

**Brief description of the discipline (abstract) for the catalog of  
selective course**

\_\_\_\_\_ Immunoprophylaxis of infectious diseases \_\_\_\_\_  
(name of selective course)

<b>Speciality</b>	Medicine 222 (22 Health Care)
<b>Educational level</b>	Master
<b>Term of study (course)</b>	6 course
<b>Form of study</b>	Full-time
<b>Department</b>	Pediatrics and Pediatric Infectious Diseases

**Summary of the course:** The importance for teaching elective course "Immunoprophylaxis of infectious diseases" caused considerable prevalence of infectious diseases in the world in general and in Ukraine in particular, especially pay attention to outbreaks of vaccine-controlled (managed) diseases (measles, diphtheria, tuberculosis, etc.). The spread of these diseases is an urgent medical and social problem, as it is economically unreasonable to spend the resources of health care facilities to provide care to patients, although it was appropriate and less costly to carry out preventive measures. Historical experience proves the possibility of a significant reduction of the incidence of infectious diseases, which was associated with immunization, for example, humanity has eliminated such a dangerous disease as smallpox, and the polio is limited to endemic areas.

Despite the fact that the WHO declared the elimination of measles, rubella and polio as one of the strategies, because of active anti-vaccination campaigns in 2016-17, the official vaccination coverage level in Ukraine was the lowest in Europe and one of the lowest in the world. A significant reduction of routine vaccination coverage worldwide in the context of the COVID-19 pandemic is also a problem. One of the reasons for this situation can be desynchronization of the learning of immunoprophylaxis at the pre- and postgraduate stages of doctors' education, some aspects of special immunoprophylaxis are covered differently in microbiology, infectious diseases, surgery and pediatrics classes, One of the reasons for this situation can be considered and desynchronization of the study of immunoprophylaxis at the pre- and postgraduate stages of training of doctors, some aspects of special immunoprophylaxis are covered differently in the study of microbiology, infectious diseases, surgery and pediatrics, at the same time, there is

no generalized, practical and socially oriented course on immunization. The Ministry of Health of Ukraine recommended to include priority issues of disease prevention, vaccination and immunization in the exam "Krok 2. Medicine", the Center for testing the professional competence of specialists in higher education in "medicine" and "pharmacy" of the Ministry of Health of Ukraine in letter №242 from 24.04.2018 explained additional training of students on disease prevention, vaccination and immunization.

During the study of the elective course students will be provided with modern knowledge about position paper of vaccination in Ukraine and the European Union; types of immunoprophylaxis and the feasibility of their implementation in specific situations; classification of immunization drugs, rules of their storage and transportation; main components of vaccines, their purpose; criteria for an effective vaccine and conditions for effective vaccination; increase communication during immunization; creating a personal vaccine trajectory for healthy individuals and patients with various health disorders; management of adverse events after immunization. Practical classes include elements of interactive technologies, in particular, master classes and simulation scenarios. Upon completion of the course, the student will be able to determine the rationale for immunization, planning vaccinations in different cohorts of the population, identifying real medical contraindications, preventing the development of post-vaccination reactions and complications with the acquisition of appropriate competencies.

**Approximate list of training topics (lectures, practical, seminar):**

1. Organization of immunoprophylaxis in Ukraine and abroad. Organization of support for immunoprophylaxis at the society. Provaccination communication.
2. Fundamentals of the immune response as a result of immunization.
3. Types of immunoprophylaxis. Active and passive immunoprophylaxis. Training on choosing the type of immunoprophylaxis in specific situations.
4. Vaccination. Schedule of preventive vaccinations in Ukraine. Classification of vaccines. Training on creating a vaccine trajectory for a healthy child of different ages.
5. Contraindications and precautions to vaccination. Adverse events after immunization. Master class on the management of side effects of vaccination, Anaphylactic shock.
6. Immunoprophylaxis of infectious diseases in children with health disorders and special conditions. Training to create a vaccine trajectory for a child with disabilities.
7. Conducting a vaccination session. Master class on preparation and vaccination.
8. Immunoprophylaxis of certain infectious diseases.

**The list of competencies, the acquisition of which will provide the discipline:**

General competencies:

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. Understanding of subject area and professional activity

GC4. Ability to adapt and act in a new situation

GC5. Ability to make an informed decision; work in a team; interpersonal communicational skills

GC7. Skills in the use of information and communication technologies

GC8. Definiteness and perseverance in terms of tasks and responsibilities

GC9. Ability to act with social responsibilities and awareness

Special (professional, subject) competencies:

SC1. Skills of interviewing and clinical examination of the patient

SC2. Ability to determine the required list of laboratory and instrumental investigations and evaluate their results

SC3. Ability to make a preliminary and clinical diagnosis of the disease

SC4. Ability to determine the required mode of work and rest in the treatment of diseases

SC6. Ability to determine the principles of treatment of diseases

SC7. Ability to diagnose emergencies

SC8. Ability to determine the tactics of emergency medical care

SC9. Emergency care skills

SC11. Skills to perform medical manipulations

SC13. Ability to carry out sanitary and hygienic and preventive measures

SC14. Ability to plan and conduct preventive and anti-epidemic measures against infectious diseases

SC17. Ability to complete medical records

SC18. Ability to conduct epidemiological and medical statistical studies

**The list of scientific and pedagogical (pedagogical) employees who will ensure the conduct of the elective course:**

1. Associate Professor Garas M.N.

2. Associate Professor Bogutska N.K.

3. Associate Professor Marusyk Ul.I

4. Associate Professor Sazhyn S.I.

5. As. Gorbatiuk I.B.