

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**  
"Critical conditions in neonatology"

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"

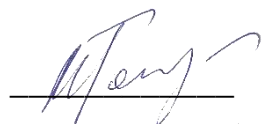
6<sup>th</sup> year

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



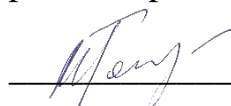
prof. M. Gonchar

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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## TEACHERS

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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 Center

## INTRODUCTION

The syllabus of the discipline "Critical conditions in neonatology" 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 "Critical conditions in neonatology" for the 6<sup>th</sup> year to provide training of highly qualified specialists in the field of pediatrics, namely neonatology, capable to solve complex problems of diagnosis and treatment of newborns with different ages of gestation.

**Subject of the discipline:** Critical conditions in neonatology.

### **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** is to provide training for highly qualified specialists in the field of pediatrics, able to solve complex problems of diagnosis and treatment of major somatic diseases and conditions in newborn.

**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	Topical issues of intensive care of newborns of different ages of gestation	5	Work on children's man Verbal (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	Differential diagnosis of cardiomegaly in newborns. Diagnosis and management.	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	Pulmonary hypertension in newborns. Modern approach to diagnosis, monitoring, therapeutic tactics.	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	Differential diagnosis of jaundice in newborns. Modern standards of diagnostics and management.	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	Neonatal sepsis. International perspective on the approach to diagnosis and treatment.	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	Socio-pharmaceutical aspects of drugs in neonatology. 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
	Total hours	30		

## 2.2.4. Laboratory classes – Not provided

## 2.2.5. Independent work:

#	Topic	Hours	Methods	Control
1	Modern algorithms of extended neonatal screening	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
2	Intrauterine developmental delay syndrome – antenatal and postnatal aspects.	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
3	Modern management of premature infants	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
4	Differential diagnosis of functional and organic heart murmurs in newborns. Critical congenital heart disease. Fetal communication in newborns	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
5	Correction of anemia in newborns and young children. Differential diagnosis and prevention of bleeding in newborns according to European recommendations.	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
6	Differential diagnosis of clinical and subclinical seizures of newborns.	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
7	Dynamic observation of children from perinatal risk groups.	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
8	Modern approaches of the organization of nutrition of premature infants	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
9	Congenital and early postnatal infection of the fetus and	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control

	newborn. Diagnosis and management			
10	European standard of parenteral nutrition of newborns	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
11	EFONI: European standards for palliative care for newborns	5	Practical (self-education)	oral examination (individual and frontal); written survey; test control
12	Follow-up observation of newborns. Problems, achievements, priorities	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. Explain the use of tactile stimulation, caffeine and facial breathing masks.
2. Respiratory support with artificial lung ventilation for improvement of lung tissue and the use of various types of ventilation.
3. Compromising factors, steroid use, spontaneous breathing, physiological patterns of respiration and changes in oxygenation in premature infants.
4. Causes and mechanisms of cardiomegaly in the newborn.

5. Clinical and instrumental differential diagnosis of neonatal myocarditis cardiomyopathies and congenital heart defects. Treatment for the pathologies mentioned above.
6. Causes and mechanisms of pulmonary hypertension in newborns.
7. Algorithm for diagnosing pulmonary hypertension.
8. Assistance and monitoring of newborns with clinical signs of pulmonary hypertension.
9. Classification of jaundice in newborns.
10. Differential diagnosis of jaundice in newborns.
11. Hyperbilirunemia in premature infants.
12. Hereditary and congenital diseases of the hepatobiliary system in newborns.
13. Modern standards of diagnosis and therapeutic approach. Indications for surgery treatment.
14. Neonatal sepsis. International perspective on the approach to diagnosis and treatment.
15. Diagnostic criteria for neonatal sepsis.
16. Septic shock. Differential diagnosis of shock.
17. Modern approaches to the treatment of sepsis in newborns.
18. Anatomical and physiological features of the child's body and its reaction to the medication administered.
19. Analysis of the range of drugs for children, the possibility of their use in neonatology.
20. Rational and safe pharmacotherapy in pediatrics and neonatology, off-label therapy.

### **3.3 Control questions:**

1. Neonatal screening for phenylketonuria (PKU), congenital hypothyroidism, cystic fibrosis (CF), adrenogenital syndrome (ACS).

2. Hereditary metabolic diseases (organic aciduria, aminoacidopathy, defects fatty acid oxidation) - clinical signs and symptoms. The spectrum of molecular genetic research. Acute metabolic decompensation.
3. Ultrasound screening of the newborn to detect congenital pathology CNS and transient cerebral disorders; congenital pathology of the heart vascular system, including early screening of critical and noncritical congenital heart defects; congenital pathology of the abdominal cavity and ectopic space; congenital aplasia of the thymus and thyroid gland, hemorrhages in the adrenal glands.
4. Antenatal causes of intrauterine growth retardation.
5. Algorithm for diagnosing intrauterine growth retardation.
6. Management tactics and principles of care for newborns with the syndrome intrauterine growth retardation.
7. Algorithm for diagnosing critical congenital heart defects.
8. Stabilization of hemodynamics depending on the type of congenital defect.
9. Providing emergency care to newborns with clinical signs of heart disease insufficiency.
10. Indications for hospitalization and conditions of transportation of the newborn.
11. Diagnosis of anemia in newborns and young children.
12. Hemorrhagic diseases in newborns and children of different ages.
13. Coagulopathy and vasopathy. Leukemoid reactions in newborns.
14. Differential diagnosis of intracranial hemorrhage of hypoxic and traumatic genesis in newborns. Neurosonography.
15. Treatment of intracranial hemorrhage.
16. Correction of iron deficiency in newborns and premature infants

children.

17. Clinical manifestations of neonatal seizures.
18. Differential diagnosis of clinical and subclinical seizures of newborns.
19. Management tactics and principles of care for newborns with seizures.
20. Signs of intrauterine infection of the fetus.
21. Modern criteria for viral infection in the newborn. Diagnostic algorithm and treatment.
22. Identification of perinatal risk groups in inpatient and outpatient settings.
23. Algorithm of medical observation of children from perinatal risk groups c conditions of hospital and polyclinic.
24. Perinatal hypoxic-ischemic injuries of the nervous system in newborns and the first year of life. Clinic, diagnosis.
25. Principles of monitoring the psycho-motor development of the child.
26. Partial enteral nutrition of premature infants.
27. Early consequences of unbalanced nutrition of a premature baby neonatal period.
28. Appointment of minimal enteral nutrition.
29. Monitoring of tolerance to enteral nutrition.
30. Nutritional insufficiency in the first days after birth.
31. The purpose of complete parenteral nutrition.
32. Indications for parenteral nutrition.
33. Monitoring of the newborn during parenteral nutrition.
34. Life-threatening conditions leading to premature death and in which palliative care for newborns is provided.
35. Aspects of care for the newborn in case of a decision to conduct palliative care.

36. Assessment of pain in newborns.
37. Principles of follow-up observation of newborns.
38. An integrated approach to follow-up of children under 3 years of age born with low and very low body weight.
39. Interdisciplinary approach to follow-up observation for children born premature with comorbid pathology.

### **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=1](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=1)



#### **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. Neonatal jaundice. December 2017. MN17.7-V7-R22. Queensland Clinical Guidelines Health professionals in Queensland public and private maternity and neonatal services. Review date: December 2022
4. Calhoun AD (2018). Postnatal diagnosis and management of hemolytic disease of the fetus and newborn. In Kim SM (Ed.), UpToDate. Retrieved from March. 1, 2018.
5. Neonatal Guidelines 2017-19.<http://www.networks.nhs.uk/nhs-networks/staffordshire-shropshire-and-black-countrynewborn/neonatal-guidelines>
- 8.Guidelines for Acute Care of the Neonate. Edition 26, 2018–2019. Updated: July 2018. – 251 p.

## **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)