

*Department of Pediatrics № 1, Odesa National Medical University
Elective course "Critical conditions in neonatology.
Practicing communication skills on simulation equipment"*

MINISTRY OF HEALTH OF UKRAINE
ODESSA NATIONAL MEDICAL UNIVERSITY

Faculty: medical

(faculty name)

Department of pediatrics №1

(name of department)

APPROVE
Acting pro-rector for scientific and educational work
prof. Svitlana KOTIUZHYNKA
" " 2022 y

**METHODICAL RECOMMENDATION OF THE SEMINAR LESSON
FROM THE SELECTIVE EDUCATIONAL DISCIPLINE**

Faculty medical, course 5 _____

Selective educational discipline: ""Critical conditions in neonatology. Practicing communication skills on simulation equipment."

(name of academic discipline)

Seminar lesson № 2 Topic: Hemolytic disease of newborns. Treatment.

(topic name)

Approve:

Meeting of the Department of Pediatrics №1 _____

Odesa national medical university

Protocol № 1 of " 29 " _____ 08 _____ 2022 y _____.

Head of the department (signature) (Mykola ARYAYEV)
(signature) *(name, surname)*

Department of Pediatrics № 1, Odesa National Medical University

Elective course "Critical conditions in neonatology.

Practicing communication skills on simulation equipment"

Developers:

(indicate surnames, scientific degrees, scientific titles and positions of developers; everyone who teaches the specified academic discipline must be among the developers)

Developers:

Prof. Mykola ARYAYEV as. of prof. PhD Ludmila SENKIVSKA, Irina TALASHOVA,
Daria USENKO, Natali BYSHLEI

(name of academic discipline)

Note. In the case of publication of methodological developments as an independent printed work, the academic council of the faculty provides a recommendation for publication in the presence of two reviews, one of which is external — from a reviewer of another institution of higher education.

Topic: Hemolytic disease of newborns. Treatment.

Purpose: Deepening of knowledge in the treatment of hemolytic disease of newborns. Indications for replacement blood transfusion surgery and mastering the skills of justifying the clinical diagnosis of hemolytic disease in newborns and performing replacement blood transfusion surgery on simulation equipment.

Basic concepts: Hyperbilirubinemia, hourly increase in bilirubin. Phototherapy.

Equipment: newborn baby dummy.

Study time: 3 hours.

Plan

- I. Organizational moment (greetings, checking those present, announcing the topic, the purpose of the lesson, motivating applicants to study the topic).
- II. Control of basic knowledge (frontal survey on basic terminology).

Questions to check basic knowledge on the topic of the seminar:

1. Principles of treatment Hemolytic disease of newborns. Indications for phototherapy.
2. Phototherapy technique.
3. Principles of treatment Hemolytic disease of newborns.
4. Indications for replacement blood transfusion.
5. Techniques and methods of blood exchange transfusion

III. Discussion of theoretical issues:

1. Principles of treatment Hemolytic disease of newborns. Indications for phototherapy.
2. Phototherapy technique.
3. Principles of treatment Hemolytic disease of newborns.
4. Indications for replacement blood transfusion.
5. Techniques and methods of blood exchange transfusion.
6. Performance of a replacement blood transfusion operation on simulation equipment.

Discussion of theoretical issues can take place in the form of role-playing, answers to questions, debates, discussions, presentations with reports, abstracts, discussion of reports and abstracts, review of applicant answers, etc.)

Themes of role play/reports/ summeries

1. Principles of treatment Hemolytic disease of newborns. Indications for phototherapy.
2. Phototherapy technique.

3. Principles of treatment Hemolytic disease of newborns.
4. Indications for replacement blood transfusion.
5. Techniques and methods of blood exchange transfusion
6. Performance of a replacement blood transfusion operation on simulation equipment

When preparing a report, role-play, abstract, analytical review, etc., applicants can, along with this, prepare didactic visual aids in the form of tables, code diagrams, slides, drawings, portraits of famous specialists, preparations, etc.).

IV. Summing up

List of recommended literature

1. Nelson Textbook of Pediatrics / Edition 2 volume set. Edition: 21st, 2019.
2. Avery's Diseases of the Newborn Book Tenth Edition •2018. Copyright © 2018 Elsevier Inc. / No of pages 1656
<https://www.sciencedirect.com/book/9781437701340/averys-diseases-of-the-newborn>
3. Neonatal Hematology Pathogenesis, Diagnosis, and Management of Hematologic Problems
Publisher: Cambridge University Press, 2021, pp. 133 - 154
DOI: <https://doi.org/10.1017/9781108773584.011>
4. Liunbruno, GM, D'Alessandro, A, Rea, F, et al. The role of antenatal immunoprophylaxis in the prevention of maternal-foetal anti-Rh(D) alloimmunisation. Blood Transfus 2010;8:8–16.Google Scholar PubMed
5. Maisels, MJ, Stevenson, DK, Watchko, JF. Care of the Jaundiced Neonate (New York: McGraw Hill, 2012).Google Scholar
6. Lawicki, S, Covin, RB, Powers, AA. The Kidd (JK) Blood Group System. Transfus Med Rev 2017;31:165–72.CrossRefGoogle ScholarPubMed

Electronic information resources

1. <http://moz.gov.ua>
2. <http://pediacalls.com/e-books/nelson-textbook-of-pediatrics-21st-edition/>
3. <https://www.ama-assn.org/about>
4. <https://www.who.int/>
5. <https://www.ipa-world.org/>