



Marrow Transplantation, Oncology and Hematology														
Department and Clinic of Paediatric Nephrology	4				9									
Summer Semester														
1st Department and Clinic of Paediatrics, Allergology and Cardiology	2				6									
2nd Department and Clinic of Paediatrics, Gastroenterology and Nutrition	6				9									
Department of Paediatric Bone Marrow Transplantation, Oncology and Hematology	2				9									
Department and Clinic of Paediatric Nephrology	4				6									
3rd Department and Clinic of Paediatrics, Immunology and Rheumatology of Developmental Age	2													
TOTAL per year:														
Winter semester	14				30									
Summer semester	16				30									
Educational objectives (max. 6 items)														
C1. Developing skills in physical examination of a child in the aspect of the diseases of the respiratory system, gastrointestinal tract, urinary system and hematopoietic system.														
C2. Presentation of morphologic and physiologic differences of particular body organs and systems in developmental age (respiratory system, gastrointestinal system, urinary system and hematopoietic system).														



C3. Presentation of the principles of rational nutrition of healthy and sick children.

C4. Formation in students of the skills of prophylactic actions in selected diseases of the gastrointestinal system, respiratory system, urinary system and hematopoietic system.

C5. Presentation to the students of diseases of respiratory system, gastrointestinal system, urinary system and hematopoietic system in developmental age.

C6. Presentation to the students of diseases of congenital malformation and genetically based diseases of respiratory system, gastrointestinal system, urinary system and hematopoietic system in developmental age.

Education result matrix for module/course in relation to verification methods of the intended education result and the type of class

Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>
W1	EW1	Is capable to describe and explain of genetical, environmental and epidemiological factors of the most common diseases	Oral response	L, CC
W2	EW2	Is capable to apply the rules of nutrition of healthy and sick children, immunization and health balance of a child.	Oral response	L, CC
W3	EW3	Is capable to list and understands the causes, symptoms, diagnostic rules and therapeutic procedures of the most common diseases in children: a) acute and chronic diseases of the upper and lower respiratory tracts, congenital malformations of the respiratory tract, tuberculosis, cystic fibrosis, allergic rhinitis, anaphylactic shock, urticaria, angioedema, b) anemia, hemorrhagic diseases, bone marrow insufficiencies, neoplastic diseases in developmental age including tumors typical for child's age, c) acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal tract bleeding, ulcerative disease, inflammatory bowel disease, cholestasis and liver diseases and acquired diseases and congenital malformation of the gastrointestinal tract, e) urinary tract infections, congenital urinary tract malformations, nephrotic syndrome, urolithiasis, acute and chronic renal insufficiency, acute and chronic nephritis, systemic kidney diseases, urination disturbances, vesicoureteral reflux disease,	Oral response	L, CC
W4	EW6	Is capable to diagnose and describe the most frequent life-threatening conditions in children and knows in practice algorithms of treatment of these conditions	Oral response	CC
U1	EU2	Is capable to gather medical interview with a	Oral response	CC



		child and its family.		
U2	EU4	Is capable to conduct physical examination of a child at every age.	Oral response	CC
U3	EU7	Is capable to assess general state, consciousness and awareness of a patient.	Oral response	CC
U4	EU9	Is capable to put anthropometric measurements and blood pressure into percentile charts.	Oral response	CC
U5	EU12	Is capable to plan and conduct differentia diagnosis of the most common diseases in children	Oral response	CC
U6	EU13	Is capable to assess and describe somatic and psychological state of the patient	Oral response	CC
U7	EU14	Is capable to recognize states od direct life-threatening	Oral response	CC
U8	EU16	Is capable to plan diagnostic, therapeutic and prophylactic process	Oral response	CC
U9	EU17	Is capable to interpret and analyze the possible adverse events of particular drugs and their interactions	Oral response	CC
U10	EU24	Is capable to interpret laboratory results, to identify the reasons of deviations and draw the conclusions from laboratory results	Oral response	CC
U11	EU25	Is capable to conduct feeding treatment (including enteral and parenteral feeding)	Oral response	CC
U12	EU28	Is capable to collect material used in laboratory diagnostics	Oral response	CC
U13	EU29	Is capable to perform basic medical procedures and interventions, including: a) taking of body temperature, taking of pulse rate, noninvasive blood pressure measurement, b) monitor of life parameters with cardio monitor and pulse-oximeter, c) spirometry examination, oxygen treatment, assisted and artificial respiration, d) intravenous, subcutaneous and intramuscular injections, peripheral veins cannulation, peripheral blood collection, blood culture collection, arterial blood collection, arterialized capillary blood collection, e) collection of nasal, throat and skin swabs, pleural cavity puncture, f) urinary vesicle catheterization, stomach catheterization, stomach lavage, enema, h) simple strip tests, blood glucose determination.	Oral response	CC
U14	EU30	Willingly and actively participates in the following medical procedures and interventions: a) blood and blood products transfusions, b) pleural cavity drainage, d) intradermic and scarification tests and interprets the results	Oral response	CC
U15	EU32	Creates and is capable to plan consultations with consultants	Oral response	CC

Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:

Knowledge:5

Skills:5

Student's amount of work (balance of ECTS points)

Student's workload

(class participation, activity, preparation, etc.)

Student Workload (h)



1. Contact hours:	90
2. Student's own work (self-study):	30
Total student's workload	120
ECTS points for module/course	3
Comments	
Content of the classes:	
<u>I Department and Clinic of Pediatrics, Allergology and Cardiology</u> Classes are conducted in clinical wards (bed-side exercises), Allergology Outpatient Consultation Clinic and Respiratory System Functional Examination Laboratory. Students acquire theoretical and practical knowledge on etiopathogenesis and symptomatology of respiratory system diseases in children. As far as possible students independently take care of one or several patients in whom they take medical history, plan differential diagnostics, propose additional tests and treatment. Additionally, students assist in diagnostic and therapeutic procedures. Particular attention is paid to the development of individual drawing of conclusions and cooperation with family and basic care physician.	
<u>II Department and Clinic of Pediatrics, Gastroenterology and Nutrition</u> Classes are conducted in clinical wards (bed-side exercises), Gastroenterology Outpatient Consultation Clinic, Endoscopy and Gastrointestinal System Functional Examination Laboratory. Students acquire theoretical and practical knowledge on etiopathogenesis and symptomatology of the gastrointestinal system diseases in children. As far as possible students independently take care of one or several patients in whom they take medical history, plan differential diagnostics, propose additional tests and treatment. Additionally, students assist in diagnostic and therapeutic procedures. Particular attention is paid to the development of individual drawing of conclusions and cooperation with family and basic care physician.	
<u>Department and Clinic of Bone Marrow Transplantation, Pediatric Oncology and Hematology</u> Classes are conducted in clinical wards (bed-side exercises). Students acquire theoretical and practical knowledge on etiopathogenesis and symptomatology of the hematopoietical system diseases in children. Under supervision of the teacher students independently take care of one or several patients in whom they take medical history, plan differential diagnostics, propose additional tests and treatment. Additionally, students assist in diagnostic and therapeutic procedures. Particular attention is paid to the development of individual drawing of conclusions and cooperation with family and basic care physician.	
<u>Department and Clinic of Pediatric Nephrology</u> Classes are conducted in the wards Clinic of Pediatric Nephrology and in Dialysis Station (bed-side exercises) and urodynamic laboratory. Students acquire theoretical and practical knowledge on etiopathogenesis and symptomatology of the urinary system diseases in children. As far as possible students independently take care of one or several patients in whom they take medical history, plan differential diagnostics, propose additional tests and treatment. Additionally, students assist in diagnostic and therapeutic procedures. Particular attention is paid to the development of individual drawing of conclusions and cooperation with family and basic care physician.	
Lectures	
<u>I Department and Clinic of Pediatrics, Allergology and Cardiology</u> 1. Acute and chronic inflammatory states of the respiratory system in children. 2. Life-threatening conditions in respiratory tract diseases in children.	
<u>II Department and Clinic of Pediatrics, Gastroenterology and Nutrition</u> 1. Inflammatory bowel disease. 2. Celiac disease and malabsorption syndrome. 3. Functional disorders of the gastrointestinal tract in children. 4. Selected diseases of the upper gastrointestinal tract in children. 5. Pathological jaundices in infantile period. Diseases of the pancreas in children. 6. Modern diagnostic and therapeutic procedures in children with the diseases of gastrointestinal tract.	
<u>Department and Clinic of Bone Marrow Transplantation, Pediatric Oncology and Hematology</u> 1. Anemias of children age. 2. Lymphadenopathy.	
<u>Department and Clinic of Pediatric Nephrology</u> 1. Glomerulonephritis. Nephrotic syndrome. 2. Congenital malformation of the urinary tract. 3. Acute kidneys injury. Hemolytic-uremic syndrome. 4. Chronic renal disease.	



III Department and Clinic of Propaedeutic of Pediatrics, Immunology and Rheumatology of Developmental Age

1. The most common diseases of connective tissue in children.

Seminars

1.

Practical Classes

I Department and Clinic of Pediatrics, Allergology and Cardiology

1. Basic terms in allergology. Allergic diseases as a social problem, epidemiology, basic mechanisms of allergic diseases (environmental and genetic). Prophylaxis of allergy.
2. Respiratory tract infections. Symptomatology in various ages of children. Bronchial asthma, definition, pathophysiology, symptomatology, diagnostics (functional examinations of the respiratory system) treatment.
3. Skin disorders in allergology. Atopic dermatitis.
4. Hives. Symptomatology, pathogenesis, differential diagnostics, treatment.
5. Allergic rhinitis. Differential diagnosis of allergic and infectious rhinitis.

II Department and Clinic of Pediatrics, Gastroenterology and Nutrition

1. Functional disorders of the gastrointestinal tract in infants and older children. Chronic abdominal pain in children, current diagnostic methods.
2. Acute diarrhea. Basics of correction of water-electrolyte balance and acid-base balance disturbances.
3. Pathological jaundices in infants and older children, Malformations of the biliary tracts. Cholelithiasis. Pancreatitis in children
4. Celiac disease and its manifestation in developmental age. Chronic diarrhea in children. Food intolerance and food allergy – diagnostics, differential diagnostics. Disturbances of digestion and intestinal absorption. Cystic fibrosis – manifestations in children.
5. Hemorrhage from the gastrointestinal tract. Inflammatory bowel disease.

Department and Clinic of Bone Marrow Transplantation, Pediatric Oncology and Hematology

1. Assessment of peripheral blood morphology in different age groups. Anemias of children age – symptoms, diagnostics, differential diagnostics, treatment. Thrombocytes count and functions disturbances. Granulocytes count and functions disturbances.
2. Lymphadenopathy. Hepatosplenomegaly.
3. Child age leukemia – symptoms, diagnostics, differential diagnostics, treatment. Child age lymphomas – symptoms, diagnostics, differential diagnostics, treatment.
4. Blood coagulation disturbances. (hemophilia, von Willebrand disease, thrombophilia, DIC).
5. Introduction to hematopoietic cells transplantations.

Department and Clinic of Pediatric Nephrology

1. Urinary tract infections: diagnostics, clinical symptoms, treatment. Functional disorders of the ureter and urinary bladder. Nocturnal enuresis. Developmental disorders of the urinary tract and their consequences, diagnosis treatment. Nephrolithiasis – etiology, diagnostic and therapeutic algorithms, risk assessment.
2. Acute glomerulonephritis: etiology, clinical course, treatment.
3. Chronic glomerulonephritis, pathomorphology, etiology, clinical course, treatment, Idiopathic nephrotic syndrome – etiopathogenesis, morphologic variants, clinical picture, recommended treatment methods of first relapse and in recurrent relapses. Arterial hypertension; etiology, diagnosis, diagnostic procedures, nonpharmacological treatment, pharmacological therapy.
4. Acute renal damage: causes, clinical variants, diagnosis, clinical picture, diagnosis, treatment indication for dialysis, Hemolytic - uremic syndrome, etiopathogenesis, diagnostics, clinical course, treatment.
5. Chronic kidneys disease, causes, pathogenesis, clinical picture, diagnostic and treatment before dialysis, disease monitoring, preparation for renal transplantation.

Other

Basic literature (list according to importance, no more than 3 items)

1. Red Book 2018-2021. Committee on Infectious Diseases; American Academy of Pediatrics; David Kimberlin, MD, FAAP, Michael T. Brady, MD, FAAP and Mary Ann Jackson, MD, FAAP
2. Nelson. Textbook of Pediatrics. 20 edition. Robert M. Kliegman, Bonita F. Stanton, Joseph W. St. Game, Nina F. Schor, Canada, Elsevier, 2016

Additional literature and other materials (no more than 3 items)

- 1.
- 2.



Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

1. Positive result of the short test (5 questions from the topic of actual classes and/or basics of the physical examination, student must obtain minimum 3 correct answers).
2. Proper outfit and shoes, stethoscope, flashlight for throat examination.
3. Skills in physical examination, differential diagnostics and proposed therapy.

Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included in the module/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)

1. To obtain a credit for the course, it is mandatory to have positive final test result at each of four pediatric departments participating in didactic process. Final test consists of 10 questions
 - 10 correct answers - very good
 - 9 correct answers - good plus
 - 8 correct answers - good
 - 7 correct answers - satisfactory plus
 - 6 correct answers - satisfactory
 - 5 and less correct answers – unsatisfactory

* the teacher conducting the classes or didactic tutor may rise the grade up (half of the grade) taking into consideration the partial tests results and student's involvement into the classes.

2. Attendance at all classes is required to receive final credit (in case of absence or negative result of introductory test, student is obliged to make up additional classes confirmed by the teacher's signature).
3. It is mandatory to make up for all absences including rector/s days and dean's hours (it is accepted to prepare topic presentation or written essay).

Grade:	Criteria (only for courses/modules ending with an examination)
Very Good (5.0)	Very good answers to the theoretical questions and positive resolve diagnostic and therapeutic problems.
Good Plus (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 theoretical questions and rewarding solving 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.

Name and address of module/course teaching unit, contact: telephone and e-mail address



II Department and Clinic of Pediatrics, Gastroenterology and Nutrition
M. Curie-Skłodowska str. 50/52
50-369 Wrocław
tel. 71 - 770 30 45
e-mail: andrzej.stawarski@umed.wroc.pl

Coordinator / Person responsible for module/course, contact: telephone and e-mail address

dr n. med. Andrzej Stawarski

e-mail: andrzej.stawarski@umed.wroc.pl

List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.

L.p.	Imię i nazwisko	Tytuł/stopień naukowy	dziedzina naukowa	Wykonywany zawód	Forma prowadzonych zajęć
1	Andrzej Boznański	prof. dr hab. n. med.	medycyna	lekarz pediatra, alergolog	wykłady, ćwiczenia
2	Ewa Willak-Janc	dr n. med.	medycyna	lekarz pediatra, alergolog	ćwiczenia
3	Anna Dębińska	dr n. med.	medycyna	lekarz pediatra	ćwiczenia
4	Hanna Danielewicz	dr n. med.	medycyna	lekarz pediatra, alergolog	ćwiczenia
5	Barbara Sozańska	dr hab. n. med.	medycyna	lekarz pediatra, alergolog	wykłady, ćwiczenia
6	Anna Łątkowska	dr n. med.	medycyna	lekarz pediatra, alergolog	ćwiczenia
7	Wanda Balińska-Miśkiewicz	dr n. med.	medycyna	lekarz pediatra, alergolog	ćwiczenia
8	Joanna Połomska	lek. med.	medycyna	lekarz	ćwiczenia
9	Kamil Bar	lek. med.	medycyna	lekarz	ćwiczenia
10	Hanna Sikorska-Szaflik	dr n. med.	medycyna	lekarz	ćwiczenia
11	Anna Maron	lek. med.	medycyna	lekarz pediatra	ćwiczenia
12	Kot Agnieszka	lek. med.	medycyna	lekarz	ćwiczenia
13	Jarosiewicz Anna	lek. med.	medycyna	lekarz	ćwiczenia
14	Andrzej Stawarski	dr n. med.	medycyna	lekarz pediatra, gastroenterolog	ćwiczenia, wykłady
15	Krystyna Mowszet	dr n. med.	medycyna	lekarz pediatra, gastroenterolog	ćwiczenia
16	Tomasz Pytrus	dr n. med.	medycyna	lekarz pediatra,	ćwiczenia, wykłady



				gastroenterolog	
17	Elżbieta Krzesiek	dr n. med.	medycyna	lekarz pediatra, gastroenterolog	ćwiczenia
18	Anna Kofla - Dłubacz	dr n. med.	medycyna	lekarz pediatra	ćwiczenia
19	Agnieszka Borys-Iwanicka	dr n. med.	medycyna	lekarz pediatra, gastroenterolog dziecięcy	ćwiczenia
20	Katarzyna Akutko	lek. med.	medycyna	lekarz pediatra	ćwiczenia
21	Tatiana Jamer	lek. med.	medycyna	lekarz pediatra, medycyna rodzinna	ćwiczenia
22	Paweł Maleika	lek. med.	medycyna	lekarz	ćwiczenia
23	Anna Dancewicz	lek. med.	medycyna	lekarz	ćwiczenia
24	Joanna Braksator	lek. med.	medycyna	lekarz	ćwiczenia
25	Paula Grębska	lek. med.	medycyna	lekarz	ćwiczenia
26	Natalia Olszak	lek. med.	medycyna	lekarz	ćwiczenia
27	Karolina Michalska	lek. med.	medycyna	lekarz	ćwiczenia
28	Alicja Chybicka	prof. dr hab. n. med.	medycyna	lekarz pediatra, hematoonkolog dziecięcy	ćwiczenia, wykłady
29	Bernarda Kazanowska	dr hab. n. med.	medycyna	lekarz pediatra, hematoonkolog dziecięcy	ćwiczenia, wykłady
30	Ewa Gorczyńska	dr hab. n. med.	medycyna	lekarz pediatra, hematoonkolog dziecięcy	ćwiczenia
31	Krzysztof Kałwak	prof. dr hab. n. med	medycyna	lekarz pediatra, hematoonkolog dziecięcy	ćwiczenia
32	Grażyna Wróbel	dr hab. n. med.	medycyna	lekarz pediatra, hematoonkolog dziecięcy	ćwiczenia
33	Wojciech Pietras	dr n. med.	medycyna	lekarz pediatra, hematoonkolog dziecięcy	ćwiczenia
34	Marek Ussowicz	dr hab. n. med.	medycyna	lekarz pediatra, hematoonkolog dziecięcy	ćwiczenia
35	Jadwiga Wętfawek -Tompol	dr n. med.	medycyna	lekarz pediatra, hematoonkolog dziecięcy	ćwiczenia
36	Elżbieta Latos - Grażyńska	dr n. med.	medycyna	lekarz pediatra, hematoonkolog dziecięcy	ćwiczenia
37	Joanna Owoc - Lempach	dr n. med.	medycyna	lekarz pediatra, hematoonkolog dziecięcy	ćwiczenia



38	Monika Mielcarek	dr n. med.	medycyna	lekarz pediatra	ćwiczenia
39	Dorota Sęga-Pondel	dr n. med.	medycyna	lekarz pediatra	ćwiczenia
40	Małgorzata Salamonowicz	dr n. med.	medycyna	lekarz pediatra	ćwiczenia
41	Justyna Kwaśnicka	lek. med.	medycyna	lekarz pediatra	ćwiczenia
42	Jowita Frączkiewicz	lek. med.	medycyna	lekarz	ćwiczenia
43	Anna Rodziewicz	lek. med.	medycyna	lekarz	ćwiczenia
44	Dorota Sokalla	lek. med.	medycyna	lekarz	ćwiczenia
45	Mateusz Stachowiak	lek. med.	medycyna	lekarz	ćwiczenia
46	Małgorzata Janeczko	lek. med.	medycyna	lekarz	ćwiczenia
47	Katarzyna Sierżęga	lek. med.	medycyna	lekarz	ćwiczenia
48	Agnieszka Pomykała	lek. med.	medycyna	lekarz	ćwiczenia
49	Zofia Lutrowicz	lek. med.	medycyna	lekarz	ćwiczenia
50	Danuta Zwolińska	prof. dr hab. n. med.	medycyna	lekarz pediatra, nefrolog, nefrolog dziecięcy	Wykłady, ćwiczenia
51	Katarzyna Kiliś-Pstrusińska	prof. dr hab. n. med.	medycyna	lekarz pediatra, nefrolog, nefrolog dziecięcy	ćwiczenia
52	Irena Makulska	prof. dr hab. n. med.	medycyna	lekarz pediatra, nefrolog, nefrolog dziecięcy	ćwiczenia
53	Dorota Polak-Jonkisz	prof. dr hab. n. med.	medycyna	lekarz pediatra, nefrolog, nefrolog dziecięcy	ćwiczenia
54	Kinga Musiał	dr hab. n. med.	medycyna	lekarz pediatra, nefrolog, nefrolog dziecięcy	ćwiczenia
55	Anna Medyńska	dr n. med.	medycyna	lekarz pediatra, nefrolog, nefrolog dziecięcy	ćwiczenia
56	Irena Wikiera-Magott	dr n. med.	medycyna	lekarz pediatra, nefrolog, nefrolog dziecięcy	ćwiczenia
57	Renata Bednorz	dr n. med.	medycyna	lekarz pediatra, nefrolog, nefrolog dziecięcy	ćwiczenia
58	Anna Jakubowska	dr n. med.	medycyna	lekarz pediatra, nefrolog dziecięcy	ćwiczenia



59	Agnieszka Pukajto-Marczyk	dr n. med.	medycyna	lekarz pediatra, nefrolog dziecięcy	ćwiczenia
60	Konstancja Fornalczyk	lek. med.	medycyna	lekarz pediatra, nefrolog, nefrolog dziecięcy	ćwiczenia
61	Agnieszka Bargenda-Lange	dr n. med.	medycyna	lekarz pediatra	ćwiczenia
62	Karolina Nocuń-Wasilewska	lek. med.	medycyna	lekarz	ćwiczenia
63	Katarzyna Prościak	lek. med.	medycyna	lekarz	ćwiczenia
64	Monika Storek	dr n. med.	medycyna	lekarz pediatra reumatolog	ćwiczenia
65	Daiva Gorczyca	dr n. med.	medycyna	lekarz pediatra reumatolog	wykłady

Date of Syllabus development

10.07.2019

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Uniwersytet Medyczny
im. Piastów Śląskich we Wrocławiu
II KATEDRA I KLINIKA PEDIATRII
GASTROENTEROLOGII I ŻYWIENIA
Andrzej Stawarski
p.o. kierownika
dr n. med. Andrzej Stawarski

Syllabus developed by

dr n.med. Andrzej Stawarski

Signature of Head of teaching unit

I Katedra i Klinika Pediatrii, Alergologii i Kardiologii.....

II Katedra i Klinika Pediatrii, Gastroenterologii i Żywienia

Katedra i Klinika Transplantacji Szpiku, onkologii i Hematologii Dziecięcej

Katedra i Klinika Nefrologii Pediatrycznej

Uniwersytet Medyczny
im. Piastów Śląskich we Wrocławiu
II KATEDRA I KLINIKA PEDIATRII
GASTROENTEROLOGII I ŻYWIENIA
Andrzej Stawarski
p.o. kierownika
dr n. med. Andrzej Stawarski

Signature of Faculty Dean

Wrocław Medical University
FACULTY OF MEDICINE
DEAN

M. Sobieszka

Prof. Małgorzata Sobieszkańska, MD, PhD

