Universidad Zaragoza

Academic Year: 2025/26

32318 - General Pathology I

Teaching Plan Information

Academic year: 2025/26
Subject: 32318 - General Pathology I
Faculty / School: 104 - Facultad de Medicina
229 - Facultad de Ciencias de la Salud y del Deporte
Degree: 649 - Degree in Medicine
650 - Degree in Medicine
Ambit: Medicine and dentistry
Tipo de enseñanza: Presencial
ECTS: 6.0
Year: 2
Semester: Second semester
Subject type: Compulsory
Module:

1. General information

It is the first contact of the student with the human clinic to acquire the knowledge for the later learning of the rest of the subjects. This subject provides the student with the necessary medical language to perform the medical act and the resources to acquire the skills for the collection of signs and symptoms and to develop clinical reasoning.

The objectives are: the study of the causes and mechanisms that produce the disease (etiopathogenesis) and of the functional alterations that occur in the different organs and systems as a consequence of the action of the pathogenic agent and the organic response (physiopathology); the acquisition of skills for the collection of signs and symptoms (propaedeutics); learning to assess the meaning of the symptoms and signs (semiology); and introduction to clinical reasoning.

2. Learning results

- CON-3: Recognize one's own limitations and the need to maintain and update professional skills, with particular emphasis on learning autonomously about new knowledge and techniques and a commitment to quality.
- CON-6: Understand and recognize the effects, mechanisms, and manifestations of illness on the structure and function of the human body.
- CON-7: Understand and recognize the causative agents and risk factors that determine health states and the development of disease.
- CON-9: Understand the principles of action, indications, and effectiveness of therapeutic interventions, based on available scientific evidence.

- HA-04: Obtain and document a comprehensive patient history, containing all relevant information.
- HA-05: Perform a physical examination and a mental health assessment.
- HA-06: Demonstrate the ability to formulate an initial diagnostic judgment and establish a reasoned diagnostic strategy.
- HA-07: Recognize and manage situations that pose an immediate threat to life and those requiring urgent attention.
- HA-08: Establish the diagnosis, prognosis, and treatment, applying principles based on the best available information and within safe clinical conditions.
- HA-09: Indicate the most appropriate therapies for prevalent acute and chronic conditions, as well as for patients in the terminal phase.
- HA-10: Propose and recommend appropriate preventive measures for each clinical situation.
- HA-12: Listen attentively, obtain, and synthesize relevant information about the problems experienced by the patient and understand the content of this information.
- HA-13: Prepare clear and understandable patient histories and other medical records for third parties.

- CE-62: Know how to perform a comprehensive anamnesis (patient history) centered on the patient and oriented toward various pathologies, interpreting its significance.
- CE-63: Know how to perform a systematic physical examination by system/organ and a psychopathological examination, interpreting its significance.
- CE-64: Know how to assess variations in clinical parameters across different ages.
- CE-66: Develop a course of action focused on the patient's needs and the needs of the family and social environment, consistent with the patient’s symptoms and signs.
- CE-82: Know the primary indications for electrophysiological techniques (ECG, EEG, EMG, and others).

- CE-92: Know how to perform and interpret an electrocardiogram and an electroencephalogram.

3. Syllabus

Theory: - Introduction to Pathology: General ethology. Nutritional disorders. Obesity. General malignant syndrome. Paraneoplastic syndrome. Physiopathology of the circulatory, respiratory, digestive, haematological and renal systems. Pathophysiology of acid-base balance and of sodium and potassium metabolism.

Seminars: weight loss, heart murmur, dyspnoea, chest pain, haemoptysis, melena, jaundice, ascites, polyuria and oedema.

Workshops: clinical history, general, chest, and abdominal examination, ECG alterations.

4. Academic activities

The program offered to the student to help them achieve the expected results includes the following activities :

Classroom teaching 40% 2.40 ECTS (60 hours):

- Large groups: 1.20 ECTS (30 hours) 30 theoretical classes for the development of the theoretical agenda.
- Small groups: 1.20 ECTS (30 hours) for the development and discussion of the seminars and propedeutics workshops
    - Seminars: 14 hours, consisting in clinical problem solving and training on clinical reasoning.
    - Workshops: 16 hours, in which the student learns propaedeutics: clinical history, physical examination and interpretation of normal and pathological electrocardiogram.
    - Tutoring: Some of the previously described sessions will include tutorization and each teacher will tutor the students in their assigned group.

Non-face-to-face teaching 60% 3.60 ECTS (90 hours)

5. Assessment system

The student must demonstrate:

1: The knowledge of the causes, the mechanisms that produce the disease, its physiopathological alterations and the way it manifests. They will be evaluated in writing in a final exam in the exam calls established by the institution according to the academic calendar, through questions to develop the theoretical agenda, and the interpretation of ECG tracings and analytics. The grade will be given from 0 to 10 and it will represent 45% of the final grade. A part or the totality of this evaluation may be performed with multiple choice test questions, which will be announced during the course with appropriate anticipation.

2: The ability to make a syndromic diagnosis from the clinical history and complementary tests is evaluated by solving practical cases. The qualification will be graded from 0 to 10 and it will account for 45% of the final grade. A part or the totality of this evaluation may be performed with multiple choice test questions, which will be announced during the course with appropriate anticipation.

3: Clinical reasoning skills will be assessed through active participation, spontaneous or at the request of the teacher, in the Seminars and Workshops of the subject. The evaluation will be graded from 0 to 10 and it will represent 10% of the final grade. The assessment will be recorded by the teachers. Attendance to small group activities (workshops and seminars) is mandatory. At least 80% attendance is required to pass the subject. It is a requirement to pass parts 1 and 2 to take the marks of this section into account.

6. Sustainable Development Goals

3 - Good Health and Well-being
4 - Quality Education