

## Brief description of the discipline (abstract) for the catalog of elective course

Vaccination in the COVID-19 pandemic era

(name of elective course)

<b>Speciality</b>	Medicine 222 (22 Health Care)
<b>Educational level</b>	Master
<b>Term of study (course)</b>	5 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 " Vaccination in the COVID-19 pandemic era" 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 with special emphasis on vaccination against coronavirus infection COVID-19 and immunoprophylaxis of other infectious diseases in a pandemic. Recent outbreaks of vaccine-controlled (controlled) diseases (measles, diphtheria, polio, tuberculosis, etc.) have been the result of reduced coverage of routine vaccinations. A significant reduction of routine vaccination coverage worldwide in the context of the COVID-19 pandemic is also a problem.

Five years ago, the official vaccination coverage level in Ukraine was the lowest in Europe and one of the lowest in the world. One of the reasons for this situation can be desynchronization of the learning of immunoprophylaxis, 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 in COVID-19 pandemic era. Prevaccination 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. Vaccination schedule. Classification of vaccines. Training on creating a vaccine trajectory for a healthy child of different ages.
5. Contraindications and precautions to vaccination. Adverse events following 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. Vaccination session. Master class on preparation and vaccination.
8. Immunoprophylaxis of COVID-19 and 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 Mykola Garas
2. Associate Professor Natalia Bogutska
3. Associate Professor Uliana Marusyk
4. Associate Professor Sergiy Sazhyn
5. Assistant Inna Gorbatiuk

**Head of the Department \_\_\_\_\_ prof. Olena Koloskova**