


ОҢТҮСТІК-ҚАЗАҚСТАН MEDISINA АКАДЕМИАСЫ «Оңтүстік Қазақстан медицина академиясы» АҚ		SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Social Health Insurance and Public Health		044-58/16
Department" fundamentals of evidence-based medicine"		

METHODOLOGICAL GUIDELINES FOR INDEPENDENT WORK OF STUDENTS

Name of the discipline: "fundamentals of Evidence-Based Medicine"


Subject Code: DMN 4301

Title of the EP: "general medicine"

Amount of training hours/credits: 90 hours (3 credits)

Course and semester training: 4th year, VIII semester


Independent work of the student: 18 hours

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Methodological guidelines for independent work of students were developed in accordance with the work program "fundamentals of evidence-based medicine" and were discussed at the meeting of the Department.

Protocol № « ____ » _____ 2023

Head of the Department,
 candidate of Medical Sciences, acting associate professor:
 G. Zh. Sarsenbaeva

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1. Topic № 1: Evidence-Based Health Care. Types of questions compiled: diagnosis, treatment, etiology and forecasting.

2. purpose: to give an idea of evidence-based health care. Study the types of compiled questions.

3. tasks :

1. identification of priority areas for the development of the healthcare system;
2. development of standards and formation of programs for the provision of medical care;
3. the place of evidence-based medicine in solving public health and health problems.
4. the concept of diagnostics.
5. concept and types of treatment.
6. the concept of etiology.
7. the concept of forecast.

4. type of execution: abstract, report, presentation, intellectual card, drawing up test tasks.

5. performance criteria: see Appendix 1.2

6. delivery time: 1-2 days


7. literature: see Appendix 3

8. Control:

1. How do you understand evidence-based health care?
2. What does Evidence-Based Medicine study?
3. What is the role of Management in health care?
4. What is Diagnostics?
5. What is etiology?
6. What is a forecast?
7. what types of treatments do you know?
8. Do you think etiology and prognosis are related?

1. Topic №2: the quality of Clinical Information, its interpretation. The concept of problem drugs. The role of evidence-based medicine in the development of modern pharmacotherapy.

2. purpose: to study the criteria for a quality clinical study.

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The study of various approaches to randomization of sampling when conducting research. The concept of problem drugs. Knowledge of the role of DM in the development of modern pharmacotherapy.

3. tasks :

- 1.the system of authoritarian relations in medicine. Formation of medical "schools".
2. reliability and reliability factors of a controlled study. Randomization approaches.
3. Research power.
- 4.Basic Information bases on Evidence-Based Medicine.
- 5.Problem drugs.
6. Modern pharmacotherapy.
- 7.the role of DM in the development of Pharmacotherapy.
- 8.the relationship between pharmacotherapy and Evidence-Based Medicine.
- 9.history of Pharmacotherapy development.

4. type of execution: abstract, report, presentation, intellectual card, drawing up test tasks.

5. criteria for the implementation of SIS: see Appendix 1.2

6. Deadline: Day 2


7. literature: see Appendix 3

8. Control:

1. What types of research do you know?
2. What are the sources and types of information?
3. what is the meaning of the term" interpretation of information"?
4. What is the randomization process and what does it affect during the study?
5. what medications are problematic?
6. What role does DM play in the development of modern pharmacotherapy?
7. How is the development of pharmacotherapy in Kazakhstan?
8. What role does DM play in problem drug training?
9. What do you think is the relationship between DM and pharmacotherapy?

1.Topic № 3: Evidence-Based Medicine as a means of promoting medicines. Signs of incorrect advertising of medicines. Clinical and pharmacological approaches to the selection and appointment of medicinal products in practice from the point of view of evidence-based medicine.

2.purpose : to teach methods in evidence-based medicine to promote drugs. Know the signs of incorrect drug advertising. The study of clinical and pharmacological approaches to the selection and appointment of medicinal products in practice from the point of view of evidence-based medicine.

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3. tasks:

- 1.determination of evidence-based medicine.
- 2.the relationship of Evidence-Based Medicine and drug promotion.
- 3.the role of advertising for the promotion of DZ.
- 4.the concept of drug advertising.
- 5.signs of incorrect advertising.
- 6.positive aspects of advertising.
- 7.negative aspects of advertising.
- Levels of evidence of medicinal products.
8. drug interactions.
- 9.clinical and pharmacological recommendations in the treatment of various diseases.
- 10.the purpose of treatment depending on the type of disease.

4. type of execution: abstract, report, presentation, intellectual card, drawing up test tasks.

5. criteria for the implementation of SIS: see Appendix 1.2


6. deadline: 3 days

7. literature: see Appendix 3

8. Control:

1. What does Evidence-Based Medicine study?
2. What is the relationship between Evidence-Based Medicine and drug promotion?
3. What is the role of advertising in the promotion of DZ?
4. How do you understand drug advertising?
5. What are the signs of incorrect advertising?
6. what positive aspects of Advertising do you know?
7. What are the negative aspects of advertising?
8. What is the difference between clinical and pharmacological recommendations and clinical guidelines in the treatment of diseases?
9. What are the principles of drug selection and the procedure for their dosage?
10. How does the knowledge of the hierarchy of the level of evidence influence the choice of a drug?
11. where can I see the application in practice of clinical and pharmacological approaches to the selection and appointment of drugs? Give examples.

1. topic №4: reasoned prevention. The main types of screening programs, problems of implementation and analysis of the results. Evidence-based medicine and marketing.

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2. purpose: reasoned prevention. Familiarization with screening programs.

3. tasks :

- 1.the concept of evidence-based prevention.
2. types of screening programs.
- 3.problems of implementing the results of screening programs.
- 4.the use of screening programs.
5. screening programs and evidence-based prevention.
6. the concept of marketing in healthcare.
- 7.communication of Evidence-Based Medicine and marketing.

4. type of execution: abstract, report, presentation, intellectual card, drawing up test tasks.

5. criteria for the implementation of SIS: see Appendix 1.2

6. deadline: 4-day

7. literature: see Appendix 3

8. Control:

1. How do you understand evidence prevention?
2. What types of screening programs do you know?
3. What are the problems with the implementation of the results of screening programs?
4. What is the use of screening programs?
5. What is the relationship between screening programs and evidence-based prevention?
6. name what marketing factors influence Evidence-Based Medicine?
7. are the concepts of marketing and Evidence-Based Medicine compatible?
8. are there any shortcomings in the results of applying the principles of Evidence-Based Medicine?

1. topic № 5: conducting clinical trials .Ethical aspects. Ethics committees.

2. objective: to study the ethical aspects of conducting clinical trials by iproetic committees

3. Task: ethical aspects of conducting clinical trials. Ethics committees. Information Agreement.

4. type of execution: abstract, report, presentation, intellectual card, drawing up test tasks.


5. criteria for the implementation of SIS: see Appendix 1.2

6. deadline: 5 days

7. literature: see Appendix 3

8. Control:

1. name what marketing factors influence Evidence-Based Medicine?

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2. are the concepts of marketing and Evidence-Based Medicine compatible?
3. are there any shortcomings in the results of applying the principles of Evidence-Based Medicine?

1. topic: 6.prospects for the use of evidence-based medicine by doctors.

2. purpose: to identify the prospects for the use of evidence-based medicine by doctors.

3. tasks :

1. representation of an established health protection system in terms of defects
2. list the main health problems of citizens of the Republic of Kazakhstan
- 3.list the main problems of the health system.
- 4.describe the International positive experience of health reform in some groups of countries.

4. type of execution: abstract, report, presentation, intellectual card, drawing up test tasks.

5. criteria for the implementation of SIS: see Appendix 1.2

6. deadline: 6-day

7. literature: see Appendix 3

8. Control:

1. What stages of reorganization of the health management system do you know?
2. why improve PHC levels?
3. Why is it necessary to strengthen the material and technical base of healthcare?

1.topic №7:the concept of the Society of evidence-based medicine specialists. Centers of evidence-based medicine in our country and the CIS.

2. purpose: to analyze the concept of specialist societies.

3. tasks:


- 1.determination of evidence-based medicine.
2. development of DM in Kazakhstan.
- 3.the concept of a society of DM specialists.
- 4.DM centers in our country.
5. DM centers in the CIS.

4. type of execution: abstract, report, presentation, intellectual card, drawing up test tasks.

5. criteria for the implementation of SIS: see Appendix 1.2

6. deadline: 7 days

7. literature: see Appendix 3

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8. Control:

1. What DM centers do you know in our country?
2. What DM centers in the CIS do you know?
3. What kind of specialists are included in the Society of DM specialists?
4. What is the definition of DM?
5. How did DM develop in Kazakhstan?

1.topic № 8: Scientific Foundations of quality planning and control in healthcare.

2. purpose: to teach the scientific foundations of management functions: planning and quality control in healthcare.

3. tasks :

- list the main management functions;
- name the planning stages.
- holistic forecasting, modeling, programming;
- name the types of planning
- control functions;
- name the types of control;
- name the control stages.

4. type of execution: abstract, report, presentation, intellectual card, drawing up test tasks.

5. criteria for the implementation of SIS: see Appendix 1.2

6. deadline: 8-day

7. literature: see Appendix 3

8. Control:

1. How do you understand the arguments to ensure decision-making in public health?
2. What is the role of the organizer in health care?
3. What are the prospects for health organizers to use evidence-based medicine?
4. What is evidence-based health care?
5. the use of DM approaches by Kokavo health organizations?

Appendix № 1

Criteria for execution: abstract

Sample drawing: the volume of the abstract is 5-8 sheets. The abstract consists of an introduction, the names of all sections. Conclusion and recommendation, list of used literature. In the introduction, on 1-2 pages, the purpose, significance of the brief topic is indicated. When making a review of the topic of the abstract, the student critically evaluates the opinions of various authors. The conclusion consists of 2-5 points. Requirements: competent, compliance with logical periodicity in writing the material. Format A4, font Times New Roman, font size 14, square up, right, 2 cm from the bottom, 3 cm from the left;

Criteria for evaluating the abstract: the purpose and objectives should be justified, clearly, clearly, and clearly used literature should be indicated. Quality of design, protection of the abstract (brevity, clarity, clarity, logic, level of mastery of the problem and professional vocabulary, completeness of answers and questions, etc.)

Criteria for execution: drawing up test tasks

When performing test questions, the following rules are observed: the test must consist of 20 questions. Each question must consist of 5 answers. Of these, the correct answer should be only one. Questions should be informative, based on the topic. Answer options should be marked with capital letters of the Latin alphabet (A,B,C.....). The correct answers must be displayed at the end.

Performance criteria: creating an intelligence map

Intelligence card and booklet-performed independently. It is necessary to perform at a certain time and apply at least 5 literature. You can provide drawings, tables, and drawings that match the theme. During the defense, it is necessary to convey the material without reading it.

Appendix № 2

Preparation and protection of the abstract.

Type of control	Evaluation	Evaluation criteria
Preparation and protection of the abstract	Very good According to the price : A (95-100%); A - (90-94%)	The abstract is carefully drawn up, submitted before the deadline. 3 of the literature must have at least 10 pages in the upper hand. in accordance with the title of the abstract, figures are shown tables. "I don't know," he said. You answered the questions.
	Well Corresponds to the	The abstract is carefully drawn up, submitted before the deadline. 2 literature must have at least 8 pages in

	estimates: B+ (85-89%); In (80-84%); B- (75-79%). C+ (70-74%);	the upper hand. In accordance with the topic of the abstract, the figures are shown in tables. In defense of the abstract does not read, told himself. The answers to the questions were incomplete.
	Satisfactory Corresponds to the estimates: C (65-69%); C- (60-64%); D+ (55-59%); D(50-54%).	The abstract is carefully drawn up, submitted before the deadline. 2 in the hand above the text should not be less than 6 sheets. In accordance with the topic of the abstract, the figures are shown in tables. During the defense of the abstract read the answers to the questions given were incomplete.
	Unsatisfactory Corresponds to the assessment of FX (25-49%) F (0-49%).	The abstract is not elaborated, given Mer- he didn't give up. Figures according to the title of the abstract are not shown in tables. During the defense of the abstract read the answer to the questions Given made rude errors.

Presentation of the topic

Type of control	Evaluation	Evaluation criteria
Theme presentation.	Very good According to the price : A (95-100%); A - (90-94%)	At least 20 slides have been prepared using 5 pieces of literature. Slides are of high quality content. During the defense showed deep knowledge. He answered the questions in detail. The presentation is submitted before the deadline.
	Well Corresponds to the estimates: B+ (85-89%); In (80-84%); B- (75-79%). C+ (70-74%);	At least 18 slides were prepared using 4 pieces of literature. Slides are of high quality content. During the defense showed deep knowledge. He answered questions in detail, and in some answers he made flaws. The presentation is submitted before the deadline.
	Satisfactory Corresponds to the estimates: C (65-69%); C- (60-64%); D+ (55-59%); D(50-54%).	At least 15 slides have been prepared using 3 pieces of literature. The slides are not of good quality. In defense did not show deep knowledge. He did not fully answer the questions, in some answers he made omissions. The presentation was not submitted before the deadline.
	Unsatisfactory Corresponds to the	3 slides with the use of less than 10 pieces of literature were prepared. The slides are not of good

	assessment of FX (25-49%) F (0-49%).	quality. During the defense, not knowing the subject did not fully answer the questions, in some answers he made omissions. The presentation was not submitted before the deadline
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Preparation and protection of the intelligent map

Бақылау түрі	Evaluation	Evaluation criteria
Intelligent map	Very good According to the price: A (95-100%); A - (90-94%)	Intelligence card and booklet –independently executed, at the appointed time, at least 5 literature used. Drawings, tables and drawings corresponding to the topic are presented. During the defense, he told the material without reading it. He answered all the questions asked confidently and without errors.
	Well Corresponds to the estimates: B+ (85-89%); In (80-84%); B- (75-79%). C+ (70-74%);	Intelligence card and booklet –independently executed, at the appointed time, at least 5 literature used. Drawings, tables and drawings corresponding to the topic are presented. During the defense, he told the material without reading it. When answering all the questions asked, he made serious mistakes.
	Satisfactory Corresponds to the estimates: C (65-69%); C- (60-64%); D+ (55-59%); D(50-54%).	Intelligence card and booklet –independently executed, at the appointed time, at least 5 literature used. Drawings, tables and drawings corresponding to the topic are presented. During the defense, he read the topic. He made serious mistakes when answering the questions asked .
	Unsatisfactory Corresponds to the assessment of FX (25-49%) F (0-49%).	Intelligence card and booklet –independently executed, at the appointed time, at least 5 literature used. Drawings, tables and drawings corresponding to the topic are presented. During the defense, he read the topic. He made serious mistakes in the questions asked, could not reason with his tools.

Compilation of test questions

Бақылау түрі	Evaluation	Evaluation criteria
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Compilation of test questions	Very good According to the price: A (95-100%); A - (90-94%)	Test questions should not be less than 20 questions. In his own time. The test questions are informative. The test questions are carefully designed. The correct answers are indicated.
	Well Corresponds to the estimates: B+ (85-89%); In (80-84%); B- (75-79%). C+ (70-74%);	Test questions should not be less than 18 questions. In his own time. The test questions are informative. The test questions are carefully designed. The questions are not of the same type. The correct answers are indicated
	Satisfactory Corresponds to the estimates: C (65-69%); C- (60-64%); D+ (55-59%); D(50-54%).	Test questions should not be less than 15 questions. In his own time. Test questions are not informative. The test questions are not exhaustive. All the correct answers are not specified.
	Unsatisfactory Corresponds to the assessment of FX (25-49%) F (0-49%).	Test questions are less than 10 Questions. He didn't do it in his own time. Test questions are not informative. The test questions were not carefully formulated. The correct answers are not specified.

Appendix № 3

Literature:

Main:

1. Derbisalina G. A. questions and answers Of Evidence-Based Medicine.-AK-Nur,2014
2. Greenhalch, T. fundamentals of Evidence-Based Medicine : textbook: translation from English / responsible Ed. G. S. Kemelova; translated into Kazakh.T. K. Sagadatova.- M.: GEOTAR-media, 2014. - 336 pages

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3. general epidemiology with the basics of evidence-based medicine: manual / Ed. the head.V. I. Pokrovsky. The goose. language. AUD.N. Zhaikbayev.- M.: GEOTAR-media, 2015. - - 448 kbit / s.


Additional:


1. Derbisalina G. A. fundamentals of Evidence-Based Medicine : methodological guidelines. - 2-head., complete.- Karaganda: IP "AK Nur", 2013

Electrode database:

1. Greenhalch, T. fundamentals of Evidence-Based Medicine [electronic resource] : textbook / Kazakh language. AUD.T. K. Sagadatova. - Electron. text from. (40.4 MB). - M.: GEOTAR-Media, 2017. - El. opt.

№	Name	Link
1	Electronic Library	http://lib.ukma.kz
2	Electronic catalog - For internal users - For external users	http://10.10.202.52 http://89.218.155.74
3	Republican Interuniversity Electronic Library	http://rmebrk.kz/
4	Electronic Library of Medical University" student advisor "	http://www.studmedlib.ru
5	" paragraph "information system"Medicine" Section	https://online.zakon.kz/Medicine
6	Electronic source of Legal Information" Law "	https://zan.kz
7	Scientific Electronic Library	https://elibrary/ru/
8	Electronic library"BooksMed"	http://www.booksmed.com
9	«Web of science» (Thomson Reuters)	http://apps.webofknowledge.com
1	«Science Direct» (Elsevier)	https://www.sciencedirect.com
1	«Scopus» (Elsevier)	www.scopus.com
1	PubMed	https://www.ncbi.nlm.nih.gov/pubmed

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