

Syllabus for academic year: 2020/2021												
Training cycle: Pediatrics												
Description of the course												
Module/Course			Pe	diatri	cs (2)			Group of detailed education results Group code Group name E Clinical				
Faculty:	Medi	icine,	Engli	sh Di	vision	<u> </u>				nonsui	gical	
Major:	medi	icine										
Specialties	N/A											
Level of studies	10	ree 🗆 ree 🗆 gree 🗅]	r studi	es X*							
Form of studies	X full-	-time	Хр	art-tin	ne							
Year of studies	V Semester x Winter (9) x Summer (10)											
Type of course	X obli □ limi □ free	ited c	hoice	ective				=======================================				
Course	□ ma	jor X l	oasic									
_anguage of instruction ☐ Polish X English ☐ other						- -						
* mark 🗆 with an X						_						
			Νι	ımber	of ho	ırs						
			For	m of e	educat	ion						
Unit teaching the course (1)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Specialist Classes – magister studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
Winter Semester												
l Katedra i Klinika Pediatrii, Alergologii i Kardiologii												

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Direct (contact) education			3				2.5	
Online learning (synchronous)	4		up to 3					
Distance learning (asynchronous)			up to 3					
Katedra i Klinika Endokrynologii i Diabetologii Wieku Rozwojowego								
Direct (contact) education			3				2.5	
Online learning (synchronous)	4		up to 3					
Distance learning (asynchronous)			up to 3					
Katedra i Klinika Transplantacji Szpiku, Onkologii i Hematologii Dziecięcej								
Direct (contact) education			up to 6				2.5	
Online learning (synchronous)	4		up to 6	E .				
Distance learning (asynchronous)			up to 6					
Summer Semester		!	1					
l Katedra i Klinika Pediatrii, Alergologii i Kardiologii								
Direct (contact) education			3					
Online learning (synchronous)	4		up to 3				3	
Distance learning (asynchronous)			up to 3					
Katedra i Klinika Endokrynologii i Diabetologii Wieku Rozwojowego								
Direct (contact) education	4		3				3	
Online learning (synchronous)			up to 3	8				
Distance learning (asynchronous)			up to 3					



Katedra i Klinika				
Transplantacji Szpiku,				
Onkologii i Hematologii		li li li		
Dziecięcej				
Dziecięcej				
Direct (contact) education		up to 6		
				4
Online learning	4	up to 6		1 1
(synchronous)	1 1 1			
, , , , , , , , , , , , , , , , , , , ,			1 1	
Distance learning		lun to c		
		up to 6		
(asynchronous)				
TOTAL per year:				
TO TAL per year.				
l Katedra i Klinika Pediatrii,				
Alergologii i Kardiologii				
Alergologii i kardiologii				
Diagram ()				
Direct (contact) education		6		
				5.5
Online learning	8	up to 6		3.5
(synchronous)				1 11 1
Distance learning		up to 6		
(asynchronous)		July 10 0		
Katedra i Klinika				
Endokrynologii i				
Diabetologii Wieku				
Rozwojowego				
Direct (contact) education		6		
				5.5
Online learning	8	up to 6		
(synchronous)	"	up to o		
(synemonous)				
D: .				
Distance learning		up to 6		
(asynchronous)				
Katedra i Klinika				
Transplantacji Szpiku,				
Onkologii i Hematologii				
Dziecięcej				
Direct (contact) education				
Direct (contact) education		up to		
	_	12		6.5
Online learning	8	up to		
	1 1	12		
(synchronous)			I I	1 1 1
(synchronous)				
		up to		
(synchronous) Distance learning (asynchronous)		up to		

Educational objectives (max. 6 items)

- C1. To familiarize the student with the diagnosis of life-threatening conditions and diagnostic and therapeutic activities.
- C2. Developing students' subjective and objective examination skills in the aspect of cardiovascular disease, endocrine system and cancer.
- C3. Acquiring the ability to plan diagnostic procedures, interpret its results and plan therapeutic procedures.
- C4. To familiarize students with morphological and physiological differences of particular organs and systems in developmental age.

Education result matrix for module/course in relation to verification methods of the intended education result and the type of class Form of didactic Student who completes the Methods of verification of Number of course Number of major class module/course knows/is able to intended education results education result education result **enter the (forming and summarising) abbreviation W01 Knows, describes, defines and explains the Oral, written exam L, CC E.W1. environmental and epidemiological conditions of the most common diseases. W02 E.W2. Knows, describes, defines and explains the Oral, written exam L, CC principles of nutrition for healthy and sick children, protective vaccinations and health W03 Knows, describes, defines, explains and L, CC E.W3. oral written exam understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of children: a) rickets, tetany, convulsions, b) heart defects, myocarditis, endocarditis, cardiomyopathy, arrhythmias, heart failure, hypertension, syncope, c) 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, angioedema edema, d) anemia, haemorrhagic diathesis, bone marrow failure, childhood cancers, including solid tumors typical of childhood; e) acute and chronic abdominal pain, vomiting, diarrhea, constipation, gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel disease, pancreatic disease, cholestasis and liver diseases, and other acquired and congenital gastrointestinal disorders, f) urinary tract infections, congenital malformations, nephrotic syndrome, nephrolithiasis, acute and chronic renal failure, acute and chronic kidney disease, renal system diseases, urinary disorders, vesicoureteral reflux disease, g) growth disorders, thyroid and parathyroid diseases, adrenal diseases, diabetes, obesity, puberty disorders and gonadal function, h) cerebral palsy, inflammation of the brain and meningitis, epilepsy, i) the most common infectious diseases of childhood, j) genetic syndromes, k) connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus, dermatomyositis. Knows, describes, defines and explains issues W04 E.W4. Oral, written exam L, CC of: battered child and sexual abuse, mental retardation, behavioral disorders: psychoses, addictions, eating disorders and excretion in children. W05 Knows, describes, defines and explains the E.W6. Oral, written exam L, CC most frequently occurring life threatening conditions in children and the rules of management in these states. U01 E.U2. Can conduct a medical interview with the child Practical/oral/written exam CC and his family.

U02	E.U4.	Can carry out physical examination of a child of all ages.	Practical/oral/written exam	cc
U03	E.U12.	Is able to plan and carry out differential diagnostics of the most common diseases of children.	Practical/oral/written exam	cc
J04	E.U14.	Can recognize the states of immediate life threat.	Practical/oral/written exam	СС
J05	E.U16.	Can plan the diagnostic, therapeutic and prophylactic procedures.	Practical/oral/written exam	СС
J06	E.U24.	Is able to interpret laboratory tests and identify causes of deviations.	Practical/oral/written exam	СС
J07	E.U29.	Is able to perform basic procedures and medical procedures, including: a) body temperature measurement, heart rate measurement, non-invasive blood pressure measurement, b) monitoring of vital signs using a cardiomonitor, pulse oximetry, c) spirometry test, oxygen treatment, assisted and replacement ventilation, d) introduction of the oropharyngeal tube, e) intravenous, intramuscular and subcutaneous injections, peripheral vein cannulation, peripheral venous blood collection, blood cultures collection, arterial blood sampling, arterialized capillary blood collection, f) collecting swabs from the nose, throat and skin, puncture of the pleural cavity, g) catheterization of the bladder in men and women, probing the stomach, gastric lavage, enema, h) a standard resting electrocardiogram with interpretation, electrical cardioversion and heart defibrillation, i) simple test strips and blood glucose measurement.	Practical/oral/written exam	СС
80L	E.U30.	Can assist in the following procedures and medical procedures: a) transfusion of blood and blood products, b) drainage of the pleural cavity, c) puncture of the pericardial sac, d) puncturing the peritoneal cavity, e) lumbar puncture, f) thin-needle biopsy, g) epidermal tests, h) intradermal and scarification tests and interprets their results.	Practical/oral/written exam	СС
(01		Can establish and maintain a deep and respectful contact with the patient.	Practical/oral/ exam	СС
(02		Is guided by the good of the patient, placing them in the first place.	Practical/oral/ exam	СС
(03		Respects medical confidentiality and patient's rights.	Practical/oral/ exam	СС
(04		Is aware of one's limitations and the ability to constantly learn.	Practical/oral/ exam	СС

^{**} L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning . **** In case of



an epidemic threat, credits can take an on-line form.

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

Social competences: 5

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

Student Workload (h)
59
17,5
76,5
3

Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Katedra i Klinika Transplantacji Szpiku, Onkologii i Hematologii Dziecięcej:

Classes are conducted within the Clinic Departments. Students acquire theoretical and practical knowledge in the field of etiopathogenesis and symptomatology of cancer in children. Under the supervision of the lecturer, the student covers the care of one or several patients who are interviewed by the student, plans differential diagnosis, offers additional tests and treatment. In addition, it assists in performing diagnostic and therapeutic procedures. Particular emphasis during the classes is on the development of the ability to independently draw conclusions, oncology alertness and cooperation with a family doctor.

Katedra i Klinika Endokrynologii i Diabetologii Wieku Rozwojowego:

Classes are conducted within the Department of Pediatric Endocrinology, at the Outpatient Clinic and diagnostic laboratories, where students acquire knowledge and acquire practical skills in the field of:

- 1. Contemporary methods of therapy of type 1 diabetes insulin therapy standards multiple daily injections and continuous subcutaneous insulin infusion. Glucose monitoring with CGM systems. Practical training: pump use, CGMS interpretation etc. Acute diabetes complications: hypoglycemia and diabetic ketoacidosis diagnosis, treatment.
- 2. Puberty disorders precocious and delayed puberty. Clinical cases presentation and interpretation. Planning of diagnostic procedures and therapy. Goals of therapy.
- 3. Short stature and gigantism differentia diagnosis, causes: idiopathic short stature, familial short stature, GHD. Practical training planning of diagnostic procedures and therapy, treatment options. Goals of therapy, monitoring of the treatment.
- 4. Obesity and anorexia. Practical training case studies. Nutrition principles, weight reduction in obesity, nutrition in anorexia,

I Katedra i Klinika Pediatrii, Alergologii i Kardiologii:

Classes are conducted within the Department of Pediatric Cardiology. Students acquire theoretical and practical knowledge in the field of symptomatology of congenital heart defects, etiopathogenesis of cardiovascular disease (inflammation in the heart, hypertension, arrhythmias). Practical classes take place in the Department, at the Outpatient Clinic and diagnostic laboratories, where students acquire practical skills (ECG score, chest X-ray), get acquainted with diagnostic tests performed in the Clinic (heart ultrasound, stress test, tilt test)

Lectures (L)

Winter semester

Katedra i Klinika Transplantacji Szpiku, Onkologii i Hematologii Dziecięcej:

- 1. Life-threatening conditions in pediatric oncology (2h).
- 2. Infectious complications in cancer patients (2h).

Katedra i Klinika Endokrynologii i Diabetologii Wieku Rozwojowego:

- 1. Advances in treatment of type 1 diabetes. Acute complications of diabetes. Prognosis (2h).
- 2. Contemporary diagnostic and treatment of growth and puberty disorders in children and adolescents (2h).

I Katedra i Klinika Pediatrii, Alergologii i Kardiologii:

- 1. New methods in pediatric cardiology part 1: interventional treatment CHD (2h).
- 2. New methods In pediatric cardiology part 2 : surgical treatment CHD (2h).

Lectures (L)

Summer semester

Katedra i Klinika Transplantacji Szpiku, Onkologii i Hematologii Dziecięcej:

- 1. Therpaeutic apheresis (2h).
- 2. Targeted cancer therapies (2h).

Katedra i Klinika Endokrynologii i Diabetologii Wieku Rozwojowego:

- 1. Type 2 diabetes and other types of diabetes in children. Diagnosis, treatment, prognosis (2h).
- 2. Disorders of calcium metabolism In children (2h).

I Katedra i Klinika Pediatrii, Alergologii i Kardiologii:

- 1. Cardiomiopathies in children (2h).
- 2. Heart failure In children (2h).

Clinical classes (CC)

Winter semester

Katedra i Klinika Transplantacji Szpiku, Onkologii i Hematologii Dziecięcej:

- 1. CNS tumors (3h).
- 2. Solid tumors. Bone tumors (2h).

Katedra i Klinika Endokrynologii i Diabetologii Wieku Rozwojowego:

- 1. Diabetes etiology, diagnosis and treatment (3h).
- 2. Thyroid disorders etiology, diagnosis, treatment (2h).

Katedra i Klinika Pediatrii, Alergologii i Kardiologii:

- 1. CHD with L-to-R shunt (3h).
- 2. Combined cyanotic CHD (2h).

Clinical classes (CC)

Summer semester

Katedra i Klinika Transplantacji Szpiku, Onkologii i Hematologii Dziecięcej:

- 1. Combination cancer therapy (4h).
- 2. Late effects of cancer treatment (3h).

Katedra i Klinika Endokrynologii i Diabetologii Wieku Rozwojowego:

- 1. Adrenal glands diseases congenital adrenal hyperplasia, etiology, diagnosis, treatment. Other causes of adrenal insufficiency, adrenal crisis (4h).
- 2. Short stature. Puberty disorders. Obesity. PCOs (3h).

I Katedra i Klinika Pediatrii, Alergologii i Kardiologii:

- 1. Arrhythmias in children (3h).
- 2. Hypertension in children (3h).

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

Illustrated Textbook of Paediatrics, 5th Edition, Editors: Tom Lissauer Will Carroll, Paperback ISBN: 9780723438717, Paperback ISBN: 9780723438724, eBook ISBN: 9780723438748, eBook ISBN: 9780723438731, Imprint: Elsevier, Published Date: 7th March 2017,

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

- 1 W.E. Nelson: Textbook of Pediatrics, the latest edition
- 2 R.E. Behrnman, R.M. Kliegman: Nelson Essentials of Pediatrics, the latest edition

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

laboratory, seminar room, overhead projector, computer, light microscope, ECG, ultrasound

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

valid student card, proper dress and footwear, stethoscope, throat examination flashlight, basic physical examination skills, medical history collection, in case of pandemic – masks, gloves, visor,

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 med by the student to pass it and criteria for specific grades)

- Active participation in classes (excused 1 absence per year)
- Obtaining credit of the test finishing the practical exercises (oral or written).
- Each absence must be made up, including rector's days or dean's hours as student's own work (self-study) and presented as ppt. presentation or essay.

Grade:	Criteria (only for courses/modules ending with an examination)
Very Good	90-100% of test points
(5.0)	
Good Plus	80-89% of test points
(4.5)	
Good	70-79% of test points
(4.0)	
Satisfactory Plus	60-69% of test points
(3.5)	
Satisfactory	50-59% of test points
(3.0)	

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

<u>Katedra i Klinika Transplantacji Szpiku, Onkologii i Hematologii Dziecięcej:</u> ul. Borowska 213

ui. DOLOWSKa Z13

50-556 Wrocław



tel. 71 733 27 02, fax: 71-7332709 e-mail: pedhemat@umed.wroc.pl

Katedra i Klinika Endokrynologii i Diabetologii Wieku Rozwojowego

ul. T. Chałubińskiego 2A

50-368 Wrocław

tel. 71 770 31 17, fax: 71 328 06 82

e-mail: agnieszka.zubkiewicz-kucharska@umed.wroc.pl

I Katedra i Klinika Pediatrii, Alergologii i Kardiologii

ul. T. Chałubińskiego 2a

50-368 Wrocław

tel. 71 770 30 91, fax: 71 328 12 06 e-mail: <u>karolina.wyrobek@umed.wroc.pl</u>

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

Name of unit teaching	Katedra i Klinika Transplantacji Szpiku, Onkologii i Hematologii Dziecięcej
course:	Kateura i Kinnika Transpiantacji Szpiku, Onkologii i Hematologii Dziecięcej
Address	ul. Borowska 213 50-556 Wrocław
Phone	tel. 71 733 27 00, fax: 71-7332709
E-mail	e-mail: pedhemat@umed.wroc.pl

Person responsible for						
course:	Monika Mielcarek-Siedziuk, MD PhD (teaching Assistant Professor)					
Phone	tel. 71 733 27 02, fax: 71-7332709					
E-mail	e-mail: pedhemat@umed.wroc.pl					

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

Teachers list:

I Katedra i Klinika Pediatrii, Alergologii i Kardiologii

Marek Wasicionek, MD, pediatrics, pediatric cardiology, CC, L

Ewa Masłowska, MD PhD, pediatrics, pediatric cardiology, CC, L

Joanna Kukawczyńska-Noczyńska, MD, pediatrics, CC

Anna Halarewicz -Ciasullo, MD, pediatrics, CC

Magdalena Gziut, MD, pediatrics, CC

Katedra i Klinika Endokrynologii i Diabetologii Wieku Rozwojowego

Aleksander Basiak, MD PhD, pediatrics, pediatric endocrinology, CC, L

Beata Wikiera, MD PhD, pediatrics, pediatric endocrinology, CC, L

Teresa Żak, MD PhD, pediatrics, pediatric endocrinology, CC, L

Agnieszka Zubkiewicz-Kucharska, MD PhD, pediatrics, pediatric endocrinology, CC, L

Monika Seifert, MD, pediatrics, CC

Agnieszka Gorlo, MD, pediatrics, CC

Julita Nocoń-Bohusz, MD PhD, pediatrics, CC

Joanna Chrzanowska, MD PhD, pediatrics, CC

Katedra i Klinika Transplantacji Szpiku, Onkologii i Hematologii Dziecięcej:

Alicja Chybicka, Prof, pediatric, pediatric hematology and oncology, clinical transplantology, palliative care, clinical immunology, CC, L

Bernarda Kazanowska, Ass Prof, pediatrics, pediatric hematology and oncology, CC, L

Krzysztof Kałwak, Prof, pediatrics, pediatric hematology and oncology, clinical transplantology, clinical



immunology, CC, L

Grażyna Wróbel, Ass Prof, pediatrics, pediatric hematology and oncology, CC, L

Marek Ussowicz, Ass Prof, pediatrics, pediatric hematology and oncology, clinical transplantology, CC, L

Wojciech Pietras, MD PhD, pediatrics, pediatric hematology and oncology, CC, L

Elżbieta Latos-Grażyńska, MD PhD, pediatrics, pediatric hematology and oncology, CC, L

Monika Mielcarek-Siedziuk, MD PhD, pediatrics, CC, L

Małgorzata Salamonowicz, MD PhD, pediatrics, pediatric hematology and oncology, CC, L

Igor Olejnik, MD PhD, pediatrics, pediatric hematology and oncology, anaesthesiology and intensive care, CC, L

Tomasz Jarmoliński, MD PhD, pediatrics, nefrology, clinical transplantology, CC, L Jowita Frączkiewicz, MD, pediatrics, CC

Małgorzata Janeczko, MD, pediatrics, CC

Date of Syllabus development

Syllabus developed by

28.09.2020 r.

Monika Mielcarek-Siedziuk, MD PhD

Signature of Head of teaching unit

Signature of Faculty Dean inversity

prof. Deale Suppose