Discussed and approved at the methodological meeting of the Department of Pediatrics No 1 Protocol No. 1 of "\_30\_" \_08\_ 2023. Head of Department

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# SYLLABUS FOR THE ACADEMIC DISCIPLINE

"Pediatrics" individual profile course on choice: Surgery

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 (e-mail	EB – 3.1		
address on the website of Danylo	3.1.3.1 PAEDIATRICS		
Halytsky LNMU)			
Department (name, address,	Department of Pediatrics № 1, 79059, Lviv, Pylypa Orlyka str, 4,		
telephone number,			
e-mail)			
Head of the department (contact	Prof. Nyankovsky S.L. :+38(032)2917851; nianksl@gmail.com		
e-mail)			
Studying year	6th		
Semester	11-12		
Type of discipline / module	an obligatory component of the educational and professional training		
	program		
Teachers	Voznyak Andriy, Ph.D., Associate Professor <u>likar.voznjak@gmail.com</u>		
	Tutusa Andriy, Assistant of Professor		
	a.tytusa@gmail.com		
	Furtak Roksolana, Assistant of Professor		
	ljanaf@gmail.com		
Erasmus yes\no	No		
The person responsible for the	Voznyak Andriy, Ph.D., Associate Professor likar.voznjak@gmail.com		
syllabus			
	6		
syllabus			
syllabus Number of credits ECTS	6		
syllabus Number of credits ECTS Number of hours (lectures/	6		
syllabus Number of credits ECTS Number of hours (lectures/ practical classes/ independent work of students) Language of study	6		
syllabus Number of credits ECTS Number of hours (lectures/ practical classes/ independent work of students)	6 180 (0 - lectures/ 90 - practical classes/ 90 - independent work)		
syllabus Number of credits ECTS Number of hours (lectures/ practical classes/ independent work of students) Language of study	6 180 (0 - lectures/ 90 - practical classes/ 90 - independent work) English		
syllabus Number of credits ECTS Number of hours (lectures/ practical classes/ independent work of students) Language of study Information about consultations	6 180 (0 - lectures/ 90 - practical classes/ 90 - independent work)  English According to the schedule during the academic year		

### 2. Short annotation to the course

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

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

# 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. The objectives of the course is to develop students' knowledge of principles of differential diagnosis of the most common diseases in children, backup knowledge of newborn resuscitation, observation of the child at outpatient department, integrated management of childhood illnesses, and algorithms in pediatric coma and lymphoproliferative syndromes.

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

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

- Collect and analyze patient complaint data, medical history, life history according to according to established algorithms and evaluate the results of physical examination in the most common diseases of young and older children (SC1; PLR5) (SC Special Competency, PLR Program Learning Results)
- Identify the principal clinical symptom or syndrome for differential diagnosis. Make the preliminary and clinical and differential diagnosis (SC3; PLR4);
- Make the plan of investigation (laboratory, instrumental) of a sick child, interpret their results (SC2; PLR2);
- Develop management in metabolic and lymphoproliferative syndromes. (SC4; PLR5)
- Assign the appropriate therapeutic nutrition in the treatment of intestinal, hepatic, pancreatic and nephrological pathology (SC5; PLR10)
- Determine the principles of treatment (SC6; PLR14)
- Define the tactics of emergency medical care based on the diagnosis of emergency of the most common diseases of children (SC7; PLR14)
- Provide emergency medical care based on an emergency diagnosis (SC7; PLR14)
- Perform medical manipulations (SC10)
- Implement a complex of anti-epidemic and preventive measures within the primary health care. (SC13; PLR29)

### The student should have the ability to:

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

#### The student should demonstrate:

- Certainty and perseverance on the tasks and responsibilities (GC 12)
- Awareness of equal opportunities and gender issues (GC 13)
- 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

### Special (Professional):

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

# 4. Prerequisites of the course

Information on the disciplines, basic knowledge and learning results required for successful study and

acquisition of competencies in this discipline is indicated.

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

### 5. Program learning results (PLR)

- PLR 1. Have a thorough knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integration of knowledge. To be responsible for professional development, ability to further professional training with a high level of autonomy.
- PLR 2. Understanding and knowledge of basic and clinical biomedical sciences, at a level sufficient to solve professional problems in the field of health care.
- PLR 3. Specialized conceptual knowledge, which includes scientific achievements in the field of health care and is the basis for research, critical understanding of problems in the field of medicine and related interdisciplinary problems.
- PLR 4. Identify and identify the leading clinical symptoms and syndromes; according to standard methods, using preliminary data of the patient's anamnesis, data of the patient's examination, knowledge about the person, his organs and systems, to establish a preliminary clinical diagnosis of the disease.
- PLR 5. Collect complaints, life history and disease, assess the psychomotor and physical development of the patient, the state of organs and systems of the body, based on the results of laboratory and instrumental studies to assess information about the diagnosis, taking into account the patient's age.
- PLR 6. Establish a final clinical diagnosis by making an informed decision and analysis of the obtained subjective and objective data of clinical, additional examination, differential diagnosis, adhering to the relevant ethical and legal norms, under the supervision of a physician-manager in a health care institution.
- PLR 7. Order and analyze additional (mandatory and optional) examination methods (laboratory, functional and / or instrumental) for differential diagnosis of diseases.
- PLR 9. To determine the nature and principles of treatment of patients (conservative, operative), taking into account the age of the patient, in a health care facility, outside it and at the stages of medical evacuation, including in the field, on the basis of a preliminary clinical diagnosis, adhering to the relevant ethical and legal norms, by making an informed decision on existing algorithms and standard schemes. If necessary to expand the standard scheme and justify personalized recommendations under the supervision of a physician.
- PLR 10. To determine the necessary mode of work, rest and nutrition based on the final clinical diagnosis, adhering to the relevant ethical and legal norms, by making an informed decision according to existing algorithms and standard schemes.
- PLR 12. Assess the general condition of the newborn child by making an informed decision according to existing algorithms and standard schemes, adhering to the relevant ethical and legal norms.
- PLR 13. Assess and monitor the child's development, provide recommendations for breastfeeding and nutrition depending on age, organize preventive vaccinations on the calendar.
- PLR 14. Define tactics and provide emergency medical care in emergencies for a limited time in accordance with existing clinical protocols and treatment standards.
- PLR 17. Perform medical manipulations in a medical institution, at home or at work based on a previous clinical diagnosis and / or indicators of the patient's condition by making an informed decision, adhering to the relevant ethical and legal norms.
- PLR 18. Evaluate the state of functioning and restrictions of life of the person and the duration of disability with the registration of relevant documents at health care institution on the basis of data on illness and its course, features of human professional activity, etc. Keep a medical document on the patient and a certain contingent of the population on the basis of regulatory documents.
- PLR 20. Analyze the epidemiological condition and take measures of mass and individual, general and local prevention of infectious diseases.

- PLR 21. Search for the necessary information in the professional literature and databases of other sources, analyze, evaluate and apply this information.
- PLR 24. Organize the necessary level of individual safety (own and care persons) in the event of typical dangerous situations in the individual field of activity.
- PLR 25. Clearly and unambiguously communicate knowledge, conclusions and arguments on health issues and related issues to professionals and non-specialists.
- PLR 29. Plan, organize and conduct activities for the specific prevention of infectious diseases, including in accordance with the National Calendar of preventive vaccinations, both mandatory and recommended. Manage vaccine residues; organize additional vaccination campaigns, including immune-prophylaxis measures.

measures.					
6.0 List of 1	6.0 List of learning results				
Learning results code	The scope of the learning results	Reference to the code of the competence matrix			
The code is	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			
filling	To enroll in the discipline, it is necessary to confirm the	the Standard of			
(category:	achievement of each learning result.	Higher Education			
Kn -					
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	LICI			
	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			
	pathology, microbiology, pediatric nursing, pediatric propedeutics				
Sk- 2	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				
<i>Kn- 3</i>	diseases	DI D2			
<i>Μn</i> - 3	Specialized conceptual knowledge, which includes scientific achievements in the field of health care and is the basis for research,	PLR3			
Sk- 3	critical understanding of problems in the field of medicine and				
SK- S	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				
1D 4	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				
1	Imai cilineal diagnosis accuracy				

Kn-5	Demonstrate knowledge about child's body, anatomical and physiological peculiarities of child's organs and systems at different ages, know the standard methods of interview, able to compile a pedigree, perform physical examination, know stages and methods of examination of psychomotor and physical development of the child.	PLR5
Sk-5	To be able to talk to a child-and/or her parents (guardians), based on algorithms and standards. Use the principles of communication with the parents of children. Using standard techniques to carry out physical examination of a patient. Be able to examine psychomotor and physical development of the child.  Able to assess the quality of care and feeding of infants and nutrition of children. Be able to conduct a comprehensive assessment of child health.	
C-5	Communicate effectively with patient and/or his parents (care givers).  Transfer information about the child health to the relevant medical 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 child and for taking appropriate measures.	
Kn-6	Know similar and different features of major pediatric diseases	PLR6
Sk-6	Establish a final clinical diagnosis by making an informed decision	
C-6	and analysis of the obtained subjective and objective data of	
AR-6	clinical, additional examination, differential diagnosis, adhering to 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
Sk- 7	Be able to assign an appropriate laboratory and instrumental examination of the patient by applying standard techniques, analyze the results of examination (laboratory and instrumental) and make preliminary diagnosis	
C-7 AR -7	Create a list and inform the patient and/or his/her parents (care givers), experts about conclusions concerning the necessary list of laboratory and instrumental tests  Be responsible for the decision concerning the evaluation of laboratory and instrumental examinations results	
Kn-9	Know the nature and principles of treatment of patients	PLR9
Sk- 9	(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	
C-9 AR -9	clinical diagnosis, adhering to the relevant ethical and legal norms, by making an informed decision on existing algorithms and standard schemes.  Be able to expand the standard scheme and justify personalized recommendations under the supervision of a physician.	
Kn – 10	Know the system of hygienic and preventive measures among the population observed. Know the principles of organization of follow-up of different groups of population, who are subject to supervision (newborns, children, teenagers).	PLR10
Sk - 10	Be able to setup groups of children for follow-up. Be able to plan	

C - 10 AR - 10	follow-up for different age groups. Know indicators for efficiency of follow-up and rules of the reporting to the health authorities. Know the methodical approaches to assess the environment for pollution and the presence of factors which affect the health of the population in this environment. Know principle of rational nutrition, water supply, mode of activity and rest, forming a favorable work environment, primary prevention of diseases and injuries; Principles and methods of promoting healthy lifestyles  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 harmful effects on children's health.  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	
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		
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	DI D 12
Kn - 13	Know monitoring of child's development, provide recommendations for breastfeeding and nutrition depending on age, management of	PLR13
Sk - 13	preventive vaccinations  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	
C - 14	emergency conditions in children.  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 C - 17	Be able to carry out medical manipulations Formulate and inform the patient, and/or his parents (care givers) regarding the need for medical manipulations	
AR - 17	Be responsible for the quality of medical manipulations	
Kn - 18	Know functioning and restrictions of life of the person and the	PLR18
Sk - 18 C - 18	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.	
	Be able to keep a medical document on the patient and a certain	

	T			1
AR - 18		opulation on the basis of regulatory		
	Be responsible for	protection of private medical inform	nation	
Kn - 20		of epidemiology and epi-/pand	lemic disease	PLR20
C1 00	prevention strategie			
Sk - 20	Be able to analyze			
C - 20	of mass and indivi			
AR - 20	diseases.			
	-	the local disease prevention	41	DI DO1
Kn - 21		mation paid and free resources of	n the internet,	PLR21
CI- 21	1 10 0	d rules of electronic access		
Sk - 21		for the necessary information in the	•	
C - 21	information	atabases, analyze, evaluate and	apply this	
AR - 21		sharing updated professional inf	ormation with	
AK - 21	colleagues	sharing updated professional inf	ommation with	
Kn - 24		sional health protection measures		PLR24
IXII = 44	1 -	ge the necessary level of individua	al safety (own	1 LIX27
Sk - 24		n the event of typical dangerous si	• ,	
C - 24	individual field of a	7.5	tautons in the	
C 24		personal and patient safety.		
AR - 24	De responsiere rer	personal and passesses surroug.		
Kn - 25	Know principles	of logical thinking and mak	ing informed	PLR25
11.1. 20		ial vs non-essential information	ing imornied	
Sk - 25	-	informed decision based on a set of	f arguments	
C - 25	_	d produce competency toward clear	_	
AR - 25	statements	F	- F	
Kn - 29	Know epidemiolo	ious diseases,	PLR29	
		ble diseases, national schedule for		
Sk - 29	children of various			
C - 29	Be able and respon	nsible to plan, organize and conduc	t activities for	
AR - 29	the specific prev	vention of infectious diseases,	including in	
		ne National Calendar of preventive		
	1	and recommended. Manage vac		
	organize additiona			
	immunoprophylaxi			
	6. Format a	nd scope of the course		
Type of activity		Number of hours		Number of groups
Lectures (full-		0		
time lesson)				
Workshops		90		acording shedule
(full-time				
lesson)		22		11 1 1
Self-studying		90		acording shedule
(full-time				
lesson)	_	Tonics and content of the	7.0	
Codo - Cd.	7.	Topics and content of the cours		Tanahan
Code of the	Topic	Content of the studying	Learning results code	Teacher
type of the			resuits coae	
classes W-1	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Voznyalz Andries
(workshop 1)	diagnosis of	syndromes in different clinical	14, 17,	Voznyak Andriy, Tutusa Andriy,
(workshop 1)	pneumonia in	variants of pneumonia in	21,27	Furtak Roksolana,
	children.	children. Results of laboratory	21,21	i with Koksolalia,
	Cilitaren.	cimulent. Results of laboratory		

	Complications of	and instrumental studies in		
	pneumonia. Acute	different clinical variants of		
	respiratory	pneumonia. Differential		
	disease COVID-	diagnosis of pneumonia,		
	19 in children.	bronchitis, and bronchiolitis in		
	17 m emiaren.	children. Making a preliminary		
		diagnosis. Treatment of patients		
		with different clinical variants of		
		pneumonia. Prevention of		
		pneumonia and its complications		
		in children. Clinical presentation		
		and course of COVID-19.		
		Updated diagnosis and		
		management protocol.		
		Prophylaxis. Differential		
		diagnoses in pleurisy, abscess,		
		pyothorax, and pneumothorax.		
		Clinical presentation and		
		laboratory evaluation.		
		Radiologic differences pleurisy,		
		abscess, pyothorax, and		
		pneumothorax. Assessment of		
		acute respiratory failure in		
		children. Severity staging. Blood		
		gases and base-acid balance.		
		Types and techniques of oxygen		
		therapy. Indications in advanced		
		respiratory support.		
		1 2 11		
W-2	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Voznyak Andriy,
W-2 (workshop 2)	diagnosis of	Leading clinical symptoms and syndromes in bronchial asthma,	14, 17,	Tutusa Andriy,
		Leading clinical symptoms and	1 ' '	1 -
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in	14, 17,	Tutusa Andriy,
	diagnosis of bronchial	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control.	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial asthma, bronchiolitis and acute	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial asthma, bronchiolitis and acute obstructive bronchitis and its	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial asthma, bronchiolitis and acute obstructive bronchitis and its complications. Differential	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial asthma, bronchiolitis and acute obstructive bronchitis and its complications. Differential diagnosis of asthma and	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial asthma, bronchiolitis and acute obstructive bronchitis and its complications. Differential diagnosis of asthma and bronchial obstruction versus	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial asthma, bronchiolitis and acute obstructive bronchitis and its complications. Differential diagnosis of asthma and bronchial obstruction versus acute respiratory infections in	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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.	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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.	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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	14, 17,	Tutusa Andriy,
	diagnosis of bronchial obstruction in	Leading clinical symptoms and syndromes in bronchial asthma, bronchiolitis and acute obstructive bronchitis in children. Peculiarities of asthma in children, depending on the severity and level of control. Results of laboratory and instrumental studies in bronchial 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	14, 17,	Tutusa Andriy,

W 2	D:00 : 1	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DI D 2 4 7	T7 1 4 1 '
W-3	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Voznyak Andriy,
(workshop 3)	diagnosis of	syndromes in chronic bronchitis,	14, 17,	Tutusa Andriy,
	hereditary,	bronchiectasis, hereditary and	21,27	Furtak Roksolana,
	congenital, and chronic disease of	congenital diseases of		
	the	respiratory system (cystic fibrosis, idiopathic pulmonary		
	bronchopulmonar	hemosiderosis, primary cilia		
	y system in	dyskinesia, a syndrome of		
	children.	Wilms Campbell		
	cimarcii.	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 chronic,		
		hereditary, and congenital		
		bronchopulmonary disease in children. Clinical management		
		of patients with hereditary,		
		congenital, and chronic		
		bronchopulmonary diseases and		
		their complications in children.		
		Prevention of hereditary,		
		congenital, and chronic		
		bronchopulmonary diseases in		
		children.		
W-4	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Voznyak Andriy,
(workshop 4)	diagnosis of	syndromes of congenital heart	14, 17,	Tutusa Andriy,
	congenital heart	disease in children. Data from	21,27	Furtak Roksolana,
	diseases in	laboratory and instrumental tests		
	children.	of congenital heart disease in		
	Therapeutic	children. Differential diagnosis.		
	approach, timing and surgical	Management plan.		
	correction.			
W-5	Differential	Differential diagnosis in	PLR 2, 4-7,	Voznyak Andriy,
(workshop 5)	diagnosis of	myocarditis, endocarditis,	14, 17,	Tutusa Andriy,
	inflammatory	pericarditis. Emergency care for	21,27	
	heart disease in	acute heart failure. Treatment		
	children.	and prevention of chronic heart		
		failure.		
W-6	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Furtak Roksolana,
(workshop 6)	diagnosis of	syndromes in juvenile	14, 17,	
	systemic	rheumatoid arthritis, systemic	21,27	
	connective tissue	lupus erythematosus, acute		
	disease and	rheumatic fever,		
	systemic vasculitis in	dermatomyositis, scleroderma, Kawasaki disease, polyarteritis		
	children.	nodosa and other systemic		
	ominion.	vasculitis in children. Clinical		
	I.	Chille in Children. Chillean		

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		variants of the course and		
		complications of systemic		
		connective tissue diseases and		
		systemic vasculitis in children.		
		The results of laboratory and		
		instrumental studies in systemic		
		connective tissue diseases and		
		systemic vasculitis in children.		
		Differential diagnosis of		
		systemic connective tissue		
		diseases in children. Differential		
		diagnosis of arthritis in children.		
		Clinical management of patients		
		with systemic connective tissue		
		diseases and systemic vasculitis		
		in children. Primary and		
		_		
		secondary prevention of acute rheumatic fever in children.		
W 7	D:66		DI D 2 4 7	V
W-7	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Voznyak Andriy,
(workshop 7)	diagnosis of	syndromes in functional and	14, 17,	Tutusa Andriy,
	functional and	organic diseases of the digestive	21,27	
	organic diseases	system in children. Clinical and		
	of the digestive	instrumental tests and		
	system in	differential diagnosis. Tactics of		
	children.	children management.		
W-8	Differential	Differential diagnosis of		Furtak Roksolana,
(workshop 8)	diagnosis of	abdominal pain. Diagnosis of	14, 17,	
	abdominal pain in	complicated gastric ulcer in	21,27	
	children. Gastric	children, tactics of a general		
	bleeding.	practitioner, emergency care for		
		gastric bleeding in children.		
W-9	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Voznyak Andriy,
(workshop 9)	diagnosis of	syndromes in biliary dyskinesia,	14, 17,	Tutusa Andriy,
	disease of the	acute and chronic cholecystitis,	21,27	
	hepatic, biliary	acute and chronic pancreatitis,		
	system, and the	and chronic hepatitis in children.		
	pancreas in	Clinical variants of the course of		
	children.	biliary dyskinesia, acute and		
	Syndrome of	chronic cholecystitis, acute and		
	portal	chronic pancreatitis, and chronic		
	hypertension.	hepatitis in children. The results		
	Emergency care	of laboratory and instrumental		
	in acute hepatic	studies in biliary dyskinesia,		
	failure.	acute and chronic cholecystitis,		
		acute and chronic pancreatitis,		
		and chronic hepatitis in children.		
		Differential diagnosis of biliary		
		dyskinesia, acute and chronic		
		cholecystitis, acute and chronic		
		I		
		pancreatitis, and chronic		
		hepatitis in children. Clinical		
		management of patients with		
		biliary dyskinesia, acute and		
		chronic cholecystitis, acute and		
		chronic pancreatitis, and chronic		
		hepatitis in children. Providing		

	T		T	T
		emergency care in acute hepatic		
		failure and complications of		
		portal hypertension syndrome. Prevention of biliary dyskinesia,		
		acute and chronic cholecystitis,		
		acute and chronic pancreatitis,		
		and chronic hepatitis in children.		
W-10	Differential	Leading clinical symptoms and	PLR 2, 4-7,	Voznyak Andriy,
(workshop 10)	diagnosis of	syndromes in inflammatory	14, 17,	Tutusa Andriy,
1 /	infectious and	diseases of the urinary system	21,27	Furtak Roksolana,
	inflammatory	(urinary system infections,		
	disease of the	urethritis, cystitis,		
	urinary system in	pyelonephritis) dysmetabolic		
	children.	nephropathy. Clinical variants		
		and complications of infectious		
		diseases of the urinary system,		
		interstitial nephritis. The results		
		of the laboratory and		
		instrumental tests. Differential		
		diagnosis of the most common		
		infectious diseases of the urinary system. First aid in acute urinary		
		retention. Prevention of		
		urethritis, cystitis,		
		pyelonephritis.		
W-11	Differential	Leading clinical	PLR 2, 4-7,	Voznyak Andriy,
(workshop 11)	diagnosis of	symptoms and syndromes in	14, 17,	Tutusa Andriy,
	hereditary disease	dysmetabolic nephropathy,	21,27	Furtak Roksolana,
	of the urinary	hereditary tubulopathy		
	system in	(phosphate diabetes, Syndrome		
	children.	Debre-de Toni-Fanconi, renal		
		diabetes insipidus, renal tubular		
		acidosis) and interstitial		
		nephritis in children. Clinical variants of the course and		
		variants of the course and complications of hereditary		
		dysmetabolic tubulopathy in		
		children. The results of the		
		laboratory and instrumental tests		
		in dysmetabolic nephropathy		
		and hereditary tubulopathy in		
		children. Differential diagnosis		
		hereditary dysmetabolic		
		tubulopathy in children. Clinical		
		management of the sick child in		
		dysmetabolic nephropathy and		
		hereditary tubulopathy in		
W-12	Differential	children. Clinical and morphological	PLR 2, 4-7,	Voznyak Andriy,
(workshop 12)	diagnosis of	variants of primary	14, 17,	Tutusa Andriy,
(workshop 12)	glomerulonephriti	glomerulonephritis in children.	21,27	Furtak Roksolana,
	s in children.	Differential diagnosis of acute	, <del>,-</del> ,	2 with itemorality
	Differential	post-streptococcal		
	approach to	glomerulonephritis with		
	treatment of	hereditary Alport nephritis,		
	glomerulonephriti	rapidly progressive		

W 12	s in children. Acute and chronic renal failure in children. Management. Emergency care. Differential approaches to treatment.	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 acute and chronic glomerulonephritis. Tactics in treatment of acute and chronic glomerulonephritis in children. Clinical supervision of children with glomerulonephritis. Prevention of chronic kidney disease. Acute kidney injury (acute renal failure) in children: etiology, pathogenesis, clinical and laboratory symptoms, Differential diagnosis. Emergency tactics of sick children. Chronic renal failure. Treatment approach. Prevention of progression of chronic renal failure.	DI D 2 4 7	
W-13 (workshop 13)	Differential diagnosis of	Laboratory evaluation in lymphadenopathy,	PLR 2, 4-7, 14, 17,	
	lymphoproliferati ve syndrome in children.	splenomegaly. Gastrointestinal presentation and involvement of mediastinum. Immune deficiency syndromes as a background of lymphoproliferative syndrome in children. X-linked lymphoproliferative disorders, autoimmune lymphoproliferative syndrome, primary immune deficiencies, posttransplant lymphoproliferative disorder. Differential diagnosis in pediatric non-Hodgkin lymphoma.	21,27	
W-14 (workshop 14)	Medical supervision of children in the first three years of life in the polyclinic setting. Integrated management of childhood illnesses.	Procedure for obligatory preventive examinations of children under three years old. Efficient feeding and nutrition of the child under three years old. Evaluation of physical and psycho-motor development of children up to three years. Tactics of the general practitioner in violation of physical and neuropsychological development of children during the first three years of life. Principles of effective	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,

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		counseling. Differential		
		diagnosis and prevention of the		
		most common deficient states		
		(rickets, iron deficiency) in infants. Prophylactic vaccination		
		of children up to three years.		
		The strategy of integrated		
		management of childhood illness		
		and its purpose. Common signs		
		of danger for the child.		
		Evaluation, classification,		
		treatment, consultation and		
		follow-up for coughing,		
		difficulty in breathing, diarrhea,		
		problems with the ear, sore		
		throat, fever, malnutrition and		
		anemia, the presence of HIV		
		infection in children from 2		
		months to 5 years. Evaluation,		
		classification, treatment,		
		consultation, and follow-up of		
		children under the age of 2		
		months with jaundice, diarrhea,		
		feeding problems and low birth		
		weight, very severe illnesses,		
W-15	Resuscitation of	and local bacterial infection.	PLR 12, 14,	Vormyola Andria
(workshop 15)	newborns.	Basic principles of newborn resuscitation. Indications for	17, 21,27	Voznyak Andriy, Tutusa Andriy,
(workshop 13)	newooms.	resuscitation. Anticipation of	17, 21,27	Furtak Roksolana,
		resuscitation need. Initial steps.		1 01 0011 110 110 0 101100,
		Temperature control, clearing		
		the airway, assessment of		
		oxygen need and administration		
		of oxygen, pulse oximetry,		
		administration of supplementary		
		oxygen, positive-pressure		
		ventilation, initial breaths and		
		assisted ventilation, end-		
		expiratory pressure, assisted-		
		ventilation devices, endotracheal		
		ventilation devices, endotracheal tube placement, chest		
		ventilation devices, endotracheal tube placement, chest compressions, medications.		
		ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing		
CC1	Commont against	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation.	DI D 2 4 7	Vogavals As deiss
SS1 (self-studying 1)	Current aspects in	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic	PLR 2, 4-7,	Voznyak Andriy,
SS1 (self-studying 1)	antibiotic therapy	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic therapy. Types of antibacterial	14, 17,	Tutusa Andriy,
	_	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic therapy. Types of antibacterial drugs. Types of antibiotic action		1
	antibiotic therapy	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic therapy. Types of antibacterial drugs. Types of antibiotic action modes. Pharmacokinetics,	14, 17,	Tutusa Andriy,
	antibiotic therapy	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic therapy. Types of antibacterial drugs. Types of antibiotic action modes. Pharmacokinetics, pharmacodynamics. Age-	14, 17,	Tutusa Andriy,
	antibiotic therapy	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic therapy. Types of antibacterial drugs. Types of antibiotic action modes. Pharmacokinetics, pharmacodynamics. Agespecific indications and	14, 17,	Tutusa Andriy,
	antibiotic therapy	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic therapy. Types of antibiotic action modes. Pharmacokinetics, pharmacodynamics. Agespecific indications and contraindications and	14, 17,	Tutusa Andriy,
	antibiotic therapy in children.	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic therapy. Types of antibacterial drugs. Types of antibiotic action modes. Pharmacokinetics, pharmacodynamics. Agespecific indications and contraindications and concomitant pathology.	14, 17,	Tutusa Andriy, Furtak Roksolana,
(self-studying 1)	antibiotic therapy	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic therapy. Types of antibacterial drugs. Types of antibiotic action modes. Pharmacokinetics, pharmacodynamics. Agespecific indications and contraindications and concomitant pathology.	14, 17, 21,27	Tutusa Andriy,
(self-studying 1)  SS2	antibiotic therapy in children.	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic therapy. Types of antibacterial drugs. Types of antibiotic action modes. Pharmacokinetics, pharmacodynamics. Agespecific indications and contraindications and concomitant pathology. Radiological examination of	14, 17, 21,27 PLR 2, 4-7,	Tutusa Andriy, Furtak Roksolana,  Voznyak Andriy,
(self-studying 1)  SS2	antibiotic therapy in children.  Radiologic signs of pulmonary	ventilation devices, endotracheal tube placement, chest compressions, medications. Withholding and discontinuing resuscitation. Therapeutic range of antibiotic therapy. Types of antibacterial drugs. Types of antibiotic action modes. Pharmacokinetics, pharmacodynamics. Agespecific indications and contraindications and concomitant pathology.  Radiological examination of respiratory organs in children.	14, 17, 21,27 PLR 2, 4-7, 14, 17,	Tutusa Andriy, Furtak Roksolana,  Voznyak Andriy, Tutusa Andriy,

SS3 (self-studying 3)  SS4 (self-studying 4)	Differential diagnosis of pulmonary diseases in newborns.  Differential diagnosis of	Diagnostic approach for lung pathology in newborns. Assessment of the type and severity of respiratory disorders. Differential diagnosis. The main complications. Contemporary approaches to treatment.  ECG changes in extrasystole, paroxysmal tachycardia, atrial	PLR 2, 4-7, 14, 17, 21,27 PLR 2, 4-7, 14, 17,	Voznyak Andriy,
	abnormal cardiac rhythm and conduction in children by ECG tracing.	fibrillation, complete atrioventricular block. Clinical variants of the course of paroxysmal tachycardia and atrial fibrillation in children. Differential diagnosis of arrhythmias.	21,27	Tutusa Andriy, Furtak Roksolana,
SS5 (self-studying 5)	Heart failure in children. Medicines used in pediatric cardiology.	Etiology of heart failure in children. Management.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS6 (self-studying 6)	Kawasaki disease in children: causes, symptoms, diagnosis and treatment.	Differential diagnosis of the disease and Kawasaki syndrome. Diagnostic approach, treatment, prognosis.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS7 (self-studying 7)	Differential diagnosis of arterial hypertension in children. Metabolic syndrome – diagnosis and management.	Evaluation of a pediatric patient with arterial hypertension. Correct measurement of blood pressure. Automated pressure blood pressure monitoring. Use of age and height distribution (percentile) tables for grading arterial pressure by the severity. Differential diagnosis in arterial hypertension. Evaluation of the target organs damage in arterial hypertensive drugs. Treatment of hypertensive crisis in a pediatric patient. Emergency care. Differential diagnosis of metabolic syndrome in children. Making clinical diagnosis. Management of metabolic syndrome. Prevention.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS8 (self-studying 8)	Differential diagnosis of malabsorption syndrome in children.	Malabsorption syndrome, clinical manifestations, causes. Current approaches to the diagnosis of malabsorption syndrome, treatment. Multidisciplinary approach.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS9 (self-studying 9)	Differential diagnosis of congenital	Anomalies of the development of the digestive system in children. Differential diagnosis.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,

	malformations of the gastrointestinal tract in children.	Interdisciplinary approach. Surgical correction. Management.		
SS10 (self-studying 10)	Differential diagnosis of jaundice in children.	Diagnostic approach to jaundice in children of different age groups. Interdisciplinary approach. Interpretation of the results of laboratory and instrumental examinations. Management.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS11 (self-studying 11)	Laboratory methods in pediatric nephrology. Radiologic presentation of diseases of the urinary system in children.	Features of examination of the urinary system in children. Contemporary methods of imaging.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS12 (self-studying 12)	Illnesses accompanied by hematuria and proteinuria in children. Renal replacement therapy in children.	Differential diagnosis of hematuria in children. Diagnostic clues. Management.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS13 (self-studying 13)	Differential diagnosis of the most common hematological diseases in children.	Leading clinical symptoms and syndromes of hematological diseases (anemia, thrombocytopenia and thrombocytopathy, coagulopathy). Data from laboratory and instrumental studies. Clinical variants of course and complications. Management.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS14 (self-studying 14)	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.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,
SS15 (self-studying 15)  The following tea	Asphyxia of newborns and perinatal CNS lesions: prevention, differential diagnosis and principles of treatment.	Differential diagnosis of asphyxia and perinatal CNS lesions in newborns. Diagnostic algorithm. Management.	PLR 2, 4-7, 14, 17, 21,27	Voznyak Andriy, Tutusa Andriy, Furtak Roksolana,

e ionowing teaching methods are used to develop skills:

verbal/oral (explanation, cases);

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

### 8. Verification of learning results

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

Answers standardized questions, knowledge of which is necessary to understand the current topic. Demonstrates knowledge and skills of practical skills in accordance with the topic of the workshop. Solves a clinical case according to the topic of the lesson.

#### Criteria for evaluation of educational activities

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

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

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

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

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

Good ("4") - the student answered correctly 70-89% of the of A format test (from the database "Step-2").

Correctly and essentially responds to all standardized questions of the current topic. Demonstrates knowledge of practical skills. Correctly uses theoretical knowledge in solving practical problems, conducts a differential diagnosis. Capable to solve easy and medium complexity clinical cases.

Possesses all necessary practical skills and techniques to perform their uses, more than the required minimum.

**Satisfactory ("3")** - the student answered correctly 50-69% of the A format test (from the database "Step-2").

Incomplete, with the help of additional questions answers all the standardized questions on the current topic. Cannot independently makes a clear logical answer. While the student is answering and demonstrating practical skills, he makes mistakes. Can solve only the easiest situational tasks. Has knowledge of only the minimum methods of investigations.

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

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

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

Current control			
Learning results code	Code of the type	Verifying learning outcomes	Enrollment criteria
	of the classes	method	
Kn-2, 4-7, 14, 17, 21,27,	W 1-15	Mastering of material is checked	traditional grades of 5, 4,
Sk-2, 4-7, 14, 17, 21,27	SS -1-15	during practical classes in	3, 2.
C-2, 4-7, 14, 17, 21,27		accordance with the topics.	"5" - correct, clear logical
AR -2, 4-7, 14, 17, 21,27		Current control is carried out at	answer to all standardized
		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	

with lecturer students 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 ability skills, 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.

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 standardized questions of the current topic; cannot independently build 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 does questions, not understand the content of the material; makes significant, gross mistakes when answering demonstrating and practical skills.

IW is assessed, in addition to considering in current classes, when it is performed or not at the end of each semester

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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	The maximum number of points is	

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"

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: <a href="https://new.meduniv.lviv.ua/kafedry/kafedra-pediatriyi-1/">https://new.meduniv.lviv.ua/kafedry/kafedra-pediatriyi-1/</a>

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 No 1 on the website of LNMU named after Danylo Halytsky: \_
http://misa.meduniv.lviv.ua/course/view.php?id=341

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

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