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

"Paediatrics and Neonatology"

1	. General information
Name of the faculty	Medical faculty No.1
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	222 «Medicine»
Department (name, address, telephone	Department of Pediatrics № 1, 79059, Lviv, Pylypa Orlyka str,
number,	4, phone/fax: +38 (032) 2938250;
e-mail)	kaf_pediatrics_1@meduniv.lviv.ua
Head of the department	
(contact e-mail)	Prof. Nyankovsky S.L. :+38(032)2917851; nianksl@gmail.com
Studying year	4-th
Semester	8
Type of discipline / module	an obligatory component of the educational and professional
	training program
Teachers	Voznyak Andriy, Ph.D., Associate Professor
	likar.voznjak@gmail.com
	Tutusa Andriy, Assistant of Professor
	a.tytusa@gmail.com
Erasmus yes\no	No
The person responsible for the	Voznyak Andriy, Ph.D., Associate Professor
syllabus	likar.voznjak@gmail.com
Number of credits ECTS	4
Number of hours (lectures/ practical	120 (10 - lectures/ 51 - practical classes/ 59 - independent work)
classes/ independent work of students)	
Language of study	English
Information about consultations	According to the schedule during the academic year
Address, telephone number and work	"Lviv City Children's Clinical Hospital " tel: +380322931888
regulations of the clinical base	

2. Short annotation to the course

The discipline of Pediatrics is an obligatory component of the educational and professional training program. 4th year students study a variety of somatic diseases in children, 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, construct medical records.

3. The purpose and objectives of the course

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 Learning objectives - provides information on the main objectives of the discipline. The objectives - of the course is to develop students' knowledge of the etiology, pathogenesis, clinical manifestations, diagnosis, principles of treatment of the most common somatic diseases in children.

As a result of studying the discipline of "pediatrics" the <u>student should know</u>: subject area - etiology, pathogenesis, classification, clinical symptoms, diagnosis, treatment and prevention of the most common diseases of young and old children and 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; PLR1) (SC - Special Competency, PLR - Program Learning Results)
- Identify the principal clinical symptom or syndrome. Make the preliminary and clinical diagnoses as well as differential diagnosis (SC3; PLR3);
- Make the plan of investigation (laboratory, instrumental) of a sick child, interpret their results (SC2; PLR2);
- Determine the necessary mode of work and rest in the treatment of the most common endocrine and hematological diseases in children. (SC4; PLR4)
- Assign the appropriate therapeutic nutrition in the treatment of the most common somatic diseases in children (SC5; PLR5)
- Determine the principles of treatment (SC6; PLR6)
- Define the tactics of emergency medical care based on the diagnosis of emergency of the most common somatic diseases of children (SC7; PLR7)
- Provide emergency medical care based on an emergency diagnosis (SC8; PLR8)
- Perform medical manipulations (SC10; PLR10)
- Implement a complex of anti-epidemic and preventive measures within the primary health care. (SC11; PLR11)
- Form dispensary groups of patients with most common somatic problems of children. (SC12; PLR12)
- Work with the medical records (SC13; PLR13)

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)
- Ability to act socially responsibly and consciously (GC 13)
- Ability to act according to ethical considerations (motives) (GC14)

The student should have the skills:

- Use of information and communication technologies (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: Integral competence - 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; Ability to learn and be modernly trained.
- 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 business 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 the State language both orally and in writing.
- GC10 Ability to communicate using foreign language
- GC11 Skills in using information and communication technologies
- GC12 Certainty and perseverance on the tasks and responsibilities
- GC13 The ability to act socially responsibly and deliberately
- GC14 The ability to act based on ethical considerations

Special (Professional):

- SC1 Skills of inquiry and clinical examination of the patient.
- SC2 Ability to determine the required list of laboratory and instrumental studies and assess their results.
- SC3 The ability to establish preliminary and clinical diagnoses.
- SC4 Ability to determine the necessary mode of training, work and recreation of healthy children and in the course of treatment of diseases.
- SC5 Ability to determine an appropriate diet for healthy children and in thr course of the treatment of diseases
- SC6 Ability to determine an appropriate diet for the principles and character of treatment of diseases.
- SC7 The ability to diagnose emergency conditions
- SC8 Ability to determine the tactics of emergency medical care.
- SC9 Skills of emergency medical care
- SC10 The skills of performing medical manipulations
- SC11 The ability to carry out hygienic and preventive measures
- SC12 Ability to determine the tactics for patients, who need medical follow-up
- SC13 The ability to fill in medical documents
- SC14 The ability to assess environmental, social, economic, and biological influences on health of the individual, family, population

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)

PLR1 - Collecting of patient complaints, medical history, life history (of the child, mother, or care givers

etc.).

Use knowledge about the anatomical features of organs and systems of the child's body depending on age PLR2 - Evaluate information about the diagnosis in the hospital, using a standard procedure, using the analysis of the results of clinical examination of the child, and based on the results of laboratory and instrumental studies

PLR3 - Be able to establish preliminary and final diagnoses

PLR4 - To determine the necessary treatment of the disease in the hospital, after discharge, the necessity for follow-up supervision

PLR5 - Determine the type of treatment (etiologic, pathogenetic, symptomatic) of the disease

PLR7 - Determine the strategies of emergency medical care, under any circumstances

PLR8 - Determining the strategies of emergency medical care.

PLR9 - Provide emergency medical care

PLR10 - Perform medical manipulations

PLR11 - Demonstrate the ability to conduct sanitary and hygienic as well as preventive measures

PLR12 - To determine the strategies of managing children who require dispensary supervision

PRN13 - Ability to work with medical records

PRN14 - Ability to assess the impact of the environment, socioeconomic status and biological determinants on the individual, family, population health

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 by filling in the syllabus (category: Kn- Knowledge, Sk- Skill, C-competences, AR - autonomy and responsibility)	The learning outcomes define what the student must know, understand and be able to perform, after completing the course of study. The learning outcomes are based on the set learning objectives. For crediting the discipline, it is necessary to certify that each learning outcome has been achieved.	Symbol for the Programme Learning Outcome code in the Higher Education Standard		
Kn-1	To know the specific characteristics of the child's at different age periods, to know the methods and standard schemes of description, collection of genealogical information, preparation of the birth	PLR1		
Sk-1	report, physical examination, stages of examination of psychomotor and physical development of the child. To be able to talk to a child-and/or her parents (guardians), based			
C-1	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			
AR-1	 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. Communicate effectively with patient and/or his parents (care givers). Transfer information about the child health to the relevant medical documentation. Be responsible for qualitative collection of information obtained 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 child and for taking appropriate measures. 			
Kn-2	Know the standard methods of laboratory and instrumental examinations	PLR2		

	Sk- 2	Know how to perform a laboratory and instrumental examination	
		of a patient using standard techniques, analyze the results of	
	C-2	laboratory and instrumental investigations and evaluate the	
		diagnosis of the patient on this basis	
	AR -2	Formulate and communicate to the patient and / or his/her parents	
		(guardians), physicians about the required list of laboratory and	
		instrumental examinations	
		Be responsible for the decision-making process regarding the	
		evaluation of laboratory and instrumental results	
	Kn - 3	Know the algorithm for disease diagnosis; algorithms for	
		identifying leading symptoms or syndromes; initial and clinical	PLR3
		diagnoses; methods.	
	Sk- 3	Be able to make an informed decision about the identification of a	
		leading clinical symptom or syndrome; be able to make an initial	
		and clinical diagnosis.	
	C - 3	Based on regulatory documents, maintain medical documentation	
		of the patient (outpatient/inpatient chart, etc.).	
	AR - 3	Be responsible for making informed decisions and actions	
		regarding the correctness of the established initial and clinical	
		diagnosis, in compliance with ethical and legal standards	
	Kn - 4	Know the algorithms and standard schemes for determining the	
		regimen of education, work and leisure activities for healthy	PLR4
		children and for medical treatment, based on the initial and clinical	
	Sk - 4	diagnosis	
		Be able to determine the necessary regime for education, work and	
		rest for healthy children and, based on the initial and clinical	
	C - 4	diagnosis, to make an informed decision about the treatment of the	
		disease	
		Formulate and communicate to the patient and / or their parents	
	AR -4	(guardians) and caregivers opinions on the necessary regime of	
		education, work and leisure time for healthy children and in the	
		treatment of the disease	
		Be responsible for ensuring that the education, work and leisure	
		regime is appropriate for healthy children and for the treatment of	
		illnesses	
	Kn - 5	Have specialized knowledge of algorithms and standard schemes	
		for the prescribing of nutrition for healthy children and in the	PLR5
	Sk - 5	treatment of diseases	
		Be able to identify the nature of the food intake for healthy	
	a . r	children, and on the basis of the initial and clinical diagnosis, the	
	C - 5	nature of the food intake for treatment of diseases	
		Formulate and convey to the patient and / or their parents	
	AD 5	(guardians), professionals, opinions on the nutrition of healthy	
	AK - 3	children and in the treatment of diseases	
		Be responsible for ensuring that food for healthy children and for	
	V. C	Use an acialized the available of all accidence and standard treatment	
	NII - 0	ragimana	
	Sk 6	Pa able to determine the negative of nutrition of healthy	rLK0
	SK - 0	abildren and these who in process of treatment according to	
	C - 6	preliminary and clinical diagnoses	
	0-0	Formulate and communicate to the nations and / or their parents	
		(guardians) professionals own findings on the principles and	
	AR - 6	nature of treatment	
		Be responsible for deciding on the principles and nature of	
1		be responsione for deeraning on the principles and nature of	1

	treatment	
Kn - 7	Know the standard procedures for examining children in	
	non-emergency situations (at home, on the street, in health care	PLR7
	facilities) in the context of lack of information.	
Sk - 7	Be able to assess the child's condition and identify the underlying	
	clinical syndrome (or the severity of the injury/casualty) in the	
	context of lack of information, using standard methods, by making	
C - 7	an informed decision	
	Use appropriate ethical and legal standards to make an informed	
	decision about the assessment of the severity of the child's	
AR - 7	condition, the diagnosis and the organisation of appropriate	
	medical treatment depending on the condition, and to fill in the	
	relevant medical documentation.	
	Be responsible for the timeliness and effectiveness of medical	
	procedures for the diagnosis of non-critical conditions.	
Kn - 8	Know the legal framework for the provision of emergency medical	
	care, in particular the Law of Ukraine "On Emergency Medical	PLR8
	Care". Have specialist knowledge of children's illnesses: principles	
Sk - 8	of emergency medical care.	
-	Be able to identify the principles and tactics of emergency medical	
	care: carry out organizational and diagnostic procedures for	
C - 8	treatment and life-saving treatment.	
	Formulate and communicate to the patient or their legal	
	representative the need for non-emergency care and obtain	
AR - 8	approval for medical treatment.	
	Be responsible for the correctness of the determination of the	
	emergency condition. its degree of severity and the tactics for	
	emergency medical treatment.	
Kn - 9	Awareness of algorithms for emergency medical care in children's	PLR9
	emergencies	
Sk - 9	Know how to provide emergency medical care in an emergency	
Sk - 9 C - 9	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment.	
Sk - 9 C - 9 AR - 9	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment. Be responsible for the timeliness and quality of emergency medical	
Sk - 9 C - 9 AR - 9	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment. Be responsible for the timeliness and quality of emergency medical care	
Sk - 9 C - 9 AR - 9 Kn - 10	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment. Be responsible for the timeliness and quality of emergency medical care Have specialized knowledge of medical manipulation algorithms	
Sk - 9 C - 9 AR - 9 Kn - 10	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment. Be responsible for the timeliness and quality of emergency medical care Have specialized knowledge of medical manipulation algorithms Be able to perform medical manipulation	PLR10
Sk - 9 C - 9 AR - 9 Kn - 10 Sk - 10	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment. Be responsible for the timeliness and quality of emergency medical care Have specialized knowledge of medical manipulation algorithms Be able to perform medical manipulation Provide evidence to the patient and parent(s), caregiver(s),	PLR10
Sk - 9 C - 9 AR - 9 Kn - 10 Sk - 10 C - 10	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment. Be responsible for the timeliness and quality of emergency medical care Have specialized knowledge of medical manipulation algorithms Be able to perform medical manipulation Provide evidence to the patient and parent(s), caregiver(s), physician(s) about the need for medical manipulation	PLR10
Sk - 9 C - 9 AR - 9 Kn - 10 Sk - 10 C - 10 AR - 10	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment. Be responsible for the timeliness and quality of emergency medical care Have specialized knowledge of medical manipulation algorithms Be able to perform medical manipulation Provide evidence to the patient and parent(s), caregiver(s), physician(s) about the need for medical manipulation Be responsible for the quality of medical treatment	PLR10
Sk - 9 C - 9 AR - 9 Kn - 10 Sk - 10 C - 10 AR - 10 Kn - 11	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment. Be responsible for the timeliness and quality of emergency medical care Have specialized knowledge of medical manipulation algorithms Be able to perform medical manipulation Provide evidence to the patient and parent(s), caregiver(s), physician(s) about the need for medical manipulation Be responsible for the quality of medical treatment Know the system of hygienic and prophylactic measures among the	PLR10
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Sk - 9 C - 9 AR - 9 Kn - 10 Sk - 10 C - 10 AR - 10 Kn - 11 Sk - 11 C - 11 AR - 11	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment. Be responsible for the timeliness and quality of emergency medical care Have specialized knowledge of medical manipulation algorithms Be able to perform medical manipulation Provide evidence to the patient and parent(s), caregiver(s), physician(s) about the need for medical manipulation Be responsible for the quality of medical treatment Know the system of hygienic and prophylactic measures among the enrolled population. To know the principles of organization of dispensary treatment of different groups of children subject to dispensary treatment. Know how to form groups of children to be treated. Know how to create a plan for the treatment of different groups. On the basis of the results of the examination and analysis of children's health status, the environment, know the principles of submitting analytical information to local management bodies and health care; on the basis of the measures of elimination of adverse effects on children's health. To be responsible for the timely and proper implementation of measures to assess the health status of children, to improve the health of certain contingents, to improve the environment	PLR10 PLR11
Sk - 9 C - 9 AR - 9 Kn - 10 Sk - 10 C - 10 AR - 10 Kn - 11 C - 11 AR - 11 Kn - 12	Know how to provide emergency medical care in an emergency Explain the need for and procedure for emergency treatment. Be responsible for the timeliness and quality of emergency medical care Have specialized knowledge of medical manipulation algorithms Be able to perform medical manipulation Provide evidence to the patient and parent(s), caregiver(s), physician(s) about the need for medical manipulation Be responsible for the quality of medical treatment Know the system of hygienic and prophylactic measures among the enrolled population. To know the principles of organization of dispensary treatment of different groups of children subject to dispensary treatment. Know how to form groups of children to be treated. Know how to create a plan for the treatment of different groups. On the basis of the results of the examination and analysis of children's health status, the environment, know the principles of submitting analytical information to local management bodies and health care; on the basis of the measures of elimination of adverse effects on children's health. To be responsible for the timely and proper implementation of measures to assess the health status of children, to improve the health of certain contingents, to improve the environment To know the relevant ethical and legal standards for the	PLR10 PLR11

	C	of primary and s	econdary prophylaxis			
Sk - 12	ŀ	Know how to as	sess the health status of patients and a	dherer	nts:	
	a	rrange for follo	w-up examinations		,	
	(Organize outpat	ient observation of patients (secondary	v preve	ention	
C - 12	C	of diseases) and	healthy persons who are subject to dis	spensa	rv	
	s	upervision (prin	nary prevention of diseases).	1	5	
AR - 12	F	Be responsible f	or the quality of the organization of di	spensa	arv	
	s	upervision of c	ertain contingents	op mot)	
Kn - 13	F	Be aware of the	official document management system	n in th	e	
	ċ	loctor's work. in	cluding modern computer technology		-	PLR13
Sk - 13	H	Be able to identi	fy the source and location of required	inforn	nation	
_	ć	lepending on its	type; be able to process information a	nd ana	lyse it	
C – 13		Gain the required information from a given source and make				
	a	ppropriate cond	clusions on the basis of this analysis			
AR - 13	H	Be responsible f	or the completeness and quality of the	analy	sis of	
	i	nformation and	conclusions on the basis of this analys	sis		
Kn - 14	ŀ	Know the socioe	economic and biologic determinants th	at affe	ect	
	c	hildren's health	; types and methods of prevention to p	reven	t the	PLR14
	r	legative impact	of socioeconomic factors on children's	s healt	h	
Sk - 14	ŀ	Know how to as	sess the link and impact of socio-econ	omic a	and	
	l	piologic factors	on the health of the individual and the	famil	y. Be	
	a	ble to plan prop	phylactic measures to prevent the nega	tive in	npact	
	C	of socio-econom	nic factors on the health of the child po	pulati	on and	
G 14	1	ts particular gro	pups.			
C - 14		ormulate concl	usions on the health status of the child	l popu	lation,	
	t	based on data or	the relationship to environmental fac	tors,		
AD 14	S I	ocio-economic	and biologic determinants.	n tha	haalth	
AK - 14		to be responsible to be child	d population based on data on the page	on the	mpact	
		f environmenta	l socio-economic and biological deter	minar	inpact	
	r	naking immedi	ate suggestions for appropriate prevent	ive	113, 101	
	r	neasures	are suggestions for appropriate prevent			
		<u>6.</u>	Format and scope of the course			
Type of activ	vitv		Number of hours		Numb	per of groups
Lectures			10		1-4 fo	reigners
(full-time les	son)					
Workshops)		51		1-4 fo	reigners
(full-time les	son)					8
Self-studying			59		1-4 fo	reigners
(full-time les	son)					C
		7.	Topic and contents of the course			
Code of the		Торіс	Content of the studying	Lea	rning	Teacher
the classes				res	sults	
				C	ode	
L1	Acute re	spiratory	Definition, etiology, pathogenesis,	GC1	;	Associate
(lecture 1)	infection	is in children.	classification, classification,	C-1,		Professor.
	Acute br	onchitis in	diagnosis, differential diagnosis,	AR-	1;	Voznyak A.V.
	children	COVID-19	treatment	GC2	;	
	in childr	en.		GC3	; GC4	
	Pneumo	nia in				
	children.	1 (1 .				
L2 (lecture 2)	Bronchia	al asthma in	Definition, etiology, pathogenesis,	GCl	;	Associate
	children.	Drug allergy.	classification, classification,	C-1,	1.	Protessor.
	Dasics 0	remergency	treatment		ı; •	v oznyak A.V.
			i ireathrent	1 N IN / Z	-	1

			GC3; GC4	
L3 (lecture 3)	Inflammatory and non-inflammatory heart disease in children. Acute rheumatic fever in children.	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	GC1; C-1, AR-1; GC2; GC3; GC4	Associate Professor. Voznyak A.V.
L4 (lecture 4)	Functional and organic diseases of the digestive system in children.	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	GC1; C-1, AR-1; GC2; GC3; GC4	Associate Professor. Voznyak A.V.
L5 (lecture 5)	Diseases of the urinary system in children	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	GC1; C-1, AR-1; GC2; GC3; GC4	Associate Professor. Voznyak A.V.
W-1 (workshop 1)	Protein and energy deficiency in young children. Rickets. Hypervitaminosis "D"	Basis concepts of rational nutrition of healthy and sick infants. Definition, classification, clinical features, treatment and prevention of protein-energy deficiency in children.Etiology, pathogenesis, clinical manifestations, diagnosis, prevention hypervitaminosis D, emergency care and prognosis	PLR 1-6 PLR 11-14	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
W-2 (workshop 2)	The most common congenital heart defects in children	The etiology of the most common congenital heart defects in children. Classification of heart disease, hemodynamics in the most common congenital heart defects in children. Diagnosis of the most common congenital heart defects in children. Doctor's tactics and prognosis of the most common congenital heart defects in children. Treatment of heart failure. Secondary prevention of infective endocarditis	PLR 1-9; PLR 11-14	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
W-3 (workshop 3)	Acute bronchitis in children. Acute respiratory disease COVID-19 in children. Pneumonia in children	Definitions, etiology, pathogenesis, clinical manifestations, diagnosis, treatment, and prevention of acute nasopharyngitis, acute pharyngitis, acute laryngopharyngitis, acute tracheitis in children. Emergency care for acute laryngeal stenosis (croup), hyperthermia syndrome and seizures. Definition, etiology, pathogenesis, clinical manifestations, diagnosis, treatment and prevention of acute bronchitis, acute obstructive bronchitis, acute bronchiolitis in children.	PLR 1-6; PLR 9-14	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
W-4	Atopic march in	Definition, etiology,	PLR 1-9;	Associate

(workshop 4)	children. Food	pathogenesis, clinical	PLR 11-14	Professor.
	allergy. Allergic	manifestations, diagnosis,		Voznyak
	rhinitis in children	treatment, prevention of urticaria in		Andriy.
		children. Definition, classification,		Assistant of
		etiology, pathogenesis, clinical		Professor
		manifestations, diagnosis, treatment		Tutusa Andriy,
		and prevention of atopic dermatitis		-
		in children, prognosis. Definition,		
		classification, etiology,		
		pathogenesis, clinical		
		manifestations, diagnosis, treatment		
		and prevention of allergic rhinitis in		
		children, prognosis. Atopic March.		
W-5	Bronchial asthma in	Definition. Risk factors and	PLR 1-9;	Associate
(workshop 5)	children	pathophysiological mechanisms of	PLR 11-14	Professor.
		asthma. Classification, clinic		Voznyak
		manifestations, diagnosis, treatment		Andriy.
		and prevention of asthma in		Assistant of
		children, prognosis. Emergency		Professor
		care for asthma status		Tutusa Andriy,
W-6	Inflammatory and	Carditis and cardiomyopathies in	PLR 1-9;	Associate
(workshop 6)	non-inflammatory	children:	PLR 11-14	Professor.
	heart disease in	definition, classification, etiology,		Voznyak
	children. Cardiac	pathogenesis, clinical		Andriy.
	arrhythmias and	manifestations, diagnosis, treatment		Assistant of
	conduction disorders	and prognosis.		Professor
	in children			Tutusa Andriy,
W 7				A
(workshop 7)	Acute rneumatic	Definition, classification,	PLR 1-9;	Associate
(lever in children	manifestationa diamagia	PLK 11-14	Vozruali
		manifestations, diagnosis,		V OZNYAK
		treatment, primary and secondary		Andriy.
		prevention, prognosis.		Assistant of
				Tutuso Andriv
				Tutusa Anurry,
W-8	Iuvenile idionathic	Definition classification	PIR 1-0.	Associate
(workshop 8)	arthritis and reactive	etiology pathogenesis clinical	PLR 11-13	Professor
	arthritis in children	manifestations diagnosis		Voznyak
		treatment, primary and secondary		Andriv
		prevention, prognosis of juvenile		Assistant of
		rheumatoid arthritis. systemic lunus		Professor
		ervthematosus, systemic		Tutusa Andriv.
		dermatomyositis, systemic		<i></i>
		scleroderma, systemic vasculitis.		
W-9	Functional	Definition, classification.	PLR 1-9;	Associate
(workshop 9)	gastrointestinal	etiology, pathogenesis, clinical	PLR 11-13	Professor.
	disorders in children.	manifestations, diagnosis, treatment		Voznyak
		and prevention of functional		Andriy.
		dyspepsia, abdominal pain,		Assistant of
		gastroesophageal reflux,		Professor
		duodeno-gastric reflex.		Tutusa Andriy,
		Definition, etiology,		
		pathogenesis, clinical features,		

		diagnosis and treatment of irritable bowel syndrome, functional constipation. The clinic, diagnosis, treatment and prevention of dysfunction of the gallbladder and sphincter of Oddi.		
W-10 (workshop 10)	Organic diseases of digestive system in children	Definition, classification, etiology, pathogenesis, clinical manifestations, diagnosis, treatment, prevention of organic diseases (esophagitis, gastritis, duodenitis, gastric ulcer and 12 duodenal ulcer). Definition, etiology, pathogenesis, clinical features, diagnosis and treatment of irritable bowel syndrome, ulcerative colitis, Crohn's disease, prognosis.	PLR 1-5; PLR 9;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
W-11 (workshop 11)	Urinary tract infections in children	Definition, classification of urinary tract infections in children, differential diagnosis of lower and upper urinary tract. Etiology, pathogenesis, clinical manifestations, diagnosis, treatment, prevention and prognosis of cystitis in children. Definition, etiology, pathogenesis, classification, clinical features, diagnosis, treatment, prevention and prognosis of pyelonephritis in children.	PLR 1-6; PLR 11-14	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
W-12 (workshop 12)	Glomerulonephrit is in children. Metabolic nephropathies in chilsren. Acute and chronic renal failure in children.	Definition, classification, etiology, pathogenesis, clinical manifestations, diagnosis, treatment, prevention and prognosis of glomerulonephritis (acute and chronic) in children. Definition, classification, etiology, pathogenesis, clinical manifestations, diagnosis, treatment, prevention and prognosis metabolic nephropathies in children. Acute and chronic renal failure: risk factors, etiology, pathogenesis, disease stage, symptoms, diagnosis, treatment, prevention, prognosis.	PLR 1-6; PLR 11-14	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
W-13 (workshop 13)	Discussion of medical records.	Ability to issue in an appropriate way a medical history of an inpatient	PLR 1-6; PLR 11-13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,

SS1 (self-studying 1-13)	Preparation for practical classes	Ability to prepare for lessons	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
SS2 (self-studying 2)	Principles of feeding children during the first year of life	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
SS3 (self-studying 3)	Principles of feeding children during the first year of life	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
SS4 (self-studying 4)	Spasmophilia: clinical forms, diagnosis and treatment	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
SS5 (self-studying 5)	Acute respiratory infections in children. Croup in children. Bronchiolitis	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
SS6 (self-studying 6)	Congenital anomalies and chronic diseases of the respiratory system in children	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
SS7 (self-studying 7)	Drug allergy in children	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor

				Tutusa Andriy,
SS8 (self-studying 8)	Kawasaki disease: causes, symptoms, diagnosis and management	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
SS9 (self-studying 9)	Metabolic nephropathies in children	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
SS10 (self-studying 10)	Tubulopathies, interstitial nephritis, hereditary nephritis	Definition, etiology, pathogenesis, classification, classification, diagnosis, differential diagnosis, treatment	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,
SS11 (self-studying 11)	Writing of medical record	Ability to issue in an appropriate way a medical history of an inpatient	PLR 1-9; PLR 13;	Associate Professor. Voznyak Andriy. Assistant of Professor Tutusa Andriy,

The following teaching methods are used to develop skills:

- verbal/oral (lecture, explanation, story);
- 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

Regular control is carried out during the training sessions and is intended to verify the students' mastery of the educational material (it is necessary to describe the forms of the regular control during the training sessions). Forms of assessment of in-service training activities must be standardized and include the control of theoretical and practical training. The final grade for the in-service training is awarded on a 4-th grade (national) scale

The practical sessions in the Pediatrics module are structured and involve a comprehensive assessment of all types of learning activities (teaching assignments) that students undertake during the practical session:

- The student answers the tests (tests for the topic of the class, format A, not less than 10 pieces).
- Answers standardized questions, knowledge of which is necessary for understanding the current topic.
- Demonstrates knowledge and skill of the practical skills according to the topic of the practical exercise
- Solves a situational case study on 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.

Closely binds 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	Code of	Verifying learning outcomes	Enrollment criteria
results	the type	method	
code	of the		
	classes		
Kn-1-14,		The lecture material is tested in the	"5" - correct, clear logical answer to all
Sk-1-14;	L 1-6	practical sessions according to the	standardized questions of the current
C – 1-14	W 1-17	topics.	topic; correct performance of practical
AR -1-14	SS -1-22		skills of mastering the methods of
		The final control is carried out at each	examination of the patient; brief
		practical session.	interpretation of survey
			results; differential diagnosis.
		The initial stage - the answers to the	
		tests. In the first practical session tests	"4" - correctly and essentially answers
		verify the knowledge of pediatrics in the	all standardized questions of the
		disciplines of prerequisites.	current topic; demonstrates
			performance/knowledge of practical
		The main phase of the practicum	skills; differential diagnosis.
		involves working in the clinic	
		environment with the patient. The	"3" - incompletely, with the help of
		control of this stage is carried out by	additional questions, answers all
		means of the test by the test taker (skills	standardized questions of the current
		and abilities of the student in work with	topic; cannot independently build a
		the sick child, documentation,	clear, logical answer; makes mistakes
		interpretation of the results of the	when answering and
		examinations, etc.).	demonstrating practical skills.
		Final stage - solving a typical situational	"2" - does not know the material of the
		problem; summing up of the previous	current topic, can not formulate a
		stages; familiarization with the	logical answer, does not answer
		evaluations; assignment for the next	additional questions, does not
		session.	understand the content of the material;

		Self-study is performed by the student independently outside the classroom. It is evaluated on a summative basis.	makes significant, gross mistakes when answering and demonstrating practical skills.
			IW is assessed, in addition to taking into account in current classes, when it is performed or not at the end of each semester
Kn-1-14, Sk- 1-6; 11-14, C-1,3,5,12 AR-1-3,6-1 4	IW	Defense of Medical records - takes place during the last lesson after checking the compliance of writing history with the requirements in the form of an individual interview by the teacher and includes an obligatory individual discussion.	The medical record is written and defended without mistakes - grade "excellent"; insignificant mistakes in writing, which after the remarks are corrected by the student independently - a grade "good"; significant errors in writing and defense, or inability to justify their opinion grade "satisfactory"; the story is written with gross mistakes, without compliance and not defended - the grade is "unsatisfactory".
		Final control	
General eva system	luation	Participation in the work during the seme- on a 200-point scale	ster - 100%
Rating scale	S	traditional 4-point scale, multi-point (200	-point) scale, ECTS rating scale
Admission to	o final	The student attended all practical (laborat	ory, seminar) classes and
control		received at least 120 points for current pe	riormance
control Type of fina	l control	Methods of final control	Enrollment criteria
Control Type of fina Credit	l control	Methods of final control All topics for current control submitted. Grades from the 4-point scale are converted into points on a	Enrollment criteria The maximum number of points is 200. The minimum number of points is 120.
Control Type of fina Credit	l control	Methods of final controlAll topics for current controlsubmitted. Grades from the 4-point scaleare converted into points on amulti-point (200-point) scale inaccordance with the provision "Criteria,rules and procedures for evaluating themoulting of student learning submitties"	Enrollment criteria The maximum number of points is 200. The minimum number of points is 120
Control Type of fina Credit	l control	Methods of final controlAll topics for current controlsubmitted. Grades from the 4-point scaleare converted into points on amulti-point (200-point) scale inaccordance with the provision "Criteria,rules and procedures for evaluating theresults of student learning activities"	Enrollment criteria The maximum number of points is 200. The minimum number of points is 120
Control Type of fina Credit The calculati scale during places. Resul	l control on of points the study of ting value is	Methods of final controlAll topics for current controlsubmitted. Grades from the 4-point scaleare converted into points on amulti-point (200-point) scale inaccordance with the provision "Criteria,rules and procedures for evaluating theresults of student learning activities"is carried out based on the student's gradesthe discipline, by calculating the arithmetics converted into points according to multipoint	Enrollment criteria The maximum number of points is 200. The minimum number of points is 120 according to the 4-th grads (national) mean (AM) rounded up to two decimal point scale as follows: X =(CAx200) : 5
Control Type of fina Credit The calculati scale during places. Resul	l control on of points the study of ting value is	Methods of final control All 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 for evaluating the results of student learning activities" is carried out based on the student's grades the discipline, by calculating the arithmetic s converted into points according to multipoint 9. Course policy	Enrollment criteria The maximum number of points is 200. The minimum number of points is 120 according to the 4-th grads (national) e mean (AM) rounded up to two decimal point scale as follows: X =(CAx200) : 5
Control Type of fina Credit The calculati scale during to places. Result It is based on working acaded	l control on of points the study of ting value is the full imp demic debts	Intervention Methods of final control All 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 for evaluating the results of student learning activities" is carried out based on the student's grades the discipline, by calculating the arithmetic s converted into points according to multipoint 9. Course policy plementation of the curriculum of the cours up, performing independent tasks), academ	Enrollment criteriaThe maximum number of points is200.The minimum number of points is 120according to the 4-th grads (national)e mean (AM) rounded up to two decimalpoint scale as follows: $X = (CAx200) : 5$ e (attending lectures and workshops,ic integrity, lack of plagiarism.
Control Type of fina Credit The calculati scale during to places. Result It is based on working acade Observance of the servance of	l control on of points the study of ting value is the full implemic debts	Integrity by students:	Enrollment criteriaThe maximum number of points is200.The minimum number of points is 120a according to the 4-th grads (national)e mean (AM) rounded up to two decimalpoint scale as follows: $X = (CAx200) : 5$ e (attending lectures and workshops,tic integrity, lack of plagiarism.
Control Type of fina Credit The calculati scale during to places. Result It is based on working acade Observance of Independent	l control on of points the study of ting value is the full implemic debts of academic	Preceived at least 120 points for current per Methods of final control All 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 for evaluating the results of student learning activities" is carried out based on the student's grades the discipline, by calculating the arithmetic s converted into points according to multipo 9. Course policy plementation of the curriculum of the cours up, performing independent tasks), academ integrity by students:	Enrollment criteria The maximum number of points is 200. The minimum number of points is 120 according to the 4-th grads (national) mean (AM) rounded up to two decimal point scale as follows: $X = (CAx200) : 5$ e (attending lectures and workshops, ic integrity, lack of plagiarism. ent and final control of results:
Control Type of fina Credit The calculati scale during to places. Result It is based on working acade Observance of - Indep - Links	l control	Preceived at least 120 points for current per Methods of final control All 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 for evaluating the results of student learning activities" is carried out based on the student's grades the discipline, by calculating the arithmetic s converted into points according to multipo 9. Course policy plementation of the curriculum of the cours up, performing independent tasks), academ integrity by students: ormance of educational tasks, tasks of current of information in the case of the use of ideas	Enrollment criteriaThe maximum number of points is200.The minimum number of points is 120a according to the 4-th grads (national)mean (AM) rounded up to two decimalpoint scale as follows: $X = (CAx200) : 5$ e (attending lectures and workshops,tic integrity, lack of plagiarism.ent and final control of results;developments, statements, information;
Control Type of fina Credit The calculati scale during to places. Result It is based on working acade Observance of - Indep - Links - Observance of	l control on of points the study of ting value is the full implemic debts of academic pendent perfe- to sources of trvance of the	Preceived at least 120 points for current per Methods of final control All 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 for evaluating the results of student learning activities" is carried out based on the student's grades the discipline, by calculating the arithmetic s converted into points according to multipoint 9. Course policy plementation of the curriculum of the cours up, performing independent tasks), academ integrity by students: ormance of educational tasks, tasks of curree of information in the case of the use of ideas e legislation on copyright and related rights	Enrollment criteria The maximum number of points is 200. The minimum number of points is 120 according to the 4-th grads (national) mean (AM) rounded up to two decimal point scale as follows: $X = (CAx200) : 5$ e (attending lectures and workshops, ic integrity, lack of plagiarism. ent and final control of results; developments, statements, information; X .
Control Type of fina Credit The calculati scale during places. Resul It is based on working acad Observance of - Indep - Links - Obser - Provi	l control	Preceived at least 120 points for current per Methods of final control All 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 for evaluating the results of student learning activities" is carried out based on the student's grades the discipline, by calculating the arithmetic s converted into points according to multipoint 9. Course policy plementation of the curriculum of the cours up, performing independent tasks), academ integrity by students: ormance of educational tasks, tasks of current of information in the case of the use of ideas e legislation on copyright and related rights e information about the results of their own	Enrollment criteriaThe maximum number of points is200.The minimum number of points is 120a according to the 4-th grads (national)e mean (AM) rounded up to two decimalpoint scale as follows: $X = (CAx200) : 5$ e (attending lectures and workshops, tic integrity, lack of plagiarism.ent and final control of results; developments, statements, information; t.(scientific, creative) activities, used
control Type of fina Credit The calculati scale during t places. Result It is based on working acade Observance of - Indep - Links - Obser - Provi resear	l control on of points the study of ting value is the full implemic debts of academic bendent perfe- to sources of twance of the ding reliable rch methods	Preceived at least 120 points for current per Methods of final control All 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 for evaluating the results of student learning activities" is carried out based on the student's grades the discipline, by calculating the arithmetic s converted into points according to multipo 9. Course policy plementation of the curriculum of the cours up, performing independent tasks), academ integrity by students: ormance of educational tasks, tasks of current of information in the case of the use of ideas e legislation on copyright and related rights e information about the results of their own and sources of information.	Enrollment criteria The maximum number of points is 200. The minimum number of points is 120 according to the 4-th grads (national) mean (AM) rounded up to two decimal point scale as follows: $X = (CAx200) : 5$ e (attending lectures and workshops, ic integrity, lack of plagiarism. ent and final control of results; developments, statements, information; X . (scientific, creative) activities, used
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control Type of fina Credit The calculati scale during t places. Result It is based on working acad Observance of - Indep - Links - Obser - Provi reseat	l control on of points the study of ting value is the full implemic debts of academic bendent perfe- to sources of twance of the ding reliable rch methods	Preceived at least 120 points for current per Methods of final control All 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 for evaluating the results of student learning activities" is carried out based on the student's grades the discipline, by calculating the arithmetic sconverted into points according to multipote 9. Course policy Other provision of the curriculum of the cours up, performing independent tasks), academ integrity by students: ormance of educational tasks, tasks of curres of information in the case of the use of ideas is e legislation on copyright and related rights information about the results of their own and sources of information. 10. References	Enrollment criteria The maximum number of points is 200. The minimum number of points is 120 according to the 4-th grads (national) mean (AM) rounded up to two decimal point scale as follows: $X = (CAx200) : 5$ e (attending lectures and workshops, and final control of results; developments, statements, information; b. (scientific, creative) activities, used

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

- Training program of the discipline
- Plans of lectures, 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
- Clinical 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 №1 on the website of LNMU named after Danylo Halytsky: <u>http://misa.meduniv.lviv.ua/course/view.php?id=341</u>

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