

**MEDICAL UNIVERSITY OF KARAGANDA**

**PROGRAM OF ENTRANCE EXAMINATION  
DOCTORATION BY SPECIALTY  
6D110200 - PUBLIC HEALTH**

**KARAGANDA 2019**

The program of entrance examinations for doctoral studies in the specialty 6D110200 - "Public Health" was compiled on the basis of a typical vocational curriculum in the specialty "Public Health".

Developer of the entrance exam program - Department of Public Health

The program of entrance examinations for doctoral studies in the specialty 6D110200 - "Public Health" was reviewed at a meeting of the Department of Public Health

1. Purpose: to determine the level of compliance that enters the doctoral program in the specialty 6D110200 - Public Health criteria determined by the selection committee of the NAO "MUK" in accordance with the requirements of the state compulsory educational standard.

2. Tasks:

The entrance exam program includes the topics of the courses "Biostatistics", "Organization and management of health care" and solves the following tasks:

1. Assess the level of preparedness and mastering the professional competencies of the educational professional program with the direction of the specialty of the master's program "Public Health"
2. To assess the level of mastering the related disciplines of the educational professional program with the direction of the specialty of the master's program "Public Health"
3. Contents of the entrance examination program

The entrance examination program includes questions of the main sections of the following disciplines:

<b>Discipline "Organization and management of health care"</b>	
<b>№</b>	<b>Content of the discipline</b>
1.	Public health and its determinants.
2.	Legal framework for health.
3.	Health Policy.
4.	The quality of medical care.
5.	Types and stages of the organization of medical care.
6.	The organization of primary health care.
7.	Organization of inpatient care.
8.	Organization of specialized medical care.
9.	Organization of medical and social prevention.
9.	Social and medical insurance. OMS in Kazakhstan.
10.	Health systems and models.
11.	Health economics. Healthcare market.
12.	Healthcare planning.
13.	Health care financing.

<b>Discipline "Biological statistics"</b>	
<b>№</b>	<b>Content of the discipline</b>
1.	Numerical characteristics of random variables.
2.	Graphic representation of data.
3.	Confidence interval
4.	Parametric and non-parametric criteria for testing statistical hypotheses.
5.	Correlation analysis.
6.	Regression analysis.
7.	Dispersion analysis.
8.	The method of standardization, its meaning and application.
9.	Tools for processing statistical data.
10.	Analysis of the use of statistical methods in articles and dissertation research.

#### 4. List of recommended literature

**Recommended literature for the discipline "Organization and management of health care":**

**Main literature:**

1. Reshetnikov A.V. Medicine әлеуметтану оқулығы / A.V. Reshetnikov; Kazakh tilin audargan A. M. Markabaeva; Zhauapty ed. T. K. Rakhypbekov. - M.: GEOTAR-Media, 2015. - 288 b.

2. The “Қамдығ Денсаулық және not the Денсаулықты сақтау: оқулық” / M. Bleshev. - Almaty: [b. and.], 2012. - 256 b.
3. Public health: a textbook / A. A. Akanov [et al.]. - M.: Literra, 2017. - 496 p.
4. Public health and health care, health economics: in 2 volumes: textbook / ed. V. Z. Kucherenko. - 2nd ed., Pererab. and add. - M.: GEOTAR-Media.T.1. - 2013. - 752 p., V.2. - 160 s. Code of the Republic of Kazakhstan on the health of the people and the health care system (with amendments and additions as of April 19, 2019)[https://online.zakon.kz/Document/?doc\\_id=30479065#pos=5;-158](https://online.zakon.kz/Document/?doc_id=30479065#pos=5;-158)
5. The state program for the development of health care in the Republic of Kazakhstan "Densauly" for 2016-2019 <https://www.enbek.gov.kz/ru/node/332663>
6. Park's textbook of Preventive and social medicine: textbook / K. Park. - 22d ed. - Jabalpur: Banarsidas Bhanot, 2013. - 876 p
7. Essentials of Public Health: textbook / B. J. Turnock. - 3rd ed. - Chicago: Jones & Bartlett Learning, 2016. - 294 p.
8. Management and economics of health care: study guide / A. I. Vyalkov, V. Z. Kucherenko, B. A. Raizberg; ed. A.I. Vyalkov. - 3rd ed., Ext. - M.: GEOTAR-Media, 2013. - 664 p.
9. Management in health care: guidelines / N. G. Petrova [et al.]. - M.: MEDpress-inform, 2009. - 256 p.
10. Medical prevention. Modern technologies: manual / ed. A.I. Vyalkov. - M.: GEOTAR-Media, 2009. - 232 p.

#### **Additional literature:**

1. Primary health care: monograph / A. A. Akanov, T. S. Meimanaliev. - Almaty: New book. Part 1: Analysis of primary health care in developed countries of the world. - 2018. - 212 seconds
2. Public health and health care: a textbook / V. A. Medic, V. K. Yuryev. - 2nd ed., Corr. and add. - M.: GEOTAR-Media, 2014. - 608 p.
3. Ereemeev A.M. ҚҰҚамдық Денсаулық және Денсаулық сақтаудың жадайлық есептер жинағы: оқу-әдістемелік құрал / A.M. Ereemeev, R.K. Baigengeeva, N.M. Kharisova; KSMU. - Karagandy, 2010. - 60 b.
4. Basics of the organization of emergency medical care in the Republic of Kazakhstan / A. A. Dubitsky. - Almaty: New book, 2018. - 304 p.
5. Quality management of medical care: a scientific publication / M. A. Tatarnikov. - M.: GEOTAR-Media, 2016. - 304 p.
6. Public health and public health of the Republic of Kazakhstan. White Paper: monograph / A. Akanov, T. Meimanaliev. - Almaty: New book, 2018. - 80 seconds
7. Introduction to Health Care Management [Text]: textbook / ed. : S. B. Buchbinder, N. H. Shanks. - 3rd ed. - Chicago: Jones & Bartlett Learning, 2017. - 676 p

#### **Discipline "Biological statistics":**

##### **main:**

1. Gerasimov A.N. Medical statistics ucheb.posobie / A.N. Gerasimov. - M.: Med.inform. Agency, 2007. - 480 p.
2. Bryan Kestenbaum "Epidemiology and Biostatistics. An Introduction to Clinical Research: Springer. - 2009. - 242 p. (<http://link.springer.com/book/10.1007%2F978-0-387-88433-2>)
3. Mark Chang "Modern Issues and Methods in Biostatistics": Springer. - 2011. - 307 p. (<http://link.springer.com/book/10.1007%2F978-1-4419-9842-2>)
4. <http://www.biometrika.tomsk.ru/> Website of biostatistics in medicine and biology

##### **Additional:**

5. Biostatistics: a textbook / B. K. Koychubekov. - Almaty: New book, 2018. - 152 p.

6. Koychubekov, B. K. "Fundamentals of statistical analysis of biomedical data": Textbook.-method.book / KSMA; B.K. Koichubekov.-Karaganda: KSMA, 2006.-52s.
7. Mathematical-statistical data processing of medical research: scientific publication / V.I. Yunkarov, S.G. Grigoriev, M.V. Rezvantsev. - 3rd ed., Ext. - SPb. : Military Medical Academy, 2011. - 318 seconds
8. Informatics and medical statistics: study guide / ed. G. N. Tsarik. - M.: GEOTAR-Media, 2017. - 304 with
9. Petri, A "Visual statistics in medicine": Textbook. / A. Petri, K. Sabin; Per. from English .-M.: GEOTAR-MED, 2nd edition rer. and dopol, 2009.-144c
10. Kucherenko V.Z. "Application of statistical analysis methods for studying public health and public health": Proc. allowance / ed.Kucherenko, VZ - M.: GEOTAR-Media, 2007. - 256 p.
11. How to describe the statistics in medicine: a guide for authors, editors and reviewers: Per. from English / T. A. Lang, M. Sesik. - M.: Practical medicine, 2011. - 480 p.