

**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

Svitlana KOTIUZHYNKA

" 01 " 09 2022

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

Faculty medical, course 6 \_\_\_\_\_

**Academic discipline, selective:** "Practical issues of children's cardiology"

**Seminar session №4.**

**Topic:** ECG analysis in children with acquired heart defects. Treatment of children with acquired heart defects.

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:

*(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 Victor BIRYUKOV. as. Mykhailo STRELTSOV

*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 session No. 4**

**Topic:** ECG analysis in children with acquired heart defects. Treatment of children with congenital heart defects.

**Purpose:** To deepen knowledge and master the skills of ECG evaluation and methods of treatment of children with acquired heart defects, obtained in the course of studying the subject; promoting the development of creative thinking. The ability to logically express and argue one's thoughts, listen to each other and criticize productively.

**Basic concepts:** Acquired heart defects. Cardiomegaly. Electrocardiography.

**Equipment:** PAT auscultation simulator.

**Study time:** 2 hours.

#### **Plan**

**I. Organizational measures** (greetings, checking those present, announcing the topic, 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. Methods of diagnosis of acquired heart defects
2. Features of the ECG in normal and pathological conditions .
3. Structural components of the heart and changes in hemodynamics that create an auscultatory picture in normal and pathological conditions .
4. Principles of treatment of children with acquired heart defects.

#### **III. Discussion of theoretical issues:**

1. Leading pathogenetic mechanisms of disorders in acquired heart defects.
2. Algorithm for diagnosis of acquired heart defects 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.)

#### **Themes of role-play/reports/abstracts**

1. Modern methods of diagnosis of acquired heart defects (report, discussion, discussion of reports and review of applicant answers).
2. Analysis of the ECG of a child with an acquired heart defect (role play).
3. Auscultation of a child with an acquired heart defect (role-play).

In 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, drugs, etc.).

#### **IV. Summing up**

### **List of recommended literature**

#### **The main one**

1. Nelson Pediatric Abx 2022

URL: <https://apps.apple.com/ru/app/nelson-pediatric-abx-2022/id1611269134>

#### **Additional**

1. Accuracy of the Apple Watch iECG in Children With and Without Congenital Heart Disease

URL: <https://pubmed.ncbi.nlm.nih.gov/34468775/>