

## **26726 - Diagnostic and Therapeutic Procedures: Pharmacology and Dietetic II**

### **Información del Plan Docente**

<b>Academic Year</b>	2017/18
<b>Faculty / School</b>	104 - Facultad de Medicina
<b>Degree</b>	304 - Degree in Medicine
<b>ECTS</b>	6.0
<b>Year</b>	4
<b>Semester</b>	Second semester
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### **1.General information**

#### **1.1.Introduction**

#### **1.2.Recommendations to take this course**

#### **1.3.Context and importance of this course in the degree**

#### **1.4.Activities and key dates**

### **2.Learning goals**

#### **2.1.Learning goals**

#### **2.2.Importance of learning goals**

### **3.Aims of the course and competences**

#### **3.1.Aims of the course**

#### **3.2.Competences**

### **4.Assessment (1st and 2nd call)**

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

### **5.Methodology, learning tasks, syllabus and resources**

#### **5.1.Methodological overview**

The learning process designed to this subject is based in:

## **26726 - Diagnostic and Therapeutic Procedures: Pharmacology and Dietetic II**

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 the 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 with 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://www.unizar.es/dvirtual.htm> (Anillo Digital Docente).

The subject is structured as follows:

Classroom-based activities are developed through 32 participatory classes and involve 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.

### **5.2.Learning tasks**

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

Theory classes on 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 classes in small groups (0,72 ECTS)

Each group of students will receive practical classes for two weeks.

Student's autonomous work (3,64 ECTS)

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 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 in <http://uprl.unizar.es/estudiantes.html>

## **26726 - Diagnostic and Therapeutic Procedures: Pharmacology and Dietetic II**

### **5.3.Syllabus**

#### **Thematic block 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

#### **Thematic block 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

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

Therapeutic drug monitoring

Treatment of acute intoxications

### Practical Classroom teaching with 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 course
4. Critical analysis of clinical trials
5. Advanced simulation of the drug usage on emergency situations II

### 5.4.Course planning and calendar

**Theoretical class** in big group: three hours each week

Theoretical class will be carried during three days per week from 9:00 until 10 hours and from 10:00 until 11:00 hours

**Practical class** in small groups of students:

10 hours each week and two weeks each group of students

Timetable: from 11.00 until 13:00 hours during all days of the week

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

### 5.5.Bibliography and recommended resources

Zaragoza:

<b>BB</b>	Baños Díez, Josep-Eladi. Principios de farmacología clínica / Josep-Eladi Baños Díez, Magí Farré Albaladejo Barcelona [etc.] : Masson, D.L.2002
<b>BB</b>	Farmacología / H. P. Rang ... [et al.]. - 8ª ed. Ámsterdam ; Barcelona ; Madrid [etc.] : Elsevier, cop. 2016
<b>BB</b>	Farmacología fundamental / autores, Alfonso Velasco Martín ... [et al.] . 1ª ed. en español, [reimp.] Madrid [etc.] : McGraw-Hill Interamericana, D.L. 2004
<b>BB</b>	Farmacología humana / director, Jesús

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

- Flórez ; directores asociados, Juan Antonio Armijo, África Mediavilla . - 6ª ed. Ámsterdam ; Barcelona ; Madrid [etc.] : Elsevier Masson , 2014
- BB** Integrated pharmacology / Clive Page ... [et al.] . - 3rd .ed. Edinburgh [etc.]: Mosby, 2006
- BB** Las bases farmacológicas de la terapéutica [12ª ed.] / editor, Laurence L. Brunton ; editores asociados, Bruce A. Chabner, Björn C. Knollmann ; traducción, Alma Rosa Higuera Murillo... [et al.]. 12ª ed. México D.F. ; Madrid [etc.] : McGraw-Hill Interamericana , cop. 2012
- BB** Lorenzo Velázquez, Benigno. Farmacología básica y clínica / Velázquez ; [colaboradores], P. Lorenzo ... [et al.]. 18ª ed. Madrid [etc.] : Editorial Médica Panamericana, 2012

LA BIBLIOGRAFÍA ACTUALIZADA DE LA ASIGNATURA SE CONSULTA A TRAVÉS DE LA PÁGINA WEB DE LA BIBLIOTECA

<http://psfunizar7.unizar.es/br13/eBuscar.php?tipo=a>