

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

**Respiratory diseases in the practice of a pediatrician. Differential diagnosis
and emergency care (simulation training course)**

(title of elective course)

Specialty	Medicine 222 (22 – health care)
Educational level	Master
Term of study (course)	3 weeks (5th course)
Form of study	Full-time
Department	Department of Pediatrics and Pediatric Infectious Diseases

Summary of the course "Respiratory diseases in the practice of a pediatrician. Differential diagnosis and emergency care (simulation training course)". Respiratory diseases are the most common diseases in children of any age. Respiratory diseases in children are not only common, but also are the significant causes of the mortality rate. In particular, pneumonia or lung tissue inflammation is the leading cause of mortality in children under the age of five years old (20% of all cases), killing more than 4,000 children each day worldwide, approximately 1.8 million children each year - more than AIDS, malaria and measles taken together. In addition, bronchiolitis, stenotic laryngotracheitis, bacterial endobronchitis, epiglottitis, pharyngeal abscess, severe pneumothorax, asthmatic status, airway foreign body can be potentially life-threatening in childhood. In Pediatrics the indications for resuscitation are mostly caused by decompensation of respiratory diseases. In addition, onset of the chronic respiratory diseases in children is accompanied by persistent cough, shortness of breath, cyanosis or other respiratory manifestations, for which there are special algorithms for diagnosis, differential diagnosis and subsequent management. The possibilities of primary prevention of infectious diseases of the respiratory system and prevention of exacerbations of chronic pathology are available and wide due to vaccination. It is planned to study the discipline with elements of simulation training, problem-oriented learning with audio and videocases, as well as analysis of patients' cases from the departments of pulmonology, drip infections, infectious diseases of young children, neonatal pathology and intensive care unit.

Approximate list of topics for studying (lectures, practical, seminar classes):

1. Anatomical and physiological features of the respiratory system in childhood.
2. Simple colds in childhood. Differential diagnosis.
3. Differential diagnosis of acute and persistent cough syndrome in children (simulation scenario).
4. Differential diagnosis of shortness of breath syndrome (stridor, grants, wheezing and other respiratory phenomena), differential diagnosis (simulation scenario).
5. X-ray diagnosis of respiratory diseases in pediatric practice (training).
6. Pneumonia and its complications. Differential diagnosis and tactics. Recurrent pneumonia syndrome.
7. Emergency care for acute respiratory failure in children (training).
8. Diagnosis of respiratory allergies in children. Spirometry. Allergy diagnostics (training).
9. Syndrome of acute and persistent bronchial obstruction, differential diagnosis (simulation scenario).
10. Differential diagnosis of hereditary and congenital diseases of the bronchopulmonary system in children. Bronchopulmonary dysplasia (analysis of patients).

11. Diagnosis of cystic fibrosis, idiopathic pulmonary hemosiderosis, primary ciliary dyskinesia, Williams-Campbell syndrome, bronchomalacia, aplasia and hypoplasia of the lungs, alpha-1-antitrypsin deficiency, double aortic arch in children (analysis).
12. Differential diagnosis of respiratory disorders in newborns. Management tactics, emergency care, prevention (analysis of patients).
13. Differential diagnosis of infectious diseases with tonsillitis syndrome. ENT complications in acute respiratory infections (simulation scenario).
14. Features of cardiopulmonary resuscitation in children of different ages (training on dummies).
15. Vaccine prophylaxis of respiratory diseases in children.

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

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 an informed decision; work in a team; interpersonal skills
GC7	Skills in the use of information and communication technologies
GC8	Definiteness and perseverance in terms of tasks and responsibilities
SC1	Skills of interviewing and clinical examination of the patient
SC2	Ability to determine the required list of laboratory and instrumental studies and evaluate their results
SC3	Ability to establish 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 and nature of treatment of diseases
SC7	Ability to determine the tactics of emergency medical care.
SC8	Ability to determine the tactics of emergency medical care
SC9	Emergency care skills.
SC11	Skills of performing medical manipulations.
SC14	Ability to plan and conduct preventive and anti-epidemic measures against infectious diseases
SC15	Ability to determine the tactics of management of persons for their dispensary supervision (follow up)

GC general competences SC special competences

The list of scientific and pedagogical employees who will ensure the conduct of the discipline:

1. Bogutska N.K.
2. Bilyk G.A.
3. Garas M.N.
4. Ortemenka Ye.P.

Head of the Department _____ **prof. O.K. Koloskova**
(signature)