

**Odessa National Medical University**  
**Faculty of Medicine**  
**Department of Infectious Diseases**

**Syllabus of**  
**" VACCINE PROPHYLAXIS OF INFECTIOUS DISEASES" course**

Volume	3.0 ECTS credits, 90 hours
Semester, year of study	X, XI semesters, 6th year of study
Days, time, place of study	according to the schedule of classes with a cyclic form of study
Contact phone	0965672822
Email	mariachubach@gmail.com
Workplace	Department of Infectious Diseases, classrooms
Consultations	On Thursday 14: 30-16: 00 On Saturday 09: 00-13: 00 Consultations and reworking of missed classes are held according to the schedule of consultations and reworking (the schedule is posted at the link <a href="https://info.odmu.edu.ua/chair/infectious_diseases/">https://info.odmu.edu.ua/chair/infectious_diseases/</a> )

### **COMMUNICATION**

Practical classes are held in Teams or Zoom.

Calendar-thematic plans of practical classes and lectures are posted in the materials of the department in the ONMedU library's blog at the link ([https://info.odmu.edu.ua/chair/infectious\\_diseases/](https://info.odmu.edu.ua/chair/infectious_diseases/))

Written assignments will be sent via Viber (phone 0965672822).

Written works should be sent to [mariachubach@gmail.com](mailto:mariachubach@gmail.com)

Face-to-face meetings during quarantine are not held.

Reworking of missed classes are held online in Skype.

Skype address: live:.cid.43fe53efaed74d94

### **COURSE ANNOTATION**

**The subject of study** of the discipline is Vaccine prophylaxis of infectious diseases.

**Prerequisites:** to master the discipline requires knowledge, skills and abilities of such disciplines as medical and biological physics, microbiology, virology and immunology, physiology, pathophysiology, clinical pharmacology, internal medicine, surgery.

**Postrequisites:** knowledge, skills and abilities in the "infectious diseases" discipline are necessary for the study of internal medicine, surgery, neurology, dermatology, epidemiology, ophthalmology, otolaryngology, endocrinology, resuscitation.

**The aim of the "Vaccine prophylaxis of infectious diseases" course** is to develop skills to establish a preliminary diagnosis, make a plan of examination and treatment of infectious patients, diagnose emergencies and provide pre-hospital care, plan and implement preventive and quarantine measures for the most common and especially dangerous infectious diseases.

**Tasks of discipline:**

1. Formation of the ability to assess the socio-economic and medical-biological basis for the prevention of infectious diseases.
2. Formation of skills to define the concepts of "immunity" and "immunopathological conditions".
3. Formation of the ability to assess post-vaccination immunity.
4. Formation of the ability to assess the storage conditions of vaccines and toxoids. "Cold chain"
5. Formation of the ability to organize immunoprophylaxis in Ukraine, knowledge of the Article of the Constitution of Ukraine and current Laws of Ukraine, Orders of the Ministry of Health of Ukraine governing immunoprophylaxis.
6. Formation of the ability to compile a calendar of preventive vaccinations in Ukraine.
7. Formation of skills to determine contraindications to vaccinations
8. Formation of the ability to assess postvaccination reactions and complications.
9. Formation of the ability to assess the epidemiological and immunological effectiveness of immunoprophylaxis.
10. Formation of the ability to assess the features of vaccination in endemic and enzootic areas.

**Expected results.**

As a result of studying the discipline, applicants for higher education should be able to:

- to assess the socio-economic and medical-biological bases of prevention of infectious diseases
- define the concepts of "immunity" and "immunopathological conditions"
- evaluated post-vaccination immunity
- assess the storage conditions of vaccines and toxoids
- to organize immunoprophylaxis in Ukraine
- to determine contraindications to vaccinations
- predict post-vaccination reactions and complications
- evaluate the epidemiological and immunological effectiveness of immunoprophylaxis
- to determine the features of vaccination in endemic and enzootic areas
- to determine the features of vaccination of different groups of the population (according to epidemic indications, pregnant, lactating, adults with comorbidities, with immunodeficiency
- to be vaccinated in the conditions of the COVID-19 pandemic
- co-administration of vaccines

## **COURSE DESCRIPTION**

### **Forms and methods of teaching.**

The course will be presented in such forms: practical classes (20 hours) and independent work of students (70 hours).

During the teaching of the discipline, interactive methods (presentations on recommended topics, photo-tasks) and distance forms of studying at the time of quarantine are used.

Consultations are held individually on certain days according to the approved schedule of consultations and reworking.

### **Course content:**

- Topic 1. General information about immunity and immunopathological conditions
- Topic 2. Drugs used for immunoprophylaxis of infectious diseases. Vaccines, their types
- Topic 3. Organization of immunoprophylaxis in Ukraine. Articles of the Constitution of Ukraine and current Laws of Ukraine. Orders of the Ministry of Health of Ukraine regulating immunoprophylaxis
- Topic 4. Calendar of preventive vaccinations in Ukraine. Vaccination by age
- Topic 5. Post-vaccination reactions and complications
- Topic 6. Vaccination of adults with comorbidities
- Topic 7. Emergency prevention of tetanus
- Topic 8. Immunoprophylaxis of viral hepatitis (hepatitis A, hepatitis B)
- Topic 9. Immunoprophylaxis of rabies
- Topic 10. Vaccination in a pandemic COVID-19.

## **LITERATURE.**

1. Vynograd. — 3rd edition, corrected K.: ВСВ «Медицина», 2017. – 128 с.
2. Tropical infections : manual / ed. by M.A. Andreychyn, V.D. Moskaliuk. – Lviv : «Magnolia 2006», 2019. – 220 p.

### **II.**

1. Methodical instruction of the practical lesson for the students.

### **III. Additional literature**

1. Infectious Diseases. The course of the lectures for the students of the medical institutes / Edited by professor E.V. Nikitin/ -Odessa, 2001. – 441 p.
2. Recommendations of international organization.

### **IV. The Internet resources**

1. Pigott D.C. Viral Hemorrhagic Fevers [Электронный ресурс] / D.C. Pigott. — Режим доступа: <http://emedicine.medscape.com/article/830594-overview>.
2. Hantaviruses [Электронный ресурс]. — Режим доступа: <http://virology-online.com/viruses/Hantaviruses.htm>.
3. ICD-10 Version: 2010 [Электронный ресурс]. — Режим доступа: <http://apps.who.int/classification/apps/icd/icd10online>.
4. International travel and health [Электронный ресурс] / WHO, 2010. — Режим доступа: <http://www.who.int/ith/en/>.
5. Rickettsial Infection <http://emedicine.medscape.com/article/231374-overview>.

6. Gompf S.G. Arenaviruses [Электронный ресурс] /S.G. Gompf, K.M. Smith, U. Choc. — Режим доступа: <http://emedicine.medscape.com/article/212356-overview>.
7. Thyphus [Электронный ресурс] / J.F. Okulicz, M.S. Rasnake, E.A. Hansen, B.A. Cunha. — Режим доступа: <http://emedicine.medscape.com/article/231374-overview>

## EVALUATION

### **Evaluation of current educational activities.**

The current student's educational activity is evaluated on a 4-point (traditional) scale. At the end of the course, the current performance is calculated as the average score of all grades obtained by the student on a traditional scale, rounded to 2 (two) decimal places.

Daily assessment of current learning activities consists of assessing the writing of tests from the KROK-2 database, patient examination protocols, writing medical history (during distance learning are used virtual patients), theoretical protocols, oral answers during online practical classes, interpretation of blood tests and CSF, solution of clinical situational tasks.

A grade "excellent" is given if the student knows the content of the lesson and lecture material in full, gives comprehensive answers and presents the material without errors and inaccuracies, freely solves problems and performs practical skills of varying difficulty.

A grade "good" is given if the student knows the content of the lesson and lecture material almost in full, gives correct but not exhaustive answers to questions. Solves problems and performs practical skills without significant mistakes.

The grade "satisfactory" is given if the student does not know the content of the lesson and lecture material in full. Presents the material not systematically, but answers correctly to the clarifying questions. Solves problems and performs practical skills with mistakes.

The grade "unsatisfactory" is given if the student does not know the content of the lesson and lecture material, solves problems and performs practical skills with significant errors.

### **Assessment of students' independent work.**

Students' independent work, which corresponds to the topic of the classroom work, is assessed during the current control of this topic. Assimilation of topics that are submitted only for independent work is checked during the exam or differential test. During the course, students fill in a SIW notebook (answers to questions, solves situational tasks).

### **Final control (test).**

Students who have attended all the classes provided by the curriculum, have written tests from the KPOK-2 database (more than 90%) are admitted to the test. The final control of tests is evaluated on a two-point scale:

- "credited" - the student has completed the curriculum of the discipline, no academic debt;

- "not credited" - the student has not completed the curriculum of the discipline, has academic debt and is converted according to a 200-point system.

## **COURSE POLICY**

### **Deadline and retake policy**

Students must rework all missed classroom classes within 2 weeks. Students who have no more than 2 missed classroom classes without a valid reason can rework them for 2 weeks without the dean's or the faculty permission. Students who have not reworked the missed classes within 2 weeks from the date of missed classes are not allowed to attend classes and are sent to the dean's office for permission. Students who have more than 2 missed classes without a valid reason, are not allowed to study and rework without the dean's or the faculty permission and are sent to the dean's office.

Students who missed classes for a good reason for more than 2 days, can rework them on an individual schedule, drawn up by the department and approved by the dean of the faculty.

Missed practical classes are reworked by the student to the duty teacher according to the department's schedule: during the semester - twice a week (Thursday and Saturday are the days of reworks and consultations). During the semester no more than 1 lesson can be reworked on Thursday and no more than 3 on Saturday (notes: Thursday - 14.30-16.00; Saturday - 9.00-13.00). Before reworking the student has to show his/her student card to the duty teacher.

Only for the period of temporary suspension of classroom classes (for the period of distance learning) students may rework all academic debts without the dean's or the faculty permission.

Rework is successful if the student has received a positive mark.

### **Academic Integrity Policy**

Adherence to academic integrity by students requires:

- independent performance of educational tasks and current and final control's tasks;
- links to sources of information in case of using ideas, developments, statements or information.

Using of prohibited materials or technical means (cheat sheets, notes, headphones, phones, smartphones etc.) during control activities is unacceptable in educational activities for the educational process participants.

### **Attendance and lateness policy**

Attendance of classroom classes is required. If the student is late for class, he/she may be present at the class but with a mark of his/her absence.

### **Mobile devices**

Using of mobile devices is prohibited during the classroom lessons.

### **Behavior in the audience**

During the classroom lessons the students must behave in accordance with the rules of ethics, the Regulations of the educational process organization for applicants of higher education at Odessa National Medical University and the Regulations of humanitarian education organization and educational work at Odessa National Medical University.