

## 29350 - Pharmacology for the Odontology Clinic

### Syllabus Information

**Academic Year:** 2020/21

**Subject:** 29350 - Pharmacology for the Odontology Clinic

**Faculty / School:** 229 - Facultad de Ciencias de la Salud y del Deporte

**Degree:** 442 - Degree in Odontology

**ECTS:** 6.0

**Year:** 4

**Semester:** First semester

**Subject Type:** Optional

**Module:** ---

### 1.General information

#### 1.1.Aims of the course

#### 1.2.Context and importance of this course in the degree

#### 1.3.Recommendations to take this course

### 2.Learning goals

#### 2.1.Competences

#### 2.2.Learning goals

#### 2.3.Importance of learning goals

### 3.Assessment (1st and 2nd call)

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

### 4.Methodology, learning tasks, syllabus and resources

#### 4.1.Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as practice sessions, assignments, and autonomous work and study.

This course aims to be a correspondence between the theory sessions and the practice sessions so that these practice sessions reinforce and support the contents of the course in order to achieve meaningful learning of the student that they can use in the exercise of their future professional work in the field of odontology.

#### 4.2.Learning tasks

This 6 ECTS course is organized as follows:

- **Lectures.** Teachers will expose topics, using the blackboard and audiovisual material with computer support.
- **Practice sessions** will be made by:
  - Solving pharmacokinetic problems
  - Problem?based learning. Resolution and discussion
  - Assessment and resolution of clinic cases
  - Course portfolio: collected reports relating to the control of the previous practice activities (individual work)
  - discussion of seminars taught by the teacher. Active participation of the student
  - Assessment Vademecum

- Realization of a monographic review assignment, in small groups, on a suggested topic. Presentation and defense. During the realization of the same, corresponding teachers will have various interviews with the working groups for academic orientation and supervision.
- Discussion of seminars taught by the teacher. Active participation of the student

Classroom materials will be available via Moodle. These include a repository of the lecture notes used in class, the course syllabus, as well as other course-specific learning materials (<http://www.unizar.es/dvirtual.htm>)

### 4.3.Syllabus

The course will address the following topics:

#### Theory sessions

##### GENERAL PRINCIPLES OF PHARMACOLOGY

**Topic 1.** Absorption, distribution, metabolism, and excretion of drugs (ADME)

**Topic 2:** Pharmacodynamics: molecular mechanisms

##### CENTRAL NEUROPHARMACOLOGY

**Topic 3:** Drugs used for the treatment of anxiety and sleep disorders

**Topic 4:** Drugs used for the treatment of affective disorders

**Topic 5:** Drug treatment of movement disorders (Parkinson's Disease)

##### SECTION 3: CARDIOVASCULAR PHARMACOLOGY

**Topic 6:** Anti-ischemic Drugs

**Topic 7:** Drugs used in the management of heart failure

**Topic 8:** Antihypertensive drugs

##### VARIABILITY IN DRUG RESPONSE

**Topic 9:** Pharmacogenetics

**Topic 10:** Drugs in Pregnancy and Breastfeeding

**Topic 11:** Pharmacology in pediatrics

**Topic 12:** Geriatric pharmacology

##### EVALUATION OF THE EFFECTS OF DRUGS

**Topic 13:** New drug development. Clinical trial

**Topic 14:** Pharmacovigilance and Pharmacoepidemiology

**Topic 15:** Information sources drug

#### Practice Sessions

- Solving pharmacokinetic problems

- Problem-based learning. Resolution and discussion

- Assessment and resolution of clinic cases

- Course portfolio: collected reports relating to the control of the previous practice activities (individual work)

discussion of seminars taught by the teacher. Active participation of the student

- Assessment Vademecum

- Realization of a monographic review work, in small groups, on a suggested topic. Presentation and defense. During the realization of the same, corresponding teachers will have various interviews with the working groups for academic orientation and supervision.

- Discussion of seminars taught by the teacher. Active participation of the student

### 4.4.Course planning and calendar

The practice sessions include Solving pharmacokinetic problems (first week); Problem-based learning. Resolution and discussion (second and third week); Assessment and resolution of clinic cases (fourth and fifth week); Discussion of seminars taught by the teacher. Active participation of the student (sixth week); Assessment Vademecum (seventh and eighth week); Realization of a monographic review work, in small groups, on a suggested topic. Presentation and defense. (ninth week); Discussion of seminars taught by the teacher. Active participation of the student (tenth week).

Exams on dates designated by the Centre (February and June)

**Students who choose the evaluation model of regular class attendance:**

The theory sessions will take place through the teaching of master classes according to the program presented according to the schedule assigned to the beginning of the course

Continued evaluation of the following practical reasons:

- 1) Pharmacokinetics problems.
- 2) Problem-bases learning (PBL): the student will make a report analyzing the case from the pharmacological point of view.
- 3) Clinic cases. study and resolution of different clinical cases applied to the dental clinic
- 4) Seminars.
- 5) Rational selection of drugs: assessment Vademecum
- 6) Group work and presentation: realization of a monographic review work, in small groups, on a suggested topic. Presentation and defense

**Students who do not choose the evaluation model of regular class attendance:**

Overall evaluation according to the official calendar.

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 Faculty of Health and Sports Sciences website and Moodle ([http://](http://http://fccsyd.unizar.es/) <http://fccsyd.unizar.es/>, <http://moodle2.unizar.es>).

#### **4.5. Bibliography and recommended resources**