

**ODESSA NATIONAL MEDICAL UNIVERSITY**

**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 6 \_\_\_\_\_

Selective educational discipline: "Emergencies in pediatric neurology".

*(name of educational discipline)*

Seminar lesson No.4 "Differential diagnosis of intracranial hematomas due to trauma".

*(name of topic)*

Approve:

Meeting of the Department of Pediatrics №1 \_\_\_\_\_

Odessa national medical university

Protocol № 1 of "29" 08 2022 y .

Head of the department \_\_\_\_\_ (Mykola ARYAYEV)

*(signature)*

*(name, surname)*

*Department of Pediatrics No. 1, Odessa National Medical University*  
*S*

Developers: *“Emergencies in pediatric neurology”*

Prof. Mykola ARYAYEV as. of prof. PhD Daria USENKO. as. of prof. PhD Larysa KAPLINA, as. Diana SELIMCHANOVA

*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:** Emergency medical care for comas in children.

**Purpose:** The applicant's acquisition of additional knowledge and mastering of professional competences and communication skills with the parents of a child with diseases that are accompanied by coma, obtained in the course of studying the subject; promoting the development of creative thinking. The ability to logically express and argue one's thoughts, to listen to each other, to criticize productively.

**Basic concepts:** Comas in children. Emergency medical care for comas in children.

**Equipment:** a mannequin of a child under 5 years of age.

**Study time:** 2 hours.

### **Plan**

I. Organizational moment (greetings, checking the audience, the message of the topic, the purpose of the lesson, the motivation of applicants to study the topic).

II. Control of basic knowledge (frontal survey on the basic terminology).

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

1. Comas in children.
2. Pathophysiology of comatose states in children.

III. Discussion of theoretical issues:

1. Differential diagnosis of diseases accompanied by coma in children (diabetes mellitus, liver disease, neuroinfections).
2. Electrolyte disorders that lead to coma in children.
3. Emergency aid for insects in children.

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

Topics of role-playing games/reports/abstracts

1. Hyperglycemic ketoacidotic coma in children, clinic, diagnosis, emergency care.
2. Hypoglycemic coma in children, clinic, diagnosis, emergency care.
3. Hyperosmolar coma in children, clinic, diagnosis, emergency care.
4. Lactate acidotic coma in children, clinic, diagnosis, emergency care
5. Hepatic coma in children, differential diagnosis, emergency care.
6. Cerebral coma in children, clinic, diagnosis, emergency care.

Applicants can prepare didactic visual guides in the form of tables, code diagrams, slides, drawings, portraits of famous specialists, preparations during preparing a report, role-playing game, abstract, analytical review, etc.

IV. Summary of results.

**List of recommended literature:**

***Department of Pediatrics No. 1, Odessa National Medical University***  
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**Basic:**

***“Emergencies in pediatric neurology”***

1. Nelson textbook of pediatrics, 2 volume set. Edition: 21st, 2019. PDF format.  
<http://pediacalls.com/e-books/nelson-textbook-of-pediatrics-21st-edition/>
2. Vinod K Paul, Arvind Bagga. Ghai Essential Pediatrics, 8th edition, 2013. PDF format.

**Additionally:**

1. Charles A.Pohl, Leonard G.Gomella. Pediatrics On-Call Problems, 2006. PDF format.
2. Sherry NA, Levitsky LL. Management of diabetic ketoacidosis in children and adolescents. Paediatr Drugs. 2008;10(4):209-15. doi: 10.2165/00148581-200810040-00002
3. Rosenbloom AL. The management of diabetic ketoacidosis in children. Diabetes Ther. 2010 Dec;1(2):103-20.
4. Muir AB1, Quisling RG, Yang MC, Rosenbloom AL. Cerebral edema in childhood diabetic ketoacidosis: natural history, radiographic findings, and early identification. Diabetes Care. 2004 Jul;27(7):1541-6.
5. Morales AE1, Daniels KA. Cerebral edema before onset of therapy in newly diagnosed type 2 diabetes. Pediatr Diabetes. 2009 Apr;10(2):155-7.
6. Brown TB. Cerebral oedema in childhood diabetic ketoacidosis: Is treatment a factor? Emergency Medicine Journal 2004;21:141-144.