

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

Code	34499
Name	Pharmacoepidemiology
Cycle	Grade
ECTS Credits	4.5
Academic year	2023 - 2024

Study (s)

Degree	Center	Acad. year	Period
1204 - Degree in Medicine	Faculty of Medicine and Odontology	3	Second term

Subject-matter

Degree	Subject-matter	Character
1204 - Degree in Medicine	18 - Optional subjects	Optional

Coordination

Name	Department
MARTI CABRERA, MIGUEL	135 - Pharmacology

SUMMARY

The objective in this subject is to review pharmacology from the point of view of its therapeutic application and the approach of clinical and epidemiological studies about the use of drugs, in the development and the therapeutic use of such drugs, in the population which is affected by different pathologies.

PREVIOUS KNOWLEDGE**Relationship to other subjects of the same degree**

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



Other requirements

Es necesario haber cursado Farmacología de órganos y sistemas y Farmacología clínica para un seguimiento y aprovechamiento adecuado de la asignatura.

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

1204 - Degree in Medicine

- Students must be able to apply their knowledge to their work or vocation in a professional manner and have acquired the competences required for the preparation and defence of arguments and for problem solving in their field of study.
- Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.
- Understand the foundations of action, indications and efficacy of therapeutic interventions, based on available scientific evidence.
- 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.

LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

Knowing that Pharmacoepidemiology is concerned with the study of the uses and effects of drugs in big samples of the population, the academic year should allow students to:

- Acquire skills and develop attitudes to assess the effects of drugs in humans, with special attention to the benefit-risk relationship, by using information from pharmacologic studies and their individual application in concrete patients.

DESCRIPTION OF CONTENTS



1. THEORETICAL CLASSES

Unit 1.-General concepts of pharmacological therapy.

Unit 2.-Pharmacological therapy in cardiovascular processes.

Unit 3.-Pharmacological therapy in respiratory pathologies.

Unit 4.-Pharmacological therapy in gastrointestinal pathologies.

Unit 5.-Pharmacological therapy in endocrinological pathologies.

Unit 6.-Pharmacological therapy in gynaecological pathologies.

Unit 7.-Pharmacological therapy in neurological pathologies.

Unit 8.-Pharmacological therapy in psychiatric disorders.

Unit 9.-Pharmacological therapy in inflammatory and rheumatic pathologies.

Unit 10.-Pharmacological therapy in infectious pathologies.

Unit 11.-Pharmacological therapy in tumour processes.

2. PRACTICAL CLASSES

Seminaries:

1.Elaboration of pharmacological solutions for possible medical problems.

2.Evaluation and interpretation of possible disorders as reactions to drug intake.

3.Consider possible drug interaction.

4.Questionnaires related to pharmacotherapy.



WORKLOAD

ACTIVITY	Hours	% To be attended
Seminars	26,00	100
Theory classes	19,00	100
Development of group work	10,00	0
Development of individual work	7,50	0
Study and independent work	20,00	0
Preparation of evaluation activities	10,00	0
Preparation of practical classes and problem	20,00	0
TOTAL	112,50	

TEACHING METHODOLOGY

In theoretical lessons, professors will present the most important concepts and content through master classes in a structured way, in order to help students develop several skills and meet the objectives. Students' participation in the class should be encouraged and they will have access to the didactic material professors may have used through the electronic platform *Aula Virtual*, if they consider it to be appropriate.

Practise in the classroom: seminars. In small groups, professors will present deeply specialised themes, case studies, management of bibliography, current issues... Team work is encouraged, as well as oral presentation skills, which could be interpreted as 'cooperative learning'.

The gender perspective and the Sustainable Development Goals (SDGs) will be incorporated into the development goals (SDGs) into teaching, whenever possible.

EVALUATION

The learning assessment will be joint (theoretical-practical), in which the theoretical part represents 50% of the final grade for the course and the practical part the other 50%. Throughout the course, students will be continuously evaluated taking into account their participation in the different activities proposed and the knowledge, skills and abilities related to general competences that they acquire. This continuous evaluation will be through the realization of previously suggested works and/or tests, that may include short questions, multiple choice questions and/or problems. Students who do not pass this continuous assessment may take a final test of the same type that assesses the aspects mentioned above.

Attendance to practical sessions is mandatory. Unjustified non-attendance to more than 20% of the sessions will make it impossible to pass the course.



In order to access to an advance on the call of this subject, it is a requirement that the student has coursed all his/her practices.

Students are reminded of the importance of carrying out evaluation surveys on all the teaching staff of the degree subjects.

REFERENCES

Basic

- Brunton LL. et al. Goodman and Gilman. Las bases farmacológicas de la terapéutica. 13ª ed. (2019) México DF. McGraw-Hill Interamericana.
- Florez J, Armijo JA, Mediavilla A. Farmacología humana. 6ª ed. (2013). Elsevier-Masson (Eds).
- Katzung, B.G.. Farmacología básica y clínica. 14ª ed. (2019) México DF. McGraw-Hill Interamericana Editores.
- Lorenzo P, Moreno A, Leza JC, Lizasoain I, Moro MA, Portolés A. Velázquez. Farmacología básica y clínica. 19ª ed. (2018). Madrid. Editorial Médica Panamericana.
- Ritter JM, Flower RJ, Henderson G, Loke YK, MacEwan D, Rang HP. Rang y Dale. Farmacología. 9ª ed. (2020). Barcelona. Elsevier (Ed).
- Strom BL, Kimmel SE, Hennessy S. Pharmacoepidemiology. 5ª ed. (2012). Oxford (UK). John Wiley and Sons, Ltd. (Eds).

Additional

- Recursos-e Salut: ClilnicaKey Sudent. Elsevier (Scopus, ScienceDirect).
uv-es.libguides.com/RecursosSalut/BibliotecaSalut