

**COURSE DATA****Data Subject**

Code	34460
Name	History of medicine and documentation
Cycle	Grade
ECTS Credits	6.0
Academic year	2019 - 2020

Study (s)

Degree	Center	Acad. year	Period
1204 - Grado de Medicina	Faculty of Medicine and Odontology	2	Second term

Subject-matter

Degree	Subject-matter	Character
1204 - Grado de Medicina	10 - History	Basic Training

Coordination

Name	Department
BAGUENA CERVELLERA, M JOSE	225 - History of Science and Documentation

SUMMARY

The aim of this subject is the reasoned, critical and based historical knowledge of the current signification of science and medical practice by offering a contextualized view of the health, illness and healthcare present-day problems. It pursues the student to recognize the elements which bring cohesion and set up the current medical professional identity as a result of an historical process, to understand the medical science as knowledge in construction submitted to rapid and continuous changes and to analyze the challenges and opportunities of medicine and health of the XXI century. The subject proposes the student to be able to use the search and retrieval systems of the biomedical scientific information, to recognize the principles of the medicine based on the scientific evidence and its information sources, to know le medical literature and to evaluate critically the information and to understand the principles of the scientific method and the factors which determine in the scientific research and the processes of the scientific change.

PREVIOUS KNOWLEDGE



Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

They are not precise than other previous general university student specific knowledge.

OUTCOMES

1204 - Grado de Medicina

- Develop ones professional practise with respect towards the autonomy of patients, their beliefs and culture.
- Recognise ones limitations and the necessity of maintaining and updating ones professional competence, giving special importance to an autonomous way of learning new content and techniques, and the importance of motivation for quality achievement.
- Develop ones professional practise with a respectful attitude towards other health professionals, acquiring team work skills.
- Know of the national and international health organisations, and the environment and determining factors in several health systems.
- Know how to use the sources of clinical and biomedical information available, and value them critically in order to obtain, organise, interpret and communicate scientific and sanitary information.
- Be able to formulate hypothesis, gather information and evaluate it critically in order to solve problems by following the scientific method.
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- Proper organisation and planning of the workload and timing in professional activities.
- Team-working skills and engaging with other people in the same line of work or different.
- Criticism and self-criticism skills.
- Capacity for communicating with professional circles from other domains.
- Acknowledge diversity and multiculturality.
- Consideration of ethics as a fundamental value in the professional practise.
- Working capacity to function in an international context.
- Knows the legal foundations of the medical practise and profession. Informed consent. Confidentiality.
- Knows how to evaluate risk factors and disease prevention. Recognises health determinants in population. Health indicators.
- Knows, evaluates and uses technology and sources of clinical and biomedical information to obtain, organise, interpret and communicate clinical, sanitary and scientific information.
- Knows healthcare and disease History. Knows of the existence and the principles of alternative medicine.
- Is able to handle a personal computer with autonomy, uses searching and retrieval information systems, knows and handles clinical documentation procedures.
- Understands and interprets scientific texts critically.
- Knows the principles of the scientific method, biomedical research and clinical trial.
- Knows and manages medical principles based on (the best) evidence.
- Knows how to present scientific work and professional records to an audience, both written and orally.



LEARNING OUTCOMES

Students who develop profitably the subject will be able to understand and analyze:

1. The origins of the human diseases.
2. The origin and development of the different medical systems.
3. The scientific revolution in medicine and the introduction of the experimental method in health science.
4. The scientific study of the human body, pathology and therapeutics structure and function.
5. The origin and development of healthcare institutions.
6. The characteristics of the clinical act and doctor-patient relationship.
7. The needs and uses of scientific information.
8. The research designs in medicine.
9. The primary sources of scientific, clinic and health information.
10. The secondary sources for information retrieval.
11. The basic sources of statistics information about health and illness.
12. The medicine based on the scientific evidence.
13. The critical reading and comprehension of scientific texts.

DESCRIPTION OF CONTENTS

1. HISTORY OF MEDICINE

1. Origins of the human diseases.
2. Paleopathology and historical epidemiology.
3. Concept and classification of medical systems.
4. Paleomedicine, indigenous medicines, archaic medicines, folk medicine.
5. The classical medicines: the Greek medicine, the Chinese medicine, the Ayurvedic medicine.
6. Methods in modern medicine. The scientific revolution and medicine. The experimental method in the health science.
7. The scientific study of human body structures. The Galenic anatomy. From the Vesalian revolution to the Cell theory. Historical development of embryology, comparative anatomy and evolutionary theory.
8. The Galenic physiology. From the discovery of major circulation to experimental physiology. Origins of biochemistry, genetics and molecular biology.
9. The medical physiology and socio-medical science.
10. Galenic pathology to the concept of morbid species.
11. Levels of contemporary pathology. From the Cellular pathology to the Molecular pathology.
12. Classical therapy. From the medical material to experimental pharmacology. Surgical revolution.
13. Origins and development of the psychotherapy.
14. The current hospital and the technological revolution.
15. The clinical act and the doctor-patient relationship.

2. MEDICAL DOCUMENTATION



16. The medical profession in the context of the information and communication society. Needs and uses of information in medicine
17. Characteristics of sources of scientific information in medicine: primary sources and secondary sources
18. Primary sources of scientific information. I Characteristics of scientific journals
19. Primary sources of scientific information II. The process of peer review and open access
20. Primary sources of scientific information III. The scientific article
21. Secondary sources for information retrieval. Biomedical bibliographic databases of Spanish literature (IME, IBECS and MEDES)
22. Secondary sources for information retrieval. International bibliographic databases of Biomedical Literature (PubMed / MEDLINE and EMBASE)
23. Secondary sources for information retrieval. Multidisciplinary bibliographic databases (WoS and Scopus) and academic search engines (Google Scholar)
24. Medicine based on scientific evidence. Principles and sources of primary information
25. Medicine based on scientific evidence. Data bases for selective retrieval

3. PRACTICES

PRACTICAL SESSIONS IN THE COMPUTER CLASSROOM

1. Website of the library of the University of Valencia.
2. Medical (electronic) journal and their contents.
3. Analysis of the features of a research article.
4. Bibliographic retrieval of medical scientific information in PubMed/Medline.
5. Searches in the Web of Science database.
6. Searches in the Cochrane Plus database and analysis of a systematic review.

SEMINARS

1. Historical sources: analysis of classical texts.
2. Material sources of the history of medicine.
3. Archival sources of health and care history.
4. Health, disease and medicine through audiovisual sources.
5. Oral history: medical biographies.

TUTORIALS

Presentation and discussion of a project.

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	33,00	100
Computer classroom practice	12,00	100
Seminars	11,00	100
Tutorials	4,00	100
Attendance at events and external activities	5,00	0
Development of group work	10,00	0
Development of individual work	10,00	0
Study and independent work	10,00	0
Readings supplementary material	10,00	0



Preparation of evaluation activities	10,00	0
Preparing lectures	10,00	0
Preparation of practical classes and problem	10,00	0
Resolution of case studies	10,00	0
Resolution of online questionnaires	5,00	0
TOTAL	150,00	

TEACHING METHODOLOGY

Theoretical lessons

Teaching and learning methodology: professor exposition, with eventual participation of the students.

Computer practice

Teaching and learning methodology: acquisition of skills in the use of measurement instruments, as well as in the results processing, relative to the content of the program.

Seminars

Teaching and learning methodology: personal exchanges among the participants about complementary topics, numeric activities and oral or written contributions of the students.

Tutorials

Teaching and learning methodology: personal interview with the students involved or electronic consultation (through Aula Virtual, email, blogs, etc.).

EVALUATION

Learning assessment

History of Medicine: 50% of the final score

Theoretical assessment: 60% of the score in this subject. Evaluation will be done through a written test consisting out of five essay questions, from which students will have to choose three to answer.

Practical assessment: 40% of the score in this subject. Evaluation will be done through assessing the different practical activities students have dealt with throughout the academic course and which are indicated in the teaching guide.

Medical Documentation: 50% of the final score

Theoretical assessment: 60% of the score in this subject. Evaluation will be done through an exam with 25-30 multiple choice questions. Grading criteria: every 3 incorrect answers will lead to subtract 1 correct answer. Blank answers do not penalise. Students will have to obtain a minimum score of 4 out of 10 in the exam in order to pass this part of the subject.



Practical assessment: 40% of the final score, comprising 1) evaluation of the Student Practise Books (20%) which will be handed in individually at the end of the course and on the specified date, and 2) an assignment of a case study which students develop on the date of the theoretical exam (20%).

Attendance to practises is compulsory. Students have to obtain a score of 4 out of 10 in their practise, so as to pass this module of the subject.

Final grade in the subject:

a) Students can pass the subject with a score of 3, at least, in one of the parts, which will be the result of adding up the outcomes from the theoretical and the practical evaluation, and a score of 2 in the other part. If the score is less than 2 in one of the parts, the student will fail the subject.

b) In case the score is 3 or superior in one of the parts, even if students fail the subject, this score will be saved for the second term, provided that the sum of the grades in both modules is 5.

Attendance of practices will be compulsory.

REFERENCES

Basic

- Barona, J.L. (2004). Salud, tecnología y saber médico. Madrid, Ed. Fundación Ramón Areces.
- Cordon García, J.A. (2010). Las nuevas fuentes de información: información y búsqueda documental en el contexto de la web 2.0. Madrid, Pirámide.
- Duffin, J. (2010). History of Medicine: a scandalously short introduction. Toronto, Toronto Univ. Press.
- Ferragud Domingo, C., Vidal Infer, A., Bertomeu Sánchez, J.R., Lucas Domínguez, R. (2017). Documentación y metodología en Ciencias de la Salud. Valencia, Nau Llibres.
- Jiménez Villa, J. et al. (2010). Publicación científica Biomédica: cómo escribir y publicar un artículo de investigación. Barcelona, Elsevier.
- Kiple, K.F. et al. (eds.) (1993). The Cambridge world history of human disease. Cambridge, Cambridge University Press.
- Laín Entralgo, P. (ed.) (1998). Historia Universal de la Medicina. Barcelona, Ed. Masson, CD Rom.
- López Piñero, J.M. (2000). Breve Historia de la Medicina. Madrid, Alianza Editorial.

ADDENDUM COVID-19

1. Contenidos

PARTE DE Hª MEDICINA: Se mantienen los contenidos docentes que se habían programado. Las lecciones del temario que quedaban por impartir se han adaptado online. Todas las sesiones prácticas programadas se llevaron a cabo antes del estado de alarma. Sigue la tutorización de los trabajos programados. Debido a la situación actual, se han modificado las fechas de entrega de los textos y presentaciones. No se realizan presentaciones orales.



PARTE DE DOCUMENTACIÓN Se mantienen todos los contenidos inicialmente programados en la guía docente para las sesiones teóricas. Se mantienen las sesiones prácticas programadas en el desarrollo de 6 actividades en aula de informática que los alumnos pueden realizar a través de sus ordenadores personales.

2. Volumen de trabajo y planificación temporal de la docencia

PARTE DE Hª MEDICINA: No se han añadido nuevas actividades, por lo que no ha cambiado el volumen de trabajo total en horas de créditos ECTS. La docencia teórica se realiza a través del Aula virtual mediante presentaciones locutadas, videoconferencias con la plataforma Blackboard Collaborate tanto síncronas como asíncronas y foros.

PARTE DE DOCUMENTACIÓN: Mantenimiento de la planificación temporal docente tanto en días como en horario de las sesiones teóricas y prácticas. Mantenimiento de las 12 horas de sesiones de prácticas de informática con resolución de dudas a través de la creación de foros en cada una de las 6 sesiones planificadas.

3. Metodología docente

PARTE DE Hª MEDICINA: Para sustituir a las clases teóricas presenciales se han utilizado presentaciones locutadas y videoconferencias a través de la plataforma Blackboard Collaborate, bien en las fechas y horas programadas en el calendario docente, o bien asíncronas. Se han utilizado foros para resolver dudas y para la participación evaluada de los estudiantes. Todo el material docente se encuentra en el aula virtual. Las tutorías se llevan a cabo a través del aula virtual y mediante videoconferencias.

PARTE DE DOCUMENTACIÓN: Sustitución de la clase presencial por la subida al aula virtual de los mismos materiales previstos en la guía original, adicionalmente locutados por los profesores, el día y a la hora de la clase presencial (powerpoints).. Utilización del foro del aula virtual para atender las dudas en cada una de las sesiones teóricas y sesiones prácticas.. Recopilación a través de la opción de Tarea del aula virtual de las actividades prácticas en el horario de las sesiones prácticas. Sistema de tutorías. Se mantiene el programa de tutorías virtuales por correo electrónico por chat privado del Aula Virtual y se emplean otras herramientas del Aula Virtual para atender dudas o debates colectivos (creación de foros o chats).

4. Evaluación

PARTE DE Hª MEDICINA: Se mantiene la evaluación continuada de las actividades prácticas y de los trabajos tutorizados que figuraba en la guía docente original, a la que se suma la evaluación de un examen escrito final. Debido a la situación actual, se invertirá la proporción respecto al peso de cada parte en la nota final: 60% para los trabajos prácticos y tutorizados y 40% para el examen final.



Prueba final online:

1. El examen constará de tres preguntas cortas y se subirá al Aula virtual como actividad denominada Examen de Hª Medicina y Documentación. Parte Hª de la Medicina. 1ª Convocatoria, en el día y hora previstos en el calendario de exámenes programado por la Facultad de Medicina y Odontología. La convocatoria se realizará por el Aula virtual.
2. Las preguntas serán de tipo reflexivo y no memorístico.
3. Los estudiantes disponen de 60 minutos para realizar el examen, que enviarán una vez finalizado al aula virtual en formato pdf a través de la tarea denominada Examen de Hª Medicina y Documentación. Parte Hª de la Medicina. 1ª Convocatoria.
4. Transcurridos 60 minutos desde su inicio, la tarea Examen bloqueará posteriores entregas.
5. Cuando un estudiante no disponga de los recursos técnicos necesarios para realizar el examen online, tendrá que ponerse en contacto con el profesor por correo electrónico.

PARTE DE DOCUMENTACIÓN Mantenimiento de las notas resultantes de la evaluación continua obtenidas antes de la entrada en vigor del estado de alarma. Contenido práctico: 40% de la nota. Será el resultado de la evaluación de las 6 actividades prácticas entregadas mediante la opción de tareas a través del aula virtual.

Contenido teórico: 60% de la nota. Prueba de evaluación contenido teórico: Se basará en un examen tipo test de 24 preguntas con respuesta múltiple (4 opciones) que se subirá al aula virtual como Tarea a la hora prevista para el inicio del examen. La duración del examen será de 35 minutos. En el examen test, cada 3 preguntas mal contestadas anularán 1 pregunta correcta.

Se necesita un valor mínimo de 4 sobre 10 en el test teórico y en la nota de prácticas para aprobar la asignatura. Si una persona no dispone de los medios para establecer esta conexión y acceder al aula virtual, deberá contactar con el profesorado por correo electrónico en el momento de publicación de este anexo a la guía docente.

5. Bibliografía

PARTE DE Hª MEDICINA: La bibliografía no se ha modificado.

PARTE DOCUMENTACIÓN Se sustituyen los manuales recomendados sin acceso online por los apuntes y transparencias locutadas que se suben al aula virtual. Se mantienen las lecturas recomendadas al ser artículos disponibles en las bases de datos que tiene suscrita la UV (requieren VPN).