

## 26710 - Physical diagnostic and therapeutic procedures I

### Información del Plan Docente

Academic Year	2016/17
Academic center	104 - Facultad de Medicina 229 - Facultad de Ciencias de la Salud y del Deporte
Degree	304 - Degree in Medicine 305 - Degree in Medicine
ECTS	6.0
Course	2
Period	First semester
Subject Type	Compulsory
Module	---

### 1. Basic info

#### 1.1. Recommendations to take this course

#### 1.2. Activities and key dates for the course

### 2. Initiation

#### 2.1. Learning outcomes that define the subject

#### 2.2. Introduction

### 3. Context and competences

#### 3.1. Goals

#### 3.2. Context and meaning of the subject in the degree

#### 3.3. Competences

#### 3.4. Importance of learning outcomes

### 4. Evaluation

### 5. Activities and resources

#### 5.1. General methodological presentation

#### 5.2. Learning activities

#### 5.3. Program

B1.1 PHYSICAL BASIS OF THE USE OF RADIATIONS IN MEDICINE

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Ionizing radiations.

Radiotherapy.

Radiodiagnosis.

Nuclear medicine.

### B 1.2 PHYSICAL BASIS OF THE USE OF NON IONIZING RADIATIONS IN MEDICINE

Ultrasounds.

Magnetic resonance.

### B 1.3 RADIATION PROTECTION

Risks of ionizing radiations. Radioprotection.

Basic criteria for Radiation Protection in Hospitals.

Monitoring and control methods.

### B 1.4 RADIOTHERAPY

Biological Bases of Radiation Therapy.

Treatment techniques.

### B 1.5 NUCLEAR MEDICINE

Diagnostic aspects of Nuclear Medicine.

Therapeutic aspects of Nuclear Medicine.

## B2. RADIOLOGICAL ANATOMY. SEMIOLOGY

Radiological anatomy of the Brain and Spine.

Radiological anatomy of the eye and the ear.

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Radiological anatomy of nasal and paranasal sinuses, larynx and pharynx.

Radiological anatomy of the tórax. Bronchial endoscopy

Radiological anatomy of the digestive tract (Esophagus, stomach and duodenum, small intestine and colon).

Radiological anatomy of the liver, spleen, biliary tract and pancreas.

Anatomy of the peritoneum and retroperitoneum.

Anatomy of the male urinary and genital apparatus.

Anatomy of the female urinary and genital apparatus.

### B3. PHYSICAL MEDICINE AND REHABILITATION

Concept. Competences.

Impairment, disability, handicap, dependency.

Diagnostic systems in rehabilitation

Human movement: Motor Control. Biomechanical Bases of the normal and pathological movement. Evaluation of movement.

Analysis of posture, balance and gait.

Therapeutic exercise I: Prevention and treatment of disease through exercise. Benefits and risks of physical exercise. Medical assessment prior to prescription exercise.

Therapeutic exercise II: Evaluation of aerobic capacity and aerobic exercise prescription. Evaluation of force muscle and exercise prescription to improve it.

Main physical means in physical medicine and rehabilitation.

Common and general syndromes that can act on the physical medicine and rehabilitation: pathology of immobilization.

### 5.4.Planning and scheduling

### 5.5.Bibliography and recommended resources