

GUÍA DOCENTE ABREVIADA DE LA ASIGNATURA

G1371 - Fundamental Pharmacology

Grado en Medicina

Curso Académico 2023-2024

1. DATOS IDENTIFICATIVOS

Título/s	Grado en Medicina		
Centro	Facultad de Medicina	Tipología v Curso	Obligatoria. Curso 3
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

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

8	Endocrine and Metabolism Pharmacology: Insuline and Oral hypoglycemic drugs Drugs affecting thyroid function. Drugs affecting bone metabolism. Hypothalamic and Pituitary hormones Gonadal hormones Contraceptives
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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
TOTAL				100,00
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

BÁSICA
Goodman & Gilman's. Las Bases Farmacológicas de la Terapéutica, Brunton, L., McGRAW HILL, 13 ^a 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, 9 ^a 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.