

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 KOTIUZHYNska

"

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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 class № 7 Topic: Bronchopulmonary dysplasia

(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 _____ (Mykola ARYAYEV)

(signature)

(name, surname)

Developers:

Department of Pediatrics № 1, Odesa National Medical University

Elective course "Critical conditions in neonatology.

Practicing communication skills on simulation equipment"

(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: Bronchopulmonary dysplasia.

Purpose: Deepening of knowledge in issues of etiology, pathogenesis, classification, diagnosis, differential diagnosis, treatment, prevention and mastering the skills of substantiating the clinical diagnosis of bronchopulmonary dysplasia in newborns, methods of respiratory support (artificial ventilation of the lungs, spontaneous breathing under constant positive pressure) and specific prevention rhino-syncytial infection.

Basic concepts: respiratory disorders, respiratory failure, respiratory support.

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. Definition and classification of bronchopulmonary dysplasia in newborns.
2. Diagnostic criteria of bronchopulmonary dysplasia. Clinic.
3. Principles of treatment of bronchopulmonary dysplasia in children.
4. Prevention of bronchopulmonary dysplasia in newborns. Forecast. Specific prevention of rhino-syncytial infection in children with bronchopulmonary dysplasia and gestational age less than 32 weeks.

III. Discussion of theoretical issues:

1. Definition, diagnostic criteria and classification of bronchopulmonary dysplasia.
2. Etiology, pathogenesis and pathomorphology in newborns. Classification.
3. Diagnostic criteria of bronchopulmonary dysplasia. Clinic.
4. Differential diagnosis of bronchopulmonary dysplasia in newborns with congenital heart disease, pneumonia, sepsis, cystic fibrosis.
5. Principles of treatment of bronchopulmonary dysplasia in newborns.
6. Prevention of bronchopulmonary dysplasia in newborns. Forecast. Specific prevention of rhino-syncytial infection in children with bronchopulmonary dysplasia and gestational age less than 32 weeks.

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. Definition, diagnostic criteria and classification of bronchopulmonary dysplasia.

2. Etiology, pathogenesis and pathomorphology in newborns. Classification.

3. Diagnostic criteria of bronchopulmonary dysplasia. Clinic.

4. Differential diagnosis of bronchopulmonary dysplasia in newborns with congenital heart disease, pneumonia, sepsis, cystic fibrosis.

5. Principles of treatment of bronchopulmonary dysplasia in newborns.

6. Prevention of bronchopulmonary dysplasia in newborns. Forecast. Specific prevention of rhinocytotial infection in children with bronchopulmonary dysplasia and gestational age less than 32 weeks.

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.

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<https://www.sciencedirect.com/book/9781437701340/averys-diseases-of-the-newborn>

3. Pasha AB, Chen XQ, Zhou GP. Bronchopulmonary dysplasia: Pathogenesis and treatment. Exp Ther Med. 2018 Dec;16(6):4315-4321. [PMC free article] [PubMed]

4. Steven H. Abman Bronchopulmonary Dysplasia, 1st Edition, 2017

5. Jobe A.H. Mechanisms of lung injury and bronchopulmonary dysplasia. Am. J. Perinatol.

2016;33:1076–1078. doi: 10.1055/s-0036-1586107. - DOI – PubMed

6. Vineet Bhandari Bronchopulmonary Dysplasia (Respiratory Medicine), 2016

7. DR. MIRA PANKAJ LUNG DISORDER IN NEWBORNS: BRONCHOPULMONARY DYSPLASIA AND ITS MANAGEMENT IN INFANTS, 2022

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/>

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