Syllabus of the discipline "Pediatrics"			
individual profile course on choice: Obstetrics and gynecology			
1	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 3.3		
address on the website of Danylo	3.3.4.1 - PEDIATRICS		
Halytsky LNMU)			
Department (name, address,	Department of Pediatrics № 2, 79059, Lviv, Pylypa Orlyka str, 4, phone		
telephone number,	/ fax: +38 (032) 2938250; Kaf_pediatrics_2@meduniv.lviv.ua		
e-mail)			
Head of the department (contact	Prof. Lesya Besh +38 (032) 2938250 lesya.besh@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	Sergiy Gerasymov, M.D., Ph.D., Associate Professor,		
	dr.gerasimov@gmail.com		
	Oksana Matsyura M.D., Ph.D., Associate Professor,		
	omatsyura@gmail.com		
	Dmytro Dobryansky, M.D, Professor,		
	dmytro_d@hotmail.com		
Erasmus yes\no	No		
The person responsible for the	Sergiy Gerasymov, Ph.D., Associate Professor		
syllabus	(dr.gerasimov@gmail.com)		
Number of credits ECTS	6		
Number of hours (lectures/	90 (0 - lectures/ 90 - practical classes/ 90 - independent work)		
practical classes/ independent			
work of students)			
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: +38 032 2931888		
work regulations of the clinical	"Western Ukrainian Specialized Children's Medical Center" tel: +38 032		
base	2702207		

2. Short annotation to the course

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

Studying the discipline "Pediatrics" the 6th year-students consolidate knowledge gained in the classroom at the department of Propaedeutic Pediatrics and the Department of Pediatrics. They are mastering basic skills of collecting anamnesis, conducting a physical examination, systemizing the symptoms in syndromes, planning examination of a sick child, interpretation of laboratory and instrumental examinations, carrying out a differential diagnosis most common diseases of the neonatal period and childhood, determination of the preliminary clinical diagnosis, determination of therapeutic tactics, comprehensive treatment with drug dosages administration, emergency medical care not only in typical but also in complex clinical situations. The 6th year students are solving complex (atypical) clinical cases, working off practical skills on mannequins and near the bed of a sick child, feeling in the 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. <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 newborn 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 newborn 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);
- Assign the appropriate therapeutic nutrition (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 newborn children (SC7; PLR14)
- Provide emergency medical care based on an emergency diagnosis (SC7; PLR14)
- Perform medical manipulations (SC10)

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)
- 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 (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
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Specia	al (Professional):
SĈ1	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
	1 10 1

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

scientific results

- 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.

Learning	The scope of the learning results	Reference to the
results code	2.1.0 500 Pt 02 01.0 101.111.1g 2 050015	code of the
7D1 1 :		competence matrix
The code is	Learning outcomes determine what the student must know,	The symbol of the
created when	understand and be able to perform, after completing the discipline in	code of the program
the syllabus is	accordance with the learning objectives.	learning results in the Standard of
filling	To enroll in the discipline, it is necessary to confirm the achievement of each learning result.	
(category: Kn -	achievement of each learning result.	Higher Education
Knowledge, Sk- Skill,		
C-Competence,		
AR - Autonomy		
and		
Responsibility		
Kn-1	Have a knowledge of the structure of professional activity.	PLR1
Sk- 1	Be able to carry out professional activities that require updating and	
JK- I	integration of knowledge.	
C-1	To be responsible for professional development, ability to further	
AR -1	professional training with a high level of autonomy.	
Kn- 2	Have knowledge in pharmacology, biochemistry, physiology,	PLR2
1111-2	pathology, microbiology, pediatric nursing, pediatric propedeutics	1 1/11/2
Sk- 2	Be able to make systematic physical examination	
SK- Z	be able to make systematic physical examination	
C-2	Be able to make preliminary and differential diagnosis	
AR -2	Be responsible for provision of quality standard care in pediatric	
AK -2	diseases	
Kn- 3	Specialized conceptual knowledge, which includes scientific	PLR3
	achievements in the field of health care and is the basis for research,	ILIKS
Sk- 3	critical understanding of problems in the field of medicine and	
	related interdisciplinary problems.	
C-3	Be able to apply current scientific advances in medical practice	
AR -3		
Kn- 4	Know the diagnostic algorithms for diseases; algorithms for	PLR4
	discrimination of major symptoms or syndromes; make preliminary	
	and final diagnoses; methods	
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	
C-4	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	
<i>Kn-5</i>	Demonstrate knowledge about child's body, anatomical and	PLR5
	physiological peculiarities of child's organs and systems at different	
	ages, know the standard methods of interview, able to compile a	
	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.	

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	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	
	documentation.	
AR-5	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	
Kn-6	child and for taking appropriate measures.	PLR6
Sk-6	Know similar and different features of major pediatric diseases Establish a final clinical diagnosis by making an informed decision	LLKU
C-6	and analysis of the obtained subjective and objective data of	
C-0	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.	
Kn-7	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	
G 7	Create a list and inform the patient and/or his/her parents (care	
C-7	givers), experts about conclusions concerning the necessary list of	
	laboratory and instrumental tests Be responsible for the decision concerning the evaluation of	
AR -7	laboratory and instrumental examinations results	
Kn-8	Know the nature and principles of treatment of patients	PLR9
Kn-o	(conservative, operative), taking into account the age of the patient,	LK
Sk- 8	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	
C-8	standard schemes.	
	Be able to expand the standard scheme and justify personalized	
4.00	recommendations under the supervision of a physician.	
AR -9	Very the system of hygicals and massarting and mass	DI D10
Kn-10	Know the system of hygienic and preventive measures among the	PLR10
	population observed. Know the principles of organization of follow- up of different groups of population, who are subject to supervision	
	(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	
G 10	and methods of promoting healthy lifestyles	
C - 10	Based on the results of follow-up and analysis of children's health,	
	and environment know the principles of submitting analytical information to local government and health authorities to eliminate	
	I mnormation to local government and health authorities to eliminate	
	harmful effects on children's health.	

AR - 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.	
Kn - 12	Know criteria for assessment of the general condition of the newborn child. Know modern algorithms and standard schemes in neonatology. Be aware of ethical and legal issues in neonatology.	PLR12
Sk - 12	Perform physical examination of a newborn	
C - 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.	
AR - 12	Be responsive for quality care in for newborn	
Kn - 13	Know monitoring of child's development, provide recommendations for breastfeeding and nutrition depending on age, management of preventive vaccinations	PLR13
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 emergencies	PLR14
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 manipulations.	PLR17
Sk - 17	Be able to carry out medical manipulations	
C - 17	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 duration of disability with the registration of relevant documents at	PLR18
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	
AR - 18	contingent of the population on the basis of regulatory documents. Be responsible for protection of private medical information	
Kn - 20	Know principles of epidemiology and epi-/pandemic disease prevention strategies	PLR20
Sk - 20	Be able to analyze the epidemiological condition and take measures	
C - 20	of mass and individual, general and local prevention of infectious diseases.	
AR - 20	Be responsible for the local disease prevention	
Kn - 21	Know major information paid and free resources on the internet, copyright rules, and rules of electronic access	PLR21
Sk - 21 C - 21	Be able to search for the necessary information in the professional literature and databases, analyze, evaluate and apply this	

	information			<u> </u>
AD 21	information Page responsible for	sharing updated professional info	amation with	
AR - 21	-	ormanon with		
Kn - 24	colleagues	sional hashbanatastian massanna		PLR24
Kn - 24	_	sional health protection measures te the necessary level of individua	1 gafaty (ayyn	PLK24
Sk - 24		n the event of typical dangerous sit	• '	
C - 24	individual field of a	tuations in the		
C - 24		personal and patient safety.		
AR - 24	De responsible for	personal and patient safety.		
Kn - 25	Know principles	of logical thinking and maki	ng informed	PLR25
Kn - 23		ial vs non-essential information	ing informed	
Sk - 25	Ability to make an			
C - 25	-	I produce competency toward clea	_	
AR - 25	statements	i produce competency toward elea	professionar	
Kn - 29		gy of the most common infecti	ous diseases	PLR29
Kn - 27		ble diseases, national schedule for		
Sk - 29	children of various		vaccination of	
C - 29		sible to plan, organize and conduct	t activities for	
AR - 29		vention of infectious diseases,		
		e National Calendar of preventive	_	
		and recommended. Manage vacc		
	organize addition			
	immunoprophylaxi	1 0	meraamg	
	6.	Format and scope of the course	e	
Type of		Number of hours		Number of groups
activity		rumber of hours		Transcr or groups
Lectures (full-		0		_
time lesson)		· ·		
Workshops		90		x (foreigners)
(full-time		70		A (Toreigners)
lesson)				
Self-studying		90		x (foreigners)
(full-time				(8)
lesson)				
,	7.			
Code of the	Topic	Topics and content of the cours Content of the studying	Learning	Teacher
type of the	1	, , , , , , , , , , , , , , , , , , ,	results code	
classes				
W-1	Medical care for	Organization of neonatal	PLR 2, 4-7,	Dmytro
(workshop 1)	healthy newborn	medical care for a healthy	14, 17,	Dobryanskyy
•	in the maternity	newborn. Care in the maternity	21,27	
	hospital.	hospital. The infant feeding.		
		Hospital discharge criteria. The		
		transitional conditions. Doctor's		
		tactics		
W-2	Neonatal	Differential diagnosis of	PLR 2, 4-7,	Dmytro
(workshop 2)	asphyxia and	14, 17,	Dobryanskyy	
	perinatal injury of	asphyxia, central nervous system lesions in newborns. Prevention.	21,27	
	the central	Principles of treatment.		
	nervous system:	Prognosis.		
	prevention,			
	differential			
	diagnosis and			
	principles of			
	treatment.			
W-3	Resuscitation of a	Indications for resuscitation.	PLR 2, 4-7,	Dmytro

(workshop 2)	nawhorn	Racio principles of newborn	1/ 17	Dobryonskyy
(workshop 3)	newborn	Basic principles of newborn resuscitation. Initial and	14, 17, 21,27	Dobryanskyy,
		subsequent steps of neonatal	~ 1 ,	
		resuscitation.		
W-4	Differential	Differential diagnosis of the	PLR 2, 4-7,	Dmytro
(workshop 4)	diagnosis of the	birth traumas in newborns.	14, 17,	Dobryanskyy
	most common	Principles of treatment.	21,27	
	birth traumas in	Prognosis.		
	newborns.			
W-5	Nursing of	Features of postnatal adaptation	PLR 2, 4-7,	Dmytro
(workshop 5)	premature and	of preterm infants. Principles of	14, 17,	Dobryanskyy
	low-birth weight	preterm infant's nursing in the	21,27	
	babies. Modern priorities.	maternity and secondary-care hospitals.		
	priorities.	Intrauterine growth retardation		
		(IUGR): causes, postnatal		
		diagnosis, treatment and		
		prevention. Disadaptation		
		syndromes in preterm infants.		
		The feeding peculiarities of		
		premature infants. Medical care		
		for major emergencies in		
		premature infants: respiratory		
		failure, intestinal paresis,		
		hyperbilirubinemia,		
W-6	Differential	hypoglycemia. Differential diagnosis Modern	DI D 2 4 7	Dmytro
(workshop 6)	diagnosis and	Differential diagnosis. Modern approaches to the treatment of	PLR 2, 4-7, 14, 17,	Dmytro Dobryanskyy
(workshop o)	treatment of lung	lung diseases in newborns	21,27	Dooryaliskyy
	diseases in	Prevention.	-1,-1	
	newborns.	- ·		
W-7	Intrauterine and	Differential diagnosis of	PLR 2, 4-7,	Dmytro
(workshop 7)	perinatal	intrauterine and perinatal	14, 17,	Dobryanskyy
	infections in	infections in newborns,	21,27	
	newborns:	treatment, prevention, prognosis.		
	differential	Perinatal HIV-infection.		
	diagnosis,	Purulent inflammatory diseases		
	treatment and	of the skin and subcutaneous		
	prevention.	tissue, diseases of the umbilical cord stump and umbilical		
		vessels: differential diagnosis,		
		treatment, prevention, prognosis.		
		Neonatal sepsis: differential		
		diagnosis, treatment, prevention,		
		prognosis		
W-8	Differential	Differential diagnosis.	PLR 2, 4-7,	Dmytro
(workshop 8)	diagnosis of	Treatment. Prevention.	14, 17,	Dobryanskyy
	jaundice in	Prognosis. Features of	21,27	
	newborns.	hyperbilirubinemia in premature		
11 1.0	Dicc. (1.1	and underweight infants.	DI D 2 4 7	G:
W-9	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Sergiy Gerasymov
(workshop 9)	diagnosis of	syndromes in different clinical	14, 17,	Oksana Matsyura
	pneumonia in children. Acute	variants of pneumonia in children. Results of laboratory	21,27	
	respiratory	and instrumental studies in		
	disease COVID-	different clinical variants of		
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	10: 111	. 5:00		
	19 in children.	pneumonia. Differential		
	Current aspects of	diagnosis of pneumonia,		
	treatment.	bronchitis, and bronchiolitis in		
	Complications of	children. Making a preliminary		
	pneumonia	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-10	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Sergiy Gerasymov
				•
(workshop 10)	diagnosis of	syndromes in bronchial asthma,	14, 17,	Oksana Matsyura
	bronchial	bronchiolitis and acute	21,27	
	obstruction in	obstructive bronchitis in		
	children.	children. Peculiarities of asthma		
	Differential	in children, depending on the		
	approach of	severity and level of control.		
	bronchial	Results of laboratory and		
	obstruction in	instrumental studies in bronchial		
	children	asthma, bronchiolitis and acute		
		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		
		obstructive syndrome and its		
		complications in children.		
		Providing emergency assistance		
		in an asthma attack and status		
		asthmaticus. Prevention of		
		asthma and bronchial		
		obstruction syndrome against		
		acute respiratory infections in		
	7100	children of all ages.		
W-11	Differential	Differential diagnosis of	PLR 2, 4-7,	Sergiy Gerasymov
(workshop 11)	diagnosis of	myocarditis, endocarditis,	14, 17,	Oksana Matsyura
	inflammatory and	pericarditis, cardiomyopathy,	21,27	
	non-inflammatory	congenital and acquired heart		
	disease of the	defects in children. Prevention		
	heart in children.	and treatment of chronic heart		
	Treatment of	failure.		
	chronic heart			
	failure in			
	children.			
W-12	Differential	The most important clinical	PLR 2, 4-7,	Sergiy Gerasymov
(workshop 12)	diagnosis of	symptoms and syndromes in	14, 17,	Oksana Matsyura
(oznanop 12)	functional and	children with functional and	21,27	
	organic disorders	organic gastrointestinal	,-,	
	of the digestive	disorders. Clinical - instrumental		
İ	or the digestive	disorders. Chinear - mstrumental		i

	T		T	
	system in	investigations and differential		
	children.	diagnosis. Clinical management		
		of children with functional and		
		organic diseases of the digestive		
		system.		
W-13	Food and drug	Leading clinical symptoms of	PLR 2, 4-7,	Sergiy Gerasymov
(workshop 13)	allergy in children	food and drug allergies in	14, 17,	Oksana Matsyura
		children. Diagnostic algorithm:	21,27	
		laboratory and instrumental		
		methods of examination,		
		consultations. Clinical		
		management of children with		
		food and drug allergies.		
		Providing emergency care for		
		hives, anaphylactic shock.		
W-14	Differential	Leading clinical	PLR 2, 4-7,	Sergiy Gerasymov
(workshop 14)	diagnosis of the	symptoms and syndromes in	14, 17,	Oksana Matsyura
	diseases of	inflammatory diseases of the	21,27	
	urinary system in	urinary system (urinary system		
	children.	infections, urethritis, cystitis,		
	Emergency care	pyelonephritis) dysmetabolic		
	in acute renal	nephropathy, hereditary		
	failure.	tubulopathy. The results of the		
		laboratory and instrumental		
		tests. 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. Clinical and		
		morphological variants of		
		primary glomerulonephritis in		
		children. Differential diagnosis		
		of acute post-streptococcal		
		glomerulonephritis with		
		hereditary Alport nephritis,		
		rapidly progressive glomerulonephritis, Berger's		
		disease. Nephrotic syndrome in		
		children: Differential diagnosis,		
		complications. Clinical variants of chronic glomerulonephritis in		
		children. Indications for renal		
		biopsy in children. Clinical		
		management of the sick child in		
		management of the sick child in	l	

		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, Acute and chronic renal failure. Treatment approach. Prevention of progression of chronic renal failure.		
W-15 (workshop 15)	Medical supervision of children in the first three years of life in the polyclinic setting.	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 of children up to three years.	PLR 2, 4-7, 14, 17, 21,27	Sergiy Gerasymov Oksana Matsyura
SS1 (self-studying 1)	Seizures in newborns: differential diagnosis and principles of treatment.	Causes of neonatal seizures, clinical symptoms, diagnostic search, therapeutic approach.	PLR 2, 4-7, 14, 17, 21,27	Dmytro Dobryanskyy
SS2 (self-studying 2)	Creating an optimal environment for the care of premature children. The Kangaroo method is a family-oriented assistance.	Practical aspects of the introduction of the Kangaroo method, the advantages of the method, its main components.	PLR 2, 4-7, 14, 17, 21,27	Dmytro Dobryanskyy
SS3 (self-studying 3)	Methods of respiratory support of newborns.	Contemporary recommendations for respiratory support of newborns.	PLR 2, 4-7, 14, 17, 21,27	Dmytro Dobryanskyy
SS4 (self-studying 4)	The most common congenital anomalies in newborns:	Congenital abnormalities of respiratory, digestive and urinary systems in newborns. Teratomas and other formations.	PLR 2, 4-7, 14, 17, 21,27	Dmytro Dobryanskyy

	differential	Differential diaments the ment		
	diagnosis and	Differential diagnosis, the most		
	principles of	optimal postpartum care. Multidisciplinary approaches to		
	treatment	treatment.		
SS5	Critical congenital	Modern opportunities of prenatal	PLR 2, 4-7,	Dmytro
(self-studying 5)	heart defects -	and early postnatal diagnosis of	14, 17,	Dobryanskyy
	diagnosis and	critical heart defects. Methods of	21,27	Dooryunskyy
	management.	correction, prognosis.	21,27	
SS6	Peculiarities of	Specific medical problems that	PLR 2, 4-7,	Dmytro
(self-studying 6)	medical care for	can occur in newborns from	14, 17,	Dobryanskyy
	newborns born	multiple pregnancies.	21,27	
	from multiple	Significance of zygosity and		
	pregnancies.	chorionicity. Intrauterine growth		
		discordance, feto-fetal (or twin-		
		to-twin) transfusion syndrome,		
		anemia-polycythemia sequence,		
		developmental abnormalities		
		associated with multiple births.		
		Differential diagnosis, postpartum care approaches,		
		postpartum care approaches, prognosis.		
SS7	Therapeutic	Current recommendations for	PLR 2, 4-7,	Dmytro
(self-studying 7)	hypothermia (types	the use of therapeutic	14, 17,	Dobryanskyy
	of therapeutic	hypothermia (LH). The	21,27	
	hypothermia,	protocols of LH in neonatal care		
	indications and contraindications,	facilities with multidisciplinary		
	methods,	care teams and the availability of		
	monitoring of the	resources for close monitoring		
	patient during	and treatment.		
	therapeutic			
	hypothermia, complications).			
SS8	Modern aspects of	The standard of medical care	PLR 2, 4-7,	Dmytro
(self-studying 8)	HIV prevention in	"Prevention of HIV transmission	14, 17,	Dobryanskyy
, , ,	newborns.	from mother to child". Antenatal	21,27	Dooryunskyy
		fetus; pre-test and post-test	,_	
		counseling; examination of		
		pregnant women for HIV;		
		antiretroviral prevention and		
		treatment of pregnant women,		
		maternity, woman in childbirth		
		and newborn; safe childbirth,		
		newborn examination; safe		
		feeding.		
SS9	Current aspects in	Therapeutic range of antibiotic	PLR 2, 4-7,	Sergiy Gerasymov
(self-studying 9)	antibiotic therapy	therapy. Types of antibacterial	14, 17,	Oksana Matsyura
	in children.	drugs. Types of antibiotic action	21,27	,
		modes. Pharmacokinetics,	·	
		pharmacodynamics. Age-		
		specific indications and		
		contraindications and		
0010	Dice of 1	concomitant pathology.	DI D 2 4 7	g · G
SS10 (self-studying 10)	Differential diagnosis of	Cystic fibrosis, idiopathic	PLR 2, 4-7,	Sergiy Gerasymov
(Sen-studying 10)	hereditary,	pulmonary hemosiderosis,	14, 17,	Oksana Matsyura
	moreatury,	primary cilia dyskinesia, a	21,27	

		T	T	
	congenital, and chronic broncho-pulmonary disease in children.	syndrome of Wilms Campbell bronchomalacia, aplasia and hypoplasia of the lungs, α1-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		
agus	Digg	chronic, hereditary, and congenital bronchopulmonary disease in children. Management. Prevention.		
SS11 (self-studying 11)	Differential diagnosis of systemic connective tissue disease and systemic vasculitis in children.	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 and systemic connective tissue diseases 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 secondary prevention of acute rheumatic fever in children.	PLR 2, 4-7, 14, 17, 21,27	Sergiy Gerasymov Oksana Matsyura
SS12 (self-studying 12)	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, 4-7, 14, 17, 21,27	Sergiy Gerasymov Oksana Matsyura
SS13 (self-studying 13)	Helminthiasis in children.	The state of the art in helminthiasis in children. Prevalence, polymorphism of clinical manifestations. Modern opportunities for diagnosis. Management.	PLR 2, 4-7, 14, 17, 21,27	Sergiy Gerasymov Oksana Matsyura
SS14 (self-studying 14)	Anomalies of the urinary system	Anomalies of development of the urinary system, which lead	PLR 2, 4-7, 14, 17,	

	accompanied by pathologic urodynamics in children.	to impaired urodynamics and cause urinary retention. Complications, timely diagnosis and management.	21,27	
SS15 (self-studying 15)	Nutrition of children of the first 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.	14, 17,	Sergiy Gerasymov Oksana Matsyura

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.

The student answers 10 MCQs (devoted to the topic of the lesson, format A). Right answers:

for 10-9 MCQs = 5 points; by 8-7 MCQs = 4 points; 6-5 MCQs = 3 points; 4 or less MCQs = 0 points.

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.

Learning results code	Code of the type of the classes	Verifying learning outcomes method	Enrollment criteria
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 1-15 SS -1-18	Mastering of 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 students the task for independent work, points the key questions of the next topic and offers a list of recommended literature for self-study. Independent work (IW) is performed by the student independently out of the classroom and evaluated overall.	Initial stage: 10-9 MCQs = 5 points: by 8-7 MCQs = 4 points: 6-5 MCQs = 3 points: 4 or less MCQs = 0 points. Main stage: It is rated with 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 demonstrating practical skills. "2" - does not know the material of the current topic, can not formulate a logical answer, does not answer additional questions, does not understand the content of the material; makes significant, gross mistakes when answering and demonstrating practical skills. IW is assessed, in addition to considering in addition to cons

		current classes, when it is performed or not at the					
	T2:141	end of each semester					
	Final control						
General evaluation system	Participation in the work during the semester / credit						
	on a 200-point scale						
Rating scales	traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale						
Admission to final control	The student attended all practical (laboratory, seminar) classes and received at least 120 points for current performance						
Type of final control	Methods of final control	Enrollment criteria					
Credit	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	200. 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.

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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: Kaf_pediatrics_2@meduniv.lviv.ua

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 №2" on the website of LNMU named after Danylo Halytsky: http://misa.meduniv.lviv.ua/login/index.php

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.

The person responsible for the syllabus Gerasymov SV, Ph.D., Associate Professor
Head of the Department Besh L.V., Doctor of Science, Professor