

VINNYTSIA NATIONAL PIROGOV MEMORIAL MEDICAL UNIVERSITY

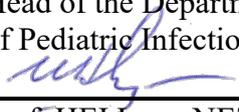
APPROVE

Higher Educational Institution
Vice-Rector for Scientific and
Academic Work and International Links

 Inna ANDRUSHKO

“AGREED”

Head of the Department
of Pediatric Infectious Diseases


Prof. HEI Iryna NEZGODA

“_29_” -08 2024 year

SYLLABUS

of Academic Discipline

Pediatric infectious diseases

(an integral part of the discipline

"Pediatrics, with children's infections, neonatology, medical genetics")

Specialty	222 Medicine
Educational Level	the second (master`s) level
Educational Program	EPP "Medicine", 2022
Academic Year	2024-2025
Chair	Pediatric infectious diseases
Lecturers	Assoc. Prof. HEI, Ph.D. Olena ONOFRIICHUK. Assoc. Prof. HEI, Ph.D. Larisa STANISLAVCHUK
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Syllabus compilers	Associate Professor HEI, Ph.D. Olena ONOFRIICHUK Assistant PhD Yaroslav DEMCHYSHYN

1. Status and Discipline Structure

Discipline Status	Compulsory
Discipline code in EPP and place of discipline in EPP	CC 30.1, discipline of professional training
Course / semester	5th year (IX - X semesters)
Scope of the discipline (total number of hours / number of ECTS credits)	45 hours / 1.5 credits ECTS
The structure of the discipline	Lectures - 8 hours Practical classes - 26 hours Self-Study - 11 hours In general: classroom classes – 75,5%, independent extracurricular work – 24,5%
Number of content modules	4
Language of instruction	English
Form of study	Full-time (at introduction of quarantine measures - remote according to the order)

1. Discipline Description

Short annotation of the course, relevance. The program of the discipline **Pediatric infectious diseases** (an integral part of the discipline "Pediatrics, with children's infections, neonatology, medical genetics") is compiled in accordance with the procedure for training applicants for the second (master's degree) level of education in higher medical educational institutions of Ukraine in accordance with the requirements European credit-transfer system of the organization of the educational process ECTS, an approximate curriculum for the training of specialists of the second (master's) level of higher education in the field of studies 22 "Health", specialty 222 "Medicine",

The discipline is a mandatory component of the educational-professional program "Medicine" (2022), the cycle of professional training of the masters' of medicine, designed for 1.5 credits, which students learn during 9 and 10 semesters in the 5th year of study.

The main focus of the program is to gain knowledge in the discipline **Pediatric infectious diseases** (an integral part of the discipline "Pediatrics, with children's infections, neonatology, medical genetics"), the study of which is necessary for the successful mastering of the disciplines of successful professional activity. The subject area of the program is the main, most common infectious diseases of childhood, the program focuses on knowledge of etiology, pathogenesis, classification, diagnostic criteria, differential diagnosis, principles of treatment and prevention of major childhood infectious diseases, vocational guidance, clinical thinking and practical skills.

Types of educational classes according to the curriculum are: a) lectures, b) practical classes, c) self-study.

The current learning activities of students are monitored in practical classes in accordance with specific objectives. The level of student training: is determined on the basis of test results, written or oral answers to control questions, solving situational problems, conducting laboratory tests, their interpretation and evaluation of their results, control of practical skills, solving clinical problems, examination of the patient, clinical analysis, compilation of algorithms for clinical examination and treatment for certain nosology, differential diagnosis based on certain symptoms and syndromes in the patient, evaluation of the results of instrumental, laboratory examinations, functional tests, etc.

The final control of mastering the discipline is carried out upon its completion in the form of a summary control according to the curriculum for the specialty 222 Medicine.

The subject study of the discipline are infectious diseases of childhood, with methods of diagnosis, treatment and prevention, taking into account the age characteristics of the child's body.

Prerequisites. For successful mastering of discipline, the student needs the knowledge received in the course of studying of the following disciplines of general preparation:

- Microbiology with virology (etiology, pathogenesis, immunology, immunopathology, allergology, chemotherapy and immunotherapy, specific prevention of various microbial and viral diseases; microbiological, virological and immunological diagnostic methods);
- Pathological physiology (pathogenesis, allergy);
- Pathological anatomy (pathological changes in infectious diseases);
- Pharmacology (mechanism of action of chemotherapeutic drugs and antibiotics).
- Psychiatry. Nervous diseases.

The purpose teaching the discipline **Pediatric infectious diseases** (an integral part of the discipline "Pediatrics, with children's infections, neonatology, medical genetics") is the formation of the ability to apply the acquired knowledge, skills, abilities to solve typical problems of a pediatrician in the field of health care, positions, the scope of which is provided by certain lists of syndromes and symptoms of childhood diseases that require special tactics of patient management, emergencies, laboratory and instrumental studies, medical manipulations.

According to EPP "Medicine" (2022), the discipline provides students with the following **competencies**:

- Integral competence (IC): The ability to solve complex problems, including those of a research and innovation nature in the field of medicine. Ability to continue learning with a high degree of autonomy.

- General competencies (GC):

GC1. Ability to abstract thinking, analysis and synthesis, the ability to learn and be modernly trained.

GC2. Ability to apply knowledge in practical situations.

GC3. Knowledge and understanding of the subject area and understanding of professional activity.

GC4. Ability to adapt and act in a new situation.

GC5. Ability to make informed decisions; work in a team; interpersonal skills.

GC6. Ability to communicate in the state language both orally and in written form; ability to communicate in a foreign language.

GC7. Skills in the use of information and communication technologies; ability to search, process and analyze information from various sources.

GC8. Definiteness and persistence in terms of tasks and responsibilities.

GC9. The ability to act socially responsibly and consciously.

GC10. The desire to preserve the environment.

GK 11. Ability to search, process and analyze information from various sources.

GK 12. Determination and persistence in relation to assigned tasks and assumed responsibilities.

GK 13. Awareness of equal opportunities and gender issues.

GK 14. The ability to realize one's rights and responsibilities as a member of society, to realize the values of a civil (free democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.

GK 15. The ability to preserve and multiply moral, cultural, scientific values and achievements of society based on an understanding of 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, techniques and technologies, use different types and forms motor activity for active recreation and leading a healthy lifestyle.

- Professional competencies (PC):

PC1. Skills of interviewing and clinical examination of patients.

- PC2. Ability to determine the required list of laboratory and instrumental studies and evaluate their results.
- PC3. Ability to establish a preliminary and clinical diagnosis of the disease.
- PC4. Ability to determine the required mode of work and rest in the treatment of diseases
- PC5. Ability to determine the nature of nutrition in the treatment of diseases.
- PC6. Ability to determine the principles and nature of disease treatment.
- PC7. Ability to diagnose emergencies.
- PC8. Ability to determine the tactics of emergency medical care.
- PC9. Emergency care skills.
- PC11. Skills to perform medical manipulations.
- PC13. Ability to carry out sanitary and hygienic and preventive measures.
- PC14. Ability to plan and carry out preventive and anti-epidemic measures against infectious diseases.
- PC 16. Ability to maintain medical documentation, including electronic forms.
- PC 21. It is clear and unambiguous to convey one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists, in particular to people who are studying.
- PC 22. Ability to manage work processes in the field of health care, which are complex, unpredictable and require new strategic approaches
- PC 23. Ability to develop and implement scientific and applied projects in the field of health care.
- PC 24. Compliance with ethical principles when working with patients and laboratory animals.
- PC 25. Observance of professional and academic integrity, bear responsibility for the reliability of the obtained scientific results.

Postrequisites.

Lays the foundations for students to study modern diagnostic technologies used in clinical practice, which involves the integration of teaching with different disciplines (pediatric surgery, resuscitation, cardiology, medical psychology, psychiatry; nervous diseases, immunology), and the formation of skills to apply knowledge of modern diagnostic methods in the process of further training and professional activities.

2. Learning outcomes.

According to the requirements for the second (master's degree) level of higher education and educational-professional program "Medicine" (2022) students must:

know:

- etiological and pathogenic mechanisms of infectious diseases of childhood;
- classification of the most common infectious diseases of childhood;
- clinical features of the most common infectious diseases of childhood;
- complications in the most common infectious diseases of childhood;
- principles of diagnosis of the most common infectious diseases of childhood;
- algorithm for treatment and prevention of the most common infectious diseases of childhood.

be able:

- classify and analyze the typical clinical picture;
- make a plan of examination and analyze the data of laboratory and instrumental examinations in the typical course of the disease;
- to carry out differential diagnosis and make a preliminary diagnosis in the typical course of infectious diseases of childhood;
- demonstrate mastery of principles treatment, rehabilitation and prevention infectious diseases;
- provide emergency care in case of major emergencies;
- evaluate the forecast infectious disease;
- demonstrate possession of moral and deontological principles of a medical specialist and the

- principles of professional subordination in pediatrics;
- keep medical records.

3. Content and logistics of the discipline

Module 4. Pediatric infectious diseases (an integral part of the discipline "Pediatrics, with children's infections, neonatology, medical genetics")	IX - X semesters 45 hours / 1.5 credits ECTS	Lectures №№ 1-4 Practical classes №№ 1-9 Topics for self-study №№ 8-9
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The discipline includes 9 topics, which are divided into 4 content modules.

Topics of the lecture course reveal the problematic issues of the relevant sections of the discipline.

Practical classes provide a theoretical justification for the main issues of the topic:

Topic 1. Measles. Rubella. Varicella. Shingles.

Topic 2. Scarlet fever. Pseudotuberculosis. Intestinal Yersiniosis.

Topic 3. Diphtheria. Mumps infection. Infectious mononucleosis.

Topic 4. Meningococcal infection. Poliomyelitis. Enterovirus infection.

Topic 5. Acute respiratory viral infections (Influenza, Parainfluenza, Adenoviral, Respiratory Syncytial, Rhinovirus Infection). Whooping cough. Coronavirus infection.

Topic 6. Shigellosis. Salmonellosis. Escherichia coli. Rotavirus infection

Topic 7. Viral hepatitis A, B, C, D and others

Topic 8. HIV / AIDS in children. AIDS-opportunistic infections (Pneumocystis, Candidiasis, Cryptococci infection and others).

Topic 9. TORCH-infections (Toxoplasmosis, Cytomegalovirus infection, Herpes infection).

Practical classes according to the method of their organization are clinical, because the practical classes provide:

- examination and report of the thematic patient, at distance learning to solve situational problems, demonstration of photos and videos;
- solving situational and emergency tasks;
- consideration of test tasks;
- analysis of the results of laboratory and instrumental examinations;
- performing medical manipulations;
- classes in the simulation center.

Self-preparing work of student provides preparation for practical classes and intermediate tests, study of topics for independent extracurricular work, writing essays, preparation of presentations, tables. Control of mastering the topics of independent work outside the classroom is carried out at intermediate control classes in the discipline.

Individual work includes elaboration of scientific literature, preparation of reviews on the provided topics for presentation at meetings of the student scientific group, performance of scientific and practical researches, participation in profile Olympiads, scientific and practical conferences, competitions of student scientific works.

Thematic plans of lectures, calendar plans of practical classes, thematic plan of independent extracurricular work, volume and directions of individual work are published on the site of the department.

Route of receiving materials: Department of Pediatric Infectious Diseases / Student / Full-time study / (specialty) / 5th year / Teaching materials / or by link [https://www.vnm.edu.ua/Department of Pediatric Infectious Diseases #](https://www.vnm.edu.ua/Department%20of%20Pediatric%20Infectious%20Diseases%20#). Access to materials is provided from the student's corporate accounts s000XXX@vnm.edu.ua.

4. Forms and Methods of Monitoring Learning Success

Current control in practical classes	Methods: carried out in each practical session in accordance with the specific objectives of each topic.
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	<p>Control of student knowledge is assessed by:</p> <ul style="list-style-type: none"> - oral or written answer in the form of a survey on the topic of the lesson and solving typical situational problems, where the main emphasis is placed on logical thinking of the student in a clinical situation, evaluation of laboratory and instrumental research, prescription forms and emergency care; - when performing test tasks; - in the control of practical skills, examining a patient with infectious pathology. <p>The student's knowledge of the topic and a certain section is assessed by the traditional assessment (5-point system) according to the Regulation of the Academic process in National Pirogov Memorial Medical University, Vinnytsia.</p>
Final control of the discipline - discipline Pediatric infectious diseases (an integral part of the discipline "Pediatrics, with children's infections, neonatology, medical genetics") (<i>summary control</i>)	According to the Regulations on the organization of the Academic process at M.I.Pyrogov MMU, Vinnytsya (link https://www.vnmu.edu.ua/General information / Basic documents)
Learning success diagnostic tools	Theoretical questions, tests, clinically-oriented situational tasks, practical tasks, demonstration of practical skills

6. Assessment Criteria

Knowledge assessment is carried out in accordance with the Regulations of the Academic process in National Pirogov Memorial Medical University, Vinnytsia (link <https://www.vnmu.edu.ua/en/general-regulations>).

Current control	According to the four-point system of traditional grades: 5 "excellent", 4 "good", 3 "satisfactory", 2 "unsatisfactory"
Control of practical skills	According to the four-point system of traditional evaluations
Final control of the discipline (<i>summary control</i>)	On a 200-point scale (the arithmetic mean for the semester is converted into points). Credited: from 122 to 200 points Not credited: less than 122 points (see rating scale)

During distance learning using the Microsoft Teams platform, the assessment of oral and written answers is carried out using generally accepted criteria. Contact information of the department: email: child.infection@vnmu.edu.ua; associate professor Olena ONOFRIICHUK, tel. 0677337838.

Discipline Score Scale: National and ECTS

The sum of grades for all types of educational activities	Score ECTS	Score on a national scale	
		For exam, course project (work), practice	for credit test
180-200	A	excellent	

170-179,99	B	good	credited
160-169,99	C		
141-159,99	D		
122-140,99	E		
0-121,99	FX	unsatisfactory with the possibility of reassembly	is not credited with the possibility of reassembling
	F	unsatisfactory with a mandatory reexamination of discipline	is not credited with mandatory reexamination of discipline

7. Course Policy

The student has the right to receive high-quality educational services, access to contemporary scientific and educational information, qualified advisory assistance during the study of discipline and mastering practical skills. The policy of the department during the providing of educational services is a student-centered, based on normative documents of the Ministry of Education and the Ministry of Health of Ukraine, the Statute of the University and the Procedure for the Providing of Educational Services regulated by the main principles of the organization of the educational process in National Pirogov Memorial Medical University, Vinnytsia and the principles of academic integrity (link <https://www.vnmu.edu.ua/en/general-regulations>).

Compliance with the rules of procedure of National Pirogov Memorial Medical University, Vinnytsia safety in practical classes. Instruction on safety, safety of treatment of patients with infectious diseases is carried out at the first practical lesson by the teacher. The briefing is recorded in the Safety Instruction Log. A student who has not been instructed is not allowed to perform practical work. During the martial law caused by the aggression of the Russian Federation, in order to maximally ensure safe conditions for the participants of the educational process, the unified instruction on the procedure for the actions of education seekers, scientific and pedagogical workers and other employees of VNMU should be used. E. Pirogov during the "AIR ALARM" signal. The briefing is conducted by the teacher at the beginning of the class with the determination of the route and order of movement to the shelter.

Requirements for preparation for practical classes. The student must be prepared for practical classes, test tasks for the current topic should be solved in a workbook. You should come to class on time, without delay. A student who is more than 10 minutes late for class is not allowed to the last and must work it in the prescribed manner.

In practical classes, the student must be dressed in a work uniform (medical gown, hat, change of shoes, protective gown, mask). Students who do not have a work uniform are not allowed to study.

The student must follow the safety rules in practical classes and during the stay in the department.

When discussing theoretical issues, students should demonstrate tolerance, courtesy and respect for their colleagues and the teacher; when performing practical tasks, the workplace should be kept in order and cleaned after the lesson.

Use of mobile phones and other electronic devices. The using of mobile phones and other electronic devices in the classroom is allowed only during electronic testing or surveys.

Academic integrity. During the study of the discipline the student must be guided by the Code of Academic Integrity of National Pirogov Memorial Medical University, Vinnytsia ([https://www.vnmu.edu.ua/general information / Basic documents / Code of Academic Integrity](https://www.vnmu.edu.ua/general-information/Basic-documents/Code-of-Academic-Integrity)). In case of violation of the norms of academic integrity during the current and final controls, the student receives a grade of "2" and must work it out to his teacher in the prescribed manner within two weeks after receiving an unsatisfactory grade).

Missed classes. Missed classes are practiced in the manner prescribed by Regulation of the Academic process in National Pirogov Memorial Medical University, Vinnytsia (link [https://www.vnmu.edu.ua/ General information / Basic documents](https://www.vnmu.edu.ua/General-information/Basic-documents)) at the time determined by the

schedule of works (published on the website of the department <https://www.vnmdu.edu.ua/> Department of Pediatric Infectious Diseases) to the next teacher or by agreement with his teacher. To complete the missed lesson, the student must fill out a Google registration form, a link to which is available at: <https://www.vnmdu.edu.ua/> Department of Pediatric Infectious Diseases / News, and includes the basic necessary information on testing.

The procedure for admission to the final control on the discipline is given in the Regulation of the Academic process in National Pirogov Memorial Medical University, Vinnytsia (link <https://www.vnmdu.edu.ua/> General information / Basic documents). Students who have not missed unfinished practical classes and received an average traditional grade of at least "3" are admitted to the final control.

Additional individual points. Individual points to the discipline (from 6 to 12) student can receive for individual work, the amount of which is published on the website of the department in educational materials of the discipline, the number of points is determined by the results of IRS according to the Regulations on the organization of educational process of National Pirogov Memorial Medical University, Vinnytsia (link <https://www.vnmdu.edu.ua/> General information / Basic documents).

Conflict resolution. In the event of misunderstandings and complaints to the teacher due to the quality of educational services, assessment of knowledge and other conflict situations, the student must first report their claims to the teacher. If the conflict issue is not resolved, the student has the right to submit an appeal to the head of the department in accordance with the Regulations on the consideration of appeals of applicants for higher education seeker in National Pirogov Memorial Medical University, Vinnytsia (<https://www.vnmdu.edu.ua/> General information / Basic documents).

Politics in terms of distance learning. The procedure of distance learning is regulated by the Regulations on the introduction of elements of distance learning in National Pirogov Memorial Medical University, Vinnytsia (<https://www.vnmdu.edu.ua/> General information / Basic documents). The main training platforms for training are Microsoft Teams, Google Meets. The procedure for conducting practical classes, exercises and consultations during distance learning is published on the website of the department (<https://www.vnmdu.edu.ua/> Department of Pediatric Infectious Diseases / Student or <https://www.vnmdu.edu.ua/> Department of Pediatric Infectious Diseases / News).

Feedback with the teacher is carried out through messengers (Viber, Telegram, WhatsApp) or e-mail (at the choice of the teacher) during working hours.

1. Training resources

Educational and methodological support of the discipline is published on the website of the department (<https://www.vnmdu.edu.ua/> Department of Pediatric Infectious Diseases Student). Consultations are held twice a week according to the consultation schedule.

2. **Schedule and distribution of groups by teachers** published on the website of the department (<https://www.vnmdu.edu.ua/> Department of Pediatric Infectious Diseases Student).

3. **Questions to the intermediate and final controls of the discipline** published on the web page of the department (<https://www.vnmdu.edu.ua/> Department of Pediatric Infectious Diseases / Student).

Syllabus on the subject **Pediatric infectious diseases** (an integral part of the discipline "Pediatrics, with children's infections, neonatology, medical genetics") was discussed and approved at a meeting of the Department of Pediatric Infectious Diseases (Protocol № 1, dated August 29, 2024).

Responsible for the Course _____ (Assoc. Prof. HEI, Ph.D. Olena ONOFRIICHUK)

Head of the Department _____ (Prof. HEI, D.S. Irina NEZGODA)