

Academic Year/course: 2022/23

26726 - Diagnostic and Therapeutic Procedures: Pharmacology and Dietetic II

Syllabus Information

Academic Year: 2022/23

Subject: 26726 - Diagnostic and Therapeutic Procedures: Pharmacology and Dietetic II

Faculty / School: 104 - Facultad de Medicina

Degree: 304 - Degree in Medicine

ECTS: 6.0

Year: 4

Semester: Second semester

Subject Type: Compulsory

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The learning process designed to this subject is based in:

The activities proposed are focused on the understanding and assimilation of the mainstays of the Pharmacology as well as in the knowledge and use of the drugs. This is essential for the future development of medical professionals.

The general vision of the knowledge obtained in the theoretical class is completed with the practical activities, where the student will get used to the different methods and their application in medicine.

The students can use the tutorial hours to get a better following of the learning process. These hours can be directed to the conventional tutoring session or to specific session related to the practical work.

The basic material of the course, such as the subject program, the summaries of the theoretical themes, the complementary material to the practical class and the schedule, will be uploaded to the website. The web page is <http://add.unizar.es/add/campusvirtual/> (Anillo Digital Docente), <https://moodle2.unizar.es>

The subject is structured as follows:

Classroom-based activities are developed through 32 participatory classes and involve a big group of students. The practical classes and/ or seminars consist of 20 class hours divided into working sessions of two hours and a half each. In this case, the students will be distributed in small groups.

4.2. Learning tasks

With the aim of getting the expected learning results the program offered to the student includes the next activities:

- Lectures in big groups (1,28 ECTS)
- Self-study explanation and orientation of the subject contents directed to acquire the competences and learning results. All available resources about audiovisual support will be used.
- Practical sessions in small groups (0,80 ECTS)
- Each group of students will receive practical classes for two weeks.
- Student's autonomous work (3,64 ECTS). Time devoted to study the course contents and prepare the sessions

All students will be informed about the risk associated with some practical classes, such as the use of dangerous products and they also will be advised on the procedures to be followed in case of an accident. Every student must sign a commitment to comply with the work rules and safety standards in order to carry out the practical classes. More information at <http://uprl.unizar.es/estudiantes.html>

4.3. Syllabus

The course will address the following topics:

Section 1

- Pharmacology of the Cardiovascular and Renal System
- Pharmacology of the Lipid-Lowering Agents
- Pharmacology of the Respiratory System
- Pharmacology of the Digestive System
- Pharmacology of the Endocrine System
- Pharmacogenetics and Pharmacogenomics applied to the clinical management
- Nutrition and Dietetics: Interaction nutrient-drug. Nutrigenomics

Section 2

- Evolution and context of the Clinical Pharmacology
- Selection and rational use of the medicament. Guide to Good Prescribing
- Drug development
- Clinical Trial: methodological, ethical and legal aspects
- Generic and bioequivalent medicaments
- Pharmacoepidemiology. Pharmacovigilance. Evidence-based therapeutic.
- Pharmacoeconomics
- Social aspects of the drugs.
- The use of drugs during pregnancy, lactation, and infancy.
- Drugs in the elderly: renal and hepatic failure
- Therapeutic drug monitoring
- Treatment of acute intoxications

Practical Sessions teaching with a small group

1. Simulation of drug administration on the Cardiovascular System
2. Problem-based learning; training of practical assumptions and solution of problems by working together
3. Selection and rational use of the medicaments: Vademecum of the generation year.
4. Critical analysis of clinical trials
5. Advanced simulation of the drug usage on emergency situations II

4.4. Course planning and calendar

Lectures in a big group: three hours each week

Practice sessions in small groups of students: 10 hours each week and two weeks each group of students

Every group of students will develop the same training activities in theory as well as practical sessions.

For students enrolled in the subject, places, times and dates of lectures and practical sessions will be public via Bulletin Board advertisements of the grade on the platform Moodle at the University of Zaragoza, <https://moodle2.unizar.es> and in the Moodle page for the course. These routes will be also used to communicate enrolled students their distribution by groups of practical sessions, which will be organized by the coordination of the degree.

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the Facultad de Medicina website and the Degree website <https://medicina.unizar.es/tercer-curso#horario5>

4.5. Bibliography and recommended resources

The updated bibliography of the subject can be consulted by the Library's website:

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=26726>

