

GUÍA DOCENTE ABREVIADA DE LA ASIGNATURA

G1371 - Fundamental Pharmacology

Grado en Medicina

Curso Académico 2020-2021

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	

Departamento	DPTO. FISILOGIA Y FARMACOLOGIA
Profesor responsable	ALVARO MARCELINO DIAZ MARTINEZ
E-mail	alvaro.diaz@unican.es
Número despacho	Facultad de Medicina. Planta: + 2. DESPACHO (2120)
Otros profesores	FRANCISCO JAVIER AYESTA AYESTA CARMEN MARTINEZ-CUE PESINI MONICA TRAMULLAS FERNANDEZ ANA VICTORIA VILLAR RAMOS MARIA FUENCISLA PILAR CUELLAR

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>β-lactams</p> <p>Aminoglicosides and glycopeptides 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>
---	---

7. MÉTODOS DE LA EVALUACIÓN

Descripción	Tipología	Eval. Final	Recuper.	%
Continous evaluation	Examen escrito	No	No	25,00
Evaluation of the learning acquired in the laboratory practices	Examen escrito	Sí	Sí	15,00
Final exam	Examen escrito	Sí	Sí	60,00
TOTAL				100,00
Observaciones				
<p>A) Continuous evaluation with no second-chance examination (25% in the final grade of the subject). Throughout the course, in the context of laboratory practices, questionnaires will be conducted on all the theoretical content covered in each practice. The exams may include tests and short written questions.</p> <p>B) Evaluation of the learning acquired in the laboratory practices with a second-chance examination in the extraordinary call (15% in the final grade of the subject). It will be carried out through (i) assessment by the teacher of the participation of the students during the practices; (ii) written exam with test questions and/or short written questions, which will take place the same day as the final exam. Attendance and participation in practices are mandatory. The third absence without official justification will mean the student's failure in the activity and in the subject.</p> <p>C) Final exam with a second-chance examination in the extraordinary call (60% in the final grade of the subject). To pass the course, it is essential to obtain a grade of 5 points in the final exam. It will take place in June (ordinary call) and in July (extraordinary call). This exam will have two parts: (i) Test type questionnaire to which a random correction will be applied and in which it is mandatory to answer all the questions; (ii) short written questions. The final exam mark will be the arithmetic mean of the marks obtained in each of the parts. A grade equal to or less than 3 points in any of these sections implies the failure of the final exam, regardless of the grade obtained in the other section.</p> <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 2020-2021 academic year published by the Dean of the Center.</p> <p>The form of evaluation of part-time students will be the same as that of the rest</p>				
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

Rang Dale's Pharmacology. Rang, Humphrey P. / Dale, Maureen M. / Ritter, James M. / Flower, Rod. 8th edition, 2015, Elsevier Churchill Livingstone.

Lippincott's Illustrated Reviews: Pharmacology. Richard A. Harvey , Michelle A. Clark , Richard Finkel , Jose A. Rey , Karen Whalen. Sixth edition, 2015. Lippincott Williams & Wilkins

Farmacología Humana. Flórez , J/Armijo Simón, J/Mediavilla Martínez, Africa. 6th edition, 2014, Elsevier Masson.

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.