

**Assessment criteria of students' learning and performance  
on discipline  
“PEDIATRICS AND NEONATOLOGY”  
5<sup>th</sup> year students**

The assimilation of the topic is controlled during practical classes in accordance with specific objectives: the ability to determine the etiological and pathogenetic factors of the most important diseases in infants, the most important diseases of the blood and endocrine system in children, to classify and analyze a typical clinical presentation of disease, to draw up an examination plan and analyze the data of laboratory and instrumental examinations, to establish a diagnosis and prescribe treatment; to determine the main emergency conditions and demonstrate mastery of the principles of emergency care, assess the disease prognosis, demonstrate knowledge of moral and deontological principles of a medical specialist and the principles of professional subordination in pediatrics.

To evaluate student's knowledge, the advantage is given to standardized methods of control: testing (written or computer-based), structured written work, standardized by the method of performing control of practice skills, work with standard medical documentation.

The means of control are multiple choice questions, situational clinical cases and interpretation of the data of the laboratory and instrumental examination, control of the implementation of practical skills.

• ***Types of control:*** current and final

• ***Form of final control:*** exam

Current control is carried out at each practical lesson and aims to check the assimilation of students of the educational material.

Final control (exam) is held in writing during the examination session in accordance with the schedule.

**Control of execution of independent work**, which is provided for in the topic along with classroom work, is carried out during the current control of the topic at the corresponding classroom session. Mastering of topics that are assigned only to independent work is controlled during by the final control.

**Control of assimilation of practical skills** on the relevant topic of the workshop is carried out both during the current control and the final control.

**Control of individual work** - defense of the case report takes place at the last lesson of the thematic chapter neonatology. The case report should be written and submitted for verification on time (at least one week before the defense).

### **Current control**

The current control is carried out on each practical class in accordance with specific objectives of each topic. Traditional grades are exhibited in the academic journal of student's achievement during practical classes. The practical classes in studying of the discipline Paediatrics and Neonatology are structured and provide a comprehensive assessment of all types of theoretical and practical training of students during practical classes.

Current control of *theoretical knowledge*:

- Written or computer-based testing;
- Individual questioning, interview
- Solving of typical clinical cases
- Evaluation of practical skills

### ***Evaluation of current educational activities.***

During the assessment of each subject's absorption for current educational activities, the student is exhibiting estimates for **4-th grade** (traditional) scale taking into account the approved criteria assessment for appropriate discipline. All kinds of works, based on the curriculum, are taken into account. The student should get an estimate from each topic and then it will be converted into points according to 200-point scale.

- The student responds to no fewer than 10 tests (MCQ's according to the topic of the class, format A).

- Answers standardized questions that require basic knowledge to understand the current topic.
- Demonstrates the knowledge and ability of practical skills in accordance with the topic of practical lesson.
- Solves situational clinical cases on the topic.

#### **Evaluation Criteria**

**Excellent ("5")** – the student correctly responds to 90-100% of the test of A format. Correctly, clearly, logically corresponds to all standardized questions of the current topic.

Closely binds theory with practice and demonstrates the correct implementation of practical skills. Analyzes the results of the lab/instrumental investigations without problems, and has proper methods of examination of the patient. Makes differential diagnosis. Solves clinical case with higher level of difficulty and knows how to compile the material.

**Good ("4")** - the student responds correctly to 70-89% of the test of A format. Correctly and essentially responds to all standardized questions of the current topic. Demonstrates knowledge of practical skills. Correctly uses theoretical knowledge to solve practical problems.

Able to solve easy and medium complexity clinical cases. Has the necessary practical knowledge and techniques and their uses, more than the required minimum.

**Satisfactory ("3")** - the student responds correctly to 50-69% of the test of A format. Incomplete, with the help of additional questions answers all the standardized questions on the current topic. Cannot independently make a clear logical answer. While the student is answering and demonstrating practical knowledge he makes mistakes. Can solve only the easiest situational tasks. Has knowledge of only the minimum methods of investigations.

**Unsatisfactory ("2")** - the student responds correctly to 50% of the test of A format.

#### **Form of the final control of learning performance**

The exam is a form of final control of the student's mastering of theoretical and practical material in a particular academic discipline for a semester, which is held as a control event. The exam is held in written form during the examination session in accordance with the schedule. The form of the exam is standardized and includes the control of theoretical and practical training.

Students are admitted to semester final control:

- who have performed all types of work, tasks provided for in the curriculum for the semester in accordance with the discipline (in particular, wrote and handed in the case report
- attended all classes provided by the curriculum;
- worked out missed classes;
- scored the number of points for the current success, not less than the minimum (72 points).

Students who have missed workshops are allowed with the *Dean's permission* to work academic debts up to the specified term within the semester.

The maximum number of points that a student can gain when passing the exam is 80.

The minimum number of points when passing the exam - at least 50.

**Semester exam** lasts 2 academic hours and is carried out according to the following regulations:

**Stage 1** - Test control - 40 MCQ's, it is held for 40 minutes. The maximum number of points is 40 (1.0 points per 1 correct answer). The minimum criterion for successful passing of the test control is the result of 60% of correct answers.

**Stage 2** – A complex clinical cases solving, including interpretation of laboratory and instrumental studies data, determination of preliminary clinical diagnosis, determination of therapeutic tactics, treatment prescription. The task is carried out within 50 minutes. The maximum number of points is 20 for one task. At this stage, 2 typical clinical cases are supposed to be solved. One case from the topics of the 4th course, the second - on the topics of the 5th course.

**Scheme of accrual and distribution of points received by students:**

For disciplines to which the form of the final control is the exam:

**The maximum number of points** that a student can score for current academic activity per semester for admission to the exam is 120 points.

**The minimum number of points** that a student must score for the current academic activity per semester for admission to the exam is 72 points.

The calculation *of points* is carried out based on the student's marks according to the traditional scale (4-th point) during the study of the discipline, by calculating the arithmetic mean (AM) rounded up to two decimal places. Resulting value is converted into points according to multipoint scale as follows:

$$x = \frac{CA \times 200}{5}$$

For convenience, *table 1* is given for recalculation on a 200-point scale:

**Table 1**

**Recalculation of the average assessment for the current activity in a multi-level scale for the disciplines completed**

5	120	4.45	107	3.91	94	3.37	81
4.95	119	4.41	106	3.87	93	3.33	80
4.91	118	4.37	105	3.83	92	3.29	79
4.87	117	4.33	104	3.79	91	3.25	78
4.83	116	4.29	103	3.74	90	3.2	77
4.79	115	4.25	102	3.7	89	3.16	76
4.75	114	4.2	101	3.66	88	3.12	75
4.7	113	4.16	100	3.62	87	3.08	74
4.66	112	4.12	99	3.58	86	3.04	73
4.62	111	4.08	98	3.54	85	3	72
4.58	110	4.04	97	3.49	84	Менше	Недостатньо
4.54	109	3.99	96	3.45	83	3	
4.5	108	3.95	95	3.41	82	3	

Discipline scores for students who have successfully completed the program are converted into a traditional 4-point scale according to the absolute criteria listed below:

Scores in 200 scale	Score according to the four-point scale
From 170 to 200	5
From 140 to 169	4
From 139 to minimum number of points, which the student should acquire in the discipline	3
Lower than the minimum number of points that the student should attain in the discipline	2

**Head of Department**

**prof. L. Besh, MD, PhD.**