

Department of pediatrics № 1, Odesa National Medical University

Elective educational discipline «Child abuse syndrome. Sudden infant death syndrome. Sudden cardiac death».

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 6 _____

Selective educational discipline: : " Child abuse syndrome. Sudden infant death syndrome.
Sudden cardiac death " _____

(name of academic discipline)

Seminar class №_6_ Topic: Methods of research of heart diseases in
children. _____

(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 (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

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 № 6 ____

Topic: Methods of research of heart diseases. Mastering the practical skills of interpretation an ECG. Assessment of the condition of the cardiovascular system based on echocardiography data (practical skills).

Purpose: Improvement knowledge on the diagnosis of diseases of the cardiovascular system in children. Mastering the practical skills of interpretation an ECG.

Basic concepts: Methodology of taking an ECG in children. Methodology for evaluating and interpretation the ECG in various types of diseases of the cardiovascular system. Methodology of echocardiography in children. Evaluation of the state of the cardiovascular system using the echocardiography method.

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. Methodology of ECG in children.
2. Methodology of echocardiography in children.
3. Assessment of the condition of the cardiovascular system using the ECG method. Determination of signs of normality and pathology.
4. Assessment of the state of the cardiovascular system using the echocardiography method. Determination of signs of normality and pathology.

III. Discussion of theoretical issues:

1. Diagnostic ECG and echocardiography signs of heart failure in children.
2. Diagnostic ECG and echocardiography signs of hypertrophic and dilated cardiomyopathy in children.
3. Diagnostic ECG and echocardiographic signs of myocarditis in children.
4. Diagnostic ECG and echocardiographic signs of aortic stenosis and mitral valve prolapse in children.
5. Diagnostic ECG and echocardiographic signs of rhythm and conduction disorders in children.
6. Diagnostic ECG and echocardiography signs of prolonged QT interval syndrome in children.
7. Diagnostic ECG and echocardiography signs of abnormal development of coronary arteries, sports heart.

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. Mastering the practical skills of diagnosis of long QT interval syndrome in children (role play).
2. Mastering the practical skills of diagnosing heart rhythm and conduction disorders in children (role play).

3. Mastering the practical skills of diagnosing hypertrophic and dilated cardiomyopathy in children (role play).
4. Mastering the practical skills of diagnosis of abnormal development of coronary arteries, sports heart (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. Order of the Ministry of Health of Ukraine No. 1269 dated June 5, 2019 "Emergency medical care: pre-hospital stage. New clinical protocol"
2. Forensic medical (macro- and microscopic) diagnosis of sudden cardiac death of persons of youthful and young age caused by connective tissue dysplasia (methodical recommendations) V.D. Mishalov, S.V. Kozlov, O.I. Shandyga-Glushko. Kyiv - 2012.-16 p
3. Unified clinical protocol of emergency medical care "Sudden cardiac death". Order of the Ministry of Health No. 34 dated 15.01.2014 "On the approval and implementation of medical and technological documents on the standardization of emergency medical care"
4. Caglar D (2012). Chapter 78. syncope and sudden death in children and adolescents. Cline D.M., & Ma O, & Cydulka R.K., & Meckler G.D., & Handel D.A., & Thomas S.H.(Eds.), *Tintinalli's Emergency Medicine Manual, 7e*. McGraw Hill. Copyright © 2018 by McGraw-Hill Education
<https://accessemergencymedicine.mhmedical.com/content.aspx?bookid=521§ionid=41069006>
<http://ihem.ir/files/mohtava/books/Tintinalli%E2%80%99s%20Emergency%20Medicine%20Manual%208th%20Ed.pdf>