

## GUÍA DOCENTE ABREVIADA DE LA ASIGNATURA

G1371 - Fundamental Pharmacology

Grado en Medicina

Curso Académico 2021-2022

1. DATOS IDENTIFICATIVOS				
Título/s	Grado en Medicina		Tipología v Curso	Obligatoria. Curso 3
Centro	Facultad de Medicina			
Módulo / materia	MATERIA FARMACOLOGÍA Y NUTRICIÓN PROCEDIMIENTOS DIÁGNÓSTICOS Y TERAPÉUTICOS			
Código y denominación	G1371 - Fundamental Pharmacology			
Créditos ECTS	6	Cuatrimestre	Cuatrimestral (2)	
Web				
Idioma de impartición	Inglés	Forma de impartición	Presencial	

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### 3.1 RESULTADOS DE APRENDIZAJE

- Knowing and understanding a drug is a molecule that interacts on biological targets of major organ systems to induce beneficial effects in the treatment of diseases .
- Integrating, into the general medical knowledge, how a drug may exhibit a dual profile since it may produce therapeutic but also toxic effects.
- Being able to understand and remember the main information about the most important drugs that are used in the treatment of diseases, their mechanisms of action, as well as their therapeutic and toxicological effects .
- Knowing and understanding the role of drugs a key strategy in the treatment of human diseases.

### 4. OBJETIVOS

- To know and understand how the drugs are exerting their effects in the body.
- To know the different factors influencing the movement of the drug through the body and how they reach target tissues to induce biological actions.
- To know the main mechanisms and pharmacological actions of drugs acting on major organ systems.
- To know the mechanisms and manifestations of adverse drugs reactions on major organ systems.
- To know the principles of drug interaction.

## 6. ORGANIZACIÓN DOCENTE

### CONTENIDOS

1	<p>General Pharmacology</p> <p>Introduction to pharmacology: general concepts and its importance in clinical practice.</p> <p>The mechanisms of action of drugs</p> <p>Pharmacodynamics: drug-receptor interaction and its consequences</p> <p>Pharmacokinetic: absorption, distribution, metabolism and elimination of drugs.</p> <p>Adverse effects and interactions.</p>
2	<p>Pharmacology of the Autonomic Nervous System</p> <p>Cholinergic drugs: agonists and antagonists</p> <p>Adrenergic drugs: agonists and antagonists</p> <p>Neuromuscular Blocking Agents</p> <p>Local anaesthetics</p>
3	<p>Pharmacology of chemical mediators: histamine, serotonin, eicosanoids.</p> <p>Non-steroidal anti-inflammatory drugs (NSAIDs)</p>
4	<p>Chemotherapy</p> <p><math>\beta</math>-lactams</p> <p>Aminoglicosides and glycopeptides antibiotics</p> <p>Macrolides</p> <p>Tetracyclines. Lincosamines. Other antibiotics.</p> <p>Quinolones</p> <p>Antifungal drugs</p> <p>Antiviral drugs</p> <p>Antineoplastic drugs</p> <p>Immunosuppressants</p>
5	<p>Pharmacology of the Central Nervous System</p> <p>Opioid Agonists and Antagonists</p> <p>Antidepressants</p> <p>Anti-Parkinson drugs</p> <p>Anticonvulsivants</p> <p>Neuroleptics</p> <p>Anxiolytic drugs</p> <p>General anesthesia: inhalation and intravenous anesthetics</p>
6	<p>Gastrointestinal and Respiratory Pharmacology:</p> <p>Drugs affecting gastric secretion</p> <p>Drugs affecting gastro-intestinal motility</p> <p>Drugs used to treat asthma</p> <p>Antitussives, mucolytics and expectorants</p>
7	<p>Cardiovascular and Homeostasis Pharmacology</p> <p>Drugs affecting blood</p> <p>Diuretics</p> <p>Inotropic drugs</p> <p>Anti-Arrhythmic Drugs</p> <p>Calcium blockers</p> <p>Antianginal and vasodilators drugs</p> <p>Antihyperlipidemic drug</p>

8	<p>Endocrine and Metabolism Pharmacology:          Insuline and Oral hypoglycemic drugs          Drugs affecting thyroid function.          Drugs affecting bone metabolism.          Hypothalamic and Pituitary hormones          Gonadal hormones          Contraceptives</p>
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### 7. MÉTODOS DE LA EVALUACIÓN

Descripción	Tipología	Eval. Final	Recuper.	%
Continous evaluation	Examen escrito	No	No	40,00
Partial evaluation	Examen escrito	No	Sí	18,00
Final exam	Examen escrito	Sí	Sí	42,00
<b>TOTAL</b>				<b>100,00</b>
<b>Observaciones</b>				
<p>If the face-to-face assessment is not allowed, the exams will be carried out "online" using the platforms authorized by the Vice-Rector's Office for Academic Planning and Teaching (Moodle, Skype for Business, Zoom, Socrative, etc.). In the event that the exam includes development questions, an oral evaluation of these may be carried out.</p> <p>Consult the official exam calendar for the academic year published by the Dean of the Center .</p>				
<b>Criterios de evaluación para estudiantes a tiempo parcial</b>				
The form of evaluation of part-time students will be the same as that of the rest				

### 8. BIBLIOGRAFÍA Y MATERIALES DIDÁCTICOS

#### BÁSICA

Goodman & Gilman's. Las Bases Farmacológicas de la Terapéutica, Brunton, L., MCGRAW HILL, 13ª Edición, 2018
Farmacología Humana. Flórez, J, Armijo, JA, Mediavilla A (dirs.), 6 ed. Barcelona: Elsevier, 2014.
Rang y Dale. Farmacología. Ritter, Flower, Henderson, Loke, MacEwan & Rang, 9ª Ed, Elsevier, 2020
Farmacología Básica y Clínica, Pedro Lorenzo Fernández / Alfonso Moreno González / Juan Carlos Leza Cerro / Ignacio Lizasoain Hernández / María Ángeles Moro Sánchez / Antonio Portolés Pérez (eds). 19 ed. Madrid: Editorial Médica Panamericana, 2018.

Esta es la Guía Docente abreviada de la asignatura. Tienes también publicada en la Web la información más detallada de la asignatura en la Guía Docente Completa.