

**COURSE DATA****Data Subject**

Code	34482
Name	Pathology of the digestive system
Cycle	Grade
ECTS Credits	6.0
Academic year	2022 - 2023

Study (s)

Degree	Center	Acad. year	Period
1204 - Degree in Medicine	Faculty of Medicine and Odontology	4	Second term

Subject-matter

Degree	Subject-matter	Character
1204 - Degree in Medicine	14 - Human clinical training III	Obligatory

Coordination

Name	Department
BERENGUER HAYM, MARINA CARMEN	260 - Medicine
ESPI MACIAS, ALEJANDRO	40 - Surgery

SUMMARY

The subject *Pathology of the Digestive System* is shared with the Department of Medicine and Surgery, and it is included in the module *Human Clinical Formation*. The general objective of its teaching is the formation of professionals with theoretical and practical knowledge that make the student able to develop an integral, healing, preventing and promoting medicine of health in the area of the digestive pathology.

Due to its attending nature, the processes involved in the pathogenesis of the diseases will be analysed, highlighting the criteria and diagnostic methods used in the study of the natural history of the diseases that affect it and of the indicated treatment to each of these diseases. That is the reason why the knowledge of the main diagnostic techniques and the practical contents, highlighting the medical practice, are of great importance during the learning stage.



PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

OUTCOMES

1204 - Degree in Medicine

- Obtain and elaborate a clinical history with relevant information.
- Perform a physical examination and a mental health assessment.
- Have the capacity to make an initial diagnosis and establish a reasonable strategy of diagnosis.
- Establish the diagnosis, prognosis and treatment, applying principles based on the best information available and on conditions of clinical safety.
- Indicate the most accurate therapy in acute and chronic processes prevailing, as well as for terminally ill patients.
- Plan and propose appropriate preventive measures for each clinical situation.
- Acquire proper clinical experience in hospitals, health care centres and other health institutions, under supervision, as well as basic knowledge of clinical management focused on the patient and the correct use of tests, medicines and other resources available in the health care system.
- Know how to use the sources of clinical and biomedical information available, and value them critically in order to obtain, organise, interpret and communicate scientific and sanitary information.
- Know how to use IT in clinical, therapeutic and preventive activities, and those of research.
- Understand the importance and the limitations of scientific thinking in the study, prevention and management of diseases.
- Proper organisation and planning of the workload and timing in professional activities.
- Team-working skills and engaging with other people in the same line of work or different.
- Criticism and self-criticism skills.
- Capacity for communicating with professional circles from other domains.
- Acknowledge diversity and multiculturality.
- Consideration of ethics as a fundamental value in the professional practise.
- Working capacity to function in an international context.
- Recognises, diagnoses, and guides the management of the main pathologies affecting the digestive system.



- Knows how to perform a complete anamnesis, focused on the patient and orientated to various pathologies, interpreting its meaning.
- Knows how to evaluate modifications in clinical parameters at different ages.

LEARNING OUTCOMES

The knowledge, clinical attitudes and scientific language acquired in this subject will allow the student to recognise and understand the pathology of the digestive system with the aim of being able to diagnose and guide the treatment of the main clinical entities, as well as to communicate with the patient and his/her environment, to understand the process of the disease individually and to perform a proper therapy in the frame of the General Medicine.

Theoretical and practical content will be taught and their learning must have as a result the acquisition of the following competencies:

- Acquisition of the necessary skills to perform a diagnostic judgment and to establish a differential diagnosis regarding the digestive system pathology.
- Knowing the value of the different explorations and complementary diagnostic tests in digestive pathology.
- Knowing the basic management about the treatment of the digestive diseases, according to the best evidence available.
- Evaluation of the patient's seriousness and acquisition of the capacity to structure the information that must be delivered to the patient and family.
- Identification of the complex pathology that has to be delivered to a specialized centre.

DESCRIPTION OF CONTENTS

0. Theoretical teaching

All the theoretical teaching will be uploaded in the Aula Virtual. An active participative methodology will be used with student's questions and explanation by the teacher.

1. Pathology related with the acid-gastric secretion (three classes)

- 1.1 Gastroesophageal reflux disease.
- 1.2 Peptic ulcer and its complications (except upper gastrointestinal bleeding).
- 1.3 Surgical indications, pathophysiological bases of surgical techniques and consequences, if any, of surgical treatment



2. Intestinal Inflammatory disease (three classes)

- 2.1. Concept and classification. Ulcerative Colitis
- 2.2. Crohn's disease
- 2.3. Surgical indications and bases of the most frequent surgical techniques in inflammatory bowel disease.

3. Gastroenterological motor and functional disorders (two classes)

- 3.1. Functional alterations of the upper digestive tract. Oropharyngeal dysphagia.
- 3.2. Functional alterations of the lower digestive tract. Irritable bowel syndrome. Chronic constipation.

4. Cancers of the esophagus-gastro-intestinal tract (three classes)

- 4.1. Etiology and incidence of cáncer of the esophagus and stomach. Anatomy Pathology. Clinical characteristics and diagnosis of esophageal and gastric cancer. Surgical treatment of esophageal and gastric cancer.
- 4.2. Polyps of the colon and rectum: classification, incidence and etiology. Pathology anatomy and relationship with colorectal cancer. Diagnosis and treatment. Hereditary Familial Polyposis.
- 4.3. Colorectal Cancer: Incidence, Etiology, Pathology, and staging. Diagnosis of right, left and rectal colon cancer. Diagnosis of colon cancer obstruction. Surgical treatment of elective and urgent colon cancer. Surgical treatment of rectal cancer. Multidisciplinary treatment of colorectal cancer according to stage anal cancer.

5. Adult celiac disease (one class)

- Fundamentals of etiology
- Clinical expressiveness and syndromic diagnosis
- Diagnostic assessment
- Medical treatments

6. Appendicitis and diverticulitis (one class)

- Concept and most frequent causes.
- Generic clinical characteristics and physical examination data.
- Acute appendicitis and its most frequent complications.
- Acute diverticulitis and its most frequent complications.



7. Benign rectoanal pathology (one class)

- Surgical anatomy of the anal-rectal area. Abscesses and anal fistulas.
- Classification of the abscesses and fistulas. Diagnosis and treatment. Pilonidal cyst.

8. Acute and chronic hepatitis (two classes)

- 8.1. Acute hepatitis.
- 8.2. Chronic hepatitis.

9. Liver disease (two classes)

- 9.1. Alcoholic and metabolic liver disease.
- 9.2. Hepatic diseases with genetic and autoimmune bases.

10. Hepatic Cirrhosis (two classes)

- 10.1. Liver cirrhosis, portal hypertension
- 10.2. Complications of liver cirrhosis.

11. Biliary lithiasis (one class)

- Lithogenesis.
- Cholelithiasis: clinical manifestations and diagnosis.
- Choledolithiasis: clinical manifestations and diagnosis.
- Complications of gallstones: cholecystitis and cholangitis.
- Medical treatment of gallstones and their complications.
- Surgical treatment of gallstones and their complications.

12. Acute and chronic pancreatitis (one class)

- Concept, etiology, pathogenic mechanisms and pathophysiology of acute pancreatitis.
- Clinical manifestations and diagnosis of acute pancreatitis.
- Evolution and prognostic criteria in acute pancreatitis.
- Treatment of acute pancreatitis.
- Concept, etiology, pathogenic mechanisms and pathophysiology of chronic pancreatitis.
- Clinical manifestations and diagnosis of chronic pancreatitis.
- Evolution and therapeutic guidelines in chronic pancreatitis.
- Surgical indications in acute and chronic pancreatitis.
- Bases of surgical techniques in acute and chronic pancreatitis.
- Sequels of the surgical therapeutic in the acute and chronic pancreatitis



13. Bilio-pancratic and y hepatic tumors (three classes)

13.1. Bilio-pancreatic tumors

Anatomical memory
Clinical scenaris
Neoplasm of gallbladder and bili ducts
Pancreatic cancer

13.2. Hepatocarcinoma

13.3. Benign liver tumors and liver metastases

Space-occupying injury in the liver: segmental anatomical location
Benign liver tumors: classification and clinical relevance. Treatment.
Liver metastases: importance and multidisciplinary treatment in the context of digestive cáncer disease

14. PRACTICES

SEMINAR PRACTICES

1. Etiology and diagnostic and therapeutic management of obstructive ileus
2. Functional/complementary explorations in the digestive system
3. Medical treatment of acid-related disease
4. Diagnostic and therapeutic management of abdominal trauma
5. Medical treatment of chronic inflammatory bowel disease (IBD)
6. Acute abdomen. Clinical cases
7. Benign anorectal pathology
8. Abdominal Wall pathology
9. Upper gastrointestinal bleeding
10. Viral hepatitis A, C and E
11. Hepatitis B virus
12. Liver disease due to drugs and herbal products
13. Management of the patient with liver cirrhosis
14. Management of acute pancreatitis

CLINICAL PRACTICES

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Seminars	26,00	100
Theory classes	26,00	100
Clinical practice	23,01	100
Attendance at events and external activities	2,00	0
Development of group work	11,00	0
Study and independent work	35,00	0
Readings supplementary material	8,00	0
Preparation of practical classes and problem	19,00	0
TOTAL	150,01	

TEACHING METHODOLOGY

In the **theoretical lessons**, the teacher will expose, through master class, the most important concepts and contents in a structured way, to obtain the knowledge and skills that the students must acquire. The students' participation will be encouraged. The teaching materials used by the professor will be available, if he considers it appropriate, through the electronic resource Aula Virtual.

Classroom practices: participative **seminars**, made with the material provided by the professor and with the students' active participation in their exposition.

Clinical practices: students' clinical practices in sanitary services in the different university hospitals, primary health centres, mental health centres, public health areas, in order to learn how to perform an anamnesis and basic clinical explorations, with a first contact with patients, supervised by the professor.

EVALUATION

Theoretical evaluation: represents 50% of the final grade. It will be carried out by means of a written tests that will deal with the contents of the theoretical program and will have the objective of evaluating the acquisition of knowledge. It will be done through 50 multiple choice questions with a single valid answer and with the following assessment; correct 1 point, white 0 points and wrong -0,33 points.

Practical Evaluation: represents 40% the final grade. It will be done by taking a test that assesses the adquisition of skills related to general and specific skills.

Continuous evaluation seminars: it will represent 10% of the final grade that the student will obtain based on attendance at the seminars. For each lack of attendance at the seminars, 0.333 points will be subtracted, so that three absences will mean the loss of 10% of the final grade. Attendance control will be carried out by identifying the student and signing each seminar.



The evaluation of the theoretical and practical contents will be carried out on the same day by means of a test of 90 questions (50 theoretical evaluation and 40 practical evaluation) and the final grade will be the whole (sum of both evaluations plus the score based on the continuous evaluation of the seminars. The maximum mark will be 10 and the approved 5.

The content of the test for the theoretical and practical evaluation (90% of the final mark) will be the same for all the groups of the same subject.

The content of the continuous evaluation of the seminars will be the same for each participatory group.

In order to access to an advance on the call of this subject, it is a requirement that the student has coursed all his/her practices.

Attendance to practical sessions is mandatory. Unjustified non-attendance to more than 20% of the sessions will make it impossible to pass the course.

Students are reminded of the importance of carrying out evaluation surveys on all the teaching staff of the degree subjects.

REFERENCES

Basic

- Farreras/Rozman. Medicina Interna. 19 ed. ELSEVIER. 2020
 - Sleisenger y Fordtran. Enfermedades digestivas y hepáticas: Fisiopatología, diagnóstico y tratamiento, 11ed. ELSEVIER. 2021
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