Course description (syllabus) form for higher education, doctoral, postgraduate and skills development programmes

Field name	Comments		
Course title	Paediatrics		
Unit organising the course	Faculty of Medicine of the Collegium Medicum UMK Department of Paediatrics, Haematology and Oncology		
Unit for which the course is organised	Faculty of Medicine of the Collegium Medicum UMK uniform master degree studies		
Course ID	1655-Lek5PEDI-J		
ISCED code	0912		
ECTS credit allocation	5		
Form of course completion assessment	Examination		
Language of instruction	English		
Indication whether attempts at obtaining course credit can be repeated	No		
Affiliation of the course to a course group	Non-procedural clinical sciences (Group E)		
Total student workload	 Study hours involving teacher participation: lectures: 10 hours seminars: 45 hours tutorials: 45 hours credit: 5 hours (practical exam 3 hours, theoretical exam 2 hours) Total workload involving teacher participation is 105 hours (3,60 ECTS points). Study hours involving individual student work: lectures: 10 hours seminars: 45 hours seminars: 45 hours seminars: 45 hours preparation for tutorials and seminars (incl. case reports and literature review): 21 hours preparation for the credit and the credit: 20 + 5 = 25 hours Total workload involving individual student participation is 146 hours (5,00 ECTS points). Workload related to achievement of learning outcomes in medical simulation settings (group E): tutorials: 5 hours Total workload related to achievement of learning outcomes in medical simulation settings is 5 hours (0,17 ECTS points). Percentage of classes required to achieve necessary learning outcomes: 5%. 		
Learning outcomes – knowledge	 In terms of knowledge, the graduate: W1: presents the importance of environmental influences and genetic factors, epidemiology, symptoms and principles of diagnosis and treatment of the most common: chronic respiratory diseases (tuberculosis, cystic fibrosis) (E.W3 p.3); primary and secondary immunodeficiencies (E.W3 p.4); rare diseases (including metabolic diseases, including the most common enzymopathies: galactosemia, fructosaemia, phenylketonuria), metabolic disorders regarding acid-base and water-electrolyte metabolism (including rickets, tetany) (E.W3 point 1); heart defects and cardiological diseases (heart defects, myocarditis, endocarditis and pericarditis, cardiomyonathies cardiac arrhythmias and 		

A. General course description

		syncope, heart failure, arterial hypertension, pulmonary hypertension) (E.W3 p.2);
	•	respiratory diseases (bronchitis, bronchiectasis, respiratory infections, pneumonia and pleurisy) (E.W3 p.3):
	•	diseases of the blood and hematopoietic system (anaemia, bleeding
		disorders, bone marrow failure) (E.W3 p.4); childhood cancers (leucaemias and lymphomas, solid tumours of
		childhood) and phakomatoses (E.W3 p.4);
	•	kidney and urinary system diseases (acute kidney injury, chronic kidney
		diseases, tubulonthies, tubular acidosis), genetically determined kidney
	•	diseases, renal hypertension) (E. w 3 p.6); endocrine system disorders (growth disorders, thyroid and parathyroid
		diseases, adrenal gland diseases, diabetes, puberty disorders, gonadal dysfunction) (E.W3 p.7);
	•	non-infectious diseases of the nervous system (cerebral palsy, seizures, epilepsy) (E.W3 p.8);
	•	some autoinflammatory diseases (systemic connective tissue diseases,
		including juvenile idiopathic arthritis, systemic lupus erythematosus, dermatomyositis, systemic vasculitis) (E.W3 p.10).
	W2:	explains the principles of child nutrition in selected deficiency diseases, metabolic syndromes, diabetes (E W1)
	W3:	lists the etiological factors of the most common respiratory infections and
		other acute infections in children depending on location and age, and determines the need for hospitalization and notification of epidemiological
		services about the infection (E.W32);
	W4:	outlines the risk of infections (especially bacterial, viral and fungal) in children with primary and acquired immunodeficiencies or chronic
		diseases, provides possible symptoms, principles of diagnosis and
	w5∙	treatment (E.W33 p.1,2,4,5); lists the epidemiology risk modes of inheritance and causes symptoms
		principles of diagnosis and therapeutic options in the most common
		hereditary diseases and syndromes (including spherocytosis, haemophilia, phakomatoses) (F W36)
Learning outcomes – skills	In terr U1.	ns of skills, the graduate: can establish contact with a small child and teenager using a method of
		communication appropriate to the child's age and obtain information about
	U2.	the patient's well-being and ailments (E.U2); is able to collect a medical history with a child with difficult contact and
		with parents in a stressful situation (E.U2);
	U3.	is able to plan and conduct a physical examination dependently on the child's age general condition and leading complaints and diagnosis
		including elements of a neurological, orthopaedic, laryngological or
	I IA	surgical examination (E.U6); is able to perform anthropometric measurements, assess the child's physical
	U-7.	and motor development, sexual maturity and nutritional status using
	115	appropriate indicators, percentile charts and norm tables (E.U8); is able to perform additional physical examinations, including screening
	05.	tests for vision and hearing, posture and musculoskeletal system (E.U8);
	U6.	is able to measure basic vital parameters in a child (body temperature, heart rate, non invesive blood pressure measurement, pulse eximatry) is able to
		adapt the examination method and instrumentation to the patient's age
	117	(E.U14 p.1); is able to measure body temperature in abildren of different acco
	07.	implement basic diagnostics and symptomatic treatment of fever, taking
		into account other symptoms and estimating the need for hospitalization of the patient (E U10 p.1, E U12):
	U8.	is able to plan initial tests and emergency treatment and determine
		indications for extended diagnostics or hospitalization of a child with
		symptoms of the respiratory system (cough, shortness of breath, nasal and ear discharge), circulatory system (palpitations, fainting, cyanosis) and
		nervous system (convulsions, headaches) (E.U10 p.2,3,4,10,11,12,21,22,
		E.U12);

	T TO	is able to implement initial discussion alon additional tests provide the
	09.	is able to implement initial diagnostics, plan additional tests, provide the
		most common causes, determine indications for hospitalization or referral
		to specialist care, and propose treatment in the case of general symptoms in
		a child (urination disorders, rash, anaemia, growth disorders, osteoarticular
		pain, swelling, lymphadenopathy, red eye syndrome) (E.U10
		p.5,6,7,9,13,14,15,23, E.U12);
	U10.	is able to plan laboratory, microbiological and imaging tests depending on
		the patient's clinical situation, is able to arrange them according to the
		degree of urgency and informativeness of the results and justify the order
		(E.U10);
	U11.	is able to interpret the obtained laboratory test results in the context of age
		norms and verify further diagnostic or therapeutic procedures (E.U10);
	U12.	is able to interpret the obtained results of microbiological tests, verify their
		significance in relation to the patient's condition (contamination, carrier
		status, colonization, infection, alarm pathogen) and revise anti-infective
		treatment (E.U10, E.U22);
	U13.	is able to plan necessary specialist consultations in accordance with the
		patient's medical problem (E.U10);
	U14.	is able to prescribe intravenous and oral pharmacological treatment for
		children of different ages, taking into account the differences in
		pharmacotherapy in developmental age (E.U10);
	U15.	is able to correctly write prescriptions for medications for home treatment,
		taking into account legal aspects (medical and registration indications) and
		obtain information on the use of the drug from the summary of product
	1116	characteristics (C.U11, C.U12);
	U16.	depending on the clinical condition, diagnosis or symptoms of the patient,
		makes a decision on the use of appropriate personal protective measures
		and indications for the appropriate type of isolation of the patient and is
	1117	able to justify it (E.U.15);
	017.	abild document it in the patient's documentation and implement
		procedures in accordance with applicable legal regulations (E 1/20):
	1118	can write medical observations, describe the procedure performed
	016.	document the patient's condition and treatment, and complete medical
		documentation also using IT systems (E.U18).
Learning outcomes - social	In terr	ns of social competences, the graduate:
competence	K1:	considering indications for hospitalization, planning diagnostic tests and
· · · · · · · · · · · · · · · · · · ·		treatment of the child, takes into account the best interests of the child
		(K K02):
	K2:	follows the rules of respecting privacy and medical confidentiality during
		child examination and contacts with the family (K K03, D.U3);
	K3:	applies the principles of obtaining the consent of an underaged patient for
		diagnostic and treatment procedures, taking into account the position of
		legal and actual guardians (K_K01, D.U3);
	K4:	has the habit and ability to search for information about the patient
		(K_K05, D.U04, D.U05);
	K5:	accepts and promotes the principles of a healthy lifestyle, nutrition,
		physical activity, hygiene, proper conditions for child development, and
		encourages the child and family to comply with current health care
		regulations and recommendations (K_K06).
Teaching methods	Lectu	res:
	•	conventional lecture
	Semin	ars:
	•	panel discussion
	•	case analysis
	•	problem-based learning
	Tutor	ials:
	•	clinical tutorials
		case studies
		utilization of medical simulation methods
Prerequisites	Studer	t is expected to have knowledge of hasic (preclinical) sciences (in
i terequisites	nartic	a is expected to have knowledge of basic (preclinical) solences (in
	laboro	tory diagnostics, immunology, nathology, microbiology, and knowledge
	and et	ills in the basics of paediatrics: healthy child development physical
	ana sn	ins in the busies of parentaries, nearly enne development, physical

	examination of a healthy child, nutrition of a child, medical care for healthy children)
Brief course description	The subject of the course deals with selected issues of developmental age and aims to familiarize with the most common diseases in the field of paediatric haematology and oncology, nephrology, pulmonary diseases, immunology, cardiology, paediatric neurology and endocrinology and basic knowledge of metabolic diseases. During the classes, students improve the skills of recognising, diagnosing and treatment of childhood diseases, and the skills of communication with the
Eull course description	paediatric patient and its parents.
Full course description	 The subject of the course deals with selected issues of developmental age and aims to familiarize with the childhood diseases in the field of: pulmonology clinical immunology cardiology endocrinology and diabetology haematology and oncology nephrology neurology metabolic errors and inherited conditions During the tutorials, students have direct contact with paediatric patients and their parents and improve the skills of examination of a child. At the same time, they train communication with a paediatric patient and its parents. They practice the skills of recognising, diagnosing, differentiation and treatment of most common diseases of childhood. Students also have the opportunity to observe and participate in the work of a paediatrician in the inpatient and outpatient facility setting, and learn about the practical application of laboratory, microbiological, genetic, immunological and imaging diagnostics in specific patients.
Literature	 Illustrated Textbook of Paediatrics: with STUDENT CONSULT Online Access Tom Lissauer, Graham Clayden, Mosby; 4 edition (30 Sep 2011) Nelson Essentials of Paediatrics: Karen J. Marcdante, Robert M. Kliegman
Assessment methods and	Lectures:
criteria	Theoretical test exam (≥60%): W1–W5, U10-U14
	 Seminars: Theoretical test exam (≥60%): W1–W5, U10-U14 Practical exam (≥ 60%): U1-U18, K1-K5
	Tutorials:
	 Practical exam (≥ 60%): U1-U18, K1-K5 Extended observation (> 50%): K1-K3, K5
Work placement	not applicable

B) Description of the course within the period of instruction

Field name	Comments
Period of instruction	Academic year 2024/2025
Form of assessment of course completion in the period of instruction	Examination
Form(s) of classes, number of hours and completion assessment methods	Lectures: 10 hours Seminars: 45 hours Tutorials: 45 hours
Name of course coordinator in the period of instruction	Jan Styczyński, Robert Dębski

Names of persons managing student groups for the course	Lectures: Jan Styczyński, Sylwia Kołtan, Andrzej Kołtan, Barbara Tejza Seminars: Sylwia Kołtan, Andrzej Kołtan, Krzysztof Czyżewski, Robert Dębski, Barbara Tejza, Elżbieta Grześk, Anna Dąbrowska, Monika Pogorzała, Agnieszka Jatczak-Gaca, Monika Richert-Przygońska, Agata Marjańska, Ewa Demidowicz, Roman Stankiewicz, Ilona Olszak-Szot, Ewa Zbucka-Jachowska, Krzysztof Narębski Tutorials: Sylwia Kołtan, Andrzej Kołtan, Krzysztof Czyżewski, Robert Dębski, Barbara Tejza, Elżbieta Grześk, Anna Dąbrowska, Monika Pogorzała, Agnieszka Jatczak-Gaca, Monika Richert-Przygońska, Agata Marjańska, Ewa Demidowicz, Roman Stankiewicz, Ilona Olszak-Szot, Ewa Zbucka-Jachowska, Krzysztof Narębski, Natalia Bartoszewicz, Joanna Cisek, Piotr Księżniakiewicz, Agnieszka Majk
Course attributes	University-wide courses, obligatory
Course groups including description and limit to the number of students within the groups	Lectures: whole year Seminars: groups 20-24 students Tutorials: groups 5-6 students
Time and place of classes	Detailed schedule is announced on the Department's own website and on the information board in the Department.
Number of study hours involving distance learning methods	not applicable
Course website	not applicable
Learning outcomes defined for a given form of classes within the course	 Lectures: The graduate: W1: presents the importance of environmental influences and genetic factors, epidemiology, symptoms and principles of diagnosis and treatment of the most common: primary and secondary immunodeficiencies (E.W3 p.4); rare diseases (including metabolic diseases, including the most common enzymopathies: galactosemia, fructosaemia, phenylketonuria), childhood cancers (leucaemias and lymphomas, solid tumours of childhood) and phakomatoses (E.W3 p.4); W4: outlines the risk of infections (especially bacterial, viral and fungal) in children with primary and acquired immunodeficiencies or chronic diseases, provides possible symptoms, principles of diagnosis and treatment (E.W33 p.1,2,4,5); W5: lists the epidemiology, risk, modes of inheritance and causes, symptoms, principles of diagnosis and therapeutic options in the most common hereditary diseases and syndromes (including spherocytosis, haemophilia, phakomatoses) (E.W36)
	 The graduate: W1: presents the importance of environmental influences and genetic factors, epidemiology, symptoms and principles of diagnosis and treatment of the most common: chronic respiratory diseases (tuberculosis, cystic fibrosis) (E.W3 p.3); primary and secondary immunodeficiencies (E.W3 p.4); rare diseases (including metabolic diseases, including the most common enzymopathies: galactosemia, fructosaemia, phenylketonuria), metabolic disorders regarding acid-base and water-electrolyte metabolism (including rickets, tetany) (E.W3 point 1); heart defects and cardiological diseases (heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathies, cardiac arrhythmias and syncope, heart failure, arterial hypertension, pulmonary hypertension) (E.W3 p.2);

 respiratory diseases (bronchitis, bronchiectasis, respiratory infections, pneumonia and pleurisy) (E.W3 p.3); diseases of the blood and hematopoietic system (anaemia, bleeding disorders, bone marrow failure) (E.W3 p.4); childhood cancers (leucaemias and lymphomas, solid tumours of childhood) and phakomatoses (E.W3 p.4); kidney and urinary system diseases (acute kidney injury, chronic kidney disease, urinary tract infections, glomerular diseases, tubulointerstitial diseases (tubulopathies, tubular acidosis), genetically determined kidney diseases, renal hypertension) (E.W3 p.6); endocrine system disorders (growth disorders, thyroid and parathyroid diseases, adrenal gland diseases, diabetes, puberty disorders, gonadal dysfunction) (E.W3 p.7);
 non-infectious diseases of the nervous system (cerebral palsy, seizures, epilepsy) (E.W3 p.8); some autoinflammeters: diseases (systemic system time)
 some autoinflammatory diseases (systemic connective tissue diseases, including juvenile idiopathic arthritis, systemic lupus erythematosus, dermatomyositis, systemic vasculitis) (E.W3 p.10). W2: explains the principles of child nutrition in selected deficiency diseases, metabolic syndromes, diabetes (E.W1) W3: lists the etiological factors of the most common respiratory infections and other acute infections in children depending on location and age, and determines the need for hospitalization and notification of epidemiological services about the infection (E.W32); W4: outlines the risk of infections (especially bacterial, viral and fungal) in children with primary and acquired immunodeficiencies or chronic diseases, provides possible symptoms, principles of diagnosis and treatment (E.W33 p.1,2,4,5); W5: lists the epidemiology, risk, modes of inheritance and causes, symptoms, principles of diagnosis and therapeutic options in the most common hereditary diseases and syndromes (including spherocytosis, haemophilia, phakomatoses) (E.W36)
Tutorials:
 The graduate: W1: presents the importance of environmental influences and genetic factors, epidemiology, symptoms and principles of diagnosis and treatment of the most common: chronic respiratory diseases (tuberculosis, cystic fibrosis) (E.W3 p.3); primary and secondary immunodeficiencies (E.W3 p.4):
 rare diseases (including metabolic diseases, including the most common enzymopathies: galactosemia, fructosaemia, phenylketonuria), metabolic disorders regarding acid-base and water-electrolyte metabolism (including rickets, tetany) (E.W3 point 1); heart defects and cardiological diseases (heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathies cardiac
 arrhythmias and syncope, heart failure, arterial hypertension, pulmonary hypertension) (E.W3 p.2); respiratory diseases (bronchitis, bronchiectasis, respiratory infections, pneumonia and pleurisy) (E.W3 p.3); diseases of the blood and hematopoietic system (anaemia, bleeding disorders, bone marrow failure) (E.W3 p.4); childhood cancers (leucaemias and lymphomas, solid tumours of childhood) and phakomatoses (E.W3 p.4); kidney and urinary system diseases (acute kidney injury, chronic kidney disease, urinary tract infections, along a longer land disease);
tubulointerstitial diseases (tubulopathies, tubular acidosis), genetically determined kidney diseases, renal hypertension) (E.W3 p.6);

	• endocr	rine system disorders (growth disorders, thyroid and yroid diseases, adrenal gland diseases, diabetes, puberty
	disordnon-in	ers, gonadal dysfunction) (E.W3 p.7); fectious diseases of the nervous system (cerebral palsy.
	seizure	es, epilepsy) (E.W3 p.8);
v	 some a disease erythe explains diseases 	autoinflammatory diseases (systemic connective tissue es, including juvenile idiopathic arthritis, systemic lupus matosus, dermatomyositis, systemic vasculitis) (E.W3 p.10). the principles of child nutrition in selected deficiency , metabolic syndromes, diabetes (E.W1)
t	can estal of comm informat	blish contact with a small child and teenager using a method nunication appropriate to the child's age and obtain ion about the patient's well-being and ailments (E U2):
τ	is able to and with	collect a medical history with a child with difficult contact parents in a stressful situation (E.U2);
τ	is able to the child	b plan and conduct a physical examination dependently on s age, general condition and leading complaints and
Ţ	diagnosi laryngol	s, including elements of a neurological, orthopaedic, ogical or surgical examination (E.U6);
	physical status us	and motor development, sexual maturity and nutritional ing appropriate indicators, percentile charts and norm tables
τ	(E.U8); is able to	perform additional physical examinations, including
	screenin system (g tests for vision and hearing, posture and musculoskeletal E.U8);
t	is able to heart rat	b measure basic vital parameters in a child (body temperature, e, non-invasive blood pressure measurement, pulse
	oximetry instrume	(), is able to adapt the examination method and entation to the patient's age (E.U14 p.1);
l	is able to	b measure body temperature in children of different ages, and basic diagnostics and symptomatic treatment of fever.
	taking ir	to account other symptoms and estimating the need for
τ	is able to	p plan initial tests and emergency treatment and determine
	and ear of cyanosis	ons for extended diagnostics or hospitalization of a child with ns of the respiratory system (cough, shortness of breath, nasal discharge), circulatory system (palpitations, fainting, and nervous system (convulsions, headaches) (E.U10 0.11.12.21.22, E.U12):
τ	is able to the most	o implement initial diagnostics, plan additional tests, provide common causes, determine indications for hospitalization or
	referral t sympton disorder	to specialist care, and propose treatment in the case of general ns in a child (urination disorders, rash, anaemia, growth s, osteoarticular pain, swelling, lymphadenopathy, red eye
τ	syndrom). is able to	(E.U10 p.5,6,7,9,13,14,15,23, E.U12); plan laboratory, microbiological and imaging tests
	dependin accordin and justi	ng on the patient's clinical situation, is able to arrange them g to the degree of urgency and informativeness of the results fy the order (E.U10):
τ	is able to of age n	o interpret the obtained laboratory test results in the context orms and verify further diagnostic or therapeutic procedures
τ	(E.U10) 2. is able to their sig	; o interpret the obtained results of microbiological tests, verify nificance in relation to the nation's condition (contamination
	carrier s anti-infe	tatus, colonization, infection, alarm pathogen) and revise ctive treatment (E.U10, E.U22);
l	 is able to the patie 	p plan necessary specialist consultations in accordance with nt's medical problem (E.U10):
τ	4. is able to for child	prescribe intravenous and oral pharmacological treatment ren of different ages, taking into account the differences in
τ	5. is able to treatmen	concerapy in developmental age (E.U10); correctly write prescriptions for medications for home at, taking into account legal aspects (medical and registration

	 indications) and obtain information on the use of the drug from the summary of product characteristics (C.U11, C.U12); U16. depending on the clinical condition, diagnosis or symptoms of the patient, makes a decision on the use of appropriate personal protective measures and indications for the appropriate type of isolation of the patient and is able to justify it (E.U15); U17. is able to recognize symptoms indicating the use of violence against a child, document it in the patient's documentation and implement procedures in accordance with applicable legal regulations (E.U29); U18. can write medical observations, describe the procedure performed, document the patient's condition and treatment, and complete medical documentation also using IT systems (E.U18). K1: considering indications for hospitalization, planning diagnostic tests and treatment of the child, takes into account the best interests of the child (K_K02); K2: follows the rules of respecting privacy and medical confidentiality during child examination and contacts with the family (K_K03, D.U3); K3: applies the principles of obtaining the consent of an underaged patient for diagnostic and treatment procedures, taking into account the position of legal and actual guardians (K_K01, D.U3); K4: has the habit and ability to search for information about the patient (K_K05, D.U04, D.U05); K5: accepts and promotes the principles of a healthy lifestyle, nutrition, physical activity, hygiene, proper conditions for child development, and encourages the child and family to comply with current health care regulations and recommendations (K_K06).
Assessment methods and	Lectures:
criteria for a given form of	Theoretical test exam ($\geq 60\%$): W1–W5, U10-U14
classes within the course	
	Seminars:
	• Theoretical test exam ($\geq 60\%$): W1–W5, U10-U14 • Practical exam ($\geq 60\%$): U1 U18 K1 K5
	• Hacucal exam ($\geq 00/6$). 01-018, KI-KS
	Tutorials:
	• Practical exam (≥ 60%): U1-U18, K1-K5
	• Extended observation (> 50%): K1-K3, K5
Course content	Lecture topics:
	 Leukaenna and tympholia of childhood. Inborn errors of immunity
	3. Introduction to paediatric oncology.
	4. Cellular therapies
	5. Rare diseases.
	Convinces tourises
	1. Acute inflammation of the nose and paranasal sinuses. Sore throat
	pharyngitis. Hypertrophy of the pharyngeal tonsil and palatine tonsils
	2. Chronic lung diseases (tuberculosis. CF)
	3. Bronchitis and bronchiolitis in children. Child whistling.
	4. Pneumonia and pleurisy
	5. Respiratory failure in children.
	6. Systemic diseases of connective tissue
	7. Systemic vascunus (Kawasaki uisease, Schoeniein-Henoch nurnura)
	8. Fever. Sepsis.
	9. Bleeding disorders.
	10. Anaemia in children
	11. Childhood leukaemias and lymphomas.
	12. Solid tumours
	13. Phakomatoses 14. Puberty disorders. Consider dysfunction
	14. Future usoraers. Contautar dystunction. 15. Congenital and acquired thyroid dysfunctions

16.	Diabetes, Hypoglycaemia.
17	Growth disorders dwarfism
18	Convulsions and saizura syndromes
10.	Combrol nolay
19.	Usedeshee CNS tomour
20.	Headaches, CNS tumours.
21.	Congenital heart defects
22.	Myocarditis in children.
23.	Fainting. Rhythm disturbances.
24.	Arterial hypertension in children and adolescents
25.	Acute kidney injury in children. Chronic kidney disease in children
26.	Urinary tract infections.
Tutoria	l topics:
1.	Patients with respiratory diseases - history, physical examination.
	diagnostics, differential diagnosis, interpretation of laboratory and
	imaging test results treatment
2	Patients with primary and secondary immunodeficiencies - history
2.	nhysical examination diagnostics differential diagnosis
	interpretation of laboratory tast results, treatment, principles of
	Interpretation of laboratory test results, treatment, principles of
	care. Protective Isolation of patients. Renabilitation, nutrition and
2	nome care plan.
3.	Patients with fever of unknown cause and sepsis - assessment,
	examination, interpretation of microbiological tests and planning of
	anti-infective treatment. Prescribing and dosing of anti-infective
	drugs - differences in paediatrics. Indications for isolation, types of
	insulation.
4.	Patients with cancer - history, physical examination, diagnostics,
	differential diagnosis, interpretation of laboratory and imaging test
	results, treatment, supportive therapy, nutrition.
5.	Classes at the Laboratory for Clinical and Experimental Oncology.
	Medical aspects of laboratory diagnosis of cancer. Advanced
	haematological diagnostics - principles of conducting invasive tests
	of the hematopoietic system in children
6	Participation in diagnostic hone marrow bionsies and lumbar
0.	nunctures in children
7	Patients with enlarged lymph nodes - history physical examination
7.	diagnostics, differential diagnosis, interpretation of laboratory and
	imaging test results, management
o	Detients with discosses of the homotopointic system history
0.	Patients with diseases of the hematopoletic system - history,
	physical examination, diagnostics, differential diagnosis,
	interpretation of laboratory and imaging test results, treatment,
	nutrition. Principles of using blood components. Transfusion of
-	blood components – legal regulations in clinical practice.
9.	Patients with neurological problems (headaches, seizures, visual
	disturbances, behavioral disorders) - interview, physical
	examination, diagnostics, differential diagnosis, interpretation of
	imaging test results, management
10.	Exercises in the paediatric cardiology department. Interview and
	physical examination of children with cardiovascular diseases;
	basic cardiological diagnostics.
11.	Exercises in the paediatric nephrology department. Interview and
	physical examination of children with urinary tract diseases.
	Laboratory and functional tests of the urinary system in children.
	Differential diagnosis of the most common urinary system diseases.
12.	Observation of the work of a doctor in a clinical clinic
	(immunology oncology haematology nulmonology
	phakomatoses).
13	Participating in the work of the Paediatric Emergency Indications
15.	for hospitalization basic laboratory tests imaging and
	consultations in initial diagnostics. Organization of the $E^{\mu}\Lambda$
1 /	Clinical communication in pradictrice modical simulation in
14.	chinear communication in paculatics - incutear simulation in
	condition Communication with action to of 1100 units nealth
	condution. Communicating with patients of different ages.
15.	Classes at the Centre for Medical Simulations - emergencies in
	paediatrics - classes according to scenarios.

Teaching methods	Lectures:
	conventional lecture
	Seminars:
	• panel discussion
	• case analysis
	 problem-based learning
	Tutorials:
	clinical tutorials
	• case studies
	• utilization of medical simulation methods
Literature	The same as in part A