



Universitat de Lleida

DEGREE CURRICULUM
PSYCHOPHARMACOLOGY

Coordination: BOIX TORRAS, JACINT

Academic year 2019-20

Subject's general information

Subject name	PSYCHOPHARMACOLOGY			
Code	102921			
Semester	1st Q(SEMESTER) CONTINUED EVALUATION			
Typology	Degree	Course	Character	Modality
	Bachelor's Degree in Psychology	4	OPTIONAL	Attendance-based
Course number of credits (ECTS)	6			
Type of activity, credits, and groups	Activity type	PRAULA		TEORIA
	Number of credits	1.8		4.2
	Number of groups	1		1
Coordination	BOIX TORRAS, JACINT			
Department	EXPERIMENTAL MEDICINE			
Important information on data processing	Consult this link for more information.			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
BOIX TORRAS, JACINT	jacint.boix@udl.cat	2	
RAMOS PERDIGUES, SONIA	sonia.ramos@udl.cat	3	
RIBAS FORTUNY, JUDIT	judit.ribas@udl.cat	1	

Subject's extra information

A third teacher will be responsible for block 3 of the subject, its nomination pending. This fact may involve variations in the contents and the evaluation process, which will be announced with sufficient anticipation and appropriately along the course.

Learning objectives

Pharmacology has a language and a body of general knowledge that are specific to it and that the student must acquire. In addition, the student must know the groups of psychotropic drugs and their use as medicines, toxins and addiction drugs. The reasoning of the pharmacokinetics and pharmacodynamics aspects is substantial to assimilate the clinical and social aspects that explain the use of psychotropic drugs.

Competences

1. To acquire the basic notions of pharmacology (pharmacokinetics and pharmacodynamics) in order to understand the criteria that determine the medical prescription of psychotropic drugs.
2. To know how to position oneself professionally in the context of drug therapies for mental diseases.
3. To master a basic conceptual framework and language that allows the interpretation of the "prospectus" annexed to a psychotropic drug.
4. To master a basic conceptual framework and language that allows a fluent dialogue with the prescribing doctor of psychotropic drugs.
5. To know and identify groups of psychotropic drugs and their uses as drugs, toxins and addiction drugs.
6. To identify adverse reactions for psychotropic drugs.
7. To understand the biological basis of pharmacological dependency phenomena.
8. To understand the bio-psychosocial model in the phenomenon of drug addiction.
9. To know how to act professionally in situations of addiction.

Subject contents

Block 1: Generalities of Pharmacology

Topic 1: Pharmacology, Clinical Pharmacology and the world of drugs.

Topic 2: Descriptive and quantitative pharmacokinetics.

Topic 3: Pharmacodynamics and drug interactions.

Block 2: Basic Psychopharmacology

Topic 4: Monoaminergic agonist pharmacology.

Topic 5: Monoaminergic antagonist pharmacology.

Topic 6: Cholinergic pharmacology.

Topic 7: Pharmacology of excitatory and inhibitory neurotransmitters.

Topic 8: Pharmacology of opiates and cannabinoids.

Block 3: Clinical Psychopharmacology

Topic 9: Psychotropic drugs: Use of anxiolytic, antidepressant and antipsychotic drugs.

Topic 10: The clinical and toxicological context of opiates and cannabinoids.

Topic 11: Clinical toxicology of alcohol, tobacco, cocaine and synthetic drugs. Characterization of the personality of drug addicts.

Topic 12: The role of the psychologist in clinical psychopharmacology.

Methodology

1. Regular lectures.
2. Discussion seminars based on the student analysis and autonomous work on drug summaries provided by the professor.
3. Management of information (reading, searching, selection, etc.).
4. Performance of dossiers, memories or practical activities.

Development plan

The official calendar/schedule of the course will be followed. With sufficient time for the proper development of the subject, the evaluation sessions or extraordinary activities to be carried out, the dates of its realization, etc. will be announced opportunely in class and by means of the virtual campus.

Evaluation

1. A first examination will be carried out on the Generalities (topics 1-3) which, by its approach, can be defined as a problem solving exercise (14 questions). It will generate 28% of the final mark of the subject and, therefore, it will be only once performed.
2. An evaluation will be made based on the realization of practical activities, dossiers or memories (still to be determined), which will generate 22% of the final mark of the subject. It will be only once performed.
3. An examination (40 questions) based on the theory will be carried out (topics 4-12). It will generate 50% of the final mark of the subject. There will be a second chance to take and pass the exam, if initially is failed.
4. The threshold to pass the subject is placed at a mark of 5. This means a 50%, adding up the three evaluations carried out. There is no minimum mark in any of the 3 evaluation acts that can be incompatible

with passing the subject.

5. In all the exams and particularly in the theoretical one, if the answers in blank exceed 50% of all the questions of the exam, it will imply a null exam, in other words a final NP (Not Presented) mark.
6. The exams will be objective and test type. Each question will display 4 options of which only one is correct. The blank answer adds 0 points. The wrong answer subtracts $\frac{1}{4}$ of the value assigned to the question.
7. In the final mark, a correction coefficient can be added. The calculation of this coefficient will be explained on the first day of the course. This coefficient will be added only to students who surpass the mark of 6 (60%) in the theoretical exam. At the discretion of the professors, the coefficient can be modified or not added if aberrant results are obtained.

Bibliography

Books:

- Farmacología. Rang, H.P. et al. (8th edition), Elsevier España S.A., 2016
- Farmacología humana. Florez J. et al. (6th ed.), Elsevier Masson, 2013

Journals:

- Annual Review of Pharmacology and Toxicology (<http://arjournals.annualreviews.org/loi/pharmtox>)
- Trends in Pharmacological Sciences (TIPS), Cell press (<http://www.cell.com/trends/pharmacological-sciences/home>)

Internet (Official Organizations):

- Agencia Española del Medicamento, Ministerio de Sanidad (<https://www.aemps.gob.es/>)
- European Medicines Agency (<http://www.ema.europa.eu/ema/>)
- U.S. Food and Drug Administration (<http://www.fda.gov/default.htm>)

Internet (Other addresses):

- Fundació Institut Català de Farmacologia (<http://www.icf.uab.es/>)
- Medline plus (<http://medlineplus.gov/spanish/>)
- Rx List, the internet drug index (<http://www.rxlist.com/>)
- Vademecum online (<http://www.vademecum.es/>)