

**№ Стom – 21 ИИ**

**Federal state budgetary educational institution of higher  
education**

**"NORTH - OSSETIAN STATE MEDICAL ACADEMY"  
of the Ministry of healthcare of the Russian Federation**

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**DEPARTMENT OF PUBLIC HEALTH AND  
HEALTHCARE**

**Alikova Z.R., Gabaraeva L.N.**

**METHODICAL RECOMMENDATIONS  
FOR PERFORMANCE OF INDEPENDENT OUT-  
OF-CLASS WORK OF STUDENTS  
TO THE PRACTICAL TRAINING  
ON PUBLIC HEALTH AND HEALTH CARE,  
HEALTHCARE ECONOMY**

**the main professional educational program of higher education - specialty program in the  
specialty 31.05.03 Dentistry, approved on May, 24, 2023.**

**Vladikavkaz, 2023**

Each student during stay on a kuration (a spring semester) is obliged to make the paper on one of the following subjects:

1. Blood circulatory system diseases as a medico-social problem.
2. Malignant new growths as a medico-social problem.
3. Traumatism as a medico-social problem.
4. Diseases of respiratory organs as a medico-social problem.
5. Tuberculosis as a medico-social problem.
6. Alcoholism as a medico-social problem.
7. Drug addiction, toxicomania as medico-social problem.
8. Tobacco smoking as medico-social problem.
9. Psychological diseases as a medico-social problem.
10. Infectious diseases as a medico-social problem.
11. HIV infection, AIDS – the most important problem HH1 of a century.
12. Diseases sexually transmitted as medico-social problem.
13. Endocrine diseases as a medico-social problem.
14. The current state and the main tendencies of demographic processes in the Russian Federation and foreign countries for the last decade.

### **Occupation subject: Statistical set. Relative sizes and their graphic representation**

Purpose of studying subject: to teach students it is correct to differentiate the basic structural elements of statistical set and also to distinguish population from selective, on the basis of use of relative sizes to be able to estimate, analyze and reveal regularities when studying public health and activity of bodies and healthcare institutions.

Upon termination of studying of this subject the student has to

#### **Be able:**

- to reasonably choose types of relative sizes for the analysis in each concrete situation;
- to count indicators and to provide graphically obtained information;
- to do the basis of discharged relative sizes and their graphic representation to carry out the correct analysis and/or activity of bodies and healthcare institutions;
- to apply the gained knowledge during training at clinical departments;

#### **For this purpose the student has to know:**

- indications to use of relative sizes;
- types of relative sizes;
- a scope of each of relative indicators in medicine and health care;
- features of a calculation procedure, analysis and graphic representation of each relative size;
- requirements to drawing up schedules;
- the most frequent mistakes in application and the analysis of relative sizes.

#### **Questions for independent work (independent work has to be performed in a workbook).**

- 1) Statistical set, definition, structure, examples.
- 2) Classification of registration signs: a)  
b)  
c)  
d)
- 3) Population, definition, characteristic, examples.

4) Sample, definition, characteristic, main requirements, examples.

5) Intensive indicator =

6) Extensive indicator =

7) Ratio indicator =

8) Presentation indicator, definition, calculation technique, graphic representation, application, examples.

2. To answer test tasks (The collection of test tasks, section 2).

In a workbook.

3. To make 5 tests on statistical set in a workbook.

4. To make 5 tests in relative sizes.

In a workbook.

5. To make 5 tests according to graphics.

In a workbook.

6. To execute one option (according to instructions of the teacher) tasks

1. Calculation of relative sizes and task 3.

2. Graphics (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 58-65 and methodical developments to a practical training on medical statistics, 2005).

In a workbook.

### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.

3. Social hygiene (medicine) and organization of health care: The manual / Under the editorship of Yu.P. Lisitsyn – M.: 1999. – Page 273-278, 288-289, 301-302, 310-311.

4. Public health and health care: Uchebn. for student. / Under the editorship of V.A. Minyaev, N.I. Vishnyakov. – M.: 2003. – Page 76-86.

6. Physician of V. A., Yuryev V.K. A course of lectures on public health and health care. Part 1. Public health. – M.: 2003. – Page 282-286, 306-364.
7. Lisitsyn Yu. P., Polunin N. V. Public health and health care: Textbook. – M.: 2002. – Page 112-168.
8. Lisitsyn Yu. P. Public health and health care: Textbook. – M.: 2002. – Page 268-313.
9. Application of methods of the statistical analysis for studying of public health and health care: The manual for a practical training / Under the editorship of V.Z. Kucherenko. – M.: 2006. – Page 63, 67-68, 79-104.
10. Lisitsyn Yu.P., Ulumbekova G.E. Public health and health care: textbook by M.: GEOTAR-media, 2015
11. Lisitsyn Yu.P. Public health and health care: textbook by M.: GEOTAR-media, 2007
12. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2014
13. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2012
14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: Dynamic ranks**

**Purpose of studying of a subject:** on the bases of the analysis of a dynamic row levels row to be able to draw conclusions about regularities and tendencies in the state of health of the population and activity of treatment and prevention facilities, including Rospotrebnadzor.

Upon termination of studying of this subject the student has to

**To be able:**

- to level a dynamic row or to transform it;
- to represent graphically leveled or transformed row;
- to carry out the analysis of a dynamic row on the basis of calculation of key indicators;
- to do the conclusion about regularities of changes in the studied phenomenon or sign;
- to apply the gained knowledge during training at clinical departments.

**For this purpose the student has to know:**

- definition of a dynamic row;
- types of ranks;
- conditions of drawing up a dynamic row;
- methods of transformation and alignment of dynamic ranks.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Dynamic row, definition, levels, scope, examples.

2) Types of dynamic ranks:

- a)
- b)

3) Ways of alignment of a dynamic row:

- a)
- b)
- c)

4) Technique of calculation of indicators of a dynamic row:

a)

b)

c)

d)

2. To answer test tasks (The collection of test tasks, section 2).

In a workbook.

3. To make 5 tests on dynamic ranks.

In a workbook.

4. To execute one option (according to instructions of the teacher) tasks 2. "Calculation of indicators of a dynamic row" (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 65-68 and methodical developments to a practical training on medical statistics, 2005).

In a workbook.

#### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.

3. Social hygiene (medicine) and organization of health care: The manual / Under the editorship of Yu.P. Lisitsyn – M.: 1999. – Page 273-278, 288-289, 301-302, 310-311.

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9. Application of methods of the statistical analysis for studying of public health and health care: The manual for a practical training / Under the editorship of V.Z. Kucherenko. – M.: 2006. – Page 63, 67-68, 79-104.

10. Lisitsyn Yu.P., Ulumbekova G.E. Public health and health care: textbook by M.: GEOTAR-media, 2015

11. Lisitsyn Yu.P. Public health and health care: textbook by M.: GEOTAR-media, 2007

12. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2014

13. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2012

14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

## **Occupation subject: Average sizes and criteria of a variety of a variation row**

**Purpose of studying of a subject:** to be able to use a method of variation statistics for assessment and the analysis of statistical set when studying public health and activity of medical institutions.

Upon termination of studying of this subject the student has to

### **To be able:**

- to reveal the main regularity of the studied sign by calculation of average size;
- to prove a technique of use of criteria of a variety of a variation row;
- to give the characteristic of a variety of a variation row;
- to draw conclusions about typicality of the generalizing characteristic of sign in the studied set, using criteria of a variety of a variation row;
- to apply the gained knowledge during training at clinical departments.

### **For this purpose the student has to know:**

- basic concepts of a subject (variation row, average size, mean square deviation, variation coefficient, etc.);
- method of calculation of average sizes and criteria of a variety of a variation row ( $\sigma$ , CV);
- technique of the analysis of average sizes: value of a mean square deviation and coefficient of a variety for assessment of variability of the studied sign and typicality of average size;
- normal distribution of a variation row and its value for assessment of public health and the organization of medical care;
- scope of characteristics of a variation row ( $M$ ,  $\sigma$ , CV).

1. Questions for independent work (independent work has to be performed in a workbook).

1) Variation row, definition, structure, construction technique, example.

2) A technique of drawing up the grouped variation row:

- a)
- b)
- c)
- d)
- e)

3) Types of average sizes:

- a)
- b)
- c)
- 1)
- 2)

4) Arithmetic-mean way of calculation of arithmetic-mean sizes:

5) Calculation of arithmetic-mean size on a way of the moments:

6) Properties of average arithmetic size:

- a)
- b)
- c)

7) Mean square deviation, ways of calculation:

- a)
- b)

8) Variation coefficient, calculation procedure, gradation.

2. To answer test tasks (The collection of test tasks, section 2).

In a workbook.

3. To make 5 tests in average sizes.

In a workbook.

4. To execute by one option (according to instructions of the teacher) tasks 1-5. (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 78-86 and methodical developments to a practical training on medical statistics, 2005).

In a workbook.

#### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.
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14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: Assessment of reliability of results of a research**

**Purpose of studying of a subject:** on the basis of application of a method of assessment of reliability of results of a research to be able to transfer results of a selective research of public health, activity of doctors and healthcare institutions to population.

Upon termination of studying of this subject the student has to

#### **To be able:**

- to define reliability of results of a research by an error of representativeness of an intensive indicator and average size;
- to define confidential borders of average and intensive sizes;
- to define reliability (importance) of a difference between two relative indicators and average sizes;
- to choose a way of assessment of reliability of results of a research at the solution of a situational task, to define reliability and to draw the corresponding conclusions;
- to apply the gained knowledge during training at clinical departments.

#### **For this purpose the student has to know:**

- definition "reliability of results of a research";
- definition of an error of representativeness of an intensive indicator, average size, her calculation;
- a concept about criteria of "t", his choice of a way of definition of confidential borders and assessment in a way of reliability of a difference of results of a research.

1. Questions for independent work (independent work has to be performed in a workbook).

- 1) What it is necessary to understand as reliability of statistics?



2) Definition of an average mistake:

a) average size

b) relative size

3) Definition of confidential borders of relative sizes, calculation technique:

4) Definition of confidential borders of average sizes, calculation technique:

5) Determination of reliability of a difference of relative sizes.

6) Determination of reliability of a difference of average sizes.

2. To answer test tasks (The collection of test tasks, section 2).

In a workbook.

3. To make 5 tests according to reliability of results of a research.

In a workbook.

4. To execute by one option (according to instructions of the teacher) tasks 1-3. (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 87-94 and methodical developments to a practical training on medical statistics, 2005).

In a workbook.

#### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.

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10. Lisitsyn Yu.P., Ulumbekova G.E. Public health and health care: textbook by M.: GEOTAR-media, 2015
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13. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2012
14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: Correlation analysis**

**Purpose of studying of a subject:** on the basis of application of methods of correlation to be able to reveal influence of factorial sign on productive in the analysis of public health and activity of medical institutions, including institutions of a sanitary and epidemiologic profile.

Upon termination of studying of this subject the student has to

**To be able:**

- to establish correlation dependence by method of rank correlation;
- to estimate force, the direction and reliability of the received coefficient of correlation and to draw the corresponding conclusions;
- to apply the gained knowledge during training at clinical departments.

**For this purpose the student has to know:**

- types of manifestation of quantitative communications;
- concept of functional and correlation dependence;
- practical value of establishment of correlation communication;
- characteristics of coefficient of correlation (force and direction of communication);
- methods of determination of coefficient of correlation (rank method);
- methodical requirements to use of coefficient of correlation;
- recommendations about application of a method of rank correlation;
- a technique and an order of calculation of coefficient of correlation by a method of rank correlation, errors of coefficients of correlation and ways of assessment of reliability of coefficients of correlation.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Types of communication between the phenomena or signs, the characteristic, examples.

2) Correlation coefficient (force and direction of communication);

### 3) Coefficient of rank correlation, calculation technique:

2. To answer test tasks (The collection of test tasks, section 2).

In a workbook.

3. To make 5 tests according to the correlation analysis.

In a workbook.

4. To execute by one option (according to instructions of the teacher) tasks. (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 94 - 101 and methodical developments to a practical training on medical statistics, 2005).

In a workbook.

### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.

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14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: Standardization method**

**Purpose of studying of a subject:** on the basis of application of a method of standardization to be able to reveal influence of factorial sign on productive during the studying of public health and the analysis of activity of medical institutions.

Upon termination of studying of this subject the student has to

#### **To be able:**

- to calculate the standardized indicators;
- to compare the intensive and standardized indicators and to draw the corresponding conclusions;

- to apply a standardization method at the solution of the specific objectives connected with studying of public health and activity of healthcare institutions;
- to apply the gained knowledge during training at clinical departments.

**For this purpose the student has to know:**

- conditions of application of a method of standardization;
- essence and purpose of a method;
- stages of calculation of the standardized indicators.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Standardization, definition, application, example.

2) Conditions of application of a method of standardization:

a)

b)

3) Stages of calculation of the standardized indicators:

a) The I stage of calculation of the standardized indicators.

b) The II stage of calculation of the standardized indicators.

c) The III stage of calculation of the standardized indicators.

d) The IV stage of calculation of the standardized indicators.

e) The V stage of calculation of the standardized indicators.

2. To answer test tasks (The collection of test tasks, section 2).

In a workbook.

3. To make 5 tests by a standardization method.

In a workbook.

4. To execute by one option (according to instructions of the teacher) tasks. (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 101-111 and methodical developments to a practical training on medical statistics, 2005).

In a workbook.

**Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.
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14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: Organization of a statistical research**

**Purpose of studying of a subject:** to be able to organize a statistical research as health of the population, his strengthening and restoration, and activity of institutions of system of his protection.

Upon termination of studying of this subject the student has to

**To be able:**

- to define the purpose and research problems;
- to make the program of a research;
- to make the plan of a research;
- to apply the gained knowledge during training at clinical departments.

**For this purpose the student has to know:**

- definition of statistical set, its structure;
- types of statistical set; requirements imposed to a sample;
- methods of selection of a sample;
- definition of a sampling unit, classification of her registration signs;
- principles of drawing up program of collecting material;
- the sequence of carrying out a research – stages of a statistical research, their contents.

1. Questions for independent work (independent work has to be performed in a workbook).

- 1) First stage of a statistical research and its contents.

2) The program of a statistical research includes ...

3) The program of a statistical research consists from:

- a)
- b)
- c)

4) The plan of a statistical research consists:

- a)
- b)
- c)
- d)
- e)
- e)

5) Ways of formation of statistical set (on coverage of observation):

- a)
- b)
- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)

6) Ways of formation of statistical set (on observation time).

- a)
- b)

7) Ways of formation of statistical set (by the form observations):

- a)
- b)
- c)
- 1)
- 2)

8) Second stage of a statistical research and its contents.

9) Third stage of a statistical research and its contents:

- a)
- b)
- c)
- d)
- e)
- e)

10) Fourth stage of a statistical research and its contents.

2. To answer test tasks (The collection of test tasks, section 2).

In a workbook.

3. To make 10 tests on the organization of a statistical research.

In a workbook.

4. To execute by one option (according to instructions of the teacher) tasks 1.p.1, tasks 2 and 3 (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 111-143 and methodical developments to a practical training on the organization of a statistical research, 2007).

In a workbook.

#### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.

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14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

## **Occupation subject: Technique of assessment and analysis of demographic indicators**

**Purpose of studying of a subject:** on the basis of medico-demographic indicators to be able to estimate and analyze the state of health of the population for justification of the medico-social actions directed to improvement of health.

Upon termination of studying of this subject the student has to

### **To be able:**

- to count, to estimate and interpret medico-demographic indicators;
- to use the obtained medico-demographic information in the analysis of other indicators of public health, assessment of activity of healthcare institutions, planning of medical care;
- to apply the gained knowledge during training at clinical departments.

### **For this purpose the student has to know:**

- definition of medical demography, her main sections and indicators;
- sources of medico-demographic information and role of doctors in her collecting and analysis;
- the main tendencies of medico-demographic processes and factors defining them;
- technique of the analysis of demographic indicators.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Demography (definition, value for bodies and healthcare institutions). Medical demography (definition). In what main directions studying of the population is conducted?

1) Population censuses, their value and main lines:

- a)
- b)
- c)
- d)
- e)
- e)
- g)
- h)
- i)

2) The sex composition of the population is defined:

- a)
- b)
- c)
- d)
- 1)
- 2)

4) Age types of the population:

- a)
- b)
- c)



5) Mechanical motion of the population.

5) Natural movement of the population and its characteristic.

6) A role of doctors in registration of the natural movement of the population.

7) General indicators of the natural movement of the population. Calculation technique.

Estimated levels.

a)

b)

c)

8) Special indicators of the natural movement of the population. Calculation technique.

a)

b)

c)

d)

e)

e)

9) Mortality of the population and her reason.

10) Mortality of the population and her reason.

11) Infantile mortality, calculation technique:

a)

b)

2. To answer test tasks (The collection of test tasks, section 3).

In a workbook.

3. To make 10 tests by a technique of assessment and the analysis of demographic indicators.

In a workbook.

4. To execute by one option (according to instructions of the teacher) tasks 1. (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 143-153 and methodical developments to a practical training on medical demography, 2005).

In a workbook.

### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.

3. Social hygiene (medicine) and organization of health care: The manual / Under the editorship of Yu.P. Lisitsyn – M.: 1999. – Page 273-278, 288-289, 301-302, 310-311.

4. Public health and health care: Uchebn. for student. / Under the editorship of V.A. Minyaev, N.I. Vishnyakov. – M.: 2003. – Page 76-86.

6. Physician of V. A., Yuryev V.K. A course of lectures on public health and health care. Part 1. Public health. – M.: 2003. – Page 282-286, 306-364.

7. Lisitsyn Yu. P., Polunin N. V. Public health and health care: Textbook. – M.: 2002. – Page 112-168.

8. Lisitsyn Yu. P. Public health and health care: Textbook. – M.: 2002. – Page 268-313.

9. Application of methods of the statistical analysis for studying of public health and health care: The manual for a practical training / Under the editorship of V.Z. Kucherenko. – M.: 2006. – Page 63, 67-68, 79-104.

10. Lisitsyn Yu.P., Ulumbekova G.E. Public health and health care: textbook by M.: GEOTAR-media, 2015

11. Lisitsyn Yu.P. Public health and health care: textbook by M.: GEOTAR-media, 2007

12. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2014

13. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2012

14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: Technique of studying and analysis of incidence of the population**

#### **Purposes of studying of a subject:**

To seize rules of registration of separate types of incidence.

To be able to analyze data of summary statistical forms (reports, data, etc.): structure and levels of the registered incidence.

To be able to carry out the parallel analysis of indicators "primary" and "the general incidence" according to out-patient and polyclinic institutions.

Upon termination of studying of this subject the student has to

#### **To be able:**

- to define the practical importance of each methods of studying of incidence;
- to formulate a sampling unit for studying of each type of incidence and to independently choose the registration documents corresponding to sampling units;
- to count and analyze incidence indicators, to reveal tendencies and structure;
- to carry out the parallel analysis of tendencies in indicators of primary and general incidence for the purpose of identification of influence of various factors;
- to apply the gained knowledge during training at clinical departments.

**For this purpose the student has to know:**

- value of studying of incidence of the population for practical activities of the doctor and establishment;
- methods of studying of incidence, their value and application;
- the factors defining completeness and quality of information on incidence;
- types of incidence on negotiability;
- registration and operational documentation on registration of separate types of diseases;
- features of MKB-10.

1. Questions for independent work (independent work has to be performed in a workbook).

- 1) "Actually incidence", "morbidity", "pathological prevalence", definition, examples.
- 2) Nomenclature and classification of diseases.

3) Methods and sources of studying of incidence:

- a)
- 1)
- 2)
- 3)
- 4)
- b)
- c)
- d)

4) Incidence indicators with temporary disability:

- a)
- b)
- c)
- d)
- e)

2. To answer test tasks (The collection of test tasks, section 4).

In a workbook.

3. To make 10 tests by a technique of studying and the analysis of incidence of the population.

In a workbook.

4. To execute by one option (according to instructions of the teacher) tasks 2. (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 153-157 and methodical developments to a practical training on incidence of the population, 2007).

In a workbook.

### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.
2. Lisitsyn Yu. P., N.Ya. Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.
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4. Public health and health care: Uchebn. for student. / Under the editorship of V.A. Minyaev, N.I. Vishnyakov. – M.: 2003. – Page 76-86.
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10. Lisitsyn Yu.P., Ulumbekova G.E. Public health and health care: textbook by M.: GEOTAR-media, 2015
11. Lisitsyn Yu.P. Public health and health care: textbook by M.: GEOTAR-media, 2007
12. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2014
13. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2012
14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

Each student during stay on a kuration (an autumn semester) is obliged to make papers under the following acts:

1. Questions of public health care in the Constitution of the Russian Federation (1993).
2. Principles of the legislation of the Russian Federation on protection of public health (1993) - The federal law of November 21, 2011 No. 323-FZ "About bases of protection of public health in the Russian Federation"
3. The law of the Russian Federation "About medical insurance of citizens in the Russian Federation" (1991) - Federal law "About Obligatory Medical Insurance in the Russian Federation" from 11/29/2010 N 326-FZ.
4. Federal law "About Sanitary and Epidemiologic Wellbeing" (1999).
5. About the Program of the state guarantees of rendering to citizens of the Russian Federation of free medical care for 2009. (Resolution of the Government of the Russian Federation of 05.12.2008 No. 913) - The resolution of the Government of the Russian Federation of December 8, 2017 No. 1492 "About the Program of the state guarantees of free rendering medical care to citizens for 2018 and for planning period of 2019 and 2020"

**Occupation subject: Primary medico-social help. Organization of the out-patient and polyclinic help to the population**

**Occupation purpose:** To study the basic principles of the organization of work, structural divisions and functions of various healthcare institutions rendering the out-patient and polyclinic help to the population.

After studying of this subject the student has to

**to be able:**

- to use the obtained information for the analysis of activity of policlinic and its structural divisions;
- to apply the gained knowledge during training at clinical departments;

mobility:

- definition, features and basic principles of rendering the out-patient and polyclinic help;
- nomenclature of out-patient and polyclinic institutions;
- tasks, functions, structure and features of the organization of activity of city policlinic;
- primary activities of the doctor in policlinic.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Policlinic (definition), functions.

2) Types of city policlinics, structure.

3) Tasks of city policlinic.

4) Registry, tasks, content of work.

5) Organization of work of office of prevention.

6) The organization of work of doctors in polyclinic.

7) Therapist local and content of his work.

8) Therapist local and his functions.

9) Scheduled maintenance of the local therapist.

10) Organization of dispensary service and role of the local therapist.

11) Organization and content of work of therapeutic office.

12) Organization of medical care at home.

13) Manager of office, functions, content of work.

14) What main functions of an office of infectious diseases?

15) Deputy chief physician for a medical part and his function.

16) Chief physician and his functions.

17) The indicators characterizing the organization of work of polyclinic.

a)

b)

c)

d)

e)

1)

2)

e)

18) The indicators characterizing scheduled maintenance of polyclinic.

a)

b)

c)

d)

e)

e)

g)

h)

i)

19) Indicators the characterizing qualities of medical diagnostics and continuity of work of polyclinic and a hospital.



20) Indicators of activity of a hospital.

a)

b)

c)

d)

e)

e)

g)

2. To answer test tasks (The collection of test tasks, section 7).

In a workbook.

3. To make 5 tests on the organization of activity of polyclinic.

In a workbook.

4. To make 5 tests according to the analysis of indicators of activity of city hospital.

In a workbook.

Task 5

Call the main sections of the annual report of treatment and prevention facility:I:

II:

III:

IV:

V:

VI:

VI:

#### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.

3. Social hygiene (medicine) and organization of health care: The manual / Under the editorship of Yu.P. Lisitsyn – M.: 1999. – Page 273-278, 288-289, 301-302, 310-311.

4. Public health and health care: Uchebn. for student. / Under the editorship of V.A. Minyaev, N.I. Vishnyakov. – M.: 2003. – Page 76-86.

6. Physician of V. A., Yuryev V.K. A course of lectures on public health and health care. Part 1. Public health. – M.: 2003. – Page 282-286, 306-364.

7. Lisitsyn Yu. P., Polunin N. V. Public health and health care: Textbook. – M.: 2002. – Page 112-168.

8. Lisitsyn Yu. P. Public health and health care: Textbook. – M.: 2002. – Page 268-313.

9. Application of methods of the statistical analysis for studying of public health and health care: The manual for a practical training / Under the editorship of V.Z. Kucherenko. – M.: 2006. – Page 63, 67-68, 79-104.

10. Lisitsyn Yu.P., Ulumbekova G.E. Public health and health care: textbook by M.: GEOTAR-media, 2015

11. Lisitsyn Yu.P. Public health and health care: textbook by M.: GEOTAR-media, 2007

12. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2014

13. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2012

14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: Organization of the obstetric and gynecologic help**

**Occupation purpose:** To prove the importance of a problem of protection motherhood and the childhood during the planning, the organization and improvement of quality of medical care to women and children.

After studying of this subject the student has to

**Be able:**

- to formulate the main problems of system of protection motherhood and the childhood;
- to count, to analyze and estimate information on activity of obstetrical medical institutions;
- to use the gained knowledge during training at clinical departments;

**nobility:**

- structure of obstetrical medical institutions;
- functions of antenatal clinic, maternity hospital, perinatal center.

1. Questions for independent work (independent work has to be performed in a workbook).

1) In what institutions there is an obstetric and gynecologic help?

2) Antenatal clinic, definition, main objectives.

3) Structure of antenatal clinic.

4) Antenatal clinic, principles of work, content of work.

5) Local obstetrician-gynecologist, content of work.

6) Main sections of work of the local obstetrician-gynecologist.

7) Main sections of rendering the gynecologic help.

8) Prevention of abortions, contraception.

9) Main objectives of stationary obstetric and gynecologic institutions.

10) Structure of a hospital of maternity hospital, delivery room of hospital.

11) Hospitalization of pregnant women.

12) Office of pathology of pregnant women.

13) Gynecologic office, structure, functions.

14) Indicators of work of antenatal clinic.

a)

b)

c)

d)

e)

- g)
- h)
- i)
- j)
- k)

15) Indicators of work of a hospital of maternity hospital.

- a)
- b)
- c)
- d)
- e)
- e)
- g)
- i)

2. To answer test tasks (The collection of test tasks, section 5, 8).

In a workbook.

3. To make 5 tests on work of antenatal clinic.

In a workbook.

4. To make 5 tests on work of a hospital of maternity hospital.

In a workbook.

#### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.

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4. Public health and health care: Uchebn. for student. / Under the editorship of V.A. Minyaev, N.I. Vishnyakov. – M.: 2003. – Page 76-86.

6. Physician of V. A., Yuryev V.K. A course of lectures on public health and health care. Part 1. Public health. – M.: 2003. – Page 282-286, 306-364.

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8. Lisitsyn Yu. P. Public health and health care: Textbook. – M.: 2002. – Page 268-313.
9. Application of methods of the statistical analysis for studying of public health and health care: The manual for a practical training / Under the editorship of V.Z. Kucherenko. – M.: 2006. – Page 63, 67-68, 79-104.
10. Lisitsyn Yu.P., Ulumbekova G.E. Public health and health care: textbook by M.: GEOTAR-media, 2015
11. Lisitsyn Yu.P. Public health and health care: textbook by M.: GEOTAR-media, 2007
12. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2014
13. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2012
14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: Organization of medical care to children**

**Occupation purpose:** To prove the importance of a problem of protection of motherhood and the childhood during the planning, the organization and improvement of quality of medical care to women and children.

After studying of this subject the student has to

**to be able:**

- to formulate the main problems of system of protection of motherhood and the childhood;
- to count, to analyze and estimate information on activity of child care medical institutions;
- to use the gained knowledge during training at clinical departments;

**nobility:**

- structure of child care medical institutions;
- functions of children's polyclinic and children's hospital.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Children's polyclinic, structure, content of work.

2) Main functions of registry of children's polyclinic.

3) Complex assessment of the state of health of children, formation of groups of health of children.

4) Medical examination of children.

5) Active patronage of children.

6) Organization and main objectives of preventive reception.

7) Organization of medical care at home.

8) Main sections of activity of the local pediatrician.

9) Basic elements of activity of the local pediatrician.

10) Sections of activities of the local pediatrician for medical examination of healthy children.

11) Sections of activities of the local pediatrician for medical work.

12) Sections of activities of the local pediatrician for sanitary and educational work.

13) Sections of activities of the local pediatrician for anti-epidemic work.

14) Main types of documentation of children's polyclinic.

15) Key indicators of activity of children's polyclinic.

a)

b)

c)

d)

e)

g)

h)



i)

й)

j)

k)

16) Preschool institutions.

17) Schools, boarding schools, camp of rest.

18) Children's home.

19) Organization of the stationary help to children.

20) Organization and content of work of reception.

21) Organization and content of work of offices (chambers) of hospital.

22) The organization and content of work of special offices (chambers) for newborn and premature children.

23) Organization and content of work of day hospitals.

24) Key indicators of activity of a hospital of children's hospital.

a)

b)

c)

d)

e)

e)

g)

2. To answer test tasks (The collection of test tasks, section 5, 8).  
In a workbook.

3. To answer test tasks (methodical recommendations to a practical training about a subject).  
In a workbook.
4. To make 5 tests on the organization of activity of children's polyclinic.  
In a workbook.
5. To make 5 tests on the organization of activity of children's hospital (hospital).  
In a workbook.

#### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.
2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.
3. Social hygiene (medicine) and organization of health care: The manual / Under the editorship of Yu.P. Lisitsyn – M.: 1999. – Page 273-278, 288-289, 301-302, 310-311.
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7. Lisitsyn Yu. P., Polunin N. V. Public health and health care: Textbook. – M.: 2002. – Page 112-168.
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13. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2012
14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

#### **Occupation subject: Organization of medical care to country people**

**Occupation purpose:** To study the basic principles of the organization of work, structural divisions and functions of various healthcare institutions providing medical care to country people.

After studying of this subject the student has to

**to be able:**

- to use the obtained information for the analysis of activity of the medical institutions providing medical care to country people;
- to apply the gained knowledge during training at clinical departments;

**nobility:**

- system of the organization of medical care of country people;
- the main contents and features of work of treatment and prevention facilities in rural areas;
- organization of medical care of women and children;
- a role of regional hospital in the organization of medical care of country people.

1. Questions for independent work (independent work has to be performed in a workbook).  
1) Rural Medical Site (RMS): definition, structure, main functions.

2) Features of the organization of the out-patient and stationary help in rural local hospital.

3) Medical and obstetrical center, main objectives.

4) Protection of motherhood and the childhood, sanitary and anti-epidemic activity on the rural medical site.

5) 2nd stage of the organization of medical care to country people.  
TsRB, structure, main objectives.

6) 3rd stage of the organization of medical care to country people.  
Regional hospital, structure, main functions.

7) Organizational and methodical department, structure, functions.

2. To answer test tasks (The collection of test tasks, section 7).  
In a workbook.

3. To answer test tasks (methodical developments to a practical training on a subject).  
In a workbook.
4. To make 5 tests.  
In a workbook.

#### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.
2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.
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13. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2012
14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

#### **Occupation subject: Examination of temporary disability**

**Occupation purpose:** To acquaint students with the basic principles and problems of examination of working capacity, the general working capacity, professional working capacity, disability, examination of temporary disability, levels of examination of temporary disability, the organization and order of conducting examination of temporary disability, the reasons of temporary disability and the instruction about an order of issue of the documents certifying temporary disability of citizens.

**to be able:**

1. to resolve issues of examination of working capacity in concrete situations and to process the relevant documents;
2. to apply the gained knowledge during training at clinical departments;

**nobility:**

- levels of examination of temporary disability;
- organization and order of conducting examination of temporary disability;
- reasons of temporary disability;
- the instruction about an order of issue of the documents certifying temporary disability of citizens.

1. Questions for independent work (independent work has to be performed in a workbook).  
1) Examination of working capacity (definition, medico-social value).

2) The basic principles of the organization of examination of working capacity in Russia.

3) Practical problems of examination of working capacity.

4) The basic concepts, the reflecting essence of examination of working capacity and their characteristic.

5) Medical and social criteria of examination of working capacity.

6) Examination of temporary disability (temporary disability, examination of temporary disability definition, characteristic).

7) Levels and stages of examination of temporary disability.

- 8) Duties of the attending physician at implementation of examination of temporary disability.
- 9) Duties of the manager of office at implementation of examination of temporary disability.
- 10) Obligations of the deputy head of establishment for examination of temporary disability at implementation of examination of temporary disability.
- 11) Medical commission (organization, structure, content of work, function).
- 12) Temporary disability at diseases and injuries, features of her registration.
- 13) Temporary disability at care of the sick family member, the healthy child and the disabled child, features of her registration.
- 14) Temporary disability at pregnancy and childbirth, features of her registration.

15) Features of registration of a leaf of disability at the direction for medico-social examination.

2. To answer test tasks (The collection of test tasks, section 9).
  3. To make 5 tests.
- In a workbook.

#### **Literature:**

1. Lisitsyn Yu. P., Polunin N. V. Public health and health care.: Textbook. – M.: 2002, - Page 283-314.
2. Lisitsyn Yu. P. Public health and health care.: Textbook. – M.: 2002, - Page 402-430.
3. Public health and health care: Uchebn. for student. / Under the editorship of V.A. Minyaev, N.I. Vishnyakov – M.: 2003, - Page 364-380.
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11. Lisitsyn Yu.P., Kravchenko N.A., Puzin S.N. Public health and health care (problem of the theory, history, subject methodology). Short course. A grant for students of medical schools and students of improvement. – M.: Compulsory health insurance federal fund, 2006. – Page 276-286.

#### **Occupation subject: Organization of the dental help to the population**

**Occupation purpose:** Students have to study the basic principles of the organization of work, structural divisions and functions of various healthcare institutions rendering the dental help to the population.

Upon termination of studying of a subject the student has to

#### **Nobility:**

- features of the organization of activity of the institutions rendering the dental help taking into account the children's and adult contingents, stages of assistance and level of her specialization;



- a technique of the analysis of activity of the institutions and offices rendering the dental help depending on their specialization (therapeutic, surgical, orthopedic) on the basis of primary registration documentation;

- primary activities of the dentist in medical institutions of various type and profile;

**To be able:**

- to analyze activity of the institutions rendering the dental help to the population taking into account the contingents of the population, stages of assistance and her specialization;

- to analyze activity of the dentist on the basis of primary registration documentation.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Main forms of the organization of the dental help to urban population and their characteristic.

2) Classification of dental polyclinics.

3) System of multilevel service of urban population.

4) Main objectives of dental polyclinic.

5) What work will be will organized and carried out by dental polyclinic.

6) Structure of dental polyclinic.

7) Main sections of work of the dentist.

8) Forms of planned sanitation of an oral cavity and teeth.

9) Methods of planned sanitation of an oral cavity and teeth.

10) Types of prevention and their characteristic.

11) A dispensary method and its application in practice of the dentist (the characteristic, stages).

12) The principle of distribution on dispensary groups.

13) Indicators of efficiency of medical examination.

14) Organization and content of work of orthopedic office.

15) Main objectives of children's dental polyclinic.

16) Structure of children's dental polyclinic.

17) Types of reception of children in dental polyclinics.

18) Planned sanitation, tasks, carrying out stages.

19) Organizational methods of carrying out planned sanitation of children and teenagers.

20) Main features of the organization of the dental help to country people. Characteristic of staging.

21) System of multilevel dental service of country people.

22) The dental help at the level of ФАПов, rural out-patient clinics, local hospitals.

23) The dental help at the level of the central regional hospitals.

24) Regional dental polyclinic and its functions.

25) Main registration statistical documents.

26) Indicators of scheduled maintenance.

27) General indicators of medical work.

28) Indicators of work on therapeutic stomatology.

29) Indicators of work on surgical stomatology.

30) Indicators of work on prosthetics of teeth.

31) Indicators of work on orthodontics.

32) Indicators of work of auxiliary divisions of dental polyclinic.

33) Indicators of security of the population with the dental help.

34) Indicator of level of the dental help.

35) Criteria for evaluation of level of the dental help.

2. To make 10 tests on the organization of the dental help to the population.  
In a workbook.

3. To make 10 tests according to the analysis of activity of dental polyclinic.  
In a workbook.

#### **Literature**

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9. ORDER of the Ministry of Health and Social Development of the Russian Federation of 29.07.05 No. 487 On the approval of the Uniform nomenclature of the public and municipal authorities of health care.
10. ORDER of the Ministry of Health and Social Development of the Russian Federation of 13.10.05 No. 683 On the organization of medical care.
11. ORDER of the Ministry of Health and Social Development of the Russian Federation of 14.04.06 No. 289 O measures for further improvement of the dental help to children in the Russian Federation.
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**Subject: The organization of the public sanitary and epidemiologic service in the Russian Federation**

**Occupation purpose:** Students have to study the organization, structure and content of work of Federal Service for the Oversight of Consumer Protection and Welfare (Rospotrebnadzor), Territorial Departments of Rospotrebnadzor, federal state healthcare institutions of the "Centers of hygiene and epidemiology" exercising the state sanitary and epidemiological surveillance.

**to be able:**

- to use the obtained information for assessment of activity of service of the state sanitary and epidemiological surveillance;
- to apply the gained knowledge during training at clinical departments;

**nobility:**

- the main objectives and the organization of the state sanitary and epidemiological surveillance in the Russian Federation;
- organization, structure and content of work of Territorial Department of Rospotrebnadzor;
- organization, structure and content of work of federal state healthcare institution of "Center of hygiene and epidemiology";
- types of sanitary inspection;
- rights and duties of officials of the state sanitary and epidemiological surveillance;
- a role and the place of a gossanepidnazor in a health care system.

1. Questions for independent work (independent work has to be performed in a workbook).
- 1) Give definition of "sanitary and epidemiologic wellbeing of the population".

2) What provides "sanitary and epidemiologic wellbeing of the population":

3) What is represented by the uniform system of sanitary and epidemiological surveillance.

4) Main objectives of the Public sanitary and epidemiologic service of the Russian Federation.

5) Sections of activity of the Public sanitary and epidemiologic service of the Russian Federation

6) Main activities of institutions of the Public sanitary and epidemiologic service.



7) Institutions of the state sanitary and epidemiological surveillance of the 1st level and their main functions.

8) Main activities of institutions of the state sanitary and epidemiological surveillance of the 2nd level.

9) the 3rd level – the management of the public sanitary and epidemiologic service of the Russian Federation.

10) Precautionary sanitary inspection.

11) Current sanitary inspection.

12) The organization of the state sanitary and epidemiological surveillance in the Russian Federation.

13) Rights of officials of the public sanitary and epidemiologic service.

14) Main methods of work of health officers and epidemiologists.

2. To answer test tasks (The collection of test tasks, section 14).

In a workbook.

3. To make 10 tests on a subject.

In a workbook.

Task 4

The main activities of institutions of the public sanitary and epidemiologic service and hygienic science are:

1)

2)

3)

4)

5)

6)

7)

Task 5

Art. 38 of the Law "About Sanitary and Epidemiologic Wellbeing of the Population" grants to officials of the public sanitary and epidemiologic service of the country the right:

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)

11)

12)

13)

Task 6

The chief state health officers have the right:

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)
- 11)
- 12)
- 13)

#### Task 7

The chief state health officers, other officials and specialists of the public sanitary and epidemiologic service exercising sanitary and epidemiological surveillance within the competence are obliged:

- 1)
- 2)
- 3)
- 4)

#### Task 8

Duties of employees of the state sanitary and epidemiological surveillance include the following:

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)

7)

8)

9)

#### Task 9

Technique of the analysis of activity of the public sanitary and epidemiologic service:

a) quantitative criteria for evaluation of activity ... ..

b) qualitative characteristics of activity ... ..

c) general indicators of efficiency ... ..

d) states and structure of the public sanitary and epidemiologic service ... ..

#### Task 10

Indicators of precautionary sanitary inspection:

1)

2)

3)

4)

5)

6)

#### Task 11

Contents and indicators of the current sanitary inspection:

a) contents:

b) indicators:

#### Literature:

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14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: HEALTH CARE ECONOMY AS SCIENTIFIC DISCIPLINE**

**Occupation purpose:** to study the place of economy of health care in modern structure of economic knowledge, a role in the system of public health care; studying of the economic relations which develop between people in the course of implementation of medical professional activity, achievement of the maximum results at the smallest material, labor and financial inputs; influence of health care on development of the national economy by improvement of the state of health of the population.

After studying of this subject the student has to

#### **Nobility:**

- cost of different types of medical care;
  - the cost of one visit of polyclinic to various doctors;
  - cost of one visit of the doctor at home;
  - cost of one call of ambulance and emergency medical service;
  - the cost of the contents of one bed in a year, one койко-day of stay of the patient in a hospital;
  - the cost of treatment and inspection in medical and diagnostic offices.
  - a health care role in development of national economy;
  - main reasons for growth of interests in health care economy;
  - main reasons for growth of expenses on health care;
  - the circumstances which have caused to allocation of economy of health care in independent science;
  - health care economy, definition, purpose;
  - levels of the economic relations of health care;
  - research methods in health care economy;
  - medical efficiency;
  - social efficiency;
  - economic efficiency.
- To be able:

- to analyze economic aspects of assessment of quality and efficiency of medical care;
- to define medical and economic efficiency of preventive actions, medical examinations;
- to analyze economic indicators of stationary and out-patient and polyclinic institutions;
- to analyze economic efficiency from decrease in incidence with temporary disability, infectious incidence;
- to calculate the general economic damage in connection with incidence with temporary disability;
- to calculate economic damage from incidence of tuberculosis, from oncological diseases, from primary exit to disability;
- to define economic efficiency from introduction of new methods of diagnostics, treatment, prevention, the medical and diagnostic equipment;
- to calculate the prevented economic damage;
- to calculate the cost of medical care;
- to calculate coefficient of economic efficiency;
- to calculate expenses on one койко-day according to actual data;
- to calculate expenses on one койко-day according to settlement data;
- to calculate a difference between the actual and settlement cost of койко-day;
- to define economic losses from idle time of beds;
- to apply the gained knowledge when training at profile departments;
- to apply the gained knowledge when passing a work practice.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Main reasons for growth of interests in economy of health care and main reasons for growth of expenses on health care.

2) What circumstances have caused to allocation of economy of health care in independent science.

3) The basic concepts of economy used in health care.

4) Health care economy subject, definition, purpose, characteristic.

5) Main sections of economy of health care.

6) Levels of the economic relations and their short characteristic.

7) Problems of economy of health care.

8) Types of relationship between people in the course of professional activity.

9) Levels of the economic relations and their short characteristic.



10) Research methods in economy of health care and their characteristic.

11) Medical efficiency.

12) Social efficiency.

13) Economic efficiency.

14) Economic losses and their characteristic.

15) The prevented economic damage and a technique of his definition.

16) Main directions of economic assessment of activity of a hospital.

17) Payment methods of stationary medical care.

18) Payment methods of out-patient medical care.

2. To answer test tasks (The collection of test tasks, section 11).

In a workbook.

3. To answer test tasks (methodical developments to a practical training on a subject).

In a workbook.

4. To make 5 tests on a subject.

In a workbook.

5. To execute one option (according to instructions of the teacher) tasks 1. "Assessment of economic efficiency of treatment-and-prophylactic actions" and one option (according to instructions of the teacher) tasks 2. "Definition of economic losses from idle time of beds" (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 294-303).

In a workbook.

Task 6

Real economic loss - ... ..

Task 7

Indirect economic losses - ... ..

Task 8

Treat cost indexes of work of hospital: 1), 2), 3).

Task 9

Indicators of use of bed fund:

1)

2)

3)

4)

**Literature:**

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### **Occupation subject: MANAGEMENT IN the HEALTH CARE SYSTEM**

**Occupation purpose:** to study the purposes and tasks of management of medical objects, activity in the field of health care, the main functions of management in health care economy, for the purpose of maintenance and strengthening of health of the population, reduction of incidence, increase in life expectancy.

After studying of this subject the student has to

**Nobility:**

- management, definition, purpose;
- management in health care;
- general management;
- functional management;
- main functions of management of health care economy;
- subject of management;
- object of management;
- main features of management of health care;
- technology of management;
- principles of management;
- power and responsibility;
- management styles;
- methods of management;
- functions of management;
- control system levels in medical institution;
- administrative cycle and its stages;

- requirements to the administrative decision;
- main functions of management;
- basic principles and ACS function;
- basic principles of the scientific organization of work.

**To be able:**

- to apply the gained knowledge when training at profile departments;
- to apply the gained knowledge when passing a work practice.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Management, purpose, characteristic.

2) Management in health care, definition, the purpose, tasks, an object.

3) General and functional management.

4) Main functions of management of health care economy.

5) Subjects and objects of management.

6) Main features of management of health care.

7) Technology of management, organizational structure, mechanism of management.

8) Principles of management.

9) Power and responsibility.

10) Management styles.

11) Methods of management.

12) Control system levels in medical institution.

13) Administrative cycle and its stages.

14) Requirements to the administrative decision.

15) Main functions of management.

16) The basic principles and the ACS function in health care.

17) Basic principles of the scientific organization of work.

2. To answer test tasks (The collection of test tasks, section 13).

In a workbook.

3. To make 5 tests on a subject.

In a workbook.

Task 4

Management includes the analysis of an object of management as systems: ... ..

Task 5

Situation analysis allows ... ..

Task 6

The health care represents ... ..

Task 7

Management of health care - ... ..

Task 8

Economic methods of management - ... ..

Task 9

Basic concepts of the economic analysis: ... ..

Task 10

The most important element of use of economic methods in management is ... ..

Task 11

Management includes 6 main complexes of actions:

a), b), c), d), e), e).

Task 12

Strategic level of management - ... ..

Task 13

Tactical level of management - ... ..



Task 14

Operational level of management - ... ..

Task 15

Strategic level of management corresponds ... ..

Task 16

Tactical level of management corresponds ... ..

Task 17

Operational level of management corresponds ... ..

Task 18

Planning methods:

a)

b)

c)

d)

e)

e)

Task 19

Modern planning is called ... ..

### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.
2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.
3. Social hygiene (medicine) and organization of health care: The manual / Under the editorship of Yu.P. Lisitsyn – M.: 1999. – Page 273-278, 288-289, 301-302, 310-311.
4. Public health and health care: Uchebn. for student. / Under the editorship of V.A. Minyaev, N.I. Vishnyakov. – M.: 2003. – Page 76-86.
6. Physician of V. A., Yuryev V.K. A course of lectures on public health and health care. Part 1. Public health. – M.: 2003. – Page 282-286, 306-364.
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12. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2014
13. Physician of V. A., Yuryev V.K. Public health and health care: textbook by M.: GEOTAR-media, 2012
14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: The MARKET RELATIONS AND MARKETING IN HEALTH CARE**

**Occupation purpose:** to study methods of state regulation of the market of medical services, the main functions of the market of medical goods and services, the place, a role, the marketing purposes in medical practice and medico-production activity, strategic and price marketing of goods and services of medical appointment, the main concepts of marketing in health care and medical activity, marketing activity of MPI.

After studying of this subject the student has to

#### **Nobility:**

- marketing, definition, maintenance;
- types of marketing;
- medical marketing;
- marketing in health care;
- basic elements of marketing;
- medical service, properties;
- medical service, main features;
- main features of the market of medical services;
- conceptual approaches for conducting marketing activity;
- marketing activity;
- market;

- commercial and noncommercial marketing, main distinctions;
- types of marketing in health care;
- stages of management of marketing in health care;
- market segmentation, main criteria;
- segmentation of the market on the main groups of patients;
- complex of marketing and its elements.

**To be able:**

- to apply the gained knowledge when training at profile departments;
- to apply the gained knowledge when passing a work practice.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Prerequisites of emergence of marketing in health care.

2) Marketing, definition, maintenance.

3) Types of marketing.

4) Medical marketing, marketing in health care and their contents.

5) The main prerequisites of introduction of marketing in health care.

6) Market researches. Basic elements of marketing: need, motive.

- 7) Basic elements of marketing: requirement, inquiry.
- 8) Goods (or service), definition, characteristic.
- 9) Medical service, definition, general properties, medico-social properties.
- 10) Medical service and its main features.
- 11) The market in the sphere of medical services and his main features.
- 12) Basic elements of marketing: exchange, transaction and their conditions.
- 13) Basic elements of marketing: demand, offer.

14) The main conceptual approaches for conducting marketing activity.

15) Market: definition, characteristic, basic elements of the market of services of health care.

16) Competition, definition, characteristic.

17) Main differences between commercial and noncommercial marketing.

18) Types of marketing in health care.

19) Stages of management of marketing in health care.

20) Market segmentation, main criteria.

21) Segmentation of the market on the main groups of patients.

22) Development of a complex of marketing and its elements.

2. To answer test tasks (The collection of test tasks, section 11).

In a workbook.

3. To make 10 tests on a subject.

In a workbook.

#### **Literature:**

1. Serenko A. F., Ermakov V. V. (edition). Social hygiene and organization of health care. M.: 1984. – Page 97-108, 110-123.

2. Lisitsyn Yu. P., N.Ya. (edition) Hoofs. The guide to a practical training to social hygiene and the organization of health care. M.: 1984. – Page 49-72.

3. Social hygiene (medicine) and organization of health care: The manual / Under the editorship of Yu.P. Lisitsyn – M.: 1999. – Page 273-278, 288-289, 301-302, 310-311.

4. Public health and health care: Uchebn. for student. / Under the editorship of V.A. Minyaev, N.I. Vishnyakov. – M.: 2003. – Page 76-86.

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14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: PLANNING of HEALTH CARE**

**Occupation purpose:** to study the main objectives, the principles, methods, types of planning of health care for the fullest satisfaction of the population in medical care according to economic opportunities; planning of the out-patient and polyclinic and stationary help to the population.

After studying of this subject the student has to

#### **Nobility:**

- definition of the plan of health care;
- problems of planning of health care;
- basic principles of planning of health care;
- types of planning (on level, on time factor);
- planning methods (analytical, comparative, balance, standard, economic-mathematical);
- main norms of health care;
- main standards of health care;
- main sections of the plan of health care;
- a technique of definition of requirement of medical positions for out-patient and polyclinic network;
- technique of definition of need of the population for the stationary help;
- program of the state guarantees of providing citizens of the Russian Federation with free medical care;
- business plan, sequence of drawing up and structure;
- risks: financial and economic, social and technical.

#### **To be able:**

- to apply the gained knowledge when training at profile departments;
- to apply the gained knowledge when passing a work practice;
- to make the plan of health care of the city (number of hospital beds, number of therapeutic and pediatric sites, number of medical positions, number of medical visits);
- to make the plan of health care of the rural area (number of hospital beds, number of medical positions, number of medical visits).

1. Questions for independent work (independent work has to be performed in a workbook).

1) Basic principles of planning of health care of Russia.

2) Types of planning (on the level, time factor).

3) Methods of planning and their characteristic.

4) Norms of health care (characteristic, main norms).

5) Standards of health care (characteristic, main standards).

6) Main sections of the plan of health care.



7) A technique of determination of necessary quantity of medical positions for out-patient and polyclinic network.

8) Technique of definition of need of the population for the stationary help.

10) What types of risks can arise at implementation of the business plan and their characteristic.

2. To answer test tasks (The collection of test tasks, section 10).

In a workbook.

3. To make 5 tests on a subject.

In a workbook.

4. To execute one option (according to instructions of the teacher) tasks 1. "Planning of health care" (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 303-328).

In a workbook.

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14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: FINANCING of HEALTH CARE**

**Occupation purpose:** to study main types and sources of financing of health care in new economic conditions, ways of effective use of financial resources.

After studying of this subject the student has to

**Nobility:**

- financing definition;
- types of financing of health care;
- sources of financing of health care;
- financing from budgets of all levels;
- economic classification and its contents;
- estimate of expenses (definition, structure of the standard estimate, operating costs and their structure);
- financing from budgets of territorial subjects of the federation and municipal budgets;
- cost, pricing, profitability;
- types of the prices (tariffs, budgetary, market, list, retail, wholesale, contractual, etc.);
- sources of financing of MPI;
- types of financial resources;
- credit;
- leasing (types, mechanism of the leasing transaction).

**To be able:**

- to apply the gained knowledge when training at profile departments;
- to apply the gained knowledge when passing a work practice;
- to make the estimate of hospital: charges on the salary (article 2), expenses on food (article 9), on acquisition of medicines (article 10), on acquisition of soft stock (article 14) to calculate specific weight (in %) expenses under the main articles of the estimate in the total amount of expenses on hospital and the cost of the contents of one bed in a year.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Financing definition, types of financing of health care, sources of financing of health care.

2) Financing from budgets of all levels (the budget, the budgetary classification, levels, types of expenses).

3) Economic classification and its contents.

4) Estimate of expenses (definition, structure of the standard estimate, operating costs and their structure).

5) Financing from budgets of territorial subjects of the federation and municipal budgets.

6) Cost, pricing, profitability.

7) Types of the prices. Budgetary prices.

8) Tariffs for medical services.

9) Market and list prices.

10) Retail and wholesale prices.

11) Sources of financing of MPI.

12) Types of financial resources.

13) Credit.

14) Leasing (mechanism of the leasing transaction, types).

2. To answer test tasks (The collection of test tasks, 12).

In a workbook.

3. To make 5 tests on a subject.

In a workbook.

4. To execute one option (according to instructions of the teacher) tasks 2. "Drawing up the estimate of hospital" (see the Guide to a practical training to social hygiene and the organization of health care / Under the editorship of Yu.P. Lisitsyn, N.Ya. Hoofs. – M.: 1984. – Page 303-328).

In a workbook.

#### Task 5

By calculations of experts expenses on health care make from ... ..

#### Task 6

Specialists of WHO consider that they for the solution of the main problems of health care of expense of society have to be not less ... ..

#### Task 7

The advanced countries with social market economy having state (insurance and budgetary) a health care system, have achieved great success in ensuring availability of medical care to the population, spending ... ..

#### Task 8

Now legal bases of financing of health care are defined ... ..

#### Task 9

According to the Constitution of 1993 (Art. 41) in the Russian Federation are financed ... ..

#### Task 10

Sources of financing of health protection are specified in Art. 10 of Principles of the legislation of the Russian Federation on protection of public health, it:

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)

Task 11

In Art. 10 of Principles of the legislation of the Russian Federation on protection of public health sources of means directly for financing of bodies and healthcare institutions are specified. It:

- a)
- б)
- в)
- г)
- д)
- е)
- ё)

Task 12

Financial means are used:

- a)
- b)
- c)
- d)
- e)
- e)
- ё)
- g)

Financial means of the compulsory health insurance state system are formed for the account ...  
These means are ... ..

Task 14

As the health care is in the sphere of joint maintaining the Russian Federation and subjects in its structure, territorial subjects of the federation bear ... ..

Task 15

Price = ... ..

Task 16

When calculating the prices use more often ... ..

Task 17

Price of a unit of production = ... ..

**Literature:**

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### **Occupation subject: FORMS OF OWNERSHIP, the NEW ECONOMIC MECHANISM, BUSINESS AND PRIVATIZATION IN HEALTH CARE**

**Occupation purpose:** to study forms of ownership in economy and health care, the main subjects and objects of property in health care, specifics of business activity and privatization in health sector.

- After studying of this subject the student has to

**Nobility:**

- • property, types of property;
- • new economic mechanism (NEM);
- • activity of MPI in the conditions of NHM;
- • financing sources;
- • self-financing models;
- • privatization, purposes;
- • the basic principles of privatization in health care;
- • main approaches to privatization of medical institutions;
- • incorporating and her stages;
- • privatization options;
- • business, types;
- • medico-production business, types;
- • legal forms of business in health care.

**To be able:**

- to apply the gained knowledge when training at profile departments;
- to apply the gained knowledge when passing a work practice.

1. Questions for independent work (independent work has to be performed in a workbook).



1) Property (definition, types).

2) State ownership.

3) Municipal property.

4) Private property, general property and their characteristic.

5) New Economic Mechanism (NEM), main directions.

6) The NHM elements in health care.

7) Activity of MPI in the conditions of NHM.

8) Financing sources.

9) Uniform financial fund, fixed and additional resources.

10) Uniform fund of financial means of healthcare institution and its use.

11) First model of self-financing.

12) Second model of self-financing.

13) Third model of self-financing.

14) Fourth model of self-financing.

15) Privatization (definition, purposes, ways).

16) Management of privatization in the Russian Federation.

17) Privatization in health care, the basic principles.

18) Three-level system of structure of health care.

19) Main approaches to privatization of medical institutions.

20) The used sources of means at privatization of the state property.

21) Incorporating and her stages.

22) 1st option of privatization.

23) 2nd option of privatization.

24) 3rd option of privatization.

25) Business, types, characteristic.

26) Medico-production business, types.

27) Legal forms of business.

28) Characteristic features of the public, municipal medical institutions rendering medical services on a paid basis.

2. To answer test tasks (The collection of test tasks, section 11).

In a workbook.

3. To make 10 tests on a subject.

In a workbook.

Task 4

The property right is defined ... ..

Task 5

Possession means ... ..

Task 6

The order means ... ..

Task 7

Responsibility of the owner ... ..

Task 8

Protection of the property rights ... ..

Task 9

Right of full economic maintaining ... ..

Task 10

Right of operational management ... ..

Task 11

Main types of property in Russia:

a)

b)

c)

d)

e)

e)

ë)

Task 12

The state ownership in a health care system includes:

a)

b)

c)

d)

e)

ë)

Task 13

The municipal property in a health care system includes:

Task 14

In a health care system treat a private property:

a)

b)

c)

Task 15

In the provision on the new economic mechanism (NEM) in health care it is told "By main objectives of the transfer of healthcare institutions on new conditions ... ..".

Task 16

The NHM main directions in health care became ... ..

Task 17

Transition from the state form of ownership to non-state ...

Task 18

As sources of means at privatization of the state property can be used:

a)

b)

c)

d)

Task 19

At the first stage of privatization as a source of means for privatization of state ownership were used  
... ..

Task 20

Business activity without attraction of wage labor is registered as ..., and with attraction of wage labor - ....

Task 21

The status of the businessman is acquired by ... ..

Task 22

Business activity can be carried out by the owner or the subject operating his property on the rights  
... ..

Task 23

The relations of the subject operating property and the owner of property are regulated ... ..

Task 24

If the businessman – the owner, itself operates the enterprise (or other property), carrying out production of goods and services, he works as ... ..

Task 25

If the director (institutions) – the manager also works under the contract concluded with the owner (the state, the organization or the individual), exercising control on behalf of the owner as full or limited economic maintaining, he acts to some extent as ... ..

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14. A.V. Reshetnikov health care Economy: studies. M.'s grant: GEOTAR-Med, 2003, 2007, 2010

### **Occupation subject: MEDICAL INSURANCE IN the RUSSIAN FEDERATION**

**Occupation purpose:** to study problems of the compulsory health insurance system, a role of the state in the system of medical insurance, financing of the compulsory health insurance system in the Russian Federation, the financial and economic relations in the compulsory health insurance system, economic resources and the prospects of development of compulsory health insurance.

After studying of this subject the student has to

**Nobility:**

- medical insurance, definition;
- compulsory health insurance (CHI): definition, purpose;
- basic principles of compulsory health insurance;
- voluntary health insurance;
- object of insurance;
- legal bases of medical insurance;
- law "About Medical Insurance of Citizens in the Russian Federation";
- direct subjects of medical insurance: citizens, insurer, medical insurance companies, medical institutions, compulsory health insurances funds;
- experts: rights, duties;
- licensing;
- accreditation;
- types of contracts in the compulsory health insurance system;
- tariffs;
- reserves of medical insurance companies;
- payment methods of medical services;
- compulsory health insurances organizational and financial models.

**To be able:**

- to apply the gained knowledge when training at profile departments;
- to apply the gained knowledge when passing a work practice.

1. Questions for independent work (independent work has to be performed in a workbook).

1) Compulsory health insurance, definition, purpose, characteristic.

2) Basic principles of medical insurance (compulsory health insurance, VHI, object of medical insurance).

3) Comparative analysis of the main distinctive features of VHI and compulsory health insurance.

4) Direct subjects of medical insurance.

5) Citizens in the system of medical insurance.

6) The insurer in the system of medical insurance.

7) Medical insurance companies in the system of medical insurance.

8) Experts of medical insurance companies.

9) Medical institutions in the system of medical insurance.

10) Licensing and accreditation of medical institutions.

11) Types of contracts and their character.

12) Tariffs.

13) Indirect subjects of medical insurance.

14) Compulsory health insurance basic program.

15) Compulsory health insurance territorial program.

16) Financial means of the compulsory health insurance state system.

17) A role of medical insurance companies in compulsory health insurance financing.

18) Payment methods of medical services.

19) Compulsory health insurances main organizational and financial models.

2. To answer test tasks (methodical developments to a practical training on a subject).

In a workbook.

3. To make 5 tests on a subject.

In a workbook.

Task 4

According to the Resolution of the government of Russia of 05.08.92 the contribution of employers to compulsory health insurance joins in ... .., and voluntary health insurance can be carried out only for the account ... ..

Task 5

The contribution to compulsory health insurance is established by public authorities as a percentage ... .., and insurance tariffs for voluntary health insurance are defined ... ..

Task 6

The compulsory health insurance federal fund is ... ..

Task 7

In the system of medical insurance citizens of Russia have the right:

- a)
- b)
- c)
- d)
- e)
- e)
- ě)

Task 8

The rights and obligations of insurer are defined by the law. The insurer has the right:

- a)
- b)
- c)
- d)

Task 9

Besides, the enterprise – the insurer has the right:

- a)
- b)
- c)

Task 10

In compliance with the law medical insurance companies have the right ... ..

Task 11

Medical insurance companies are obliged: ... ..

Task 12

For work in the conditions of medical insurance medical institutions have to pass ... ..

Task 13

Licensing - ... ..

Task 14

Licensing is carried out ... ..

Task 15

The territorial license commission is formed ... ..

Task 16

When carrying out licensing medical institutions have the right  
... ..

Task 17

For carrying out licensing the medical institution gives ... ..

Task 18

Accreditation - ... ..

Task 19

It is free of charge provided by the program of the state guarantees to citizens of the  
Russian Federation:

- a)
- b)
- c)
- d)
- e)
- e)

#### Task 20

According to the law take part in development of tariffs for medical services ... ..

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