

## 29350 - Pharmacology for the Odontology Clinic

### Syllabus Information

**Academic Year:** 2019/20

**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 subject aims to be a correspondence between the theoretical sessions and the practice sessions, so that these practice sessions to reinforce and support the contents of the subject, to achieve meaningful learning of the student that you can use in the exercise of their future professional work in the field of odontology.

The theoretical sessions will take place through interactive lecture, explanatory or demonstrative content sessions, using the blackboard and audiovisual material with computer support.

The 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 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

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>)

## 4.2.Learning tasks

**This is a 6 ECTS course organized as follows:**

Lecture

Pratice Session:

- 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 supervisi3n.
- Discussion of seminars taught by the teacher. Active participation of the student

## 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

Calendar of sessions and presentations will take place during the 9th semester of the degree.

The theoretical sessions will take place through the lectures according to the program presented according to the schedule assigned to the beginning of the course.

The practice sessions includes: 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 theoretical 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 seasons:

- 1) Pharmacokinetics problems.
- 2) Problem-based 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 that will realize in the official date (web of the Center)

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 Ciencias de la Salud y del Deporte" website and the Degree website ([http:// http://fccsyd.unizar.es/](http://http://fccsyd.unizar.es/), <http://moodle2.unizar.es>).

#### 4.5. Bibliography and recommended resources