

26726 - Diagnostic and Therapeutic Procedures: Pharmacology and Dietetic II

Syllabus Information

Academic year: 2023/24

Subject: 26726 - Diagnostic and Therapeutic Procedures: Pharmacology and Dietetic II

Faculty / School: 104 - Facultad de Medicina

Degree: 304 - Degree in Medicine

ECTS: 6.0

Year: 4

Semester: Second semester

Subject type: Compulsory

Module:

1. General information

The main objective of the subject is that students complete their training by providing basic scientific knowledge on the effects of drugs and their therapeutic use in different diseases, in their diagnosis, prevention and treatment. Emphasis is placed on the reasoned selection of the most efficient and safe drugs, as well as the most appropriate therapeutic strategies for each patient. It is also intended that they acquire the methodological, ethical and legal tools for the reasoned prescription of drugs and their individual dosage adjustment.

This approach is aligned with the following Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>), so that the acquisition of the learning results of the subject will contribute to the achievement of Goals 3, 4 and 12.

2. Learning results

1. Elaborate appropriate prescriptions for the most prevalent pathologies in our environment and adequately fill out the medical prescription and patient instructions.
2. Perform pharmacological anamnesis to detect possible adverse effects of medications and complete an adverse reaction report.
3. Adequately request plasma drug levels.
4. Critically evaluate clinical trials and other pharmacological research studies from a methodological and ethical point of view.
5. Correctly assess the factors that can intervene in the production of an anomalous pharmacological response in order to optimize therapy.

They will allow the student to know the main characteristics of the different pharmacological groups, so that they can rationally select the most appropriate drugs for each pathology and characteristics of each patient.

They will also be able to search for the appropriate sources of information on drugs and update their knowledge, given the constant evolution of this discipline.

3. Syllabus

THEMATIC BLOCK 1.

Pharmacology of the Endocrine System
Cardiovascular and Renal Pharmacology
Metabolism Pharmacology
Pharmacology of the Respiratory System
Pharmacology of the Digestive System
Dietetics and nutrition

THEMATIC BLOCK 2.

Clinical Pharmacology:

- Rational drug selection and use
- Pharmacology research
- Pharmacoepidemiology. Pharmacovigilance. Pharmacoeconomics
- Sociological aspects
- Use of drugs in special situations
- Drug monitoring. Intoxications.

PRACTICES:

- . Emergency First Aid Kit
- . Training on case studies and problem solving in teams
- . Reasoned drug selection: Pharmaco-therapeutic promotion congress.
- . Critical analysis of the Clinical Trial. Pharmacovigilance.
- . Advanced simulation (drugs in emergency situations II)

4. Academic activities

Master class: 32 hours

Expository, explanatory and participative sessions on the contents of the subject

Problem solving and case studies: 11 hours

Critical analysis of the Clinical Trial. Pharmacovigilance.

Training on case studies and problem solving in teams

Reasoned drug selection: Congress

Laboratory practices: 15 hours

Advanced simulation (drugs in emergency situations II)

Emergency First Aid Kit

Teaching and other activities: 2 hours

Personal study: 87 hours

Assessment tests. 3 hours

Attendance to the practices is mandatory.

The student will be informed of the possible risks during the practices and will sign a commitment to comply with the safety regulations <http://uprl.unizar.es/estudiantes.html>

5. Assessment system

Continuous Evaluation of Practices

In **each module** there will be a multiple-choice test and/or rubric in the appropriate content and will represent **10%** of the final grade . If they are not passed or performed, the practices evaluation included in the global test must be taken.

Multiple-choice tests: 10 questions, with 4 answers, only one valid and no negative points are considered. The grade of 5, required to pass the test, will be obtained with 70% of correct answers

Attendance to practices is mandatory and their evaluation represents **20%** of the final grade

Ordinary Global Test:

Theoretical contents: 40 multiple choice questions, with 4 answers, only one will be valid. No negative points are considered. The grade ranges from 0 to 10, considering the grade of 5 required to pass the test, will be obtained with 70% of correct answers. It represents **80%** of the final grade.

Practical contents: multiple-choice exam of the corresponding module and/or rubric, with the aforementioned characteristics and weighting in continuous evaluation: **20%** of the final grade

- Final grade: it is essential to pass the theoretical and practical exams.

- Practices grade: saved until the extraordinary call for exams

Extraordinary Global Test:

The evaluation of the theory and practical contents will be carried out with the criteria and weighting described in the ordinary global test.