

Danylo Halytsky Lviv National Medical University
Department of Surgery №2

«APPROVED»

first vice-rector
on educational and pedagogical affairs at
Danylo Halytsky Lviv
National Medical University



KNOWLEDGE ASSESSMENT CRITERIA
STUDENTS OF 4-6 COURSE
FROM THE DISCIPLINE "SURGERY"

“APPROVED”

meeting of the Department of Surgery №2

Report № _____

« _____ » _____ 2023

Head of Department of Surgery №2

Chief of the Surgical Methodological Commission

_____ prof. II Kobza

“APPROVED”

at the meeting of the Surgical Methodological
Commission of Danulo Halytsky Lviv National
Medical University Report № _____

« _____ » _____ 2023

_____ prof. VP Andryushchenko

Final control form "ZALIK" (TEST)

Control methods

Forms of control and the evaluation system are carried out in accordance with requirements of the discipline program and instructions on the system for evaluating students' educational activities.

The evaluation of the discipline is determined taking into account the results of the student's current educational activity and evaluations of his learning of individual sections in accordance with the Regulation on the rating system for evaluating the educational activity of students of the VM(F)NZ of Ukraine. When conducting all types of control, it is planned to use objective methods of assessing the level of mastery of practical skills and theoretical knowledge - test control of theoretical knowledge, individual control of the student's actions and the results of his actions, complicated situational tasks.

Current control is carried out at each practical session in accordance with the specific goals of each topic. When evaluating students' educational activities, it is planned to use standardized methods of control: testing, structured written works, control of practical skills in conditions close to real ones.

It is planned to apply the following methods of determining the level of training of students:

- *oral answers to control questions;*
- *test control of knowledge;*
- *solving clinical situational tasks;*
- *assessment and interpretation of the results of clinical and laboratory and instrumental examinations;*
- *control of mastering practical skills and elements of medical technology during patient care.*

Assessment of current educational activities.

The weight of each topic within the same section is the same. The system of evaluating the current educational activity of students is outlined in the work program for the academic discipline. When mastering each topic for the current educational activity, the student is given grades on a traditional four-point scale: "5" (*excellent*), "4" (*good*), "3" (*satisfactory*), "2" (*unsatisfactory*).

- **Grade "5" (*excellent*)** - is given to a student who has deeply and reliably mastered the program material, explains it comprehensively, consistently, correctly, and whose answers are closely related to theory and practice. At the same time, the student does not hesitate to answer when changing the task, freely solves tasks and answers questions of the second and third level of knowledge assessment, shows familiarity with monographic literature, correctly justifies the decision made, possesses elements of medical technology, practical skills and methods of performing practical work. Performs practical skills without errors, knows how to effectively use acquired knowledge in professional activities.
- **Grade "4" (*good*)** - given to a student who firmly knows the program material, correctly and essentially teaches it, who does not make significant mistakes in answering questions and performing the necessary practical skills.

- **Grade "3" (satisfactory)** - given to a student who has knowledge of only the main material, but has not mastered its details, makes significant mistakes, insufficiently correct wording, violates the sequence of presentation of the material, experiences difficulties in performing practical tasks or performs them with significant errors, solves situational problems of the third level of knowledge control with errors
- **Grade "2" (unsatisfactory)** - given to a student who does not know a significant part of the program material, makes significant mistakes, performs practical work without confidence, does not solve tasks of the II-III level of knowledge control.

The final control of study success is carried out in the form of a semester credit based on the results of his work in practical classes. Semester assessment of subjects is carried out after the end of its study, before the beginning of the examination session.

The maximum number of points that a student can score for the current educational activity while studying the discipline is 200 points.

The minimum number of points that a student must score for the current educational activity in order to enroll in the discipline is 120 points.

The calculation of the number of points is carried out on the basis of the grades received by the student on a 4-point (national) scale during the study of the discipline during the semester, by calculating the arithmetic mean (CA), rounded to two decimal places.

The obtained value is converted into points on a multi-point scale.

For convenience, a table of calculations on a 200-point scale is provided (table 1.):

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

Table 1

**Recalculation of the average grade for the current activity
in a multi-point scale for disciplines ending with credit**

| 4-point scale | 200-point scale | 4-point scale | 200-point scale | 4-point scale | 200-point scale | 4-point scale | 200-point scale |
|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|
| 5 | 200 | 4.45 | 178 | 3.92 | 157 | 3.37 | 135 |
| 4.97 | 199 | 4.42 | 177 | 3.89 | 156 | 3.35 | 134 |
| 4.95 | 198 | 4.4 | 176 | 3.87 | 155 | 3.32 | 133 |
| 4.92 | 197 | 4.37 | 175 | 3.84 | 154 | 3.3 | 132 |
| 4.9 | 196 | 4.35 | 174 | 3.82 | 153 | 3.27 | 131 |
| 4.87 | 195 | 4.32 | 173 | 3.79 | 152 | 3.25 | 130 |
| 4.85 | 194 | 4.3 | 172 | 3.77 | 151 | 3.22 | 129 |
| 4.82 | 193 | 4.27 | 171 | 3.74 | 150 | 3.2 | 128 |
| 4.8 | 192 | 4.24 | 170 | 3.72 | 149 | 3.17 | 127 |
| 4.77 | 191 | 4.22 | 169 | 3.7 | 148 | 3.15 | 126 |
| 4.75 | 190 | 4.19 | 168 | 3.67 | 147 | 3.12 | 125 |
| 4.72 | 189 | 4.17 | 167 | 3.65 | 146 | 3.1 | 124 |
| 4.7 | 188 | 4.14 | 166 | 3.62 | 145 | 3.07 | 123 |
| 4.67 | 187 | 4.12 | 165 | 3.57 | 143 | 3.02 | 121 |
| 4.65 | 186 | 4.09 | 164 | 3.55 | 142 | 3 | 120 |
| 4.62 | 185 | 4.07 | 163 | 3.52 | 141 | low 3 | not enough |
| 4.6 | 184 | 4.04 | 162 | 3.5 | 140 | | |
| 4.57 | 183 | 4.02 | 161 | 3.47 | 139 | | |
| 4.52 | 181 | 3.99 | 160 | 3.45 | 138 | | |
| 4.5 | 180 | 3.97 | 159 | 3.42 | 137 | | |
| 4.47 | 179 | 3.94 | 158 | 3.4 | 136 | | |

Independent work of students is evaluated during the current control of the topic in the corresponding lesson. The learning of topics that are assigned only to independent work is controlled during the final control.

The grade in the discipline "Surgery" is based on the results of the current educational activity and is expressed on a two-point scale "passed" or "failed". In order to enroll, a student must receive a score of at *least 60%* of the maximum number of points in the discipline (*120 points*) for the current educational activity.

Points of students studying in one specialty, taking into account the number of points scored in the discipline, are ranked on the *ECTS* scale as follows (table 2.):

Table 2

| Rating ECTS | Statistical indicator |
|--------------------|------------------------------|
| A | Best 10 % students |
| B | Next 25 % students |
| C | Next 30 % students |
| D | Next 25 % students |
| E | Last 10 % students |

Discipline points for students who have successfully completed the program are converted to a traditional 4-point scale according to absolute criteria, which are listed below in Table 3.:

Table 3

| Point of discipline | Point by 4- ponts scale |
|---|--------------------------------|
| 170 to 200 point | 5 |
| 140 to 169 point | 4 |
| From 139 points to the minimum number of points that the student must score | 3 |
| Below the minimum number of points that the student must score | 2 |

The ECTS grade **is not converted** to the traditional scale, as the ECTS scale and the four-point scale **are independent**.

Final control form "EXAM"

Методи контролю.

Control methods

Forms of control and the evaluation system are carried out in accordance with requirements of the discipline program and instructions on the system for evaluating students' educational activities.

The evaluation of the discipline is determined taking into account the results of the student's current educational activity and evaluations of his learning of individual sections in accordance with the Regulation on the rating system for evaluating the educational activity of students of the VM(F)NZ of Ukraine. When conducting all types of control, it is planned to use objective methods of assessing the level of mastery of practical skills and theoretical knowledge - test control of theoretical knowledge, individual control of the student's actions and the results of his actions, complicated situational tasks.

Current control is carried out at each practical session in accordance with the specific goals of each topic. When evaluating students' educational activities, it is planned to use standardized methods of control: testing, structured written works, control of practical skills in conditions close to real ones.

It is planned to apply the following methods of determining the level of training of students:

- *oral answers to control questions;*
- *test control of knowledge;*
- *solving clinical situational tasks;*
- *assessment and interpretation of the results of clinical and laboratory and instrumental examinations;*
- *control of mastering practical skills and elements of medical technology during patient care.*

Assessment of current educational activities.

The weight of each topic within the same section is the same. The system of evaluating the current educational activity of students is outlined in the work program for the academic discipline. When mastering each topic for the current educational activity, the student is given grades on a traditional four-point scale: "5" (*excellent*), "4" (*good*), "3" (*satisfactory*), "2" (*unsatisfactory*).

- **Grade "5" (*excellent*)** - is given to a student who has deeply and reliably mastered the program material, explains it comprehensively, consistently, correctly, and whose answers are closely related to theory and practice. At the same time, the student does not hesitate to answer when changing the task, freely solves tasks and answers questions of the second and third level of knowledge assessment, shows familiarity with monographic literature, correctly justifies the decision made, possesses elements of medical technology, practical skills and methods of performing practical work. Performs practical skills without errors, knows how to effectively use acquired knowledge in professional activities.
- **Grade "4" (*good*)** - given to a student who firmly knows the program material, correctly and essentially teaches it, who does not make significant mistakes in answering questions and performing the necessary practical skills.

- **Grade "3" (satisfactory)** - given to a student who has knowledge of only the main material, but has not mastered its details, makes significant mistakes, insufficiently correct wording, violates the sequence of presentation of the material, experiences difficulties in performing practical tasks or performs them with significant errors, solves situational problems of the third level of knowledge control with errors
- **Grade "2" (unsatisfactory)** - given to a student who does not know a significant part of the program material, makes significant mistakes, performs practical work without confidence, does not solve tasks of the II-III level of knowledge control.

The maximum number of points that a student can score for the 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 the number of points is carried out on the basis of the grades received by the student on a traditional scale during the study of the discipline, by calculating the arithmetic mean (CA), rounded to two decimal places. The obtained value is converted into points on a multi-point scale.

The calculation of the number of points is carried out on the basis of the grades received by the student on a 4-point (national) scale during the study of the discipline during the semester, by calculating the arithmetic mean (CA), rounded to two decimal places.

The obtained value is converted into points on a multi-point scale (table 1.).

For convenience, a calculation table is provided on a 120-point scale:

$$x = CA \times 120 / 5$$

Table 1
Recalculation of the average grade for the current activity
in a multi-point scale for disciplines ending with an exam

| 4-point scale | 120-point scale | 4-point scale | 120-point scale | 4-point scale | 120-point scale | 4-point scale | 120-point scale |
|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|
| 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 | Low 3 | Not enough |
| 4.54 | 109 | 3.99 | 96 | 3.45 | 83 | | |
| 4.5 | 108 | 3.95 | 95 | 3.41 | 82 | | |

Independent work of students is evaluated during the current control of the topic in the corresponding lesson. The learning of topics that are assigned only to independent work is controlled during the final control.

The exam is a form of final control of the student's assimilation of the theoretical and practical material of the discipline, which is conducted as a control measure. A student is considered admitted to the exam if he has attended all the classroom training sessions provided by the curriculum for the discipline, completed all types of work provided for by the work program of this educational discipline, and while studying it during the semester, has scored at least the minimum number of points (72 points). The exam is conducted in written form during the exam session, according to the schedule. The form of the examination is standardized and includes control of theoretical and practical training. The maximum number of points that a student can score when taking the exam is 80. The minimum number of points when taking the exam is at least 50.

Approximate structure of the exam
for students of the 5th year of the Faculty of Medicine No. 2

| № 3/II | Teacher form of control | Place |
|-----------|-------------------------------------|----------------------|
| 1. | Answers to two practical skills | educational audience |
| 2. | Solving 50 test problems | educational audience |
| 3. | Answers to two situational problems | educational audience |

Note: practical skills - 0-5 points, correct answer to 1 test - 1 point, 1 situational problem - 0-10 points.

The grade for the discipline "Surgery", section "Thoracic, cardiovascular, endocrine surgery" is defined as the sum of points for the current educational activity (72-120 points) and the final result for the exam (50-80 points).

The points of students studying in one specialty, taking into account the number of points obtained from the discipline, are ranked according to the ECTS scale (table 2.):

Table 2

| Rating ECTS | Statistical indicator |
|--------------------|------------------------------|
| A | Best 10 % students |
| B | Next 25 % students |
| C | Next 30 % students |
| D | Next 25 % students |
| E | Last 10 % students |

Discipline points for students who have successfully completed the program are converted to a traditional 4-point scale according to absolute criteria, which are listed below in Table 3.:

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| Point of discipline | Point by 4- points scale |
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The ECTS grade **is not converted** to the traditional scale, as the ECTS scale and the four-point scale **are independent**.