Discussed and approved at the methodological meeting of the Department of Pediatrics No 1 Protocol No. <u>1</u> of "_30_" _08_ 2023. Head of Department

SYLLABUS FOR THE ACADEMIC DISCIPLINE

"Pediatrics" individual profile course on choice: Internal Medicine

1. General information			
Name of the faculty	Medical faculty No.2		
Educational program	22 "Healthcare", 222 "Medicine", second level of higher education		
	(Master's Degree), full-time education		
Academic year	2023/2024		
Name of discipline, code (e-mail	EB 3.1		
address on the website of Danylo	Pediatrics (3.1.3.1)		
Halytsky LNMU)			
Department (name, address,	Department of Pediatrics № 1, 79059, Lviv, Pylypa Orlyka str, 4,		
telephone number,			
e-mail)			
Head of the department (contact	Prof. Nyankovsky S.L. :+38(032)2917851; nianksl@gmail.com		
e-mail)			
Studying year	6th		
Semester	11-12		
Type of discipline / module	an obligatory component of the educational and professional training		
	program		
Teachers	Voznyak Andriy, Ph.D., Associate Professor <u>likar.voznjak@gmail.com</u>		
	Tutusa Andriy, Assistant of Professor		
	a.tytusa@gmail.com		
	Furtak Roksolana, Assistant of Professor		
	ljanaf@gmail.com		
	NY		
Erasmus yes/no	No		
The person responsible for the	Voznyak Andriy, Ph.D., Associate Professor <u>likar.voznjak@gmail.com</u>		
syllabus			
Number of credits ECTS	6.5		
Number of hours (lectures/	195 (0 - lectures/ 100 - practical classes/ 95 - independent work)		
practical classes/ independent			
work of students)	F		
Language of study	English		
Information about consultations	According to the schedule during the academic year		
Address, telephone number and	"Lviv City Children's Clinical Hospital " tel: +380322931888		
work regulations of the clinical			
base			

2. Short annotation to the course

General characteristics, brief description of the course, features, benefits

The discipline of Pediatrics is an obligatory component of the educational and professional training program. 6th year students differential diagnosis of a pulmonary, cardiovascular, gastro-intestinal, hepato-biliary, nephrological disorders, lymphoproliferative conditions. The course includes clinical issues on well child visits focusing on health maintenance with timely recognition of deviations from normal development milestones and immunization programs, integrated management of childhood illnesses. Academic curriculum ends with neonatal resuscitation and differential diagnosis of coma in children. During the course students will consolidate their knowledge gained during classes at the Department of Propaedeutics of Pediatrics, improve the methodology of physical examination of a child. They master basic skills of taking anamnesis, conduct the examination, systemize the symptoms in syndromes, plan examination of a sick child, interpret laboratory and instrumental tests, carry out a differential diagnosis of the most common pediatric diseases with typical course, make preliminary clinical diagnosis, setup of therapeutic approaches, prescribe treatment with drug dosages, develop emergency medical care plans, solve clinical cases, train practical skills on mannequins and at the bed of a sick child. 1. The objective describes a relationship between the program and content of the entire educational program. The purpose of teaching the educational discipline "Pediatrics" is development of the ability to use knowledge, skills to solve typical problems in the children's health field, the use of which is foreseen by defined list of syndromes and symptoms of diseases, emergency conditions, physiological conditions, and diseases requiring special tactics of patient management; laboratory and instrumental examinations, medical manipulations.

2. Learning objectives - provides information on the main objectives of the discipline. <u>The objectives</u> of the course is to develop students' knowledge of principles of differential diagnosis of the most common diseases in children, backup knowledge of newborn resuscitation, observation of the child at outpatient department, integrated management of childhood illnesses, and algorithms in pediatric coma and lymphoproliferative syndromes.

As a result of studying the discipline <u>the student should know</u>: subject area - differential diagnosis of the most common diseases in children, backup knowledge of newborn resuscitation, observation of the child at outpatient department, integrated management of childhood illnesses, and algorithms in pediatric coma and lymphoproliferative syndromes, understand the subject area and professional responsibility.

As a result of studying the discipline of "pediatrics" the student should be able to:

- Collect and analyze patient complaint data, medical history, life history according to according to established algorithms and evaluate the results of physical examination in the most common diseases of young and older children (SC1; PLR5) (SC - Special Competency, PLR - Program Learning Results)

- Identify the principal clinical symptom or syndrome for differential diagnosis. Make the preliminary and clinical and differential diagnosis (SC3; PLR4);

- Make the plan of investigation (laboratory, instrumental) of a sick child, interpret their results (SC2; PLR2);

- Develop management in metabolic and lymphoproliferative syndromes. (SC4; PLR5)
- Assign the appropriate therapeutic nutrition in the treatment of intestinal, hepatic, pancreatic and nephrological pathology (SC5; PLR10)
- Determine the principles of treatment (SC6; PLR14)

- Define the tactics of emergency medical care based on the diagnosis of emergency of the most common diseases of children (SC7; PLR14)

- Provide emergency medical care based on an emergency diagnosis (SC7; PLR14)
- Perform medical manipulations (SC10)

- Implement a complex of anti-epidemic and preventive measures within the primary health care. (SC13; PLR29)

The student should have the ability to:

- Abstract thinking (GC 1)
- Learn and master current knowledge (GC 2)
- Apply knowledge in practical situations (GC 3)
- Adapt and act in a new situation (GC 5)
- Make a substantiated decision (GC 6)
- Communicate in the English language (both verbal and in writing) (GC 9)

The student should demonstrate:

- Certainty and perseverance on the tasks and responsibilities (GC 12)
- Awareness of equal opportunities and gender issues (GC 13)
- Ability to act as a social entity to realize values of free democracy and for sustainable development (GC14)

The student should have the skills:

- Ability to search, process and analyze information from various sources (GC11)

3. Competences and learning results, the formation of which is facilitated by studying of the discipline (general and special competencies):

According to the standard of higher education, discipline provides students with competences:

<u>Integral competence</u> - an ability to solve complex problems in the field of professional medical activity, conduct original research and carry out research and innovative activity in the field of health care based on the

deep rethinking of the existing and creation of a new holistic theoretical or practical knowledge and/or professional practice.

General:

- GC1 The ability to abstract thinking, analysis, and synthesis
- GC2 Ability to learn and master modern knowledge
- GC3 Ability to apply knowledge in practical situations
- GC4 Knowledge and understanding of subject area and understanding of professional activity
- GC5 The ability to adapt and act in a new situation
- GC6 Ability to make an appropriate decision
- GC7 Ability to work in a team
- GC8 Interpersonal skills interaction
- GC9 Ability to communicate in foreign language
- GC10 Skills in using information and communication technologies
- GC11 Ability to search, process and analyze information from various sources
- GC12 Certainty and perseverance on the tasks and responsibilities
- GC13 Awareness of equal opportunities and gender issues
- GC14 The ability to exercise their rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights
- GC15 Ability to retain and develop moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology, use various types of physical activities for recreation and a healthy lifestyle

Special (Professional):

- SC1 Ability to collect medical information about the patient and analyze clinical data
- SC2 Ability to determine the required list of laboratory and instrumental studies and assess their results.
- SC3 The ability to establish preliminary and clinical diagnosis
- SC5 Ability to prescribe an appropriate diet in treatment and prevention of diseases
- SC6 Ability to determine the principles and type of treatment and prevention of diseases
- SC7 The ability to diagnose emergency conditions
- SC8 Ability to determine the tactics and implement emergency medical care
- SC10 The skills of performing medical manipulations
- SC11 Ability to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information taking into account aspects of social and ethical responsibility
- SC13 Ability to carry out sanitary and hygienic and preventive measures
- SC14 Ability to plan and carry out preventive and anti-epidemic measures for infectious diseases
- SC16 Ability to keep medical records, including electronic forms
- SC21 Clearly and unambiguously to convey own knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists, in particular to people who are studying
- SC24 Adherence to ethical principles when working with patients
- SC25 Adherence to professional and academic integrity, be responsible for the accuracy of scientific results

4. Prerequisites of the course

Information on the disciplines, basic knowledge and learning results required for successful study and acquisition of competencies in this discipline is indicated.

- Medical Biology
- Medical informatics

- Normal and Pathological Anatomy
- Normal and Pathological Physiology
- Histology, Cytology and Embryology
- Biological and bioorganic chemistry
- Microbiology, virology, and immunology
- Pharmacology
- Hygiene and Ecology
- Propaedeutic Pediatrics
- Nursing practice
- Radiology

5. Program learning results (PLR)

PLR 1. Have a thorough knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integration of knowledge. To be responsible for professional development, ability to further professional training with a high level of autonomy.

PLR 2. Understanding and knowledge of basic and clinical biomedical sciences, at a level sufficient to solve professional problems in the field of health care.

PLR 3. Specialized conceptual knowledge, which includes scientific achievements in the field of health care and is the basis for research, critical understanding of problems in the field of medicine and related interdisciplinary problems.

PLR 4. Identify and identify the leading clinical symptoms and syndromes; according to standard methods, using preliminary data of the patient's anamnesis, data of the patient's examination, knowledge about the person, his organs and systems, to establish a preliminary clinical diagnosis of the disease.

PLR 5. Collect complaints, life history and disease, assess the psychomotor and physical development of the patient, the state of organs and systems of the body, based on the results of laboratory and instrumental studies to assess information about the diagnosis, taking into account the patient's age.

PLR 6. Establish a final clinical diagnosis by making an informed decision and analysis of the obtained subjective and objective data of clinical, additional examination, differential diagnosis, adhering to the relevant ethical and legal norms, under the supervision of a physician-manager in a health care institution.

PLR 7. Order and analyze additional (mandatory and optional) examination methods (laboratory, functional and / or instrumental) for differential diagnosis of diseases.

PLR 9. To determine the nature and principles of treatment of patients (conservative, operative), taking into account the age of the patient, in a health care facility, outside it and at the stages of medical evacuation, including in the field, on the basis of a preliminary clinical diagnosis, adhering to the relevant ethical and legal norms, by making an informed decision on existing algorithms and standard schemes. If necessary to expand the standard scheme and justify personalized recommendations under the supervision of a physician.

PLR 10. To determine the necessary mode of work, rest and nutrition based on the final clinical diagnosis, adhering to the relevant ethical and legal norms, by making an informed decision according to existing algorithms and standard schemes.

PLR 12. Assess the general condition of the newborn child by making an informed decision according to existing algorithms and standard schemes, adhering to the relevant ethical and legal norms.

PLR 13. Assess and monitor the child's development, provide recommendations for breastfeeding and nutrition depending on age, organize preventive vaccinations on the calendar.

PLR 14. Define tactics and provide emergency medical care in emergencies for a limited time in accordance with existing clinical protocols and treatment standards.

PLR 17. Perform medical manipulations in a medical institution, at home or at work based on a previous clinical diagnosis and / or indicators of the patient's condition by making an informed decision, adhering to the relevant ethical and legal norms.

PLR 18. Evaluate the state of functioning and restrictions of life of the person and the duration of disability with the registration of relevant documents at health care institution on the basis of data on illness and its course, features of human professional activity, etc. Keep a medical document on the patient and a certain contingent of the population on the basis of regulatory documents.

PLR 20. Analyze the epidemiological condition and take measures of mass and individual, general and local prevention of infectious diseases.

PLR 21. Search for the necessary information in the professional literature and databases of other sources,

analyze, evaluate and apply this information.

PLR 24. Organize the necessary level of individual safety (own and care persons) in the event of typical dangerous situations in the individual field of activity.

PLR 25. Clearly and unambiguously communicate knowledge, conclusions and arguments on health issues and related issues to professionals and non-specialists.

PLR 29. Plan, organize and conduct activities for the specific prevention of infectious diseases, including in accordance with the National Calendar of preventive vaccinations, both mandatory and recommended. Manage vaccine residues; organize additional vaccination campaigns, including immune-prophylaxis measures.

	6.0 List of learning results	
Learning results code	The scope of the learning results	Reference to the code of the competence matrix
The code is created when the syllabus is filling (category: Kn - Knowledge, Sk- Skill, C-Competence, AR - Autonomy	Learning outcomes determine what the student must know, understand and be able to perform, after completing the discipline in accordance with the learning objectives. To enroll in the discipline, it is necessary to confirm the achievement of each learning result.	The symbol of the code of the program learning results in the Standard of Higher Education
and		
Responsibility		
Kn-1 Sk-1	Have a knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integration of knowledge.	PLR1
C-1 AR -1	To be responsible for professional development, ability to further professional training with a high level of autonomy.	
Kn- 2	Have knowledge in pharmacology, biochemistry, physiology,	PLR2
Sk- 2	pathology, microbiology, pediatric nursing, pediatric propedeutics Be able to make systematic physical examination	
C-2 AR -2	Be able to make preliminary and differential diagnosis Be responsible for provision of quality standard care in pediatric diseases	
Kn- 3 Sk- 3 C-3	Specialized conceptual knowledge, which includes scientific achievements in the field of health care and is the basis for research, critical understanding of problems in the field of medicine and related interdisciplinary problems. Be able to apply current scientific advances in medical practice	PLR3
AR -3		
Kn- 4	Know the diagnostic algorithms for diseases; algorithms for discrimination of major symptoms or syndromes; make preliminary and final diagnoses; methods	PLR4
Sk- 4	Be able to make relevant decisions, highlighting of the main clinical symptom or syndrome; be able to make the preliminary and final clinical diagnosis	
<i>C-4</i>	According to the normative documents fill in medical documentation of the patient (outpatient / inpatient records, etc.)	
AR -4	According to the ethical and legal norms, be responsible for making reasonable decisions and actions concerning of the preliminary and final clinical diagnosis accuracy	

V 5	Demonstrate Imageladas about shild's bade engtanies and	DI D5
Kn-5	Demonstrate knowledge about child's body, anatomical and physiological peculiarities of child's organs and systems at different ages, know the standard methods of interview, able to compile a	PLR5
	pedigree, perform physical examination, know stages and methods	
	of examination of psychomotor and physical development of the	
	child.	
Sk-5	To be able to talk to a child-and/or her parents (guardians), based on	
	algorithms and standards. Use the principles of communication with the parents of children. Using standard techniques to carry out	
	physical examination of a patient. Be able to examine psychomotor	
	and physical development of the child.	
	Able to assess the quality of care and feeding of infants and	
	nutrition of children. Be able to conduct a comprehensive assessment of child health.	
~ -		
C-5	Communicate effectively with patient and/or his parents (care givers).	
	Transfer information about the child health to the relevant medical	
AR-5	documentation. Be responsible for qualitative collection of information obtained	
АК-Ј	during conversation with patient, survey, examination, palpation,	
	percussion of organs and systems, timely assessment of the child's	
	health condition, psychomotor and physical development of the	
Kn-6	child and for taking appropriate measures. Know similar and different features of major pediatric diseases	PLR6
Sk-6	Establish a final clinical diagnosis by making an informed decision	I LIKO
<i>C-6</i>	and analysis of the obtained subjective and objective data of	
	clinical, additional examination, differential diagnosis, adhering to	
AR-6	the relevant ethical and legal norms, under the supervision of a mentor physician in a health care institution.	
<i>Kn-7</i>	Know the standard methods of laboratory and instrumental research.	PLR7
	Be able to assign an appropriate laboratory and instrumental	
Sk- 7	examination of the patient by applying standard techniques, analyze	
	the results of examination (laboratory and instrumental) and make	
	preliminary diagnosis Create a list and inform the patient and/or his/her parents (care	
<i>C</i> -7	givers), experts about conclusions concerning the necessary list of	
	laboratory and instrumental tests	
AR - 7	Be responsible for the decision concerning the evaluation of	
AR -/ Kn-9	laboratory and instrumental examinations resultsKnow the nature and principles of treatment of patients	PLR9
<i>М<i>II-7</i></i>	(conservative, operative), taking into account the age of the patient,	1 LN7
Sk- 9	in a health care facility, outside it and at the stages of medical	
	evacuation, including in the field, on the basis of a preliminary	
	clinical diagnosis, adhering to the relevant ethical and legal norms,	
<i>C-9</i>	by making an informed decision on existing algorithms and standard schemes.	
	Be able to expand the standard scheme and justify personalized	
	recommendations under the supervision of a physician.	
AR -9 Kn - 10	Know the system of hygienic and preventive measures among the	PLR10
$\Lambda n = 10$	population observed. Know the principles of organization of follow-	
	up of different groups of population, who are subject to supervision	
<i>a</i> 1 <i>c</i> 2	(newborns, children, teenagers).	
Sk - 10	Be able to setup groups of children for follow-up. Be able to plan	

	follow-up for different age groups. Know indicators for efficiency	
	of follow-up and rules of the reporting to the health authorities.	
	Know the methodical approaches to assess the environment for	
	pollution and the presence of factors which affect the health of the	
	population in this environment. Know principle of rational nutrition,	
	water supply, mode of activity and rest, forming a favorable work	
	environment, primary prevention of diseases and injuries; Principles	
	and methods of promoting healthy lifestyles	
C - 10	Based on the results of follow-up and analysis of children's health,	
0 10	and environment know the principles of submitting analytical	
	information to local government and health authorities to eliminate	
	harmful effects on children's health.	
AR - 10		
AK - 10	Be responsible for timely and qualitative activities on assessment of	
	the health of children, health improvement and improvement of the	
	health of certain contingents, improving the environment,	
	promoting healthy lifestyles, primary prevention of diseases and	
	injuries.	DI D 10
Kn - 12	Know criteria for assessment of the general condition of the	PLR12
	newborn child. Know modern algorithms and standard schemes in	
	neonatology. Be aware of ethical and legal issues in neonatology.	
Sk - 12	Perform physical examination of a newborn	
<i>C</i> - <i>12</i>	Assess the general condition of the newborn child by making an	
	informed decision according to existing algorithms and standard	
	schemes, adhering to the relevant ethical and legal norms.	
AR - 12	Be responsive for quality care in for newborn	
Kn - 13	Know monitoring of child's development, provide recommendations	PLR13
	for breastfeeding and nutrition depending on age, management of	
	preventive vaccinations	
Sk - 13	Be able to assess the health of patients and the affected population;	
	to organize medical examination of children who require	
	supervision.	
C - 13	Organize follow-up supervision of patients (secondary prevention of	
	diseases) and healthy persons who is subject to further follow-up	
	supervision (primary prevention of diseases).	
AR - 13	Be responsible for the quality of the organization of follow-up	
	supervision of certain groups of children.	
Kn - 14	Know the algorithms for providing emergency medical care in	PLR14
	emergencies	
Sk - 14	Be able to provide emergency medical care in most common	
	emergency conditions in children.	
C - 14	Explain the need and procedure for therapeutic measures of	
	emergency medical care.	
AR - 14	Be responsible for the timeliness and quality of emergency medical	
	care	
Kn - 17	Have specialized knowledge of algorithms for performing medical	PLR17
	manipulations.	
Sk - 17	Be able to carry out medical manipulations	
<i>C</i> - <i>17</i>	Formulate and inform the patient, and/or his parents (care givers)	
	regarding the need for medical manipulations	
AR - 17	Be responsible for the quality of medical manipulations	
Kn - 18	Know functioning and restrictions of life of the person and the	PLR18
	duration of disability with the registration of relevant documents at	
Sk - 18	health care institution on the basis of data on illness and its course,	
C - 18	features of human professional activity.	
	Be able to keep a medical document on the patient and a certain	
L		1

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AR - 18		opulation on the basis of regulatory		
	Be responsible for j	protection of private medical inform	nation	
<i>K</i> 20		of epidemiology and epi-/pand	• ••	DI DOO
Kn - 20	1 1	PLR20		
CI 20	prevention strategie		. 1	
Sk - 20 C - 20		the epidemiological condition and idual, general and local prevention		
C - 20	diseases.			
AR - 20		the local disease prevention		
Kn - 21	-	mation paid and free resources or	a the internet	PLR21
Kn = 21		d rules of electronic access	i the internet,	
Sk - 21	10 0	for the necessary information in th	e professional	
C - 21		atabases, analyze, evaluate and	1	
C - 21	information	habases, anaryze, evaluate and	apply uns	
AR - 21		sharing updated professional info	ormation with	
111 21	colleagues	sharing updated professional int	ormation with	
Kn - 24	<u> </u>	sional health protection measures		PLR24
		the necessary level of individua	al safety (own	
Sk - 24	0	n the event of typical dangerous si	•	
<i>C</i> - 24	individual field of a			
c _;		personal and patient safety.		
AR - 24		1 7		
Kn - 25	Know principles	of logical thinking and mak	ing informed	PLR25
		ial vs non-essential information	8	
Sk - 25		informed decision based on a set of	f arguments	
C - 25		l produce competency toward clea	U U	
AR - 25	statements	1 1 2	1	
Kn - 29	Know epidemiolog	ious diseases,	PLR29	
	including preventable diseases, national schedule for vaccination of			
Sk - 29	children of various ages			
<i>C</i> - <i>29</i>	Be able and responsible to plan, organize and conduct activities for			
AR - 29	the specific prev			
	accordance with th			
		and recommended. Manage vace		
		l vaccination campaigns, including		
	immunoprophylaxi			
	6. Format a	nd scope of the course		
Type of		Number of hours		Number of groups
activity				
Lectures (full-		0		
time lesson)				
Workshops		acording shedule		
(full-time				
lesson)		95		aganding shadela
Self-studying		acording shedule		
(full-time lesson)				
	7.	Topics and content of the cours	<u>х</u> е	
Code of the	Topic 7.	Content of the studying	Learning	Teacher
type of the	1 opic	Content of the studying	results code	
classes				
W-1	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Voznyak Andriy,
(workshop 1)	diagnosis of	syndromes in different clinical	14, 17,	Tutusa Andriy,
("encourop 1)	pneumonia in	variants of pneumonia in	21,27	Furtak Roksolana,
	children. Acute	children. Results of laboratory		

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	respiratory	and instrumental studies in		
	disease COVID-	different clinical variants of		
	19 in children.	pneumonia. Differential		
	Current aspects of	diagnosis of pneumonia,		
	treatment	bronchitis, and bronchiolitis in		
		children. Making a preliminary		
		diagnosis. Treatment of patients		
		with different clinical variants of		
		pneumonia. Prevention of		
		pneumonia and its complications		
		in children. Clinical presentation		
		and course of COVID-19.		
		Updated diagnosis and		
		management protocol.		
		• •		
		Prophylaxis		
W-2	Complications of	Differential diagnoses in	PLR 2, 4-7,	Voznyak Andriy,
(workshop 2)	pneumonia.	pleurisy, abscess, pyothorax, and	14, 17,	Tutusa Andriy,
	Emergency care	pneumothorax. Clinical	21,27	Furtak Roksolana,
	in acute	presentation and laboratory		
	respiratory failure	evaluation. Radiologic		
	in children.	differences pleurisy, abscess,		
		pyothorax, and pneumothorax.		
		Assessment of acute respiratory		
		failure in children. Severity		
		-		
		staging. Blood gases and base-		
		acid balance. Types and		
		techniques of oxygen therapy.		
		Indications in advanced		
		respiratory support.		
W-3	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Voznyak Andriy,
(workshop 3)	diagnosis of	syndromes in bronchial asthma,	14, 17,	Tutusa Andriy,
	bronchial	bronchiolitis and acute	21,27	Furtak Roksolana,
	obstruction in	obstructive bronchitis in)	
	children.	children. Peculiarities of asthma		
	Differential	in children, depending on the		
		, 1 C		
	approach to	severity and level of control.		
	treatment of	Results of laboratory and		
	bronchial	instrumental studies in bronchial		
	obstruction in	asthma, bronchiolitis and acute		
	children.	obstructive bronchitis and its		
		complications. Differential		
		diagnosis of asthma and		
		bronchial obstruction versus		
		acute respiratory infections in		
		children of all ages. Making the		
		preliminary diagnosis.		
		Treatment of patients with		
		different clinical variants of		
1				
		obstructive syndrome and its		
		obstructive syndrome and its complications in children.		
		obstructive syndrome and its complications in children. Providing emergency assistance		
		obstructive syndrome and its complications in children. Providing emergency assistance in an asthma attack and status		
		obstructive syndrome and its complications in children. Providing emergency assistance in an asthma attack and status asthmaticus. Prevention of		
		obstructive syndrome and its complications in children. Providing emergency assistance in an asthma attack and status asthmaticus. Prevention of asthma and bronchial		
		obstructive syndrome and its complications in children. Providing emergency assistance in an asthma attack and status asthmaticus. Prevention of		

		children of all ages.		
W-4 (workshop 4)	Differential diagnosis of hereditary, congenital, and chronic disease of the bronchopulmonar y system in children.	Leading clinical symptoms and syndromes in chronic bronchitis, bronchiectasis, hereditary and congenital diseases of respiratory system (cystic fibrosis, idiopathic pulmonary hemosiderosis, primary cilia dyskinesia, a syndrome of Wilms Campbell bronchomalacia, aplasia and hypoplasia of the lungs, α 1- antitrypsin deficiency, bronchopulmonary dysplasia, sequestration lung) in children. The results of laboratory and instrumental studies in chronic bronchitis, bronchiectasis, hereditary and congenital diseases of the respiratory system and their complications. Differential diagnosis of chronic, hereditary, and congenital bronchopulmonary disease in children. Clinical management of patients with hereditary, congenital, and chronic bronchopulmonary diseases and their complications in children.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
W-5 (workshop 5)	Differential diagnosis of inflammatory and non-inflammatory heart disease in children. Treatment of chronic heart failure.	Leading clinical symptoms and syndromes of heart disease in children. Clinical variants and complications of myocarditis, endocarditis, pericarditis, cardiomyopathies, congenital and acquired heart defects in children. Data from laboratory and instrumental tests in myocarditis, endocarditis, pericarditis, cardiomyopathies, congenital and acquired heart defects in children. Clinical manifestations of heart failure in children of different ages. Differential diagnosis of inflammatory and non- inflammatory diseases of the circulatory system in children. Tactics of patient management in myocarditis, endocarditis, pericarditis, cardiomyopathies, congenital and acquired heart	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,

		defects in children. Treatment and prevention of chronic heart failure.		
W-6 (workshop 6)	Differential diagnosis of abnormal cardiac rhythm and conduction in children. Emergency care in paroxysmal rhythm disturbances and Morgan-Adam Stokes syndrome.	Leading clinical symptoms and syndromes in extrasystole, paroxysmal tachycardia, atrial fibrillation, complete atrioventricular block. Clinical variants of the course of paroxysmal tachycardia and fibrillation in children. The results of instrumental studies at extrasystole, paroxysmal tachycardia, atrial fibrillation, complete atrioventricular block. Differential diagnosis of arrhythmia, paroxysmal tachycardia, atrial fibrillation and complete atrio-ventricular block. Clinical management of patients with arrhythmia, paroxysmal tachycardia, atrial fibrillation, complete atrio- ventricular block in children. Provision emergency care for paroxysmal tachycardia, atrial fibrillation, Morgan-Adams- Stokes syndrome, in children. Prevention of cardiac rhythm and conduction abnormality in children.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
W-7 (workshop 7)	Differential diagnosis of systemic connective tissue disease and systemic vasculitis in children.	Leading clinical symptoms and syndromes in juvenile rheumatoid arthritis, systemic lupus erythematosus, acute rheumatic fever, dermatomyositis, scleroderma, Kawasaki disease, polyarteritis nodosa and other systemic vasculitis in children. Clinical variants of the course and complications of systemic connective tissue diseases and systemic vasculitis in children. The results of laboratory and instrumental studies in systemic connective tissue diseases and systemic vasculitis in children. Differential diagnosis of systemic connective tissue diseases in children. Differential diagnosis of arthritis in children. Clinical management of patients with systemic connective tissue diseases and systemic vasculitis in children. Primary and	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,

		secondary prevention of acute rheumatic fever in children.		
W-8 (workshop 8)	Differential diagnosis of arterial hypertension in children. Metabolic syndrome	Evaluation of a pediatric patient with arterial hypertension. Correct measurement of blood pressure. Automated pressure blood pressure monitoring. Use of age and height distribution (percentile) tables for grading arterial pressure by the severity. Differential diagnosis in arterial hypertension. Evaluation of the target organs damage in arterial hypertensive drugs. Treatment of hypertensive crisis in a pediatric patient. Emergency care. Fasting glucose, blood pressure, lipid profile, and body weight in metabolic syndrome in children. Risk for diabetes mellitus, fatty hepatosis, cardiac disease. Management approaches: lifestyle and drugs.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
W-9 (workshop 9)	Differential diagnosis of functional and organic disease of the stomach and duodenum in children.	Leading clinical symptoms and syndromes in the functional and organic diseases of the stomach and duodenum in children (functional dyspepsia, reflux disease, gastritis, gastric ulcer and duodenal ulcer). Clinical - instrumental investigations and Differential diagnosis of dyspeptic and abdominal pain syndromes in children. Clinical variants of the course of gastric ulcer and duodenal ulcer disease. Clinical management of children with functional and organic diseases of the stomach and duodenum. Diagnosis of a complicated course of gastric ulcer and duodenal ulcer in children, tactics of the general practitioner, emergency aid. Prevention of functional and organic diseases of the stomach and duodenum in children.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
W-10 (workshop 10)	Differential diagnosis of functional and organic disease of intestines in children.	Leading clinical symptoms and syndromes in the functional and organic diseases of the intestines in children (functional constipation, reflux disease, irritable bowel syndrome, disaccharidase deficiency, exudative enteropathy, celiac	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,

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		disease, cystic fibrosis, Crohn's disease, ulcerative colitis). Clinical - instrumental investigations and differential diagnosis of dyspeptic, abdominal pain, and intestinal absorption syndrome disorders in children. Clinical variants of diseases of intestines. Clinical management of children with functional and organic diseases of the intestines. Prevention of functional and organic diseases of the intestines in children.		
W-11 (workshop 11)	Differential diagnosis of disease of the hepatic, biliary system, and the pancreas in children. Syndrome of portal hypertension. Emergency care in acute hepatic failure.	Leading clinical symptoms and syndromes in biliary dyskinesia, acute and chronic cholecystitis, acute and chronic pancreatitis, and chronic hepatitis in children. Clinical variants of the course of biliary dyskinesia, acute and chronic cholecystitis, acute and chronic pancreatitis, and chronic hepatitis in children. The results of laboratory and instrumental studies in biliary dyskinesia, acute and chronic cholecystitis, acute and chronic pancreatitis, and chronic hepatitis in children. Differential diagnosis of biliary dyskinesia, acute and chronic hepatitis in children. Clinical management of patients with biliary dyskinesia, acute and chronic cholecystitis, acute and chronic cholecystitis, acute and chronic cholecystitis, acute and chronic pancreatitis, and chronic hepatitis in children. Providing emergency care in acute hepatic failure and complications of portal hypertension syndrome. Prevention of biliary dyskinesia, acute and chronic cholecystitis, acute and chronic cholecystitis,	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
W-12 (workshop 12)	Food and drug allergy in children	Leading clinical symptoms of food and drug allergies in children. Diagnostic algorithm: laboratory and instrumental methods of examination, consultations. Clinical management of children with food and drug allergies. Providing emergency care for hives, anaphylactic shock.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,

W/12	D:ff	T 1:		V/1- A 1
W-13	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Voznyak Andriy,
(workshop 13)	diagnosis of	syndromes in inflammatory	14, 17,	Tutusa Andriy,
	infectious	diseases of the urinary system	21,27	Furtak Roksolana,
	inflammatory disease of the	(urinary system infections,		
		urethritis, cystitis,		
	urinary system in children.	pyelonephritis) dysmetabolic		
	Differential	nephropathy, hereditary		
		tubulopathy (phosphate diabetes,		
	diagnosis of	Syndrome Debre-de Toni-		
	hereditary disease	Fanconi, renal diabetes		
	of the urinary	insipidus, renal tubular acidosis)		
	system in children.	and interstitial nephritis in children. Clinical variants of the		
		course and complications of		
		infectious diseases of the urinary		
		system, interstitial nephritis,		
		nephropathy and hereditary		
		dysmetabolic tubulopathy in		
		children. The results of the		
		laboratory and instrumental		
		studies at the most common		
		inflammatory diseases of the		
		urinary system, interstitial		
		nephritis, dysmetabolic		
		nephropathy and hereditary		
		tubulopathy in children.		
		Differential diagnosis of the		
		most common infectious		
		diseases of the urinary system,		
		interstitial nephritis,		
		nephropathy and hereditary		
		dysmetabolic tubulopathy in		
		children. Clinical management		
		of the sick child in the most		
		common inflammatory diseases		
		of the urinary system and their		
		complications, with interstitial		
		nephritis, with dysmetabolic		
		nephropathy and hereditary		
		tubulopathy in children. First aid		
		in acute urinary retention.		
		Preventing urethritis, cystitis,		
		pyelonephritis.		
W-14	Differential	Clinical and	PLR 2, 4-7,	Voznyak Andriy,
(workshop 14)	diagnosis of	morphological variants of	14, 17,	Tutusa Andriy,
	glomerulonephriti	primary glomerulonephritis in	21,27	Furtak Roksolana,
	s in children.	children. Differential diagnosis		
	Differential	of acute post-streptococcal		
	approach to	glomerulonephritis with		
	treatment of	hereditary Alport nephritis,		
	glomerulonephriti	rapidly progressive		
	s in children.	glomerulonephritis, Berger's		
	Acute and chronic	disease. Nephrotic syndrome in abildron. Differential diagnosis		
	kidney failure.	children: Differential diagnosis,		
	Treatment tactics	complications. Clinical variants		
	and emergency	of chronic glomerulonephritis in		

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	care.	children. Indications for renal biopsy in children. Clinical management of the sick child in acute and chronic glomerulonephritis. Tactics in treatment of acute and chronic glomerulonephritis in children. Clinical supervision of children with glomerulonephritis. Prevention of chronic kidney disease. Acute kidney injury (acute renal failure) in children: etiology, pathogenesis, clinical and laboratory symptoms, Differential diagnosis. Emergency tactics of sick children. Chronic renal failure. Treatment approach. Prevention of progression of chronic renal failure.		
W-15 (workshop 15)	Differential diagnosis of lymphoproliferati ve syndrome in children.	failure. Laboratory evaluation in lymphadenopathy, splenomegaly. Gastrointestinal presentation and involvement of mediastinum. Immune deficiency syndromes as a background of lymphoproliferative syndrome in children. X-linked lymphoproliferative disorders, autoimmune lymphoproliferative syndrome, primary immune deficiencies, posttransplant lymphoproliferative disorder. Differential diagnosis in pediatric non-Hodgkin lymphoma.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
W-16 (workshop 16)	Medical supervision of children in the first three years of life in the polyclinic setting. Integrated management of childhood illnesses.	Procedure for obligatory preventive examinations of children under three years old. Efficient feeding and nutrition of the child under three years old. Evaluation of physical and psycho-motor development of children up to three years. Tactics of the general practitioner in violation of physical and neuropsychological development of children during the first three years of life. Principles of effective counseling. Differential diagnosis and prevention of the most common deficient states (rickets, iron deficiency) in infants. Prophylactic vaccination		Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,

of children up to three years. The strategy of integrated management of childhood illness	
management of childhood illness	
e e	
and its purpose. Common signs	
of danger for the child.	
Evaluation, classification,	
treatment, consultation and	
follow-up for coughing,	
difficulty in breathing, diarrhea,	
problems with the ear, sore	
throat, fever, malnutrition and	
anemia, the presence of HIV	
infection in children from 2	
months to 5 years. Evaluation,	
classification, treatment,	
consultation, and follow-up of	
children under the age of 2	
months with jaundice, diarrhea,	
feeding problems and low birth	
weight, very severe illnesses,	
and local bacterial infection.	
W-17 Resuscitation of a Basic principles of newborn PLR 12, 14, Voznyak A	•
(workshop 17) newborn. resuscitation. Indications for 17, 21,27 Tutusa And	
resuscitation. Anticipation of Furtak Rol	ksolana,
resuscitation need. Initial steps.	
Temperature control, clearing	
the airway, assessment of	
oxygen need and administration	
of oxygen, pulse oximetry,	
administration of supplementary	
oxygen, positive-pressure	
ventilation, initial breaths and	
assisted ventilation, end-	
expiratory pressure, assisted-	
ventilation devices, endotracheal	
tube placement, chest	
compressions, medications.	
Withholding and discontinuing	
resuscitation.	
SS1 Differential Diagnostic approach for lung PLR 2-7 Voznyak A	•
(self-studying 1)diagnosis ofpathologyinnewborns.Tutusa And	•
pulmonary Assessment of the type and Furtak Roke	solana,
diseases in severity of respiratory disorders.	
newborns. Differential diagnosis. The main	
complications. Contemporary	
approaches to treatment.	
SS2 Current aspects in Therapeutic range of antibiotic PLR 2-7 Voznyak A	•
(self-studying 2) antibiotic therapy therapy. Types of antibacterial Tutusa And	•
in children. drugs. Types of antibiotic action Furtak Roks	solana,
modes. Pharmacokinetics,	
pharmacodynamics. Age-	
specific indications and	
contraindications and	
concomitant pathology.	

	defects - diagnosis and management of patients.	heart defects. Management and prognosis.		
SS4 (self-studying 4)	Pericarditis in children. Medicines used in pediatric cardiology.	Differential diagnosis of pericarditis. Interdisciplinary approach to diagnosis, and follow-up.	PLR 2-7	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS5 (self-studying 5)	Kawasaki disease in children: causes, symptoms, diagnosis and treatment.	Differential diagnosis of the disease and Kawasaki syndrome. Diagnostic approach, treatment, prognosis.	PLR 2-7	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS6 (self-studying 6)	Metabolic syndrome – diagnosis and management.	Differential diagnosis of metabolic syndrome in children. Making clinical diagnosis. Management of metabolic syndrome. Prevention.	PLR 2-7	Sergiy Gerasymov Oksana Matsyura
SS7 (self-studying 7)	Helminthiasis in children.	The state of the art in helminthiasis in children. Prevalence, polymorphism of clinical manifestations. Modern opportunities for diagnosis. Management.	PLR 2-7	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS8 (self-studying 8)	Differential diagnosis of malabsorption syndrome in children.	Malabsorption syndrome, clinical manifestations, causes. Current approaches to the diagnosis of malabsorption syndrome, treatment. Multidisciplinary approach.	PLR 2-7	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS9 (self-studying 9)	Differential diagnosis of jaundice in children.	Diagnostic approach to jaundice in children of different age groups. Interdisciplinary approach. Interpretation of the results of laboratory and instrumental examinations. Management.	PLR 2-7	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS10 (self-studying 10)	Induction of oral tolerance in children of different age groups (prevention of food allergies).	Induction of oral tolerance is a new and promising therapeutic approach in the treatment of persistent allergy.	PLR 2-7	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS11 (self-studying 11)	Anomalies of the urinary system accompanied by pathologic urodynamics in children.	Anomalies of development of the urinary system, which lead to impaired urodynamics and cause urinary retention. Complications, timely diagnosis and management.	PLR 2-7;	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS12 (self-studying 12)	Diseases accompanied by hematuria in children. Renal	Differential diagnosis of hematuria in children. Diagnostic approach. Management.	PLR 2-7	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,

	replacement therapy.			
SS13 (self-studying 13)	Differential diagnosis of the most common hematological diseases in children.	Leading clinical symptoms and syndromes of hematological diseases (anemia, thrombocytopenia and thrombocytopathy, coagulopathy). Data from laboratory and instrumental studies. Clinical variants of course and complications. Management.	PLR 2-7;	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS14 (self-studying 14)	Nutrition of children of the first 3 years of life: intake of vitamins and macro- and micronutrients with food.	Rational feeding and nutrition of a child under three years of life. Leading clinical symptoms and syndromes in insufficiencies of vitamins and trace elements. Diagnosis and principles of correction.	PLR 2-7	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS15 (self-studying 15)	Asphyxia of newborns and perinatal CNS lesions: prevention, differential diagnosis and principles of treatment.	Differential diagnosis of asphyxia and perinatal CNS lesions in newborns. Diagnostic algorithm. Management.	PLR 2-7	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,

The following teaching methods are used to develop skills:

- ✓ verbal/oral (explanation, cases);
- ✓ visual (observation, illustration, demonstration);
- practical (near the patient's tub, work in the admission department, departments of functional diagnostics, rehabilitation, manipulation, on simulators, etc.);
- explanatory-illustrative or information-receptive, which involves the presentation of ready-made information by the teacher and its assimilation by students.

8. Verification of learning results

Current control is carried out during the training sessions and aims to check the assimilation of students' educational material (it is necessary to describe the forms of current control during training sessions). Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. For the final grade for the current educational activity a **4-th grade** (national) scale is used All types of work are considered in this case. The student should get an estimate from each topic and then it will be converted into points according to 200-point scale.

Answers standardized questions, knowledge of which is necessary to understand the current topic.

Demonstrates knowledge and skills of practical skills in accordance with the topic of the workshop.

Solves a clinical case according to the topic of the lesson.

Criteria for evaluation of educational activities

Excellent ("5") – the student answered correctly 90-100% of the A format test (from the database "Step-2").

Correctly, clearly, logically corresponds to all standardized questions of the current topic.

Connects theory with practice and demonstrates the correct implementation of practical skills.

Fluent in interpretation of the laboratory test results, adepts at prescribing appropriate examination methods.

Makes differential diagnosis. Solves clinical case with higher level of difficulty and knows how to compile the material.

Good ("4") - the student answered correctly 70-89% of the of A format test (from the database "Step-2"). Correctly and essentially responds to all standardized questions of the current topic. Demonstrates knowledge of practical skills. Correctly uses theoretical knowledge in solving practical problems, conducts a differential diagnosis. Capable to solve easy and medium complexity clinical cases.

Possesses all necessary practical skills and techniques to perform their uses, more than the required minimum. **Satisfactory ("3")** - the student answered correctly 50-69% of the A format test (from the database "Step-2"). Incomplete, with the help of additional questions answers all the standardized questions on the current topic. Cannot independently makes a clear logical answer. While the student is answering and demonstrating practical skills, he makes mistakes. Can solve only the easiest situational tasks. Has knowledge of only the minimum methods of investigations.

Unsatisfactory ("2") - the student answered correctly 50% of the test of A format.

Does not know the material of the current topic, cannot build a logical response, does not respond to additional questions, and does not understand the content of the material. Makes significant, gross mistakes when answering and demonstrating practical skills.

Evaluation of the students' independent work for preparation for the practical classes is carried out during the current control of the topic at the appropriate workshop.

Current control			
Learning results code	Code of the type	Verifying learning outcomes	Enrollment criteria
	of the classes	method	
Kn-2, 4-7, 14, 17, 21,27, Sk-2, 4-7, 14, 17, 21,27 C – 2, 4-7, 14, 17, 21,27 AR -2, 4-7, 14, 17, 21,27	W 1-17 SS -1-15	Material is checked during practical classes in accordance with the topics. Current control is carried out at each practical lesson. The initial stage - answers to 10 test tasks. In the first practical lesson, tests test the knowledge of pediatrics in the disciplines of prerequisites. The main part of the lesson is the practical work of the student at the bedside of a patient. A lecturer with students is bypassing the patients. Students examine sick children, collect anamnesis, examine them, perform diagnostic manipulations, etc. Control of the main part of the lesson is carried out by assessing the student's practical skills, ability solve typical situational tasks. The lecturer discusses and gives explanations, emphasizes the features of the disease course in a particular child, targets a more rational realization of this or that method of examination, etc. The control of this stage is carried out by the teacher by assessing the students' skills and abilities when he is working with a sick child, filling in the documentation, interprets the test results, etc.). At the final part of workshop students are giving an answer to clinical case. The teacher sums up the results of the lesson, gives	traditional grades of 5, 4, 3, 2. "5" - correct, clear logical answer to all standardized questions of the current topic; correct performance of practical skills of mastering the methods of examination of the patient; brief interpretation of survey results; differential diagnosis. "4" - correctly and essentially answers all standardized questions of the current topic; demonstrates performance/knowledge of practical skills; differential diagnosis. "3" - incompletely, with the help of additional questions, answers all standardized questions of the current topic; cannot independently build a clear, logical answer; makes mistakes when answering and

submitted. Grades from the 4-point 200. scale are converted into points on a multi-point (200-point) scale in accordance with the provision "Criteria, rules and procedures for		performed by the	estions of a list ofskills.a list of for self-"2" - does not know the material of the current 		
Number of final controlIndicator of final controlInd		Final control			
Admission to final controlThe student attended all practical (laboratory, seminar) classes and received at least 120 points for current performanceType of final controlMethods of final controlEnrollment criteriaCreditAll topics for current control submitted. Grades from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the provision "Criteria, rules and procedures forThe maximum number of points	General evaluation system				
received at least 120 points for current performanceType of final controlMethods of final controlEnrollment criteriaCreditAll topics for current control submitted. Grades from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the provision "Criteria, rules and procedures forThe maximum number of points 200.	Rating scales	traditional 4-point scale, multi-point	(200-point) scale, ECTS rating scale		
CreditAll topics for current control submitted. Grades from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the provision "Criteria, rules and procedures forThe maximum number of points 200.		received at least 120 points for current performance			
submitted. Grades from the 4-point 200. scale are converted into points on a multi-point (200-point) scale in accordance with the provision "Criteria, rules and procedures for	Type of final control	Methods of final control	Enrollment criteria		
learning activities"	Credit	submitted. Grades from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the provision "Criteria, rules and procedures for evaluating the results of student	The minimum number of points is		

The calculation of points is carried out based on the student's grades according to the 4-th grads (national) scale during the study of the discipline, by calculating the arithmetic mean (AM) rounded up to two decimal places. Resulting value is converted into points according to multipoint scale as follows:

$x = \frac{\text{CA} \times 200}{5}$

9. Course policy

It is based on the full implementation of the curriculum of the course (attending workshops, working academic debts up, performing independent tasks), academic integrity, lack of plagiarism.

Observance of academic integrity by students:

- 1. Independent performance of educational tasks, tasks of current and final control of results;
- 2. Links to sources of information in the case of the use of ideas, developments, statements, information;
- 3. Observance of the legislation on copyright and related rights.
- 4. Providing reliable information about the results of their own (scientific, creative) activities, used research methods and sources of information.

10. References

Waseem M. Pediatric pneumonia [Internet]. New York (NY): Medscape, LCC; 2020; [updated Jun 05, 2020; cited 2022 May 16]; [39 p]. Available from: https://emedicine.medscape.com/article/967822-overview

- 2. COVID-19: special considerations in children. Bethesda (MD): NIH; 2022; [updated: August 8, 2022; cited August 15, 2022]; Available from:
- 3. https://www.covid19treatmentguidelines.nih.gov/management/clinical-management-of-children/special-considerations-in-children/
- Chin E. Pediatric reactive airway disease [Internet]. New York (NY): Medscape, LCC; 2021; [updated Jul 16, 2021; cited 2022 May 16]; [39 p]. Available from: https://emedicine.medscape.com/article/800119-overview
- 5. Global strategy for asthma management and prevention [Internet]. Fontana (WI): GINA, 2022; [updated 2022; cited 2022 Aug 17]. Available from: https://ginasthma.org/gina-reports/
- Kamal K. Congenital lung malformations [Internet]. New York (NY): Medscape, LCC; 2020; [updated Dec 23, 2020; cited 2022 Aug 15]; [39 p]. Available from: https://emedicine.medscape.com/article/905596-overview
- 7. Park M, Salamat M. Park's pediatric cardiology for practitioners. 7th ed. Amsterdam: Elsevier; 2020. 690 p.
- 8. Mikrou P, Shivaram P, Kanaris C. How to interpret the paediatric 12-lead ECG. Archives of Disease in Childhood Education and Practice 2022;107:279-287.
- 9. Petty RE, Laxer R, Lindsley C, et al. Textbook of pediatric rheumatology. 8th ed. Amsterdam: Elsevier; 2020. 768 p.
- Benenson, Irina DNP, FNP-C; Waldron, Frederick A. MD, MPH, FACEP; Porter, Sallie DNP, PhD, RN-BC, CPNP, APN. Pediatric hypertension: A guideline update. The Nurse Practitioner: May 2020 -Volume 45 - Issue 5 - p 16-23 doi: 10.1097/01.NPR.0000660332.31690.68
- Hyams JS, Di Lorenzo C, Saps M, Shulman RJ, Staiano A, van Tilburg M. Functional disorders: children and adolescents. Gastroenterology. 2016 Feb 15:S0016-5085(16)00181-5. doi: 10.1053/j.gastro.2016.02.015. Epub ahead of print. PMID: 27144632.
- 12. Textbook of pediatric gastroenterology, hepatology and nutrition. Guandalini S, Dhawan A (eds). Springer Nature Switzerland AG; 2022. 1096 p.
- 13. Pediatric allergy: principles and practice. 4 ed. Leung D, Akdis C, Bacharier L (eds). Amsterdam: Elsevier; 2020. 440 p.
- 14. Pediatric nephrology. 8th ed. Emma F, Goldstein SL, Bagga A, et al (eds). New York (NY): Springer; 2022. 2500 p.
- 15. Wall DA. Lymphoproliferative disorders [Internet]. New York (NY): Medscape, LCC; 2019; [updated Apr 18, 2019; cited 2022 May 16]; [39 p]. Available from: https://emedicine.medscape.com/article/987765-overview
- 16. Recommendations for preventive pediatric health care [Internet]. Itasca (IL): AAP; 2022; [updated 2022; cited 2022 May 16]. Available from:. https://downloads.aap.org/AAP/PDF/periodicity_schedule.pdf
- 17. The integrated management of childhood illness [Internet]. Geneva: WHO press; 2006 [cited 2022 May 16]; [43 p]. Available from:
 - http://apps.who.int/iris/bitstream/handle/10665/43993/9789241597289_eng.pdf
- Avery and MacDonald's Neonatology: pathophysiology and management of the newborn. 8th ed. Philadelphia: LWW; 2021. 1184 p.
- 19. Hammer NC, Koch JJ, Hopkins HC. Neonatal Resuscitation: Updated Guidelines from the American Heart Association. Am Fam Physician. 2021 Oct 1;104(4):425-428. PMID: 34652094.

11. Equipment, logistics and software of the discipline / course

- Training program of the discipline
- Plans of practical classes, and independent work of students
- Methodical instructions for practical training for students
- Methodical instructions for practical training for teachers
- Methodical materials that provide independent work of the student
- MCQs and cases for practical classes

12. Additional information

Materials related to the educational and organizational process (thematic plan, schedule of classes, schedules of consultations and work up of missed classes) are available on the website of the department: <u>https://new.meduniv.lviv.ua/kafedry/kafedra-pediatriyi-1/</u> Educational and methodical materials (topic guidelines) for preparation for practical classes, independent work, self-control, abstracts of lectures are available on the MISA platform in the section "Department of Pediatrics No1 on the website of LNMU named after Danylo Halytsky: _ http://misa.meduniv.lviv.ua/course/view.php?id=341

The work plan of the student scientific group with the lists of student scientific society members are posted at the beginning of the academic year on the website of the department.. <u>https://new.meduniv.lviv.ua/kafedry/kafedra-pediatriyi-1/</u>

The person responsible for the syllabus Voznyak A.V.Ph.D., Associate Professor

Head of the Department Nyankovsky S.L. the Doctor of Science, Professor