

## GUÍA DOCENTE ABREVIADA DE LA ASIGNATURA

G1371 - Fundamental Pharmacology

Grado en Medicina

Curso Académico 2023-2024

1. DATOS IDENTIFICATIVOS					
Título/s	Grado en Medicina			Tipología y Curso	Obligatoria. Curso 3
Centro	Facultad de Medicina				
Módulo / materia	MATERIA FARMACOLOGÍA Y NUTRICIÓN PROCEDIMIENTOS DIAGNÓSTICOS Y TERAPÉUTICOS				
Código y denominación	G1371 - Fundamental Pharmacology				
Créditos ECTS	6	Cuatrimestre	Cuatrimestral (2)		
Web					
Idioma de impartición	Inglés	English friendly	No	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 glicopeptides antibiotics</p> <p>Macrolides</p> <p>Tetraciclins. 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	30,00
Final exam	Examen escrito	Sí	Sí	30,00
<b>TOTAL</b>				<b>100,00</b>
Observaciones				
If the face-to-face evaluation is not allowed, on-line evaluation methods (including on-line oral interviews) will be carried out using the authorized platforms as recommended by the Vice-Rectorado de Ordenación Académica y Profesorado ,				
Criterios de evaluación para estudiantes a tiempo parcial				
The form of evaluation of part-time students will be the same as that of the rest				

8. BIBLIOGRAFÍA Y MATERIALES DIDÁCTICOS
<b>BÁSICA</b>
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.