

Course Unit	Pharmacotherapy II	Field of study	Pharmacy
Bachelor in	Pharmacy	School	School of Health
Academic Year	2021/2022	Year of study	3
Type	Semestral	Semester	2
Level	1-3	ECTS credits	5.0
Code	9549-644-3204-00-21		
Workload (hours)	135	Contact hours	T - TP 60 PL - TC - S - E - OT 7,5 O -

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Maria Jose Ferreira Gomes Genesio

### Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Identify and describe medicines according to the pharmacotherapeutic classification;
2. Identify pharmacological actions, collateral effects, interactions, careful use and posology of medicines;
3. Explain prescriptions.
4. Assess information provided by the user (symptoms, characteristic of the disease) and establish counseling in the context of drugs, pathologies and symptoms studied

### Prerequisites

Before the course unit the learner is expected to be able to:  
Not applied

### Course contents

Medicines with action in the: endocrine system, digestive system, respiratory system, cardiovascular system, muscle system, genitourinary system. Antineoplastic and immunomodulator agents, Vaccines, smoking treatments.

### Course contents (extended version)

1. Hormones and medicines with action in the endocrine system
  - 1. 1. Hypothalamus and pituitary 1. 2. Supra-renal gland 1. 3. Thyroid and Parathyroid
  - 1. 4. Medicines in calcium metabolism
  - 1. 5. Insulins, antidiabetics and glucagon 1. 6. Sexual hormones
2. Medicines with action in the digestive system
  - 2. 1. Antiacids and antiulcers 2. 2. Gastrokinetics 2. 3. Laxatives
  - 2. 4. Antidiarrhea agents 2. 5. Digestive enzymes substitutes
3. Medicines with action in the respiratory system
  - 3. 1. Antiasmatics 3. 2. Fluidifiants and antitussives 3. 3. Surfactants
4. Hypertension treatments
5. Medicines with action in the muscle skeletal system
6. Medicines with action in the genitourinary system
  - 6. 1. Anti-infectious and urinary anti-septics 6. 2. Agents that modify de urin ph
  - 6. 3. Medicines for uterus
7. Antineoplastics and Immunomodulators
  - 7. 1. New Cytotoxic drugs 7. 2. Interferons
8. Vaccines and others
9. Smoking treatments

### Recommended reading

1. Guimarães, S. , Moura D. , Silva, P. S. (2006) Terapêutica medicamentosa e suas bases farmacológicas. (5ª ed). Porto: Porto Editora
2. Hardman, J. G. , Limbird L. E. , Gilman A. G. (2003) Goodman & Gilman-As Bases Farmacológicas da Terapêutica. (10ª ed). México: Mc Graw Hill
3. Rang, H. P. , Dale M. M. , Ritter J. M. , Flower R. J. , Henderson, G. (2011) RANG & DALE Farmacologia. (7ª ed). Rio de Janeiro: Elsevier
4. Walker, R. , Whittlesea, C. (2007) Clinical pharmacy and therapeutics (4ª ed) UK: Elsevier
5. www. infarmed. pt; www. dgs. pt; www. dgv. pt; www. ema. europa. eu/ema/; www. fda. gov/

### Teaching and learning methods

Theoretical-Practical Learning: Expositive method with participation of the students

### Assessment methods

1. Theoretical and Practical (F) - (Regular, Student Worker) (Final)
  - Intermediate Written Test - 40% (The student must obtain at least 8, 0 values in the average of the written intermediate tests)
  - Intermediate Written Test - 40% (The student must obtain at least 8, 0 values in the average of the written intermediate tests)
  - Work Discussion - 20% (Problem solving and practical cases; Research work on classroom themes)
2. Theoretical and Practical (T-F) - (Student Worker) (Final)
  - Final Written Exam - 100%
3. Theoretical and Practical (R, E) - (Regular, Student Worker) (Supplementary, Special)
  - Final Written Exam - 100%
4. Theoretical and Practical (Erasmus Students) - (Regular, Student Worker) (Final, Supplementary, Special)
  - Development Topics - 100% (A review article in the area of pharmacotherapy II)

### Language of instruction

1. Portuguese
2. Portuguese, with additional English support for foreign students.

## Electronic validation

Maria Jose Ferreira Gomes Genesio	Isabel Cristina Jornalo Freire Pinto	Juliana Almeida de Souza
18-03-2022	19-03-2022	05-04-2022