

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

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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 pediatric endocrinology" \_\_\_\_\_

(name of academic discipline)

Seminar class № 4 Topic: Critical conditions in diabetes mellitus. \_\_\_\_\_

(topic name)

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)

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

*(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.

**Seminar lesson № 4\_\_**

**Critical conditions in diabetes mellitus.**

**Mera:** Improvement knowledge on the diagnosis and emergency care children with acute complications of diabetes mellitus.

**Basic concepts:** Diabetic ketoacidosis. Hypoglycemic coma. Hyperosmolar coma. Hyperlactacidemic coma.

**Equipment:**

**Study time:** 2 hours

**Plan**

I. Organizational measures (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. Factors in the development of complications in diabetes in children.
2. Differential diagnosis of acute complications of diabetes in children.
3. Clinical - diagnostic criteria of diabetic ketoacidosis.
4. Clinical - diagnostic criteria of hypoglycemic coma in children.
5. Clinical - diagnostic criteria of hyperosmolar coma in children.
6. Clinical - diagnostic criteria of hyperlactacidemic coma in children.

III. Discussion of theoretical issues:

1. Algorithms for providing emergency care for diabetic ketoacidosis in children.
2. Algorithms for providing emergency care for hypoglycemic coma in children.
3. Algorithms for providing emergency care for hyperosmolar coma in children.
4. Algorithms for providing emergency care for hyperlactacidemic coma in children.

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.)

**Topics of role play/reports/abstracts**

1. Features of diagnosis and provision of emergency care for diabetic ketoacidosis in children (role play).

2. Features of diagnosis and provision of emergency care in hypoglycemic coma in children (role play).

3. Features of diagnosis and provision of emergency care for hyperosmolar coma in children. (role play).

4. Features of diagnosis and provision of emergency care for hyperlactacidemic coma in children. (role play).

When preparing a report, role-play, 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, drugs, etc.).

IV. Summing up

**Recommended literature**

**Basic:**

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. Pediatrics. Differential diagnosis. Urgent conditions edited by Aryaeva ML, Kotova NV, electronic edition on CD.
3. Pediatrics. Differential diagnosis. Emergencies. ML Aryaev, NV Kotova, OO Zelinsky [etc.]; edited by Aryaeva ML, Kotova NV Odessa: ONMedU. - 2017. - 280 p.
4. Pediatrics Textbook in two volumes, ed. ML Aryaeva, NV Kotova. - Vol.1. Neonatology. Hematology. Endocrinology. - Odessa .: ONMedU. - 2014. - 155 p.

**Additional:**

1. EMERGENCY MEDICAL CARE: NEW CLINICAL PROTOCOL ( ORDER OF THE MOH OF UKRAINE OF 05.06.2019, №1269 ).