

MINISTRY OF HEALTH OF UKRAINE  
KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Pediatrics No.1 and Neonatology  
Academic year 2021/2022

**SYLLABUS OF THE EDUCATIONAL DISCIPLINE  
THE FUNDAMENTALS OF EVIDENCE PULMONOLOGY  
AND VACCINATION STANDARDS IN PEDIATRICS**

Elective educational component

Form of education – full-time, distance

Educational program for training specialists of the second (Master's) level  
of higher education training 22 "Healthcare"  
in specialty 222 "Medicine"

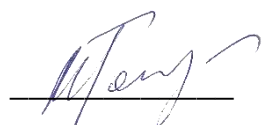
6<sup>th</sup> year

Syllabus of the discipline was  
approved at the meeting of the  
Department of Pediatrics No.1 and  
Neonatology

Protocol No.1 from

"27" August 2021

Head of Department



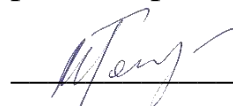
prof. M. Gonchar

Approved by the methodical  
commission of KhNMU on problems  
of professional training  
pediatric profile

Protocol No.1 from

"27" August 2021

Chairperson of the methodical  
commission of KhNMU on problems  
of professional training  
pediatric profile



prof. M. Gonchar

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**Direct consultations:** time and location according to the department schedule.

**On-line consultations:** Moodle, Google Meet, Zoom – schedule and location according to prior agreement with a lecturer

**Location:** Municipal Non-profit Organization of the Kharkiv Regional Council  
«Regional Clinical Hospital» Regional Perinatal Centre

## INTRODUCTION

The syllabus of the discipline "The fundamentals of evidence pulmonology and vaccination standards in pediatrics" is compiled in accordance with the educational-professional program "Medicine", the second (Master's) level, field of knowledge 22 "Healthcare".

### **Object of the discipline**

Discipline "The fundamentals of evidence pulmonology and vaccination standards in pediatrics" for the 6<sup>th</sup> year to provide training for highly qualified specialists in the field of medicine, namely in pediatrics pulmonology, able to solve complex problems of diagnostics, treatment and prevention of childhood diseases.

Training of highly qualified specialists in the field of pediatrics, capable to solve complex problems of diagnosis and treatment of newborns with different ages of gestation.

**Subject of the discipline:** diseases of the bronchopulmonary system in children, vaccination standards in pediatrics.

### **Interdisciplinary links:**

#### **Prerequisites and co-requisites of the discipline**

The discipline is related to the disciplines of medical biology, normal and pathological anatomy, normal and pathological physiology, biochemistry, microbiology, propaedeutics of pediatrics, medical genetics, pharmacology and medical prescription, epidemiology and principles of evidence-based medicine, emergency care, and also have practical skills in caring for pediatric patients and their management in outpatient and inpatient settings.

#### **Post-requisites of the discipline.**

The main provisions of the training discipline should be applied in the study of related disciplines during the 6<sup>th</sup> year of study, is the basis for preparing for the licensed exam, preparing for study in higher education institutions at the programs of the third educational and scientific level.

## 1. PURPOSE AND TASKS OF THE COURSE

**1.1. The purpose of the study:** According to the training program in the discipline of "The fundamentals of evidence pulmonology and vaccination standards in pediatrics", the applicant receives theoretical knowledge, methodological training, practical skills and abilities in the differential diagnostics of the most common children respiratory diseases. Emergency care for major emergencies.

The course covers the main aspects of training a future pediatrician, family doctor or neonatologist.

**1.2. The main objectives** of the course are the acquisition general and professional competencies of the educational and professional program "Medicine" of the second level of higher education, specialty 222 "Medicine".

**1.3. Competences and learning outcomes**, the formation of which is facilitated by the discipline:

1.3.1. The study of the discipline provides students with the acquisition of competencies:

- Integrated competencies:

ability to solve typical and complex specialized tasks and practical problems in professional activities in the field of health care, or in the learning process, which involves research and/or innovation and is characterized by complex and uncertain conditions and requirements.

- General competencies:

ability for abstract thinking, analysis and synthesis, ability to learn and to be trained; the ability to apply knowledge in practical situations; knowledge and understanding of the subject area and understanding of professional activities; adaptability and action in a new situation; the ability to make informed decisions; work in a team; interpersonal interaction skills; ability to communicate effectively in certain language with using both personal skills and appropriate technology; to be certain and responsible for any activities and take into account all social aspects.

- Professional competencies in pediatrics:

Survey skills; ability to identify and evaluate a list of necessary laboratory and instrumental investigations; ability to establish a preliminary and clinical diagnosis of the disease; ability to determine the necessary regimens of work, rest and nutrition; the ability to define causes and principles of treatment of disease; ability to diagnose and provide an intensive care in emergency conditions; medical manipulation skills; the ability to plan and implement sanitary, preventive and anti-epidemic events, including infectious diseases; the ability to define tactics for the management of persons subject to dispensary supervision; ability to make medical records.

1.3.2. The study of the discipline provides students with the acquisition of the following program learning outcomes:

PRT 1 – to have general and special fundamental and profession-oriented knowledge, abilities, skills and competences required for carrying out typical professional tasks, which are associated with activity in the medical field in a particular position;

PRT 2 – to have knowledge about psychophysiological peculiarities of human, human health, health support, prophylaxis of diseases, treatment of human, health of population.

Use of knowledge and understanding:

PRT 3 – to apply the acquired knowledge, skills and understanding for performing typical tasks in the doctor's activity, whose sphere of use is determined by lists of syndromes, signs and symptoms, diseases, medical emergencies, laboratory and instrumental methods of examination, medical manipulations;

PRT 4 – to collect information about the patient;

PRT 5 – to evaluate results of questioning, physical examination, data of laboratory and instrumental methods of examination;

PRT 6 – to establish of an initial clinical diagnosis of a disease;

PRT 7 – to determine the character and principles of treatment of diseases;

PRT 8 – to determine the required diet, mode of work and rest in treating diseases;

PRT 9 – to determine the tactics for managing the person's subject for regular medical check-ups;

PRT 10 – to diagnose medical emergencies, determine tactics for provision of emergency medical aid;

PRT 15 – to perform medical manipulations;

PRT 17 – be able to keep medical documents and processing state, social and medical information.

Formation of judgements:

PRT 18 –to assess the state of human health and provide its support with consideration of effects of the environment and other determinants of health;

PRT 20 – to apply the acquired knowledge about the current system of health care for optimization of one's own professional activity and participation in performing practical tasks in the field;

PRT 21 – to adhere to the ethical code of the doctor, which ensures the formation of a specialist with appropriate personal qualities.

The study of this discipline promotes development of the following soft skills:

- communicability (implemented through: workingin groups with brainstorming during the analysis of clinical cases, presenting results of independent work to the group),
- teamwork (implemented through: workingin groups with brainstorming during the analysis of clinical cases),
- conflict management (implemented through: business games),
- time management (implemented through: self-organization during working in groups and individually),

- leadership skills (implemented through: presenting the results of individual work for the group).

## 2. CURRICULUM OF THE DISCIPLINE

Parameters	Field of Knowledge, Specialty, Educational Level	Characteristics
		full-time
Credits – 3	Field of Knowledge 22 «Healthcare»	Elective
Total hours – 90	Specialty: 222 «Medicine»	<b>Year of training:</b> 6 <sup>th</sup>
		<b>Semester:</b> 11-12 <sup>th</sup>
		<b>Lectures</b> 0
		<b>Practical classes, seminars</b> 30 hours
Hours: Auditorium – 30 Independent work – 60	Educational Level: Master	<b>Laboratory classes</b> 0
		<b>Independent work</b> 60 hours
		<b>Individual tasks:</b> Control type: <b>credit</b>

### 2.1 Опис дисципліни

**2.2.1 Lectures** – Not provided

**2.2.2 Seminars** – Not provided

**2.2.3 Practical classes:**

#	Topic	Hours	Methods	Control
1	2	3	4	5
1	Modern evidence base in pediatric pulmonology. The diagnostic standards	5	Work on children's manVerbal (explanation, conversation, discussion), Visual (presentation, videos), business, role play, (case simulation, delegation of duites), case method, debates, brainstorming,	oral examination (individual and frontal); written survey; test control



			interactive virtual cases, use of mannequins to practice skills	
2	The asthma in children: modern standards diagnostics and treatment of bronchial asthma (GINA, NYHA)	5	Verbal (explanation, conversation, discussion), Visual (presentation, videos), business, role play, (case simulation, delegation of duties), case method, debates, brainstorming, interactive virtual cases, use of mannequins	oral examination (individual and frontal); written survey; test control
3	Community Acquired and nosocomial children pneumonias. Standards of diagnosis and treatment. Empirical and specific antibiotic therapy in the practice of a pediatrician.	5	Verbal (explanation, conversation, discussion), Visual (presentation, videos), business, role play, (case simulation, delegation of duties), case method, debates, brainstorming, interactive virtual cases, use of mannequins	oral examination (individual and frontal); written survey; test control
4	Children Interstitial lung diseases	5	Verbal (explanation, conversation, discussion), Visual (presentation, videos), business, role	oral examination (individual and frontal); written survey; test control

			play, (case simulation, delegation of duties), case method, debates, brainstorming, interactive virtual cases, use of mannequins	
5	Differential diagnosis of hereditary, congenital and chronic diseases of the children's bronchopulmonary system.	5	Verbal (explanation, conversation, discussion), Visual (presentation, videos), business, role play, (case simulation, delegation of duties), case method, debates, brainstorming, interactive virtual cases, use of mannequins	oral examination (individual and frontal); written survey; test control
6	Tactics of managing children at risk during vaccination. Complications of vaccination and treatment. Vaccination barriers and myths. Test.	5	Verbal (explanation, conversation, discussion), Visual (presentation, videos), business, role play, (case simulation, delegation of duties), case method, debates, brainstorming, interactive virtual cases, use of mannequins	oral examination (individual and frontal); written survey; test control
	<b>Total hours</b>	<b>30</b>		

## 2.2.4. Laboratory classes – Not provided

## 2.2.5. Independent work:

#	Topic	Hours	Methods	Control
1	Differential diagnosis children coughs.	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
2	The obstructive children's syndrome	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
3	Bronchopulmonary dysplasia in children: modern principles of diagnosis and treatment.	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
4	Modern principles of diagnosis and treatment of children's cystic fibrosis.	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
5	Types and names of vaccines registered in Ukraine.	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
6	Modern world standards and approaches to vaccination of healthy children and children with somatic pathology	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
7	Vaccination according to the calendar of preventive vaccinations. Additional vaccination schedule: justification and age schedules	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
8	Features of the course and treatment of children's asthma under 5 years.	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
9	Features of pneumonia depending on the etiological pathogen	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
10	Modern diagnosis and treatment of children's interstitial pneumonia	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
11	Features of vaccination of adolescents.	5	Practical (self-education)	oral examination (individual and

				frontal); written survey; test control
12	Tactics for managing patients with vaccination-related anaphylaxis.	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
	Total hours	60		

### 3. EVALUATION CRITERIA

**3.1. Assessment of current learning activities (CLA).** Teachers make sure that every student received the necessary competence in the province included in the topics of practical classes. Assimilation of the topic (current control) is controlled in a practical lesson according to the specific goals. The following tools are used to assess the level of preparation of students: tests, solving situational problems, interpretation and evaluation of laboratory tests, methods of prescribing therapy, monitoring the acquisition of practical skills.

When assessing the mastery of each topic of the discipline the student is graded according to the traditional 4-point system: "excellent", "good", "satisfactory" or "unsatisfactory".

**Assessment of the discipline.** The final lesson (FL) is conducted in accordance with the program of academic discipline during the semester on schedule, during classes. Assessment of the discipline is given to the student at the last (final) lesson. The final score for the current learning activity (CLA) and the final lesson (FL) is defined as the arithmetic mean of the traditional grades for each class and FL, rounded to 2 decimal places and listed in a multi-point scale according to the standard Table 1 and «Instructions of assessment of current student's learning activities» or recalculation average grades of CLA into score according to the ECTC, which teacher can get automatically using electronic journal of Automated Control System (ACS).

Student should get minimum – 120 points, maximum – 200 points during current learning activities.

Table 1

#### Recalculation of the average grade for the current activity into a multi-point scale (for disciplines which are completed by the credit)

4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale
5	200	4.3-4,31	172	3.6-3,61	144
4.97-4,99	199	4,27-4,29	171	3.57-3,59	143

4.95-4,96	198	4.24-4,26	170	3.55-3,56	142
4.92-4,94	197	4.22-4,23	169	3.52-3,54	141
4.9-4,91	196	4.19-4,21	168	3.5-3,51	140
4.87-4,89	195	4.17-4,18	167	3.47-3,49	139
4.85-4,86	194	4.14-4,16	166	3.45-3,46	138
4.82-4,84	193	4.12-4,13	165	3.42-3,44	137
4.8-4,81	192	4.09-4,11	164	3.4-3,41	136
4.77-4,79	191	4.07-4,08	163	3.37-3,39	135
4.75-4,76	190	4.04-4,06	162	3.35-3,36	134
4.72-4,74	189	4.02-4,03	161	3.32-3,34	133
4.7-4,71	188	3.99-4,01	160	3.3-3,31	132
4.67-4,69	187	3.97-3,98	159	3.27-3,29	131
4.65-4,66	186	3.94-3,96	158	3.25-3,26	130
4.62-4,64	185	3.92-3,93	157	3.22-3,24	129
4.6-4,61	184	3.89-3,91	156	3.2-3,21	128
4.57-4,59	183	3.87-3,88	155	3.17-3,19	127
4.54-4,56	182	3.84-3,86	154	3.15-3,16	126
4.52-4,53	181	3.82-3,83	153	3.12-3,14	125
4.5-4,51	180	3.79-3,81	152	3.1-3,11	124
4.47-4,49	179	3.77-3,78	151	3.07-3,09	123
4.45-4,46	178	3.74-3,76	150	3.05-3,06	122
4.42-4,44	177	3.72-3,73	149	3.02-3,04	121
4.4-4,41	176	3.7-3,71	148	3-3,01	120
4.37-4,39	175	3.67-3,69	147	<b>Less than 3</b>	<b>Not enough</b>
4.35-4,36	174	3.65-3,66	146		
4.32-4,34	173	3.62-3,64	145		

### 3.2. Questions for credit:

1. Differential diagnosis of pneumonia in children. Tactics of patient management in different clinical variants of pneumonia. Prevention of pneumonia, its complications in children.
2. Differential diagnosis of complications of pneumonia (pleurisy, abscess, pyothorax, pneumothorax) in children. Tactics of patient management in different clinical variants of pneumonia complications in children.
3. Differential diagnosis of cough syndrome in children. Bronchitis and bronchiolitis in children. Tactics of patient management in different clinical variants of bronchitis in children. Prevention of bronchitis and bronchiolitis in children.
4. Emergency care for acute respiratory failure depending on the cause and severity.
5. Differential diagnosis of bronchial asthma and bronchial obstruction syndrome on the background of acute respiratory diseases in children of different ages. Establishing a preliminary diagnosis. Tactics of patient management in different clinical variants of bronchoobstructive syndrome and its complications in children.

6. Providing emergency care for asthmatic status.
7. Prevention of bronchial asthma and bronchial obstruction syndrome on the background of acute respiratory diseases in children of different ages in children.
8. Differential diagnosis of chronic, hereditary and congenital diseases of the bronchopulmonary system. Prevention of hereditary, congenital and chronic diseases of the bronchopulmonary system in children.
9. Modern world standards of vaccination of children. Features and individual approach to vaccination of healthy children and children with somatic pathology.
10. The procedure for preventive vaccinations in Ukraine and quality control and circulation of medical immunobiological drugs.
11. Tactics of vaccination of persons for certain conditions.

### **3.3 Control questions:**

1. Classification of cough in children.
2. The mechanism of cough in children.
3. Causes and management of acute cough in children.
4. Causes and management of subacute cough in children.
5. Causes and management of chronic cough in children.
6. Clinical classification and diagnosis of SARS in children.
7. Differential diagnosis of SARS of various etiologies in children.
8. Differential diagnosis of bronchitis in children.
9. Classification of shortness of breath in children.
10. Mechanisms of shortness of breath in children.
11. Etiological structure of nosocomial pneumonia in children.
12. Classification of pneumonia in children
13. Diagnosis of pneumonia.
14. General clinical and laboratory characteristics of acute respiratory failure in children.
15. Complications of pneumonia.
16. Principles of rational antibacterial therapy of pneumonia in children.
17. Etiology, pathogenesis of bronchial asthma in children.
18. Classification of bronchial asthma in children (according to GINA, 2017)
19. Diagnostic criteria and clinical manifestations of bronchial asthma in children.
20. Criteria for assessing the severity of bronchial asthma in children.
21. Basic principles of treatment of bronchial asthma in children.
22. Criteria for diagnosis and clinical manifestations of bronchial obstruction syndrome on the background of SARS.
23. Basic therapy of bronchial asthma in children.
24. Differential diagnosis of bronchial obstruction syndrome in children.
25. Basic principles of treatment of bronchial obstruction syndrome in children.

26. Leading clinical symptoms and syndromes in chronic and recurrent bronchitis, bronchiectasis.
27. Classification of chronic bronchitis.
28. Clinical manifestations of chronic bronchitis.
29. Principles of treatment of chronic bronchitis.
30. Classification of bronchiectasis.
31. Treatment of bronchiectasis, indications and contraindications to surgical treatment.
32. Features of the clinical course of chronic bronchopulmonary pathology in young children and adolescents.
33. Laboratory, instrumental and hardware methods of examination.
34. Complications of chronic pathology of the bronchopulmonary system in children.
35. What antibacterial drugs are prescribed depending on the pathogen and exacerbation.
36. Definition and classification of congenital malformations of the respiratory system.
37. Clinic, differential diagnosis and treatment of agenesis and aplasia of the lungs.
38. Simple and cystic hypoplasia of the lung and its lobes, clinic, differential diagnosis, the role of additional research methods, treatment.
39. Congenital tracheobronchomalacia, Williams-Campbell syndrome, congenital bronchomalacia, clinic, differential diagnosis, additional examination methods, features of bronchoscopy, the role of spirometric, immunological examinations.
40. Clinical and diagnostic features of the diagnosis of limited malformations of the tracheal wall and bronchi (congenital stenosis of the trachea; congenital lobar emphysema; diverticula of the trachea; and bronchi; tracheobronchitis fistulas). The role of related specialists in the diagnosis and treatment of these defects.
41. The role of congenital (true) cysts in the formation of chronic bronchopulmonary pathology in children. Acquired cysts "cellular lung", differential diagnosis, complications. The role of CT for the timely diagnosis of lung cysts.
42. Features of diagnosis of lung sequestration, indications for surgery.

### **3.4. Individual tasks**

Assessment of individual student tasks is carried out by the teacher:

- 10 points – publication of the article in publications included in scientometric databases

- 9 points – presentation at international scientific student conferences or other forums outside Ukraine with the publication of work in conference materials
- 8 points – participation in international scientific student conferences with the publication of work in the conference materials,
- 7 points – participation in intra-university and inter-university olympiads and student scientific conferences with the publication of the work (with a prize)
- 6 points – participation in intra-university and inter-university competitions and student scientific conferences with the publication of the work (without receiving a prize)
- 5 points – writing an essay on the topic or a description of a clinical case (case study), creating a video or other digital versions of visual material.

Scores for individual student tasks (a total of not more than 10 points) can be added as an incentive additional points to the final score for current learning activities, calculated using Table 1 and are part of the assessment of the discipline.

### **3.5. Rules for appealing the assessment**

The procedure for appealing is carried out in accordance with the order No.150 of 24.06.2021 on approval of the new version of the "Regulations on the procedure for deduction, renewal and transfer of persons", and approved by the order of KhNMU from 30.09.2020 No.252 "Regulations on appeal Education of Kharkiv National Medical University".

Link:

[http://www.knmu.kharkov.ua/index.php?option=com\\_content&view=article&id=1226%3A2013-03-25-12-07-55&catid=4%3A2011-05-04-07-20-12&Itemid=19&lang=uk](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=1226%3A2013-03-25-12-07-55&catid=4%3A2011-05-04-07-20-12&Itemid=19&lang=uk)

## **4. POLITICS AND VALUES OF DISCIPLINE**

In order to successfully complete the relevant course, it is necessary to attend practical classes regularly; to have theoretical preparation for practical classes; not to be late and not to miss classes; perform all necessary tasks and work actively during each lesson; be able to work in a group; contact the curators of the course on various issues on the subject of classes and receive it when you need it.

Students can discuss different tasks, but their performance is strictly individual. You are not allowed to write off, use any kind of software, tips, use a mobile phone, tablet or other electronic gadgets during classes for purposes other than the learning process. Students are not allowed to be late for practical classes.



Visiting patients during the curation in the hospital is possible, provided that students have the appropriate uniform, a health book with a note about the timely medical examination.

Students with special needs can meet with the teacher or warn him before the start of classes, it can be done by the head of the group on the students' request. If you have any questions, please contact the teacher.

Students' participation in research and conferences on this topic is encouraged. All students of KhNMU are protected by the Regulations on prevention and settlement of Cases Related to Sexual Harassment and Discrimination at Kharkiv National Medical University, designed to determine an effective mechanism for resolving conflict situations related to discrimination and sexual harassment. on the basis of the following regulations of Ukraine: Constitution of Ukraine; Law of Ukraine "On Education"; Law of Ukraine "On Higher Education"; Law of Ukraine "On Principles of Prevention and Counteraction of Discrimination in Ukraine"; Law of Ukraine "On Ensuring Equal Rights and Opportunities for Women and Men"; Convention for the Protection of Human Rights and Fundamental Freedoms; Convention for the Suppression of Discrimination in Education; Convention on the Elimination of All Forms of Discrimination against Women; General Recommendation No.25 to Article 4, paragraph 1, of the Convention on the Elimination of All Forms of Discrimination against Women, General Comment № 16 (2005) "Equal rights for men and women to use economic, social and cultural rights" (Article 3 of the International Covenant on Economic, Social and Cultural Rights; Committee on Economic, Social and Cultural Rights of the United Nations); education in the spirit of respect for human rights and fundamental freedoms (UNESCO), the Concept of the State Social Program for Equal Rights and Opportunities for Women and Men until 2021. Kharkiv National Medical University ensures education and work, that is free from discrimination, sexual harassment, intimidation or exploitation. The University admits the importance of confidentiality. All persons, responsible for the implementation of this policy, (staff of deans' offices, faculties, institutes and the Center of Gender Education, members of the student government and ethics committee, vice-rector for research and teaching) are confidential, regarding those, who report or accuse of discrimination. or sexual harassment (except where the law requires disclosure and / or when disclosure by the University is necessary to protect the safety of others).

KhNMU creates a space of equal opportunities, free from discrimination of any national, racial or ethnic origin, sex, age, disability, religion, sexual orientation, gender, or marital status. All rights, privileges, programs and activities, granted to students or staff of the University, apply to anybody, without exception, in case they are properly qualified. The anti-discrimination policy and the policy of counteracting

sexual harassment of KhNMU are confirmed by the Codex of Corporate Ethics and the Charter of KhNMU.

### **Rules of behavior at the University and in the classes**

It is important for students to follow the rules of good behavior at the university. These rules are common to all, they also apply to all teachers and staff and are not fundamentally different from the generally accepted norms.

- **During classes it is allowed:**

- leave the audience for a short time if necessary and with the permission of the teacher;

- drink soft drinks;
- take photos of presentation slides;
- take an active part in the class

- **Forbidden:**

- eat (except for persons whose special medical condition requires another - in this case, medical confirmation is required);

- smoking, drinking alcohol and even low-alcohol beverages or drugs;
- use obscene language or use words that offend the honor and dignity of colleagues and faculty;

- gambling;

- to damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories);

- shouting, shouting or listening to loud music in classrooms and even in corridors during classes.

## **5. ACADEMIC INTEGRITY**

The Department of Pediatrics No.1 and Neonatology has zero tolerance to any form of the plagiarism. Students are expected to constantly raise their awareness on the academic writing. The first lessons will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

Follow the link for more information at: Regulations on academic integrity and ethics of academic relations at Kharkiv National Medical University

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog\\_ad\\_etyka\\_t\\_ext.pdf](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog_ad_etyka_t_ext.pdf)

[http://www.knmu.kharkov.ua/index.php?option=com\\_content&view=article&id=2520%3A2015-04-30-08-10-46&catid=20%3A2011-05-17-09-30-17&Itemid=40&lang=uk](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=2520%3A2015-04-30-08-10-46&catid=20%3A2011-05-17-09-30-17&Itemid=40&lang=uk)

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/kodex\\_AD.docx](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/kodex_AD.docx)

## **6. RECOMMENDED LITERATURE**

1. NelsonTextbookofPediatrics 21th Edition. Robert M. Kliegman, JosephSt. Geme. Publisher: Elsevier. 2019. P. 4112.
2. Pediatrics : textbook / O. V. Tiazhka [etal.] ; ed. O. Tiazhka. - 2nd ed., reprint. NovaKnyha, 2016.
3. Recommendations for V-VI students, Higher medical education institutions of the III-IV accreditation levels studying in English «Differentiated diagnosis of inflammatory lower respiratory tract»KhNMU, 2019.
4. 2015 ESC Guidelines for the management of patients with ventricular arrhythmias and the prevention of sudden cardiac death: The Task Force for the Management of Patients with Ventricular Arrhythmias and the Prevention of Sudden Cardiac Death of the European Society of Cardiology (ESC) Endorsed by: Association for European Paediatric and Congenital Cardiology (AEPC) // European Heart Journal, Volume 36, Issue 41, 1 November 2015, Pages 2793–2867

## **1. INFORMATION RESOURCES**

Internet resources:

<https://www.openpediatrics.org/>

<https://www.aap.org/>

<https://www.cdc.gov/>

<http://www.medscape.com>

<http://www.cochranelibrary.com>

## **8. OTHER**

### **Useful links:**

Provisions on prevention, prevention and settlement of cases related to sexual harassment and discrimination in KhNMU

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog-sex.doc](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog-sex.doc)

Regulations on Academic Integrity and Ethics of Academic Relations at Kharkiv National Medical University

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog\\_ad\\_etyka\\_t\\_ext.pdf](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog_ad_etyka_t_ext.pdf)

The order of conducting classes on in-depth study by students of Kharkiv National Medical University of certain disciplines beyond the scope of the curriculum

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/nak-poriad-pogl-vyv-dysc.docx](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/nak-poriad-pogl-vyv-dysc.docx)

Regulations on the Commission on Academic Integrity, Ethics and Conflict Management of KhNMU

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog\\_komis\\_ad\\_t\\_ext.pdf](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog_komis_ad_t_ext.pdf)

Regulations on the recognition of the results of non-formal education at Kharkiv National Medical University

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog\\_neform\\_os\\_v.pdf](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog_neform_os_v.pdf)

**INCLUSIVE EDUCATION:**

[http://www.knmu.kharkov.ua/index.php?option=com\\_content&view=article&id=7108%3A2021-03-10-14-08-02&catid=12%3A2011-05-10-07-16-32&Itemid=33&lang=uk](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=7108%3A2021-03-10-14-08-02&catid=12%3A2011-05-10-07-16-32&Itemid=33&lang=uk)

**ACADEMIC INTEGRITY:**

[http://www.knmu.kharkov.ua/index.php?option=com\\_content&view=article&id=2520%3A2015-04-30-08-10-46&catid=20%3A2011-05-17-09-30-17&Itemid=40&lang=uk](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=2520%3A2015-04-30-08-10-46&catid=20%3A2011-05-17-09-30-17&Itemid=40&lang=uk)

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/kodex\\_AD.docx](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/kodex_AD.docx)