

Catalog of elective disciplines

1. **Department:** "Hygiene and epidemiology"
2. **Level of preparation (bachelor / internship / magistracy / residency)**
3. **Specialty:** 6B10105-“Public Health”
4. **Course:** 4
5. **Name of elective discipline :** "Hygienical researches in the State sanitary- epidemiology supervision"
6. **Number credit - 5**
7. **Aim:** study of hygienical methods of research on all divisions hygienes used in a sanitary-epidemiology supervision.

8. Tasks:

- to acquaint with the modern methods of hygienical research;
- to teach to use laboratory equipment and devices in practice

9. Ground of choice of discipline: for realization of sanitary- epidemiology supervision the use of laboratory place and devices is needed. Application of laboratory equipments gives an opportunity really to estimate the state of this object. Therefore the specialists of MPB need this elective discipline.

10. Results of educating (competenses) :

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
- knows modern hygienical researches; - knows the laboratory equipments of every department; - knows principles of work of devices of <i>используемых</i> in practice.	-работает by different laboratory devices; - work and lacks of methods of hygienical research estimates; - analyses the got results.	-give new ideas; - demonstrates corresponding communicative skills; -to observe principles of hodegetics at intermingling with a population; - to observe skills of work in a command and leader qualities.

11. Prerecvizit: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Postrecvizit: articles of city council.

13. Literature

Basic:

1. Communal hygiene /Edited Mazaev B.T. In 2 . -, 2007 - 4.1.-304 p.; . 2. - 336 p.
2. Guidance to laboratory employments on a general hygiene. - M., 2009.-736c.
3. Hygiene of feed : studies. establishments/ Королев А.А. - М.: the Publishing center "Academy", 2006.- 528 p.
4. Terehin of C.P., Ahmetova C.B. Curative feed (studying manual). it is Karaganda. 2005. - 385 p.
5. Normative and legal acts, normatively-methodical documents you Government sanitary- epidemiology service, sanitary rules and norms on a hygiene feeds operating on territory of RK

1. **Department:** "Hygiene and epidemiology"
2. **Level of preparation (bachelor / internship / magistracy / residency)**
3. **Specialty:** 6B10105-“Public Health”**Course:**
4. **Name of elective discipline :** "Hygiene of organizations of health protection and prophylaxis in-hospital to the infection"
5. **Number credit - 5**

6. Aim: to pawn knowledge and abilities, necessary for mastering of legislative base, theoretical and applied aspects of preventive and current supervision in area of hygiene of medical and preventive establishments and prophylaxis of in-hospital infections.

8.Tasks:

- to acquaint the hygienes of medical and preventive establishments with theoretical and methodological bases;
- to teach to develop the complex of norms and requirement to placing, planning and sanitary-technical providing of medical and preventive establishments with the purpose of creation of optimal terms of stay of patients, effective realization of curative process and favourable terms of labour of medical personnel.

9. Ground of choice of discipline : Quality of medical service of population in a great deal depends on the level of the sanitary equipping with modern amenities of network of different medical and preventive establishments (dispensaries, honey.centers, policlinics, SES, station). Being in LPU, patients are constantly exposed to complex influence of physical, chemical and biological factors.

From physical factors basic is littledynamic microclimate parameters as, temperature, humidity, atmospheric pressure and mobility of air, noise, EMP, II. Composition of air environment in LPU has a specific complex of chemical contamination.

The very specific and original factor of hospital environment are causative agents of BBI, dwellings on all her objects and striking both patients and personnel of LPU. BBI results in lengthening of terms of stay of patients and his treatment. From having data, BBI suffer from 5 to 12% of incurrence of the hospitalized patients. Main yellow-green doctors are arrived at by 44,6%, among train nurse -55,3%, among junior nurses - 75%. In discipline given questions occupational of medical staff health.

For optimization of factors of in-hospital environment and heterospecific prophylaxis of BBI, and also for the study of feature of medical organizations for the future specialists of MPW and PH this elective discipline is needed.

10.Result educating (Competenses)

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
<ul style="list-style-type: none"> - knows sanitary-epidemiology requirements to placing, equipping with modern amenities and equipment of objects of LPU; - knows methodology of realization of deep, raid and ПЛАНОВОГО inspection of medical and preventive establishments; - knows methodology of realization of prophylaxis of in-hospital infections; - maintenance of basic normative legal acts and requirements knows to the hyena of medical and preventive establishments; - knows the value of medical wastes, their classification, methods of utilization; 	<ul style="list-style-type: none"> - carries out a preventive and current sanitary- epidemiology supervision in the objects of LPU; -start examination of project documents of different objects of LPU; - determines indexes and to give the hygienical estimation of apartments of medical and preventive establishments and recommendations on optimization of terms of stay of patients in LPU; -recomendent rational placing of patients in medical and preventive establishments with the purpose of warning of BBI;; - to observe sanitary- technical equipment of medical and preventive establishments; 	<ul style="list-style-type: none"> - to be sociable, - to possess a broad mind, -give new ideas, quikly to adapt oneself to the changes of society and system of health protection, -analiz and to plan the professional activity. - to be ready to decide the system-problem tasks of realization of sanitary- epidemiology supervision in practical activity; - to demonstrate corresponding communicative skills, observing principles of medical etica at intermingling with a population, co-operating with colleagues; - to possess skills of work in a command and leader qualities; - to be able to teach other and perfect the knowledge and skills

<p>- the hygienical value of disinfection control of LPU knows; -знает basic types of in-hospital infections, prophylaxis of BBI; - knows the specific of terms of labour of different medical professions.</p>	<p>- to use operating legislative, instructional and methodical материалы on the division of hygiene of medical and preventive establishments and BBI in medical activity.</p>	<p>on extents of all professional activity.</p>
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11. Prerecvizit: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Postrecvizit: articles of city council.

13. Literature

Basic:

1. Communal hygiene / edited Mazaeva B.T. In 2 ч. - М., 2006 - Ч.1. -304с. ; Ч.2. - 336с.
2. Nemenko .A., Bekkazinova.B., Arynova .A., Elgondina.B. Guidance to practical employments on a communal hygiene: Textbook is ALmaty, 2008. - 430с.

additional:

1. Mazaeva B.T Communal hygiene. In 2 ч. Ч. 1 [Electron resource]: a textbook for institutions of higher learning is a 2th publ., испр. and. доп. it is an electron. Text . (35,7 MB). -М.: the Publishing group "ГЭОТАР are Medias", 2009-304 с.эл.опт. disk (CD ROM).
2. Mazaeva B.T Communal hygiene. In 2 ч. Ч. 2 [Electron resource]: textbook for institutions of higher learning. it is an electron. Text data (36,6 MB). - М.: the Publishing group "ГЭОТАР are Medias", 2009-336 с.эл.опт. disk (CD ROM).
3. Неменко Б.А. Communal hygiene. (Textbook). it is Алматы: WITH one's the face touching the ground "Gylym", 2003-464 p.
4. Communal hygiene/ edited - -: Health, 2006.- 792 p.
5. General hygiene /under . М., 2006.-736 p.

1. Department: "Hygiene and epidemiology"

2. Level of preparation (bakalavr/ housemanship / city council / резидентура

3. Specialty: 6в10105-“Public Health”

4. Course: 4

5. Name of элективной discipline : "Private epidemiology with bases of disinfection business"

6. Number credit - 5

7. Aim: forming for the students of theoretical knowledge and practical skills of exposure of reasons and terms of origin and

distributions of infectious diseases among a population, ground of organization and of realization prophylactic and the противэпидемических events sent to warning of infectious diseases among cert groups of population, decline of infectious morbidity of the combined population and liquidation of separate infections.

8Tasks: to teach to realization of control after the observance of дезинфекционно- of the sterilization mode in medical and preventive establishments;

-to give knowledge on theoretical, methodical and organizational bases of epidemiology supervision after infectious and паразитарны-mi by diseases;

-to teach to organize events on the sanitary guard of territory of the state from skidding and distribution of infectious diseases.

-to give knowledge on bases of disinfection and стерилиз

9. Justification of the choice of discipline: Private epidemiology with the basics of disinfection as the general medical science and the science of the epidemic process. Anti-epidemic measures. The principle of complexity in carrying out anti-epidemic measures, identifying the main directions. Preventive and anti-epidemic work at the medical site. The method of epidemiological foci. The purpose and objectives of the survey, the main stages.

10. Learning Outcomes (Competences)

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relations)
<ul style="list-style-type: none"> - owns the principles of organizing and conducting research in the field of epidemiology; - knows the basic principles of epidemiological surveillance for various groups of infectious and parasitic diseases, the geographical distribution of natural focal infections and methods of control; -knows the method of calculating the intensive and extensive indicators, assessing the indicators of epidemiological analysis, predicting the manifestations of the epidemic process of infectious and non-communicable diseases; -Knows the Code of the Republic of Kazakhstan "On the health of the people and the health care system"; -knows the method of calculation and evaluation of indicators of public health. 	<ul style="list-style-type: none"> – is able to transfer to students / teachers / examiners their own knowledge and skills in case of urgent, emergency anti-epidemic measures, in case of suspicion of quarantine infection; – able to search, scientific development and analysis of infectious morbidity of the population; – able to promote healthy lifestyle among the population; – able to implement methods of collecting, storing and processing information used in epidemiology; – is able to transfer to students their own knowledge and skills in working with information (educational, reference, scientific); – Own the skills of public speaking with the presentation of their own judgments, analysis and synthesis of information in the studied area. 	<ul style="list-style-type: none"> – able to conduct sanitary-epidemiological examination of controlled objects; – able to conduct research in the field of this discipline; – able to develop a set of measures for the prevention and reduction of infectious diseases, the prevention of importation and the spread of especially dangerous infections; – able to maintain accounting records using computer technology; – able to present and interpret legislation on the protection of public health, sanitary, environmental legislation of the Republic of Kazakhstan, the legal framework for the activities of specialists of the state sanitary and epidemiological service; – is able to present personal judgments, arrange in the form of an abstract, presentation, project and present at practical classes, student meetings, student scientific conferences, etc...

11. Prerequisites: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Post requisites: graduate subjects.

13. Literature

Primary:

main:

1. Amireev S.A. Standards and algorithms for activities with infectious diseases. Volume 1: A Practical Guide. –Evero, 2014.

2. Amireev S.A. Standards and algorithms for activities with infectious diseases. Volume 2: a practical guide. –Evero, 2014.

3. Infectious diseases and epidemiology: a textbook. - M.: GEOTAR - Media, 2013.- additional:

1. S. A. Amireev Immunization in practice [Text]: a practical guide / [and others]. - Almaty: [b. and.], 2013. - 448 p.

2. Alshinbaeva, G. U. Infectious diseases with the basics of epidemiology: a textbook. - Astana: ANkr, 2014. - 364 p.

3. Duysenbaeva, P. R. Current approaches to the study of epidemiology, clinic, diagnosis, treatment, prevention of measles, rubella, chicken pox and scarlet fever in children: a textbook. - Almaty: Evero, 2014. - 140 p.

4. Epidemiology. In 2 t. T. 1: textbook / N. I. Briko [et al.]. -; Rec. GBOU VPO "First MGMU them. IM Sechenov". - M.: Medical Information Agency LLC, 2013. - 832 p. : il.

5. Epidemiology. In 2 t. T. 2: textbook / N. I. Briko. -; Rec. GBOU VPO "First MGMU them. IM Sechenov". - M.: Medical Information Agency LLC, 2013. - 656 pp., Ill.

Electronic resources.

1. Infectious diseases and epidemiology [Electronic resource]: studies. for honey Universities / V.I.Pokrovsky [et al.]. - Electronic text data. (39.6 MB) - M., 2009. - 816 hrs. El. opt.disk (CD-ROM). - 1 copy

2. Schloss Leopoldskron Infectious Diseases and Epidemiology '98 [Electronic resource]: cornell Seminar in Saizburg / Leopoldskron Schloss. - Electron. text data. (623 MB). [S. l. : s.n.], 1998. - email. opt.disk (CD-ROM). - 1 copy Translation of the title: Infectious diseases and epidemiology.

1. Department: "Hygiene and epidemiology"

2. Level of preparation (bachelor / internship / magistracy / residency)

3.Speciality: 6B10105- Public Health

4. Course: 4

5. Name of elective discipline: Clinical epidemiology

6. The number of credits - 5

7. The purpose of the development and application of such methods of clinical observation, which enable students to do

fair conclusions, conduct retrospective and prospective studies.

8. Tasks: to give students knowledge about the basic terms of clinical epidemiology;

• teach students to distinguish between the main types of clinical research;

• teach basic skills in using a database of clinical epidemiology;

• teach how to critically evaluate medical information regarding clinical epidemiology;

• to give knowledge of the theoretical, methodological and organizational bases of clinical diagnosis for infectious and parasitic diseases;

• to give knowledge of the basics of disinfection and sterilization.

2. Justification of the choice of discipline: Clinical epidemiology is the selection and systematization of reliable results of various methods of diagnosis and treatment, the development and application of methods of clinical observation, which make it possible to draw fair conclusions, avoiding the influence of systematic and random errors. To exclude systematic errors take into account the features of patient selection.

10. Learning Results (Competences)

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relations)
<ul style="list-style-type: none"> – knows the methods of clinical research, the system of epidemiological diagnosis; – owns the principles of organizing and conducting research in the field of clinical epidemiology; – knows the method of calculating intensive and extensive indicators, assessing the clinical research indicators, predicting the manifestations of the epidemic process of infectious and non-communicable diseases; – knows the Code of the Republic of Kazakhstan "On the health of the people and the health care system"; – Knows the methodology for calculating and assessing population health indicators. 	<ul style="list-style-type: none"> – able to conduct clinical research facilities; – able to conduct research in the field of this discipline; – able to develop a set of measures for the prevention and reduction of infectious diseases, the prevention of importation and the spread of especially dangerous infections; – able to maintain accounting records using computer technology; – able to present and interpret legislation on the protection of public health, sanitary, environmental legislation of the Republic of Kazakhstan, the legal framework for the activities of specialists of the state sanitary and epidemiological service; – is able to present personal judgments, arrange in the form of an abstract, presentation, project and present at practical classes, student meetings, student scientific conferences, etc. 	<ul style="list-style-type: none"> – able to promote healthy lifestyle among the population; – able to implement methods of collecting, storing and processing information used in clinical epidemiology; – is able to transfer to students their own knowledge and skills in working with information (educational, reference, scientific); – Own the skills of public speaking with the presentation of their own judgments, analysis and synthesis of information in the studied area.

11. Prerequisites: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Post requisites: graduate subjects.

13. Literature

main:

1. Amireev S.A. Standards and algorithms for activities with infectious diseases. Volume 1: A Practical Guide. –Evero, 2014.

2. Amireev S.A. Standards and algorithms for activities with infectious diseases. Volume 2: a practical guide. –Evero, 2014.

3. Infectious diseases and epidemiology: a textbook. - M.: GEOTAR - Media, 2013.-

additional:

1. S. A. Amireev Immunization in practice [Text]: a practical guide / [and others]. - Almaty: [b. and.], 2013. - 448 p.

2. Alshinbaeva, G. U. Infectious diseases with the basics of epidemiology: a textbook. - Astana: ANkr, 2014. - 364 p.

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4. Epidemiology. In 2 t. T. 1: textbook / N. I. Briko [et al.]. -; Rec. GBOU VPO "First MG MU them. IM Sechenov". - M.: Medical Information Agency LLC, 2013. - 832 p. : il.
5. Epidemiology. In 2 t. T. 2: textbook / N. I. Briko. -; Rec. GBOU VPO "First MG MU them. IM Sechenov". - M.: Medical Information Agency LLC, 2013. - 656 pp., Ill.

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1. **Department:** "Hygiene and epidemiology"
2. **Level of preparation** (bachelor / internship / magistracy / residency)
3. **Specialty:** 6B10105-"Public Health"
4. **Course:** 4
5. **Name of elective discipline:** Ecological safety of society
6. **Number of credits - 5**
7. **Purpose:** to study the adverse effects of environmental factors on public health in certain areas. Exploring ways to eliminate or reduce adverse effects on human health.
8. **Tasks:**
 - to give knowledge about the indicators of the body systems as a criterion for assessing the environmental safety of society;
 - teach the assessment of the role of the main indicator in the complex effects of various environmental factors (radionuclides, mineral fertilizers, EMF, etc.);
 - the study of the environmental aspects of negative and positive environmental factors on human health;
 - assessment of the capacity of medical, safety of ecological landscapes;
 - formation of medical, environmental awareness among the population.
9. **The rationale for the choice of discipline:** The environmental safety of society is a scientific field that develops at the interface of medicine and ecology, studies the environment and the general patterns of disturbances in human health under the influence of a polluted environment. Currently, medical ecology is at the stage of rapid development. Concepts, terminological concepts, assessment criteria, methodology, and theoretical foundations of medical ecology have not yet been defined; there are also no qualified specialists in this field.

10. Learning Outcomes (Competences)

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relations)
- knows the goals and objectives of medical ecology; -knows the objects of study and the methods used medical ecology; - knows sections of medical ecology;	able to apply knowledge of the laws of the interaction of the organism and the environmental safety of society as one of the	- makes a conclusion on the result of its own research - knows the organizational and economic aspects of activities in

<p>-Knows environmental factors affecting the human body, their classification.</p> <ul style="list-style-type: none"> - knows voluntary risk factors; - knows the basis of terminology and the concept of medical ecology; <ul style="list-style-type: none"> - knows global and regional aspects of medical ecology; - knows the danger of environmental impacts and adverse effects on human health; <p>-Knows the value of practical medical ecology;</p> <ul style="list-style-type: none"> - knows the health features of the urban and rural population; <ul style="list-style-type: none"> - knows the effect of polluted air on health and living conditions of the population; <p>-knows the impact of the consequences of environmental pollution of the lithosphere on human health;</p> <ul style="list-style-type: none"> - knows about environmental pathology, the reasons for their occurrence: 	<p>methods for solving professional issues;</p> <ul style="list-style-type: none"> - able to assess the interaction of environmental factors among themselves and their impact on public health; - able to determine the degree of impact on the health of the population of environmental pollution: <ul style="list-style-type: none"> - atmospheric air - hydrospheres - lithosphere - able to identify the environmental safety of society, which may have an impact on public health; - able to assess the quality of the ecological safety of society and analyze the cause of the development of environmental diseases; - able to analyze the state of the ecological fund and the human gene pool and organize measures for their improvement; 	<p>the field of environmental safety of society;</p> <ul style="list-style-type: none"> -knows general environmental research methods; -predicts the quality of public health.
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11. Prerequisites: epidemiology, infectious diseases, radiation hygiene and medical ecology

12. Post requisites: graduate subjects.

13. Literature

main:

- 1.Ivanov V.P. General and Medical Ecology: a textbook. — Rostov n / D: Phoenix, 2010
2. Medical ecology: a manual for students of medical universities / ed. A.A. Korolev.- M.: EC "Academy", 2003.-192s.
3. Kenesaries Y.I. Ecology zheңne törfyндar densaulуғу: Оқу құралы - Almaty, Evero, 2009
4. Kenesaries Y.I. Ecology zhane halyқ densaulуғу: Оқу құралы - Almaty, Glym, 2003
- 5.Vasilenko O.I. Radiation ecology: a manual for students of medical universities, -M: Medicine, 2004
6. Kenesaries ев.I. Ecology and public health; Training For medical universities and colleges, Almaty: SIC Glym, 2002

Additional Community:

1. Lakshin A.M. general hygiene with basic human ecology; textbook-M., Medicine, 2004
- 2.Pivovarov Yu.P. Hygiene and fundamentals of human ecology: a textbook. –M: Academy Publishing Center, 2004

3. Pivovarov Yu.P. Hygiene and fundamentals of human ecology: a textbook. For medical universities. Rostov n / D: Fenix, 2002 Krymskaya I.G.
4. Hygiene and fundamentals of human ecology: study guide. - Rostov n / D: Phoenix, 2007
5. Vasilenko O.I. Radiation ecology: a manual for students of medical universities, -M: Medicine, 2004