Azerbaijan Medical University

"CONFIRM"

Head of the department prof., Chobanov R.A.

TRAINING PROGRAM   **signature_____**

(SYLLABUS)   **15.11.2021**

By subject   "Public health and medical statistics"

SPECIALTY   **PUBLIC HEALTH**

ITEM CODE: İPF – B41

ITEM TYPE: MANDATORY

SEMESTER OF LEARNING: P - 5

ITEM CREDIT: 2

SUBJECT LEARNING FORM: FULL-TIME

SUBJECT LEARNING LANGUAGE: AZERBAIJANI, RUSSIAN, ENGLISH

FACULTY   **PHARMACEUTICAL**

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PREREQUISITES:

Subjects that must be studied in advance to study this subject: microbiology, infectious diseases, epidemiology, hygiene.

COREQUISITES:

There is no need to study other subjects at the same time.

DESCRIPTION OF THE COURSE:

Public health and medical statistics, in interaction with other theoretical and practical medical disciplines (pharmacology, anatomy, hygiene and ecology, physiology, therapy, pediatrics, surgery and other sciences) studies the factors affecting public health and related issues in the organization of health statistics.

PURPOSE OF THE COURSE:

To acquaint students with the health of the population, its social nature, morbidity, disability, demographic processes, statistics of these processes, with the basics of medical statistics as a science, existing theoretical systems in medicine and health, health risk factors, sanology, valeology, important social and hygienic problems - their separate description, health concept, structural elements, health management and treatment-and-prophylactic enterprises.

COURSE RESULTS:

With the mastery of the subject, students should be able to understand public health, its social nature, medico-demographic processes, important social and hygienic problems, health management, marketing, management activities, structural units of health authorities, structure, procedure for drawing up annual reports, health planning, forecasting methods, financing, in order of budgeting - health economics, economic efficiency, in the maintenance of medical statistics, etc.

LIST OF PRACTICAL EXERCISES ON THE SUBJECT

N	Topic names	Hours
1	Statistics as a socio-political science. Medical statistics and its application in medical research. Research skills of students. Statistical research and its stages. Organization of statistical research.	2
2	Absolute and relative values used in medicine and health care. Dynamical series and indicators. Graphic images.	2
3	Variational statistics. Average values, their types. Mode, median.	2
4	Average error of the mean, confidence index.	2
5	Medical demographics and demographics indicators. The concept of average life expectancy.	2
6	Morbidity of the population, types and methods of its study. Indicators of morbidity with general, temporary disability. Disability, medical indicators of rehabilitation and their calculation method.	2
7	The essence of standardization and its methods. Rules for the application of the direct method of standardization in medicine and health care	2
8	Connection and relationships between events, their measurements. The essence and forms of relationships. Compliance ratio and methods of its calculation.	2
9	Correlation concept. Spearman's rank correlation coefficient	2

	Linear correlation coefficient, its error and reliability definitions Regression coefficient, linear correlation equation and sigma regression	
10	Nonparametric statistics. Iterative coefficient and methods for its calculation. Forecasting methods and rules for its application	2
	Total	20

LIST OF LECTURE TOPICS ON THE SUBJECT

N	Topic name	Hours
1	Public health science and health care organization, research methods, current problems and development history. State and international documents on health issues ("Constitution of the Republic of Azerbaijan", the Law "On Sanitary and Epidemiological Welfare", the Law of the Republic of Azerbaijan "On Public Health Protection", the establishment of the WHO and its charter, the Program of World Congresses held in this direction, etc.)	2
2	Methods and criteria for studying the health of the population and a complex of factors affecting it, risk factors. The current environmental situation, state policy in this direction and monitoring problems.	2
3	Medical demography, its importance in medicine and the health care system. Natural movement of the population, methods of its study, recording rules.	2
4	The incidence of the population, methods of its study. Types of pathologies of the population	2
5	Social and hygienic problems (cardiovascular, oncological, neuropsychiatric diseases, injuries, alcoholism, infectious diseases)	2
	Total	10

Samples of tests for all sections of the subject are prepared and placed in electronic form in a virtual database on the official website of the university.

ASSESSMENT:

The knowledge of students enrolled in the European Credit Transfer System is assessed on a multi-point scale. A student can receive a maximum of 100 points in a subject. 50 of these points are awarded based on the student's progress during the semester and 50 based on the results of the final exam.

The 50 points awarded for the student's activity during the semester are determined taking into account the following:

- For attendance of classes-10 points
- For independent work -10 points

- Based on the results of daily surveys (theoretical knowledge and skills) - 30 points.

Starting from the 2018/19 academic year, points are awarded for student attendance in a subject in accordance with the following table:

Credits	Hours	10 points	9 points to 10%	8 points to 20%	Not admitted to the exam
2	30 hours	0 hours	1-3 hours	4-6 hours	7 or more hours
3	45 hours	0 hours	1-5 hours	6-9 hours	10 or more hours
4	60 hours	0 hours	1-6 hours	7-12 hours	13 or more hours
5	75 hours	0 hours	1-8 hours	9-15 hours	16 or more hours
6	90 hours	0 hours	1-9 hours	10-18 hours	19 or more hours
7	105 hours	0 hours	1-11 hours	12-21 hours	22 or more hours
8	120 hours	0 hours	1-12 hours	13-24 hours	25 or more hours
9	135 часов	0 hours	1-14 hours	15-27 hours	28 or more hours
10	150 hours	0 hours	1-15 hours	16-30 hours	31 or more hours

From the 2018/19 academic year, a student who does not attend more than 40% of lectures (regardless of attending practical classes or seminars) will not be allowed to take the exam in this subject. This percentage of lectures is calculated from the following table:

Number of lectures	Total lectures hours	Not admitted to the exam (missed lecture hours)
2	4 hours	2 or more hours
3	6 hours	3 or more hours
4	8 hours	4 or more hours
5	10 hours	5 or more hours
6	12 hours	5 or more hours
7	14 hours	6 or more hours
8	16 hours	7 or more hours
9	18 hours	8 or more hours
10	20 hours	9 or more hours
15	30 hours	13 or more hours

CURRENT ASSESSMENT OF THEORETICAL KNOWLEDGE OF STUDENTS

During the semester, the student's theoretical knowledge is assessed on a 10-point scale (maximum 10 points) based on the student's questioning at least three times in practical classes. For example, if a student scored 6, 7, and 8 in the daily surveys, the average score was 7. Multiplying this number by three gives the student a final score of 21 in classroom surveys throughout the semester. The results of the daily interviews should be recorded in the teacher's journal without correction. In this case, in the teacher's journal and in the group journal on the corresponding pages for individual subjects, students who do not attend the lesson every school day are given "q", those who answer the questions are given a "ball", and those who attend, but does not receive a grade. "I/e" (participated). Thus, there should not be an empty cell in front of students' names. On their basis, at the end should be indicated the final number of points scored by the student during the semester in the subject.

The final grade of the student for the semester should objectively reflect the student's knowledge:

50 points - before the exam, including:

10 points - attendance,

10 points - independent work,

30 points - assessment of theoretical knowledge in practical training.

CALCULATION OF POINTS FOR INDEPENDENT WORK

Students must complete 10 independent papers during the semester. With a low workload, you can take 5 tasks (2 points). Each independent work is evaluated with one point, therefore the maximum number of points for independent work is 10. The list of independent work is compiled by the department in accordance with the subject program and is issued to each student in the first week of the semester. Each independent work is prepared by the student in writing, 1-2 pages long. A student preparing an independent work writes a work after studying (mastering) and free interpretation of the topic. Copying when writing a work is not allowed, regardless of the source! Independent work, depending on the student's desire, can be in the form of manuscripts, as well as computer texts or slide presentations.

Bibliography

1. Azərbaycan Respublikasının Konstitusiyası – Bakı, 1995
2. Cabbarov M.S. "Tibbi sanitar xidmətlə təminatın təşkilatı metodik aspektləri" - Bakı, 1993, 59 s.
3. Cabbarov M.S. "Sosial gigiyena və səhiyyənin təşkili" – Bakı, 2001, 62 s.
4. Cabbarov M.S. "Tibbi statistika kursu" – Bakı, 2000, 119 s.
5. Çobanov R.Ə, Cəlilova C.A. "İnsan helmintozları" – Bakı, 1997, 157 s.
6. Çobanov R.Ə. "İnsan protozoozları" – Bakı, 2006, 279 s.
7. Çobanov R.Ə, Xudaverdiyeva H.M, Ələkbərov M.M. və başqaları "Sosial gigiyena və səhiyyənin təşkili" – Bakı, 2007, 408 s.
8. Əhalinin sağlamlığının qorunması haqqında Azərbaycan Respublikasının Qanunu – Bakı, 1997.
9. Ələkbərov M.M. "Azərbaycan Respublikasında sanitar-epidemioloji xidmətin təşkili və idarəolunması" – Bakı, 2003, 191 s.
10. Əliyev A.F. "Tibbi statistikanın nəzəri və metodoloji əsasları" – Bakı, 2003, 143 s.
11. Fel İ.İ, Əhmədov Ə.Ə. "Tibbi statistikadan dərs vəsaiti" – Bakı, 1973, 114 s.
12. Fel İ.İ, Əliyev A.Ə, Truman G.L. "Səhiyyədə iqtisadiyyat, planlaşdırma, idarəetmə, maliyyələşdirmə və əməyin elmi təşkili" – Bakı, 1978, 59 s.
13. İnsanov Ə.B. "Azərbaycan səhiyyəsinin tarixi" – Bakı, 2003, 451 s.
14. Sanitariya-epidemioloji salamatlıq haqqında Azərbaycan Respubllikasının qanunu – Bakı, 1992, N 371.
15. Donaldson R, Donaldson L "Essential Public Health Medicine" – Dordrecht, 2003, 448 p.
16. Ellencweig A. "Analyzing Health Systems" – Oxford, 2002, 823 p.
17. Gray A, Payne P. "World health and disease" – New York, 1993, 212 p.
18. Green L. "Community Health" – St. Lou s, 2004, 473 p.
19. Gold bloom R. "Preventing Disease" – New York, 2002, 633 p.
20. Jacobs P. "The Economics of Health and Medical Care" – Gaithersburg, 2001, 643 p.
21. Last V. "Public health and human ecology" – Stamford, 1998, 454 p.
22. McNeill W. "Plagues and Peoples" – New York, 1976, 542 p.
23. Miller C, Adams-Taylor S. "Monitoring Children's Health" – Washington, 1999, 723 p.
24. Rase G. "The- Strategy of Preventive Medicine" – Oxford, 1993, 462 p.
25. Rothman K. "Modern epidemiology" – Little, 1996, 632 p.
26. Rosen G. "History of Public Health" – Baltimore, 1993, 617 p.
27. Shah C. "Public Health and Preventive Medicine" – Toronto, 2004, 506 p.
28. Sloan M, Chmel M. "The Quality Revolution and Helth Care" – Wisconsin, 2001, 737 p.
29. Wear A. "Medicine in Society: Historical ssays" – Cambridge, 1992, 723 p.
30. Willeth W. "Nutcitional Epidemiology" – New York, 1990, 542 p.

31. Алиев А.Ф. «Преждевременная смерть как социальная проблема» - Баку, 2001, 164 с.
32. Бедный М.С. «Демографические факторы здоровья» - М, 1984, 246 с.
33. Беляков В.Д, Яфаев Р.Х. «Эпидемиология» - М, 1989, 416 с.
34. Джаббаров М.С. «Научные основы прогнозирования ресурсного обеспечения здравоохранения сельских районов» - Баку, 1999, 220 с.
35. Лякин Г.Ф. «Биометрия» - М, 1973, 343 с.
36. Лисицын Ю.П. «Здоровье человека –социальная ценность» - М, 1988, 261 с.
37. Лисицын Ю.П. «Теории медицины ХХ века» - М, 1999, 176 с.
38. Лисицын Ю.П. «Общественное здоровье и здравоохранение» - Ст. Петербург, 2002, 517 с.
39. Мак-Лэклен Т. «Планирование служб здравоохранения» - Копенгаген, 1982, 315 с.
40. Маскон М, Альберт М, Хедоури Ф. «Основы менеджмента» - М, 1997, 463 с.
41. Миняева В.А, Вишнякова. «Общественное здоровье и здравоохранение» - М, 2002, 422 с.
42. Лисицын Ю.П. Г.Э.Улумбекова. «Общественное здоровье и здравоохранение» - М, 2011, 540 с.
43. Лазаренко Г.И, Полубенцева Е.И. «Управление качеством медицинской помощи» - М, 2000, 368 с.
44. Новиков Г.В, Дударов А.Я. «Санитарная охрана окружающей среды современного города» - М, 1998, 216 с.
45. Сепетлиев Д. «Статистические методы медицинских исследованиях» - М, 1968, 419 с.
46. Серенко А.Ф, Ермаков В.В. «Социальная гигиена и организация здравоохранения» - М, 1984, 671 с.
47. Сорокина Т.С. «История Медицины» - М, 1984, 384 с.
48. Стентон Гланц. «Медико-биологическая статистика» - М, 1999, 459 с.
49. Тульчинский Т.Х, Варавикова Е.А. «Новое общественное здравоохранение» - Иерусалим, 1999, 1028 с.
50. Шляков Э.Н. «Практическая эпидемиология» - Кишинев, 1991, 567 с.
51. Юрьев В.К, Кущенко Г.Н. «Общественное здоровье и здравоохранение» - Ст. Петербург, 2000, 911 с.

COURSEWORK

Coursework on this topic is not provided.

AN EXPERIENCE:

No production experience on this topic

Prepared:

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