within the branches of the evening duties and at Department of Medical Simulation by medical professors, lecturers and assistants from Clinic of Bone Marrow Transplantation, Oncology and Haematology. The primary objective of the course is to acquaint students with the most common problems of hematology and oncology concern in primary care and learning tp perform clinical examination which allows the pre-selection, diagnosis and differentiation of enlarged lymph nodes, changes in abdominal, symptoms of bleeding disorders, anemia and neurological symptoms. Students’ education will also include knowledge of the epidemiology of cancer and hematologic diseases in children including environmental hazards, discuss the symptoms and patterns of diagnostic and therapeutic onco-hematology, as well as adjunctive treatment and consequences of modern anticancer therapy. They will be presented with procedures for the exercise marrow puncture, lumbar puncture, and use of vascular catheters. Students will carry out a physical examination in patients, will be involved in the interpretation of imaging studies and laboratory (including the drafting and interpretation of smears of peripheral blood and bone marrow). An important element will be also to familiarize students with valid documentation and legal status.  **Department of Paediatric Nephrology**  Classes are taught by professors, lecturers and assistants of the Clinic of Pediatric Nephrology within the Specialist Clinic and within the branches during the evening duties and at Department of Medical Simulation . Whenever possible, the student takes care under the supervision of his doctor in care of patient, during the next duty proposes additional tests and modifies the applied treatment on the basis of our observations, analyzes in detail the degree of regression or progression of symptoms, conducts simple treatments diagnostic and therapeutic procedures. Significant emphasis during the course will be placed on expanding the ability of independent lessons learned and cooperation with the family doctor primary care. An important element of the exercise is to familiarize the participants with valid documentation and with the existing state of the law obligating provider to certain forms and scope of health services. | | | | | | | | | | | | | | | | | | | | | | | | |
| **Lectures**  n/a | | | | | | | | | | | | | | | | | | | | | | | | |
| **Auditorium classes**  **1st Department of Paediatrics, Allergology and Cardiology**  Current trends in the diagnosis of allergic diseases in children.  Current directions of treatment of allergic diseases in children.  Test summarizing knowledge  **2nd Department of Paediatrics, Gastroenterology and Nutrition**  Urrent diagnosis of gastrointestinal truck in children.  Standards of treatment of gastrointestinal diseases in children.  Knowledge summary test  **Department of Paediatric Endocrinology and Diabetology**  Standards of diagnosis and treatment of endocrine diseases in children. Analysis of clinical cases.  Endocrinology and pediatric diabetology test in questions and answers (knowledge summary test).  **Department of Paediatric Bone Marrow Transplantation, Oncology and Haematology**  Common mistakes in clinical practice in pediatric oncology and hematology. Analysis of clinical cases.  Comprehensive treatment in pediatric oncology and hematology. Children's oncology and hematology in questions and answers (knowledge summary test).  **Department of Paediatric Nephrology**  Disorders of urination in children  Diagnostic and therapeutic management in kidney diseases | | | | | | | | | | | | | | | | | | | | | | | | |
| **Clinical Classes**  **1st Department of Paediatrics, Allergology and Cardiology**  1 Keeping medical records in open health care. Presentations of clinical cases with active participation of students, discussion on diagnostic and therapeutic procedures.  2. Conducting specialist therapy in outpatient treatment, caring for a child with allergies in primary health care.  3. Acute and chronic urticaria. Symptomatology, pathogenesis, differential diagnosis, treatment.  4. Treatment of allergic diseases, principles of inhalation therapy, immunotherapy.  5. Allergic rhinitis. Differentiation between allergic and infectious rhinitis.  6. Diseases of the respiratory tract - respiratory tract infections - croup syndrome, acute shortness of breath.  7. Cystic fibrosis.  **2nd Department of Paediatrics, Gastroenterology and Nutrition**  1.Differential diagnosis of the most common gastrointestinal symptoms in children associated with the most frequent gastrointestinal diseases in pediatric population depending on the age of a child and taking into the account the appropriate diagnostic and therapeutic management  2.Clinical Presentations and discussions of particular clinical cases and their management based on the current evidence based diagnostic and therapeutic algorithms (active participation of students is strongly encouraged).  3.The most recent updates in pediatric gastroenterology useful in routine, daily based primary care practice  4. Discussing steps of adequate diagnostic and therapeutic management based on patients’ history, physical examination, evaluation of child development and analysis of symptoms/signs/findings/alarming findings.  5. Discussing Diagnostic-therapeutic algorithms of pediatric gastrointestinal diseases; indications for hospitalization.  6. Feeding disorders– the role of a physician in establishing a proper management.  **Department of Paediatric Endocrinology and Diabetology**  1. Diabetes – Contemporary therapy in type 1 diabetes – intensive insulin therapy with pen injectors and personal insulin pumps. Continuous glucose monitoring system. Newest therapeutical possibilitiest: Sensor augmented insulin pumps, closed loop.  Practical training include pump programming, CGM and FGM (FreeStyle Libre) results interpretation in computer programs. Education of children and parents for effective self-treatment: SMBG, insulin administration, diet (Carbohydrate exchanges, Fat content), Glucose Index, Glucose load. Preparing a diet for a patient. Rules of calculation insulin dose for CE and fat as well as correction doses. HbA1c – interpretation of a result.  2. Puberty Disorders – delayed and precausious puberty. Interpretation of clinical cases, history of patients, planning the tests and monitoring the treatment efficacy.  3. Short stature, gigantism – differentia diagnosis, causes of short stature, including familial short stature, idiopatic short stature. Genetical syndromes. Practical training – history of the patient, prognosis of final height, antrhropometrical measurements (with SD calculation), height velocity calculation and interpretation, diagnostic procedures – planning, interpretation of the results, calculation of rhGH dose for a patient. Interpreation of efficacy of the treatment for a patient: height velocity, lab test results, antropometrics and growth chart, monitoring of the treatment. GH tests and interpretation of the results, application of the treatment.  4. Obesity and Anorexia. Practical training – presentation of choosen cases. Zajęcia praktyczne – demonstracja własnych przypadków. Discussion on the principles of nutrition, and methods of body weight reduction. Presentation how to prepare meals with a reduced number of calories. Discussing the importance of GI and GL in the treatment of obesity. Testing body composition with bioimpedance method. Lab tests: planning, results and their interpretation. Setting the recommended physical activity for individual child and discussing its importance in the treatment of obesity.  Rating shortage of body weight. Determining a nutrition for a child with deficit of body weight and assessment the effectiveness of the recommendations. Lab tests – planning and interpretation of the results.  5. Thyroid gland diseases – discussing the screening methods, rules and interpretation of the results. Limitations of screening. Indications for performing thyroid function tests examination and interpretation of results. Presentation of cases - children with thyroid disease (congenital hypothyroidism, subclinical hypothyroidism, Hashimoto's thyroiditis, Graves' disease, cancer). Establishing doses and interpretation of control tests results.  6. Genetic syndromes in endocrinology. Discussion of endocrinological disorders ibn patients with Turner Syndrome, Prader Willy Syndrome, Down Syndrome and others. Diagnostic procedures and treatment options.    **Department of Paediatric Bone Marrow Transplantation, Oncology and Haematology**  1.Epidemiology of cancer and hematologic diseases  2.Principles of chemotherapy and supportive therapy in pediatric oncology.  3.Life-threatening conditions in pediatric oncology  4.Advances in pediatric oncology and hematology  5.Combination therapy of pediatric cancer  6.Palliative care  7.Late effect and algorithm of survivors care  8.Hematologic disorders in outpatient care – what to do.  **Department of Paediatric Nephrology**  1.Interpretation of basic laboratory tests results for urogenital disorders in children.  2.Children with congenital anomalies of kidney and urinary tract ( CAKUT) and children with suspicion/diagnosis of hypertension. Case presentations. Discussion on recommendations.  3.Diagnostic and therapeutic algorithm for urinary tract infections. Ambulatory treatment. Indication for hospitalization.  4.Discussion on recommendations for nocturnal enuresis and pediatric nephrotic syndrome. Presentation of clinical cases.  5.Ambulatory and hospital management of chronic kidney disease in children.  6. Diagnostic and therapeutic novelties in pediatric nephrology useful in everyday work of general practitioner (GP).  7. Presentations of selected cases with active participation of students – discussion and students’ suggestions on diagnostic and therapeutic management.  8. Differential diagnosis for selected symptoms related to urogenital system with consideration of child’s age (diagnostic algorithms for polyuria, haematuria, proteinuria). | | | | | | | | | | | | | | | | | | | | | | | | |
| **Other**  n/a | | | | | | | | | | | | | | | | | | | | | | | | |
| **Basic literature** (list according to importance, no more than 3 items)  Nelson Textbook of Pediatrics, 19th Edition  By Robert M. Kliegman, MD, Bonita M.D. Stanton, MD, Joseph St. Geme, Nina Schor and Richard E. Behrman, MD  **Additional literature and other materials** (no more than 3 items)  **Additional literature and other materials** (no more than 3 items)  1.  2.  3. | | | | | | | | | | | | | | | | | | | | | | | | |
| **Preliminary conditions:** (minimum requirements to be met by the student before starting the course)  ability to perform a physical examination, perform differential diagnosis and propose therapy. Knowledge of the rules of conduct in the conditions of the COVID-19 pandemic. | | | | | | | | | | | | | | | | | | | | | | | | |
| **Conditions to receive credit for the course:** (specify the form and conditions of receiving credit for classes included in the course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)  Completion of the course on the basis of attendance, test credit and medical history and physical examination at the end of the exercise | | | | | | | | | | | | | | | | | | | | | | | | |
| **Grade:** | | | | **Criteria for courses ending with a grade[[3]](#footnote-3)** | | | | | | | | | | | | | | | | | | | | |
| Very Good (5.0) | | | | Very good answers to the theoretical questions and positive resolve diagnostic and therapeutic problems | | | | | | | | | | | | | | | | | | | | |
| Good Above (4.5) | | | | Good answers to the theoretical questions and positive resolve diagnostic and therapeutic problems | | | | | | | | | | | | | | | | | | | | |
| Good (4.0) | | | | Good answers to the greater part of the questions and rewarding solving of the diagnostic problems | | | | | | | | | | | | | | | | | | | | |
| Satisfactory Plus (3.5) | | | | Week answers to the greater part of the questions and lack of the independent problems solving | | | | | | | | | | | | | | | | | | | | |
| Satisfactory (3.0) | | | | Lack of the correct answers to the greater part of the questions and significant troubles with diagnostic problems | | | | | | | | | | | | | | | | | | | | |
|  | | | | **Criteria for courses ending with a credit³** | | | | | | | | | | | | | | | | | | | | |
| Credit | | | |  | | | | | | | | | | | | | | | | | | | | |
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| **Final examination in paediatrics:**  The written / test / and oral part of the exam consisting in demonstrating knowledge on four issues covering the entire scope of the subject. To obtain a final pass, a very good, good, or sufficient answer to the randomly selected questions and a positive result of the practical part of the exam are required. | | | | | | | | | | | | | | | | | | | | | | | | |
| **Grade:** | | | | **Criteria for exam³** | | | | | | | | | | | | | | | | | | | | |
| Very Good (5.0) | | | | > 94% of positive answers on the test part, excellent answers to the theoretical questions randomly selected, and the positive outcome of the practical part of the exam | | | | | | | | | | | | | | | | | | | | |
| Good Above (4.5) | | | | 85- 94% of positive answers on the test part over good, answers to the questions randomly selected, and the positive outcome of the practical part of the exam | | | | | | | | | | | | | | | | | | | | |
| Good (4.0) | | | | 80-84% of positive answers on the test part good answers to the questions randomly selected, and the positive outcome of the practical part of the exam | | | | | | | | | | | | | | | | | | | | |
| Satisfactory Plus (3.5) | | | | 70-79% of positive answers on the test part, ufficiently good answers to the questions randomly selected, and the positive outcome of the practical part of the exam | | | | | | | | | | | | | | | | | | | | |
| Satisfactory (3.0) | | | | 60-69% of positive answers on the test part satisfactory answers to the questions randomly selected, and the positive outcome of the practical part of the exam | | | | | | | | | | | | | | | | | | | | |
|  | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Department in charge of the course:** | | | | | | 1st Department and Clinic of Paediatrics, Allergology and Cardiology | | | | | | | | | | | | | | | | | | |
| **Department address:** | | | | | | 50-368 Wrocław, Chałubińskiego 2a | | | | | | | | | | | | | | | | | | |
| **Telephone:** | | | | | | 71 7703091 | | | | | | | | | | | | | | | | | | |
| **E-Mail:** | | | | | | [andrzej.boznanski@umed.wroc.pl](mailto:andrzej.boznanski@umed.wroc.pl)  karolina.wojcik@umed.wroc.pl | | | | | | | | | | | | | | | | | | |
|  | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Person in charge for the course:** | | | | | Professor Andrzej Boznański PhD, MD | | | | | | | | | | | | | | | | | | | |
| **Telephone:** | | | | | 71 7703091 | | | | | | | | | | | | | | | | | | | |
| **E-Mail:** | | | | | [andrzej.boznanski@umed.wroc.pl](mailto:andrzej.boznanski@umed.wroc.pl) | | | | | | | | | | | | | | | | | | | |
| **List of persons conducting specific classes:** | | | | | | | | | | | | | | | | | | | | | | | | |
| Name and surname | | | Degree/scientific or professional title | | | | | Discipline | | | | | Performed profession | | | | | | | | Form of classes | | | |
| **1st Department of Paediatrics, Allergology and Cardiology** | | | | | | | | | | | | | | | | | | | | | | | | |
| Barbara Sozańska | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Anna Dębińska | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Hanna Danielewicz | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Wanda Balińska-Miśkiewicz | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| **Department of Paediatric Endocrinology and Diabetology** | | | | | | | | | | | | | | | | | | | | | | | | |
| Anna Noczyńska | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Aleksander Basiak | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Beata Wikiera | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Agnieszka Zubkiewicz-Kucharska | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Joanna Chrzanowska | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Julita Nocoń-Bohusz | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Monika Seifert | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| **Department of Paediatric Bone Marrow Transplantation, Oncology and Haematology** | | | | | | | | | | | | | | | | | | | | | | | | |
| Alicja Chybicka | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Bernarda Kazanowska | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Ewa Gorczyńska | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Krzysztof Kałwak | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Grażyna Wróbel | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Wojciech Pietras | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Marek Ussowicz | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Grzegorz Dobaczewski | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Jadwiga Węcławek -Tompol | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Elżbieta Latos - Grażyńska | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Joanna Owoc - Lempach | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Monika Mielcarek-Siedziuk | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Igor Olejnik | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Dorota Sęga-Pondel | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Małgorzata Salamonowicz-Bodzioch | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Katarzyna Gul | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Justyna Kwaśnicka | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Tomasz Jarmoliński | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Jowita Frączkiewicz | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Elżbieta Wawrzyniak-Dzierżek | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Michalina Horochowska | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Justyna Miśkiewicz-Bujna | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Izabela Miśkiewicz-Migoń | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Monika Rosa | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Agnieszka Kwella | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Dawid Przystupski | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Paweł Marschollek | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| **Department of Paediatric Nephrology** | | | | | | | | | | | | | | | | | | | | | | | | |
| Danuta Zwolińska | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Katarzyna Kiliś-Pstrusińska | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Irena Makulska | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Dorota Polak-Jonkisz | | | Professor, PhD, MD. | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Kinga Musiał | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Anna Medyńska | | | Professor, PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Irena Wikiera-Magott | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Anna Jakubowska | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Agnieszka-Pukajło-Marczyk | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Konstancja Fornalczyk | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Agnieszka Bargenda- Lange | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Katarzyna Prościak | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Monika Storek | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Anna Kawalec | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Marta Koruba | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Sylwia Gralec | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| **2nd Department of Paediatrics, Gastroenterology and Nutrition** | | | | | | | | | | | | | | | | | | | | | | | | |
| Andrzej Stawarski | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Krystyna Mowszet | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Tomasz Pytrus | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Elżbieta Krzesiek | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Anna Kofla - Dłubacz | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Agnieszka Borys-Iwanicka | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Katarzyna Akutko | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Tatiana Jamer | | | PhD, MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Joanna Braksator | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
| Paweł Maleika | | | MD | | | | | medical science | | | | | pediatrician | | | | | | | | Clinical classes | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | |  | |
| |  |  | | --- | --- | | **Date of Syllabus development**  25.06.2021 | **Syllabus developed by** | |  | Prof. dr hab. Andrzej Boznański  Dr hab. Barbara Sozańska, Prof. UMW  Mgr Karolina Wójcik | | **Signature of Head(s) of teaching unit(s)** | | | ……………………………………………………… | |   **Dean’s signature** | | | | | | | | | | | | | | | | | | | | | | | |
| ……………....………………………… | | | | | | | | | | | | | | | | | | | | | | | |
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1. Education conducted with direct participation of university teachers or other academics [↑](#footnote-ref-1)
2. Education with applied methods and techniques for distance learning [↑](#footnote-ref-2)
3. The verification must cover all education results, which are realize in all form of classes within the course [↑](#footnote-ref-3)