

MINISTRY OF PUBLIC HEALTH OF UKRAINE
KHARKIV NATIONAL MEDICAL UNIVERSITY
Department of Public Health and Healthcare Management
2021-2022 academic year

SYLLABUS OF THE ACADEMIC COMPONENT
«History of Medicine»

Normative of elective academic component Elective

Form of education Full-time
(full-time, correspondence, distance)

Field of science «Health»
(code and name of the field)

Specialty «Medicine»
(code and name of specialty)

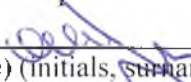
Educational-professional programme (educational-scientific programme)

Second (Master) level of high education

Course First

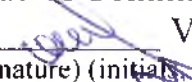
The syllabus of the discipline was considered at the meeting of the Department of Public Health and Health Management

Protocol from
“27” August 2021 № 13
Head of Department


V.A. Ohniev
(signature) (initials, surname)

Approved by the methodical commission of KhNMU on public health problems

Protocol from
“1” September 2021 № 2
Head of Commission


V.A. Ohniev
(signature) (initials, surname)

SYLLABUS DEVELOPERS:

1. Ohniev V.A., Head of Public Health and Healthcare Department, Professor, Doctor of Medical Sciences
2. Martynenko N.M., Associate Professor of Public Health and Healthcare Department, PhD in History

Teacher's surname, name and patronymic	Ohniev Victor Andriyovych , Head of Public Health and Healthcare Department, Professor, Doctor of Medical Sciences
Professional interests, teacher's profile (at the university (department's) site, in the MOODLE system, etc.	Public Health, Basics of Public Health, Evidence-based Medicine with the Basics of Epidemiology, Biostatistics, Organization of Medical and Social Research, Communication in the Field of Health Care University Site: http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=232%3A2011-05-19-08-08-34&catid=7%3A2011-05-09-08&Itemid=27&lang=uk ACY: http://31.128.79.157:8080//profile MOODLE: http://distance.knmu.edu.ua/course/view.php?id=4918 ORCID: https://orcid.org/0000-0001-7319-1424 Scopus: https://www.scopus.com/authid/detail.uri?authorId=57208735130
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Schedule	According to the schedule of educational department
Consultations	Wednesday 15.30-17.00
Location	Room at Public Health and Healthcare Department (build. A, third floor, room 9)
Teacher's surname, name and patronymic	Martynenko Nataliya Mykolaivna , Associate Professor of Public Health and Healthcare Department, PhD in History
Professional interests, teacher's profile (at the university (department's) site, in the MOODLE system, etc.	History and Philosophy of Medicine ACY: http://31.128.79.157:8080//profile MOODLE: http://distance.knmu.edu.ua/user/profile.php?id=45 ORCID: http://orcid.org/0000-0003-3018-2514 Google Scholar: http://scholar.google.ru//citations
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Schedule	According to the schedule of educational department
Consultations	Thursday 15.30-17.00
Location	Room at Public Health and Healthcare Department (build. A, third floor, room 5)

INTRODUCTION

Syllabus of the discipline “History of Medicine” is compiled in accordance with the educational-professional programme (hereinafter – EPP) 222 “Medicine” and the Standard of Higher Education of Ukraine (hereinafter – the Standard), the second (Master) level, knowledge 22 “Health”, specialty “Medicine”.

Course description (abstract). An elective course “History of Medicine” is a guiding and connecting link in the study of the development of all branches of medicine. Studying this discipline, students form a comprehensive approach to the history of medicine as a holistic cultural process.

The subject of study of the discipline is general history of medicine, the study of patterns of development of medical knowledge and medical activities in different historical epochs.

Interdisciplinary links: materials on the history of medicine are correlated with materials on the history of science, ethics, religion, philosophy, social psychology.

Prerequisites. It is based on the study of educational disciplines by students: history of Ukraine and Ukrainian culture, philosophy, ethics, and deontology.

Post-requisites. The knowledge, skills and abilities acquired after completing the study of this discipline are required for the study of fundamental and clinical disciplines.

Link to the discipline page in MOODLE

GOALS AND TASKS OF THE COURSE

1.1. The purpose of study this discipline is to obtain information about the origin, formation and development of medicine in different historical periods, as well as the formation of students’ holistic view on the origin and development of medicine in a certain socio-economic formation; providing basic medical training and acquiring practical skills of collection the information for further professional activity of doctors.

1.2. The main objectives of the discipline are to determine the periods of accumulation of knowledge and practices of medical care in different historical periods, the study of views on health, causes of diseases, means of prevention, treatment depending on worldview and living conditions in relevant historical periods; definition and substantiation of means of treatment depending on a condition of sciences and scientific and technical progress; contribution to the world treasury of medicine of outstanding scientists, doctors; acquaintance with the main sources on the history of medicine; knowledge of the specifics and features of the development of medicine in Ukraine in different historical periods, as well as the formation of the foundations of professional culture, education of pride and a sense of necessity of the chosen specialty.

1.3. Competences and learning outcomes, the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education, formulated in terms of learning outcomes in the Standard).

1.3.1. According to the requirements of the standard, the discipline provides

students with the **acquisition of competencies**:

– *integral*:

Ability to solve complex problems and problems in the field of health care and specialty "Medicine" in professional activities or in the learning process, which involves research and / or innovation and is characterized by uncertainty of conditions and requirements.

– *general*:

Ability to abstract thinking, analysis and synthesis; ability to learn and acquire modern knowledge; knowledge and understanding of the subject area and understanding of the profession; ability to apply knowledge in practical situations; have skills in the use of information and communication technologies; ability to search, process and analyze information from various sources; ability to identify, pose and solve problems; demonstrate the ability to act socially conscious.

– *special* (professional, subject):

Detailing of competencies according to descriptors in the form «Matrix of Competences»:

№	Competence	Knowledge	Skills	Communication	Autonomy and responsibility
1.	Ability to abstract thinking, analysis and synthesis; ability to learn and be modernly trained	+	+		+
2.	Knowledge and understanding of the subject area and understanding of the profession	+	+	+	+
3.	Ability to apply knowledge in practical situations	+	+		+
4.	Skills in the use of information and communication technologies; ability to search, process and analyze information from various sources	+	+		+
5.	Ability to	+	+	+	+

	identify, pose and solve problems				
6.	The ability to act socially conscious	+	+	+	+

1.3.2. The study of the discipline ensures the acquisition by students of the following **programme learning outcomes (PLO)**:

PLO 1 To form goals and determine the structure of personal activities based on the analysis of certain social and personal needs.

PLO 2 To be aware of and guided in own activity by civil rights, freedoms and responsibilities, to raise the general cultural level.

PLO 3 To know about the factors influenced the history and development of medicine, the achievements of medicine at different stages of world history; contribution to national and world medicine of outstanding figures of world and Ukrainian medical science.

PLO 4 Identify problems in the development of health care and medical services in Ukraine.

1.3.3. The study of the discipline provides students with the following social skills (Soft skills):

- apply their knowledge in solving professional problems;
- to promote the spiritual revival of Ukrainian medicine;
- to be guided in modern problems of public health services and to promote their decision.

1. INFORMATION ABOUT ACADEMIC DISCIPLINE

Indicator names	Field of knowledge, direction of training, educational and qualification level	Characteristic of the academic discipline	
		Full-time form	Correspondence
Quantity of credits: 3	Direction of training: 22 «Health care» (code and name)	Elective course	
Total quantity of hours: 90	Specialty: 222 «Medicine» (code and name)	Grade:	
		1-st	
		Semester	
		1-st	
Hours for full-time (or correspondence) forms of education: Classroom work – 20 Extracurricular work – 70	Educational and qualification level: Master APP Medicine	Lectures	
		10 hours	
		Seminars	
		10 hours	
		Extracurricular work	
		70 hours	
		Individual tasks: – hours	
Kind of control: test			

1.1. Curriculum

2.2.1 Lectures

№ №	Title of topic	Quantity of hours	Kind of lectures
1	History of Medicine as a science and a subject of teaching. Medicine of primitive society. Medicine of Ancient World.	2	Lecture- presentation
2	Medicine in the Middle Ages and Renaissance	2	Lecture- presentation
3	Medicine in the Modern Era	2	Lecture- presentation
4	Contribution of Ukrainian scientists to the development of medicine	2	Lecture- presentation
5	History of Kharkiv National Medical University and its place in medical education and science	2	Lecture- presentation
	Quantity of lecture hours	10	

2.2.2 Seminars

№ №	Title of topic	Quantity of hours	Methods of training	Forms of control
1	Origin of medicine and its development in primitive society. Medicine of Antique world	2	story-explanation, presentation, project method	essays, written survey
2	Medicine in the Middle Ages and the Renaissance	2	story-explanation, presentation, project method	essays, written survey
3	Medicine in the Modern Era (mid. 17 th – early 20 th centuries)	2	story-explanation, presentation, project method	essays, written survey
4	Ukrainian medical scientists	2	story-explanation, presentation, project method	essays, written survey
5	History of Kharkiv National Medical University since 1805 up to nowadays	2	story-explanation, presentation, project method	essays, written survey
	Quantity of lecture hours	10		

2.2.5 Extracurricular work

№ №	Title of topic	Quantity of hours	Methods of training	Forms of control
1	Medicine of primitive society and the Ancient world	7	search method	annotation
2	Development of medicine in the Middle Ages and Renaissance	10	search method	annotation
3	Medicine of Kyiv Rus (9 th – 12 th centuries)	8	search method	annotation
4	Medicine of Ukraine (12 th – 17 th centuries)	10	search method	annotation
5	Development of medicine in Ukraine (18 th – early 20 th c.)	8	search method	annotation
6	History of public health in Kharkiv from the foundation in	12	search method	annotation

	17 th c. up to the early 21 st cent.			
7	Activity of Kharkiv Medical Society	8	search method	annotation
8	Medical ethics and deontology in the modern world	7	search method	annotation
	Quantity of hours	70		

2. EVALUATION CRITERIA

3.1 Evaluation of educational success of students is carried out on the basis of the current “Instructions for evaluating the educational activities of students of KhNMU”. Current educational activity of students is controlled by the teacher of the academic group, after the students master each topic of the discipline and grades are set using a 4-point (national) system. At the end of semester, the teacher automatically receives the average grade (to the nearest hundredth) for the current academic activity using an electronic journal of the ACY system.

Recalculation of the average grade for current activities in a multi-point scale is carried out in accordance with the “Instructions for assessing the educational activities of students...”. The final score for current academic activity in the semester is defined as the arithmetic mean of national grades for each lesson and software, rounded to 2 decimal places and converted into a multi-point scale according to Table 2.

Table 2

Conversion of the average score for current activities into a multi-point scale

4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale
5	200	4.22-4,23	169	3.45-3,46	138
4.97-4,99	199	4.19-4,21	168	3.42-3,44	137
4.95-4,96	198	4.17-4,18	167	3.4-3,41	136
4.92-4,94	197	4.14-4,16	166	3.37-3,39	135
4.9-4,91	196	4.12-4,13	165	3.35-3,36	134
4.87-4,89	195	4.09-4,11	164	3.32-3,34	133
4.85-4,86	194	4.07-4,08	163	3.3-3,31	132
4.82-4,84	193	4.04-4,06	162	3.27-3,29	131
4.8-4,81	192	4.02-4,03	161	3.25-3,26	130
4.77-4,79	191	3.99-4,01	160	3.22-3,24	129
4.75-4,76	190	3.97-3,98	159	3.2-3,21	128
4.72-4,74	189	3.94-3,96	158	3.17-3,19	127
4.7-4,71	188	3.92-3,93	157	3.15-3,16	126
4.67-4,69	187	3.89-3,91	156	3.12-3,14	125
4.65-4,66	186	3.87-3,88	155	3.1-3,11	124
4.62-4,64	185	3.84-3,86	154	3.07-3,09	123
4.6-4,61	184	3.82-3,83	153	3.05-3,06	122
4.57-4,59	183	3.79-3,81	152	3.02-3,04	121
4.54-4,56	182	3.77-3,78	151	3-3,01	120
4.52-4,53	181	3.74-3,76	150	Less than 3	Not enough
4.5-4,51	180	3.72-3,73	149		
4.47-4,49	179	3.7-3,71	148		

4.45-4,46	178	3.67-3,69	147
4.42-4,44	177	3.65-3,66	146
4.4-4,41	176	3.62-3,64	145
4.37-4,39	175	3.6-3,61	144
4.35-4,36	174	3.57-3,59	143
4.32-4,34	173	3.55-3,56	142
4.3-4,31	172	3.52-3,54	141
4,27-4,29	171	3.5-3,51	140
4.24-4,26	170	3.47-3,49	139

1.1 Questions for test:

1. What is the subject of “History of Medicine”?
2. What sources give us the information about the development of medicine?
3. What methods of treatment were used in primitive times?
4. How religion influenced on the medicine of primitive society?
5. What peculiarities had temple medicine in the Ancient Greece?
6. What medical schools in the Ancient Greece do you know?
7. What causes of diseases after Hippocrates can you name?
8. What principles of treatment had Hippocrates?
9. What features of Hellenistic medicine do you know?
10. What were the main features of Ancient Roman medicine?
11. What do you know of Celsus and his treatise «The Arts»?
12. What was the contribution of Galen to medicine?
13. What were the peculiarities of West European medicine in the Renaissance period?
14. What do you know of Andreas Vesalius and his fundamental work?
15. What was the contribution of William Harvey to medicine?
16. Who is considered as a founder of the teaching of infectious diseases?
17. What do you know of the development of surgery in the Medieval Europe?
18. What do you know of Ambroise Pare’s contribution to medicine?
19. What were the peculiarities of the development of medicine in Byzantine Empire?
20. What new kind of medical institutions appeared in Byzantium?
21. What were the peculiarities of the development of medicine in Arab caliphates?
22. What kind of medical institutions there were in Arab caliphates?
23. What do you know of Ibn-Sina and his medical activity?
24. What peculiarities of West European medicine in the period of the early and developed Middle Ages do you know?
25. How Catholic Church influenced on medicine?
26. What was the system of medical training in West Europe in the period of classical Middle Ages?
27. What were the reasons of the spread of infectious diseases in the Middle Ages?
28. What anti-epidemic measures were used by medieval physicians?

29. What initial methods of physiological investigations were used in the Middle Ages?
30. What discovery is connected with the name of E. Jenner?
31. What was the contribution of Rene Laennek to medicine?
32. What do you know of the development of physiology and experimental medicine in 19th century?
33. What discovery of Hermann Helmholtz was significant for ophthalmology?
34. What discoveries of Louis Pasteur do you know?
35. What contribution to medicine made Robert Koch?
36. What was the discovery of Wilhelm Roentgen?
37. What methods of anesthesia were offered in 19th century?
38. Who of Ukrainian scientists is considered as a founder of obstetrics and pediatrics in these lands?
39. What do you know of M.I. Pyrohov (N. Pirogov)?
40. Who discovered and developed the phagocytic theory of immunity?
41. Who of famous scientists helped M.F. Hamaliya to found a bacteriological station?
42. Who out of Ukrainian scientists is considered as a founder of a school of Anatomy?
43. Who out of the home physicians introduced sorting the wounded during the Crimean War (1853-1856)?
44. What problems of physiology and medicine investigated O.V. Philomafitsky?
45. Who was the founder of Kharkiv University? What do you know of this person?
46. When the first medical students started their classes at medical faculty? What kind of barriers did not give the chance for potential students to get medical profession?
47. Who of prominent medical scientists worked at medical faculty of Kharkiv Emperor University?
48. When the first clinics of medical faculty were built? How were they equipped?
49. Who of Professors of medical faculty got the permission from Russian tsar for building of 4 clinics? When did it happen?
50. What were the periods of development of Kharkiv high medical school?
51. Why A. Chekhov named L.L. Girshman as a "saint person"?
52. Kharkiv medical society initiated many useful projects for the city population? What do you know of them?
53. When Women Medical Institute was founded in Kharkiv?
54. What do you know of V.Y. Danilevsky?
55. When Kharkiv Medical Academy was founded? What educational institutions became the parts of it?
56. What do you know of L.T. Malaya?
57. What names of medical professors were given to the streets of Kharkiv?

1.2 Control questions

1. What are the subject and sources of “History of Medicine”?
2. What was the essence of disease and methods of treatment in the primitive society?
3. What peculiarities of temple medicine in Ancient Greece do you know?
4. Who of physicians of Antiquity do you know and what was their contribution to medicine?
5. What peculiarities of Arabian medicine do you know?
6. What peculiarities of Byzantine medicine do you know?
7. What peculiarities of West European medicine in the period of Renaissance do you know?
8. What discoveries of the Modern Era influenced a lot on the development of medicine?
9. Invention of which medical tools made easier the work of physicians in the period of Modern Era?
10. Who of prominent physicians of Modern era do you know?
11. What methods of patients’ examination started to use doctors in Modern Era?
12. What do you know about the development of medicine in Kyiv Rus’?
13. What do you know of the development of medicine in the Modern Era?
14. What do you know of the history of Kharkiv National Medical University?
15. What do you know of the activity of Kharkiv Medical Society?
16. Who of professors of Kharkiv National Medical University do you know? What was their contribution to medicine?

3.4 Individual tasks

1. History of the development of medicine.
2. The development of Ukrainian school of medicine.
3. History of vaccination.
4. N.M. Ambodic – Maksymovych and the development of pediatrics, obstetrics and gynecology.
5. Contribution of M.M. Terekhovsky to medicine.
6. D.S. Samoilovych and the development of epidemiology in Ukrainian lands.
7. Contribution of M. Pyrohov to the field surgery.
8. Contribution of M.V. Sklifosovsky to surgery.
9. The development of therapy.
10. The development of physiology.
11. Contribution of academician M. Amosov to medicine.
12. The development of neurology and psychiatry.
13. The development of immunology and microbiology. Contribution of I.I. Mechnykov to this field.
14. Kharkiv school of pediatrics.

3.5 RULES FOR APPEALING THE ASSESSMENT

Procedure for appealing evaluation results

1. Before the beginning of the current and final semester (course) control, the procedure for appealing the results is made public and brought to the notice of student and research and teaching staff of the University.
2. The procedure for appealing the results consists of three stages: filing a complaint, reviewing the complaint, making and publishing the decision of the appeal commission.
3. The complaint is submitted by the applicant for higher education personally, in written form on the day of the announcement of the results of the exam / test. The person authorized by the dean accepts the complaint in the form of a written application. In response to the complaint, the person receiving the complaint must notify the date and place of the meeting of the appeal commission.
4. If the person appealing the results of the assessment wishes to attach additional documents to the appeal, he/she must do so when filing the complaint. Examination (test) work does not need to be added.
5. The appeal must be considered at a meeting of the appeal commission not later than two working days after its submission.
6. The meeting shall be chaired by the chairman of the commission or, in case of his/her absence for valid reasons, the person determined by the majority of members at the meeting of the appeal commission.
7. The meeting of the appeal commission should be accompanied by writing of protocol.
8. The secretary of the commission is responsible for writing the official protocol.
9. The applicant for higher education, who filed a complaint, has the right to be present at all meetings of the appeal commission regarding his/her own complaint. In his/her absence, the secretary of the commission must make a note in the minutes of the meeting.
10. A meeting is considered illegal if 1/3 of the total number of members of the appeal commission is absent.
11. A break may be announced at a meeting of the appeal commission.
12. Several appeals may be considered at one meeting of the appeals commission.
13. The schedules of all meetings of the appeal commission, as a rule, should be made public.
14. Registered complaints, orders on the establishment of appeal commissions, logs of complaints and protocols of meetings of appeal commissions must be kept in the dean's office for one academic year.
15. Copies of the registered complaint, the order on creation of the appeal commission and the minutes of its meeting are attached to the registration card of the applicant of higher education.

4 DISCIPLINE POLICY

The policy of the course is to comply with the Code of Ethics, concluded by the university community, which defines the basic moral principles (Code of Corporative Ethics of KhNMU is presented on the website <http://knmu.edu.ua>).

According to the current “Guidelines for the evaluation of educational activities in the European credit transfer system for the organization of the educational process” students must receive a grade for each topic of the discipline. If a student has missed classes, he/she must complete it in accordance with the “Regulations on the procedure for students of Kharkiv National Medical University”. Work-offs are accepted daily by the duty teacher of the department.

In case of late fulfillment of the individual task by the applicant for excusable reason, it is necessary to inform the teacher about such situation and set a new deadline. If the applicant does not have time to complete an individual task, he/she can ask the teacher for a postponement justifying the reason for late performance (the teacher decides in certain situation whether it makes sense to extend the deadline and for longer period).

In case of non-fulfillment of tasks during training sessions, or non-fulfillment of a part of such a lesson, the teacher gives an unsatisfactory grade, which the applicant must reassign to the teacher in free time, which should be pre-appointed.

During the lecture, students are recommended to keep a synopsis of the lesson and keep a sufficient level of silence.

During the practical classes, a sufficient level of preparedness of students for them and active participation in the work and performance of the tasks set by the teacher is expected. In particular, active participation during the discussion in the audience is expected, students should be ready to understand the material in detail, ask questions, express their point of view, and discuss. During classes are important:

- respect for colleagues and politeness,
- tolerance,
- susceptibility and impartiality,
- the ability to disagree with the opinion, but to respect the identity of the opponent(s),
- careful argumentation of the opinion and the courage to change a position under the influence of evidence,
- self-expression, when a person avoids unnecessary generalizations, describes his/her feelings and formulates his/her wishes based on their own thoughts and emotions,
- obligatory acquaintance with primary sources, readiness for employment.

A creative approach in its various manifestations is welcomed. Applicants from higher education are expected to be interested in participating in various scientific and communicative activities in the subject profile.

5 ACADEMIC INTEGRITY

Successful completion of the course requires adherence to academic integrity, knowledge and ability to use in preparation for classes and tasks Regulations on the examination of text documents at Kharkiv National University – dissertations, research reports, scientific publications, materials of scientific forums, educational literature, educational and methodical publications and teaching aids for the presence of text borrowings.

6 RECOMMENDED LITERATURE

Basic

1. Stupak F. Ya. History of Medicine : textbook / F. Ya. Stupak. – Kyiv : Book - plus, 2016. – 128 p. ISBN 978-966-460-084-9
2. Історія медицини / Голяченко О., Ганіткевич Я. 2-ге вид., допов. – Тернопіль : Укрмедкнига, 2016. – 326 с. : іл. – Імен покажч.: с. 309-320. – Бібліогр.: с. 321–323. – [ISBN 978-966-673-281-4](#)
3. Історія медицини / Верхратський С. А. – К. : Здоров'я, 2011. – 352 с. – [ISBN 966-463-035-1](#)
4. Опарин А.А. История Древней и Средневековой медицины / А.А. Опарин. – Харьков: Факт, 2017. 784 с.
5. Посібник до вивчення курсу «Історія медицини»/ П.М.Полушкін.– Д.:ДНУ, 2016.– 242 с. URL: http://repository.dnu.dp.ua:1100/upload/cd01488c10e047532387816735b53409Istoriya_medicini_1.PDF

Additional

1. The origin of Medicine. Pre-historic Medicine. Medicine of the Ancient world History of Medicine : guidelines for students to the practical lesson for students in specialties: 222 “General Medicine” and 228 “Dentistry” on the course “History of Medicine” / Compiled by V. Ohniev, O. Semenenko, N. Martynenko, O. Myakyna. – Kharkiv : KhNMU, 2018. 19 p.
2. Medicine in the Middle Ages : guidelines for students to the practical lesson for students in specialties: 222 “General Medicine” and 228 “Dentistry” on the course “History of Medicine” / Compiled by V. Ohniev, O. Semenenko, N. Martynenko, O. Myakyna. – Kharkiv : KhNMU, 2018. 15 p.
3. Medicine in the Modern Era (mid.-to-late 17th – early 20th centuries) : guidelines for students to the practical lesson for students in specialties: 222 “General Medicine” and 228 “Dentistry” on the course “History of Medicine” / Compiled by V. Ohniev, O. Semenenko, N. Martynenko, O. Myakyna. – Kharkiv : KhNMU, 2018. 18 p.
4. Medical Scholars of Ukraine : guidelines for students to the practical lesson for students in specialties: 222 “General Medicine” and 228 “Dentistry” on the course “History of Medicine” / Compiled by V. Ohniev, O. Semenenko, N. Martynenko, O. Myakyna. – Kharkiv : KhNMU, 2018. 20 p.
5. History of Kharkiv National Medical University : guidelines for students to the practical lesson for students in specialties: 222 “General Medicine” and 228 “Dentistry” on the course “History of Medicine” / Compiled by V. Ohniev, O. Semenenko, N. Martynenko, O. Myakyna. – Kharkiv : KhNMU, 2018. 18 p.
6. Contribution of India In Medical Sciences (PDF). Archived from the original PDF on 2018-04-08. Retrived 2018-04-07.
7. Kessel, Grigory (2019). “Syriac Medicine”. The Syriac World. London: Routledge, pp. 438-59.

5 INFORMATION RESOURCES

1. [History of the Health Sciences World Wide Web Links \(Medical Library Association\)](#)
2. [Wellcome Library](#)
3. Collections of books, manuscripts, archives, films and pictures on the history of medicine from the earliest times to the present day. Searchable catalogue of archives and manuscripts. <http://archives.wellcome.ac.uk/> The historical image collection contains over 160,000 images and is keyword searchable.
4. [Online Catalog, National Library of Medicine](#)
5. The NLM Catalog provides access to NLM bibliographic data for journals, books, audiovisuals, computer software, electronic resources and other materials. Links to the library's holdings in LocatorPlus, NLM's online public access catalog, are also provided.
6. [World Health Organization \(WHO\) Historical Collection](#)
7. [Institute of Historical Research, Medical History Page](#)
8. [History of Vaccines Web Site](#)
9. [LitMed: The Literature, Arts, & Medicine Database \(NYU\)](#)
10. The Literature, Arts, & Medicine Database is an annotated multimedia listing of prose, poetry, film, video and art that was developed to be a dynamic, accessible, comprehensive resource for teaching and research in MEDICAL HUMANITIES, and for use in health/pre-health, graduate and undergraduate liberal arts and social science settings.