

MINISRTY OF HEALTH OF UKRAINE
ODESSA NATIONAL MEDICAL UNIVERSITY
Department of Pediatrics №1

Syllabus of selective educational discipline
"Vaccination in children and adults"

Workload:	Total hours for discipline: 45 hours, 1.5 credits. Semester XI – XII, 6 years
Days, hours, place of study:	According to the schedule of classes. Department of Pediatrics №1. St. Ak. Vorobyova 3, Regional Children's Clinical Hospital. 9-storey building, 7th floor.
Teacher (s)	Aryaev M.L., Corresponding Member NAMSU, Doctor of Medicine, Professor, Head of the Department. Associate professors: Ph.D. Kaplina L.E., Biryukov V.S., Senkivska LI. Assistants: Ph.D. doctor of philosophy Usenko D.V. Assistants: Pavlova V.V., Selimkhanova D.S., Bishley N.O., Streltsov M.S., Talashova I.V.
Contact information	Information by phone: Kaplina Larysa Yevhenivna, head teacher, 0509707163. Senkivska Lyudmyla Ivanivna, responsible for organizational and educational work at the department 0679590334, or by landline of the department 705 53 21 with a laboratory assistant, Olkhovska Veronika Oleksandrivna. E-mail: pediatrics50@gmail.com In-person consultations: from 14.00 to 17.00 every Thursday and from 9.00 to 14.00 every Saturday Online consultations: from 16.00 to 18.00 every Thursday and from 9.00 to 14.00 every Saturday. A link to the online consultation is provided to each group during the lessons separately.

COMMUNICATION

COMMUNICATION WILL BE CARRIED OUT IN THE CLASSROOM.

DURING DISTANCE LEARNING, COMMUNICATION IS CARRIED OUT THROUGH THE MICROSOFT TEAMS PLATFORM, AS WELL AS THROUGH E-MAIL CORRESPONDENCE, THROUGH VIBER MESSENGERS (THROUGH GROUPS CREATED IN VIBER FOR EACH GROUP, SEPARATELY THROUGH THE HEAD OF THE GROUP).

ANNOTATION OF THE EDUCATIONAL DISCIPLINE

Subject of study of selective discipline - Vaccination in children and adults

Prerequisites and postrequisites of the course (the place of the discipline in the educational program):

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Prerequisites: Ukrainian language (for professional purposes), foreign language (for professional purposes), latin language and medical terminology, medical biology, medical and biological physics, medical chemistry, biological and bioorganic chemistry, human anatomy, histology, cytology and embryology , physiology, microbiology, virology and immunology, life safety; basics of bioethics and biosafety, pathomorphology, pathophysiology, pharmacology, hygiene and ecology, propaedeutics of pediatrics,.

Postrequisites: pediatrics, internal medicine, surgery, obstetrics and gynecology, infectious diseases, epidemiology and principles of evidence-based medicine, oncology and radiation medicine, traumatology and orthopedics, phthisiology, anesthesiology and intensive care, emergency care and emergency care, hygiene and ecology, palliative and hospice medicine, general practice (family medicine).

Purpose: The application's acquisition of the higher education of additional knowledge and mastery of professional competencies and skills of vaccination in children and adults by a family doctor on the basis of competencies acquired in the study of previous disciplines.

Tasks of the discipline:

1. Formation of vaccination skills and abilities in children and adults
2. Mastering the ability to determine the tactics of infectious disease prevention diseases in children

Expected learning outcomes.

As a result of studying the academic discipline, the the applicant must:

Know: work on the organization and implementation of preventive vaccinations in children, adverse events during vaccination, emergency care for anaphylactic shock and allergic reactions

Be able to:

- Plan and carry out preventive vaccinations in children
- Analyze the vaccination calendar.
- Draw up a vaccination schedule for children with a violation of the vaccination calendar.
- Communicate with the child's parents regarding the need for vaccination and drawing up an individual vaccination schedule for the child
- Organize the vaccination office.
- Fulfill the requirements for storage, transportation and use of vaccines.
- Fill in the informed consent for vaccination.
- Perform medical manipulations with various vaccine administration techniques.
- Communicate with anti-vaccinators.
- To analyze the causes of the development of adverse events during vaccination.
- To prevent adverse events during immunization.
- Provide notifications and recommendations for surveillance of adverse events during vaccination.

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- Determine the tactics and provide emergency medical aid in case of anaphylactic shock.
- Provide emergency care for allergic reactions during vaccination: acute urticaria, angioedema
- Keep medical documentation for vaccinations in children

DESCRIPTION OF THE EDUCATIONAL DISCIPLINE

The discipline will be taught in the form of seminars (16 classroom hours); organizing the student's independent work (29 hours).

Teaching methods: discussion of theoretical issues, frontal survey on basic terminology, testing, role-playing games for mastering communication skills with a child or his parents, planning and carrying out preventive vaccinations for children and adults (work in a team).

The content of the educational discipline

Topic 1. Work on the organization and conduction of preventive vaccinations in children.

Vaccination according to the calendar. Classification of vaccines. Mandatory and recommended vaccines.

Topic 2. Work on the organization and conduction of preventive vaccinations in children.

Vaccination of children with calendar violations.

Topic №3 Practical skills of vaccination.

Organization of the vaccination room. Vaccine administration technique. Combination of vaccines.

Topic №4 Development of communication skills in vaccination of children.

Communicating with parents about the need for vaccination and drawing up an individual vaccination schedule for the child. Work with anti-vaccinators.

Topic №5 Adverse events during vaccination.

Complicated course of the post-vaccination period. Post-vaccine reactions. Post-vaccination complications. Notices and recommendations for the supervision of adverse events during vaccination.

Topic №6 Emergency care for anaphylactic shock

Criteria for anaphylactic shock. Clinic of anaphylactic shock. First aid algorithm.

Topic №7 Emergency care for allergic reactions

Allergic reactions not related to anaphylaxis (urticaria, angioneurotic edema): clinic, diagnosis, treatment.

Topic 8. Informed consent for vaccination.

List of recommended reading:

Basic:

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1. 1. Nelson Textbook of Pediatrics / R. M. Kliegman [et al.] ; ed. R. E. Behrman. - 21th ed. - Edinburgh [etc.] : Elsevier, 2020. - Vol. 1. – LXXV.

2. Nelson Textbook of Pediatrics [Text] / R. M. Kliegman [et al.] ; ed. R. E. Behrman. - 21th ed. - Edinburgh [etc.] : Elsevier, 2020. - Vol. 2. - LXXV.

Additionally

1. E-learning course on Vaccine Safety Basics. Electronic vaccine safety training course <http://vaccine-safety-training.org/>

2. WHO Global Vaccine Safety Page. WHO Global Vaccine Safety page https://www.who.int/vaccine_safety/publications/en/

3. ACIP General Best Practice Guidelines for Immunization | CDC

4. World Health Organization <https://www.who.int>

5. General principles for vaccine scheduling

[cdc.gov/vaccines/hcp/acip-recs/general-recs/timing.html](https://www.cdc.gov/vaccines/hcp/acip-recs/general-recs/timing.html)

6. Information on travel vaccination requirements <https://www.cdc.gov/travel>

EVALUATION

Forms and methods of current control: oral (survey, participation in a role-playing game), practical (working with the patient and his parents), assessment of communication skills and activity in the class

EVALUATION OF KNOWLEDGE (DISTRIBUTION OF POINTS)

Forms and methods of current control: oral, written, practical.

Final control - a test

Means of diagnosing learning success: questions for current control, clinical tasks, role-playing cases, questions for final control, performance of practical skills on simulation equipment, individual tasks.

Current assessment criteria for the seminar session:

Excellent "5"	The applicant for higher education is fluent in the material, takes an active part in role games, discussing and solving a situational clinical problem, confidently demonstrates practical skills during the examination of a sick child and interpretation of clinical, laboratory and instrumental studies, expresses his opinion on the topic of the lesson, demonstrates clinical thinking.
Good "4"	The applicant for higher education is well versed in the material, participates in the role games, discussion and solution of the situational clinical problem, demonstrates practical skills during the examination of a sick child and interpretation of clinical, laboratory and instrumental studies with some errors, expresses his opinion on the topic, demonstrates clinical thinking.
Satisfactorily	The applicant for higher education does not have enough material, insecurely participates in the role games, discussion and solution of the situational

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"3"	clinical problem, demonstrates practical skills during the examination of a sick child and interpretation of clinical, laboratory and instrumental studies with significant errors.
Unsatisfactorily "2"	The applicant for higher education does not have the material, does not participate in the role games, discussion and solution of the situational clinical problem, does not demonstrate practical skills during the examination of a sick child and the interpretation of clinical, laboratory and instrumental studies.

FINAL EXAMINATION - a credit given to the applicant for higher education who has completed all sections of the educational program of a selective discipline, actively participated in seminars, has an average current grade of at least 3.0 and has no academic debt. Possibility and conditions of obtaining additional (bonus) points: not provided.

SELF-MAKE WORK OF HIGHER EDUCATION ACQUIRES

Independent work involves only preparation for each seminar.

POLICY OF THE EDUCATIONAL DISCIPLINE

Deadline and retake policy:

1. Class absences for disrespectful reasons are worked out according to the schedule of the teacher on duty.
2. Class absences for valid reasons are worked out according to the individual schedule with the permission of the dean's office.

Policy of the academic integrity:

Adherence to academic integrity by students involves:

- ♦ independent performance of educational tasks, tasks of current and final control of studying outcomes (for persons with special educational needs this requirement is applied taking into account their individual needs and capabilities);
- ♦ links to sources of information in the case of the use of ideas, developments, statements, information;
- ♦ compliance with the law on copyright and related rights;
- ♦ providing reliable information about the results of their own (scientific, creative) activities, used research methods and sources of information.

Unacceptable in educational activities for participants in the educational process are:

- ♦ use of family or business relationships to obtain a positive or higher assessment in the implementation of any form of control over learning outcomes or preferences in scientific work;
- ♦ use of prohibited auxiliary materials or technical means (cheat sheets, abstracts, headphones, telephones, smartphones, tablets, etc.) during control measures;
- ♦ passing the procedures of control of learning outcomes by fictitious persons.

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For violation of academic integrity, students may be held subject to the following academic liability:

- reduction of the results of assessment of exams, tests, etc.;
- re-assessment (exam, test, etc.);
- appointment of additional control measures (additional individual tasks, tests, etc.);

Policy of the attendance and lateness:

Dress code: a medical gown that completely covers outerwear or medical pajamas, a medical cap, a mask, changeable shoes.

Equipment: notebook, pen, stethoscope, medical latex gloves.

Health status: the applicant of the higher education suffering from acute infectious diseases, including respiratory diseases, are not allowed to study.

Start of classes: 8.30 am.

The applicant who is late for class may be present, but if the teacher put "absence" in the journal, he must work it out in the general order.

Mobile devices: can be used with the permission of the teacher, if they are needed to perform the task.

Behavior in the audience: working, calm.