Universidad Zaragoza

Academic Year/course: 2021/22

68426 - Research in medical specialties

Syllabus Information

Academic Year: 2021/22
Subject: 68426 - Research in medical specialties
Faculty / School: 104 - Facultad de Medicina
Degree: 530 - Master's in Introduction to Medical Research
ECTS: 6.0
Year: 1
Semester: First semester
Subject Type: Compulsory
Module:

1. General information

1.1. Aims of the course

The subject ?Research in Medical Specialties? is one of the elective options offered in the Master of Initiation to Research in Medicine and includes a heterogeneous group of contents, all of them included in Internal Medicine. The content of the subject offers the student the possibility of acquiring knowledge that will allow him to start in basic or applied research.

Each of the sections of the subject presents specific very specific aspects that attempt to adapt the design of research protocols to clinical practice.

Specific aims:

1. Know the molecular and cellular bases on which bio-medical research is based on the main health problems in medical diseases with the highest prevalence.

2. Identify the lack of scientific evidence in the practice of different medical specialties

3. Reason and design models of specific clinical studies in translational research in medical specialties.

These plans and objectives are aligned with the following Sustainable Development Goals (SDG) of the United Nations 2030 Agenda (https://www.un.org/sustainabledevelopment/es/), in such a way that reaching the learning objectives of this course provides skills to contribute to some extent to achive in particular the following goals:

Goal 3: Good Health and Well-Being.
Goal 4: Quality Education.
Goal 9: Industry, Innovation, and Infrastructure.

1.2. Context and importance of this course in the degree

This subject provides knowledge of the scientific and academic environment in which different lines and research projects are developed. In this context, the student will participate through the supervised design of a research project.

1.3. Recommendations to take this course

It is a compulsory subject of the first semester of the Master that aims to convey unresolved aspects of the main medical specialties to introduce the student to the critical analysis of what affects the clinic and research

2. Learning goals

2.1. Competences

Upon passing the subject, the student will be more competent to ...

1. Critically analyze the methodology, results and conclusions of the different clinical studies

2. Propose a research project in the unresolved aspects, contemplated in the different Medical Specialties

2.2. Learning goals

The student, to pass this subject, must demonstrate the following skills

1. Propose a research project in non-resolved aspects of the different Medical Specialties

2. Carry out a critical analysis of the available evidence and identify a problem or an unproven hypothesis

3. Propose objectives consistent with the hypotheses raised and select the appropriate material and methods for its development

2.3. Importance of learning goals

The main objective of the subject is to introduce the student to the scientific and academic research environment. The student must participate actively through the tutorial design of a research project of some of the parts of the subject

3. Assessment (1st and 2nd call)

3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

The student must demonstrate that he has achieved all the expected results of the apprenticeship through the following evaluation activities. In the evaluation of the subject three aspects will be considered: attendance and participation, supervised work and objective final test type test with the following percentages

- Attendance / participation ---------- 40%

- Tutorized assignement ---------- 30%

- Final objective test ---------- 30%

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The methodology followed in this course is oriented towards achievement of the learning objectives. It develops the evaluation and the analysis of the process in the clinic critical thinking, the assessment of contributions to the medical specialties, and how to do a research project.

4.2. Learning tasks

The course includes the following learning tasks:

- Theory sessions. Every topic of the syllabus will be presented, analysed and discussed by the teacher as follows:
  - Structured and Formal Presentation of the topics.
  - Discussion and study of scientific articles published in relevant journals related.
  - Group discussion.
  - Conclusions.
- Guided project. Every student will prepare an investigation project about one of the topics studied.

4.3. Syllabus

Program

1. Research in Nephrology
2. Intervention in lifestyles in Family Medicine
3. Gastrointestinal and hepatic diseases
4. Digestive functional disorders
5. Nutrition and Metabolic diseases
6. Research in Clinical Neurology
7. Cardiovascular Emergencies and Heart Failure
8. Clinical reasoning
9. Research in Pneumology
10. Infectious Diseases
11. Epidemiology and Risk factors in Cardiovascular Pathology
12. Translational Research in Obesity
13. Basic and Clinical Research in Oncology
14. COVID as a medical research model from clinical to bedside

4.4. Course planning and calendar

Provisional course planning

The development of the lectures program as indicated in the planning below, will be done in person. However, and depending on the state of pandemic by COVID-19, lectures and other theoretical and practical activities may be carried out "not in person". The coordinator of the subject will keep the student informed of the decisions that are made in this regard by the Vice-Dean office.

Fecha	Tema / lección	Profesor (es)	
01.12.2021 16:00-18:00 18:00-20:00	Líneas de investigación en Nefrología Intervención en estilos de vida en Medicina de Familia	Pablo Iñigo (T) Oscar Urbano JMª Peña Rodrigo Cordoba	pinigo@comz urbanoalagon pporta@hispa rcordoba1952
02.12.2021 16:00-19:00 19:00-20:00	Razonamiento clínico Urgencias cardiovasculares	Pilar Astier, MªT Delgado P. Serrano	mpastier@sal telecardiologo
09.12.2021 16:00-18:00 18:00-20:00	Epidemiología y factores de riesgo cardiovascular	José A. Casasnovas (C) Martín Laclaustra (T)	jcasas@uniz martin.laclau
13.12.2021 16:00-20:00 18:00-20:00	Apnea del sueño y senectud EPOC/Asma. Bases moleculares	José Mª Marín (C) Santiago Carrizo	jmmarint@ur sant422@sep
14.12.2021 16:00-20:00 18:00-20:00	Proceso de investigación en COVID: de la clínica a la vacuna	Javier Zulueta (T) Marta Marin-Oto	jzulueta@un marta.marin.c
15.12.2021 16:00-18:00 18:00-20:00	Enfermedades gastrointestinales y hepáticas	Angel Lanas (C) F. Gomollon (T)	alanas@uniz
16.12.2021 16:00-18:00 18:00-20:00	Investigación en nutrición y Diabetes Obesidad y adipocitos	Alejandro Sanz José M. Arbonés	asanzp@uniz jmarbones.ia
17.12.2021 16:00-18:00 18:00-20:00	Investigación en infectología Investigación en oncología	JA. Amiguet (T), Mª J Crussells José A. Artal, A. Antón	jamigar@uniza aartal@unizar. aantont@uniz
20.12.2021 16:00-18:00 18:00-19:00 *19:00-20:00*	investigación en enfermedad celiaca Trastornos motores y funcionales digestivos Prueba escrita	M. Montoro Javier Salcedo M. Laclaustra (T)	maimontoro@ jalcedo@telef C: catedrátic

4.5. Bibliography and recommended resources

1. OHRP and Standard-of-Care Research, The Editors, N Engl J Med 2014; 371;22

2. Lantos, JD, Spertus, JA, The concept of risk in comparative-effectiveness research. N Engl J Med 2014; 371;371:2129-2130