



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
Federal State Autonomous Educational Institution of Higher Education  
**Far Eastern Federal University**  
(FEFU)  
INSTITUTE OF LIFE SCIENCES AND BIOMEDICINE (SCHOOL)

VALUATION FUND  
*in the discipline "Health Economics"*

Vladivostok  
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**List of Forms of Assessment Used at Various Stages of Competence Formation in the Course of Mastering the Discipline "Health Economics"**

Item No.	Supervised modules/sections/topics of the discipline	Code and the name of the indicator accomplishments	Learning Outcomes	Evaluation Tools *	
				Current control	Intermediate Attestation
1	Health Economics as a science and a subject of teaching. Subject Methods, Market Relations in Health Care	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 1-4
			Can	Tests PR-1, PR-3	
			Owens	Work in small groups UO-3, presentation	
2	Calculation of the cost of medical services	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 5-8
			Can	Tests PR-1, PR-3	
			Owens	Work in small groups UO-3, presentation	
3	Calculation of profit and the amount of taxes paid by a medical organization	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 9-12
			Can	Tests PR-1, PR-3	
			Owens	Work in small groups UO-3, presentation	
4	Determination of the rating of the supplier and the amount of insurance stocks of the medical organization	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 13-16
			Can	Tests PR-1, PR-3	
			Owens	Work in small groups UO-3, presentation	
5	Planning the activities of a medical organization	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 17-22
			Can	Tests PR-1, PR-3	
			Owens	Work in small groups UO-3, presentation	
6	Comparative Economic Analysis of Health Care Systems of the Russian Federation and Foreign Countries	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 23-27
			Can	Tests PR-1, PR-3	
			Owens	Work in small groups UO-3, presentation	
7	Business plan of a medical organization	PP-5.1; PC-5.2; PC-5.3; PP-4.1;	Knows	UO-1 Interview	Exam Questions 28-33
			Can	Tests PR-1, PR-3	
			Owens	Work in small	

		PP-4.2; PC-4.3		groups UO-3, presentation	
8	Health Care Financing	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 34-38
			Can	Tests PR-1, PR-3	
			Owns	Work in small groups UO-3, presentation	
9	Financial environment of medical institutions (sources of financing, methods of payment for medical care: outpatient, inpatient)	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 39-44
			Can	Tests PR-1, PR-3	
			Owns	Work in small groups UO-3, presentation	
10	Remuneration of labor in health care institutions. Entrepreneurship, paid services	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 45-51
			Can	Tests PR-1, PR-3	
			Owns	Work in small groups UO-3, presentation	
11	Fundamentals of Planning, Marketing, Management, Economics and Financing of Health Care	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 52-58
			Can	Tests PR-1, PR-3	
			Owns	Work in small groups UO-3, presentation	
12	Inefficient Spending in Healthcare	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 59-65
			Can	Tests PR-1, PR-3	
			Owns	Work in small groups UO-3, presentation	
13	Financing in the compulsory medical insurance system. Basic and territorial programs of compulsory medical insurance. "Program of State Guarantees for the Provision of Free Medical Care to the Population" (Federal, Territorial)	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 66-73
			Can	Tests PR-1, PR-3	
			Owns	Work in small groups UO-3, presentation	
14	Health Care in the System of Market Relations (Fundamentals of Market Relations – Prerequisites, Elements of the Market Mechanism,	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows	UO-1 Interview	Exam Questions 74-78
			Can	Tests PR-1, PR-3	
			Owns	Work in small groups UO-3, presentation	

	Market Functions, Structure				
15	Financial Management in Healthcare	PP-5.1; PC-5.2; PC-5.3; PP-4.1; PP-4.2; PC-4.3	Knows Can Owns	UO-1 Interview Tests PR-1, PR-3 Work in small groups UO-3, presentation	Exam Questions 79-88

\*Recommended forms of evaluation tools:

1) interview (MA-1), colloquium (MA-2); Report, Communication (MA-3); Round Table, Discussion, Polemics, Dispute, Debate (SW-4); etc.

2) tests (PR-1); tests (PR-2), essays (PR-3), essays (PR-4), term papers (PR-5), scientific and educational reports on practices (PR-6); laboratory work (PR-7); portfolio (PR-8); project (WP-9); business and/or role-playing game (PR-10); case problem (PR-11); workbook (PR-12), etc.

3) simulator (TS-1), etc.

Scale for assessing the level of achievement of learning outcomes for current and intermediate certification *in the discipline*  
*«Health Economics»*

<i>Points (rating score)</i>	Levels of achievement Training		<i>Requirements for the formed competencies</i>
	Current & Intermediate certification	<i>Intermediate Attestation</i>	
100 – 86	Increased	"Passed" / "Excellent"	Freely and confidently finds reliable sources of information, operates with the information provided, has excellent skills in analyzing and synthesizing information, knows all the basic methods of solving problems provided for in the curriculum, knows typical mistakes and possible difficulties in solving a particular problem and is able to choose and effectively apply an adequate method for solving a particular problem. trouble
85 – 76	Base	"Passed" / "Good"	In most cases, he is able to identify reliable sources of information, process, analyze and synthesize the proposed information, choose a method for solving a problem and solve it. Makes single serious mistakes in problem solving, experiences difficulties in rare or difficult cases of problem solving, does not know typical mistakes and possible difficulties in solving this or that trouble
75 – 61	Threshold	"Passed" / "Satisfied"	Makes mistakes in determining the reliability of sources of information, is able to correctly decide only Typical most often Occur trouble in (process information, choose a method to solve a problem, and solve it)
60 – 0	Level Not Reached	"Failed" / "Unsatisfactorily"	Does not know a significant part of the program material, makes significant mistakes, performs practical work unconfidently, with great difficulty.

## **Current attestation in the discipline "Health Economics"**

Current certification of students in the discipline "*Health Economics*" is carried out in accordance with the local regulations of FEFU and is mandatory.

Current attestation in the discipline is carried out in the form of control measures: an *essay*, on the assessment of the actual results of students' learning and is carried out by the leading teacher.

For each object, a description of the assessment procedures is given in relation to the assessment tools used.

### **Assessment Tools for Ongoing Monitoring**

#### ***1. Sample Topics for Essays and Presentations***

1. Federal Fund of Compulsory Medical Insurance of the Russian Federation.
2. Health as an economic category. Factors influencing the level of health of the population.
3. Health as an economic and social category.
4. Contemporary Problems of Russian Health Care.
5. Medical and Economic Problems of Primorsky Krai.

*Requirements for the presentation and evaluation of materials (results):*

#### **Criteria for evaluating the abstract**

- 100-86 points ("excellent") are given to the student if he expressed his opinion on the formulated problem, argued it, accurately determining its content and components. The data of domestic and foreign literature, statistical data, information of a regulatory and legal nature are given. The student knows and possesses the skill of independent research work on the research topic; methods and techniques of analysis of theoretical and/or practical aspects of the field under study.

- 85-76 points ("good") - the work is characterized by semantic integrity, coherence and consistency of presentation; No more than 1 mistake was made in explaining the meaning or content of the problem. For argumentation, the data of domestic and foreign authors are given. Research skills and abilities have been demonstrated. There are no factual errors related to understanding the problem.

- 75-61 points ("satisfactory") - the student conducts a fairly independent analysis of the main stages and semantic components of the problem; understands the basic foundations and theoretical justification of the chosen topic. The main sources on the topic under consideration are involved. No more than 2 errors were made in the meaning or content of the problem.

- 60-50 points ("unsatisfactory") - if the work is a paraphrase or a completely rewritten source text without any comments or analysis. The structure and theoretical component of the topic are not disclosed. Three or more than three mistakes have been made in the semantic content of the problem being disclosed.

## **Assessment Tools for Intermediate Control (Exam/Test)**

### ***1. Bank of test tasks***

1. Indicate which indicators indicated by letters characterize the areas of analysis of fixed assets indicated by numbers:

A – return on capital for the medical institution (in physical or value terms);

B – capital-labor ratio of personnel;

B is the refresh rate.

1 – analysis of the structure of movements and the state of fixed assets;

2 – analysis of the provision of fixed assets;

3 – analysis of the efficiency of the use of fixed assets.

**2. Specify the sequence of calculations in the step-by-step method for determining costs.**

1 – Define the Base Cost Unit

2 – Calculation of costs by hospital units

3 – redistribution of the costs of the auxiliary units of the institution to the main divisions

4 – Determining the cost of the service

A – 2, 1, 3, 4

B – 1, 3, 2, 4

B – 1, 2, 3, 4

**3. Specify the sequence of actions for the implementation of paid medical services in a healthcare institution.**

1 – Determination of types of paid services

2 – study of the material and technical base of the institution

3 – Determination of the factors that make it possible to introduce paid services in health care facilities

4 – calculation of the cost of medical services

5 – informing the population about the list, cost and types of paid services

A – 1, 2, 3, 4, 5

B – 2, 3, 1, 4, 5

B – 5,1,3,2,4

**4. Categorize: which methods of outpatient care indicated by numbers belong to retrospective (A) and prospective (B)**

1 – payment for the actual number of detailed services

- 2 – payment for the actual number of visits
- 3 – Payment for the actual number of end cases of outpatient care
- 4 – payment on the basis of the per capita standard for each treated person (partial fund holding, full fund holding)

**5. Categorize which inpatient payment methods indicated by numbers are retrospective (A) and prospective (B)**

- 1 – for the actual number of bed-days
- 2 – for the actual number of completed treatment cases
- 3 – for the planned and agreed volumes and structure of inpatient care

**6. What priority tasks should be addressed by the chosen methods of payment for medical care?**

- 1 – Ensuring resource conservation
- 2 – attraction of patient flows (consumers of services)
- 3 – Cost predictability
- 4 – increasing the duration of the cost of treatment
- 5 – all of the above
- A – 1, 2, 3
- B – 1, 2, 4
- B – 5
- D – 1, 3

**7. For each of the scenarios (indicated by numbers), select the appropriate type of marketing research of the situation (indicated by a letter):**

- 1 – when a new drug is placed on the pharmaceutical market
- 2 – when introducing a new effective, but expensive diagnostic method
- 3 – if it is necessary to study the impact of pricing policy on the consumption of medical services

Types of Market Research:

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A – descriptive

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B – Search

B – Experimental

**8. You enter the market with surgeries in the field of cosmetic surgery. How do you plan to achieve commercial success?**

A – you just need to set prices lower than those of competitors and there will be no end to customers

B – you need to buy as much (and, therefore, cheaper) advertising time in the media as possible and attract customers 24 hours a day

The main thing is to start working as soon as possible, and then everything will work out

D – to conduct a survey among those who have already resorted to the services of cosmetology surgery and, depending on the degree of prosperity of most of them, either



to focus on reducing the cost of the process or on increasing comfort

D – to conduct a survey of the population through the media on the topic "What from the arsenal of cosmetic surgery attracts me? Why haven't I used cosmetology surgery yet?"

E – I will try, based on financial capabilities, to combine D and M

**9. Indicate the correct sequence of the methodology for analyzing the activities of the polyclinic in the context of budgetary and insurance medicine**

1. – Quality of medical diagnostics and treatment of patients
2. – carrying out preventive work and its results
3. – organization of the work of the polyclinic
4. – general information about the polyclinic
5. – continuity of the work of the polyclinic and the hospital

A – 1, 2, 3, 4, 5

B – 4, 3, 2, 1, 5.

**10. Which of the following indicators characterizing the activity of the hospital are related to the volume indicators?**

1. – provision of the population with beds
2. – Hospitalization rate
3. – average annual bed occupancy
4. – the average length of stay of the patient in the bed
5. – Bed turnover
6. – coincidence of clinical and pathological diagnoses
7. – postoperative complications
8. – In-hospital mortality
9. – Staffing of doctors

A- All of the above is true

B – 6, 7, 8

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B – 1, 2, 3, 4, 5, 9.

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**11. Indicate the correct sequence of the methodology for analyzing the activities of the hospital in the conditions of budgetary and insurance medicine**

1. – general information about the hospital
2. – continuity of the work of the hospital and the polyclinic
3. – organization of the work of the hospital
4. – Quality of medical diagnostics
5. – Quality of treatment of patients

A – 1, 2, 3, 4, 5

B – 1, 3, 4, 5, 2.

**12. Specify the Correct Sequence of the Market Research Scheme**

1. – Selection of sources of information
2. – Collection of information

3. – Identification of problems and formulation of research goals
4. – Presentation of the results obtained
5. – Analysis of the collected information

A – 3,1,2,5,4

B – 1,2,3,4,5.

**13. Specify the sequence of the methodology for calculating standardized indicators by the direct method**

1. – Choice of standard
2. – Calculation of "expected numbers"
3. – Calculation of group-by-group intensive indicators
4. – Distribution in standard
- 5 – Obtaining an Overall Intensive Standardized Measure

A – 3,1,4,2,5

B – 1,2,3,4,5

**14. What are fixed costs?**

- A) Costs incurred by the entity regardless of the volume of products (services) produced
- B) Costs that change in direct proportion to the volume of production
- C) Costs associated with the production of an additional service
- D) Costs that change inversely in proportion to the volume of production
- E) Sum of all costs

**15. Which of the following does not apply to the direct costs of the Ministry of Defense?**

- (A) Salaries of core staff
- B) Accruals for the remuneration of key personnel
- C) Cost of medicines fully consumed in the process of providing medical services
- D) Cost of soft materials fully consumed in the process of providing medical services

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**16. Which of the following does not apply to indirect costs of the Ministry of Defense?**

- (A) Travel and service costs
- (B) Accruals for general agency staff
- C) Cost of medicines consumed in the course of providing medical services
- D) Remuneration of general agency staff
- E) Wear and tear of soft equipment in auxiliary units

**17. The effectiveness of health care is considered in the following aspects (fill in the missing pieces):**

- A. Medical efficacy
- B. Social Efficiency

in. \_\_\_\_\_

**18. Cost-effectiveness of health care should be expressed in the following:**

- (a) Financial resources are spent rationally;
- b) medicines, bandages, etc. are used sparingly,
- c) the contribution of health care to the economy of the national economy is evaluated.

**19. Mark the cost-effectiveness of health care:**

- (a) The number of lives saved in the working age
- b) the number of lives saved at retirement age
- c) the amount of money returned to society for the improvement of health indicators

**20. The method of proving the economic efficiency of health care is the definition of:**

- (a) The cost of medical care at the outpatient and inpatient stages
- b) the total cost of training medical personnel
- c) the cost of scientific research and its implementation
- d) the ratio of the cost of medical care to the economic effect

**21. The criterion of economic efficiency shall be defined as:**

- (a) Ratio of total economic loss to avoided economic loss
- b) the ratio of the total cost of medical care to the avoided economic damage
- c) the ratio of the cost of treatment to the cost of preventive measures.

**Test Evaluation Criteria**

Assessment is carried out in an e-learning session on a hundred-point scale.

The test includes 100 tasks, the maximum test score is 100.

Within the framework of the current level of knowledge assimilation in the discipline, a test result of at least 61 points is allowed.

### Indicative List of Evaluation Tools (AP)

№	Code	Name of the appraisal means	Brief description of the evaluation tool	Presentation valuation in the fund
<b>Written works</b>				
1	PP-1	Test	A system of standardized tasks that allows you to automate the procedure for measuring the level of knowledge and skills Student	Test Task Fund
2	PP-2	Quiz	A tool for testing the ability to apply the acquired knowledge to solve problems of a certain type on a topic or section	A set of control tasks By variants
3	PP-4	Abstract	A product of the student's independent work, representing is a written summary of the results of the theoretical Analysis CertainScientific (Training-	Abstract Topics