



Information about the subject

Degree: Bachelor of Science Degree in Medicine

Faculty: Faculty of Medicine and Health Sciences

Code: 340405 **Name:** Medicine and Surgery of the Digestive System

Credits: 6,00 **ECTS Year:** 4 **Semester:** 1

Module: Human Clinical Training

Subject Matter: Human Pathology **Type:** Compulsory

Field of knowledge: Health Science

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Universidad
**Católica de
Valencia**
San Vicente Mártir

Course guide

Year 2023/2024

340405 - Medicine and Surgery of the Digestive System

344B

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Module organization

Human Clinical Training

Subject Matter	ECTS	Subject	ECTS	Year/semester
Human pathology basis	6,00	General Pathology I	3,00	3/1
		General Pathology II: Analysis by Problems	3,00	3/2
Psychology	6,00	Medical Psychology and Psychopathology	6,00	3/2
Human Pathology	102,00	Clinical Allergology and Immunology	3,00	3/2
		Dermatology	6,00	5/1
		Endocrinology and Nutrition	6,00	5/2
		Haematology	3,00	3/2
		Infectious Diseases	3,00	3/2
		Medical Oncology and Radiotherapy	3,00	5/2
		Medicine and Surgery of the Cardiocirculatory System	9,00	4/2
		Medicine and Surgery of the Digestive System	6,00	4/1
		Medicine and Surgery of the Musculoskeletal System	9,00	4/2
		Medicine and Surgery of the Nephro-Urological System	6,00	5/1



Human Pathology	Medicine and Surgery of the Nervous System	9,00	5/2
	Medicine and Surgery of the Respiratory System	6,00	3/2
	Obstetrics and Gynaecology	9,00	4/2
	Ophthalmology	3,00	3/2
	Otorhinolaryngology	3,00	4/2
	Paediatrics	9,00	5/2
	Palliative Medicine	3,00	6/1
	Psychiatry	3,00	5/1
	Rheumatology	3,00	4/2

Recommended knowledge

The subject of Medicine and Surgery of the Digestive System will be carried out by the Department of Surgery and Medicine. Throughout it, the most important aspects related to diseases of the digestive system will be addressed, in order for students to achieve the following objectives:

Acquire theoretical knowledge about the essential epidemiological, etiological and pathophysiological aspects of diseases of the digestive system. The student must be able to know the clinical manifestations of the main diseases and digestive syndromes. Know and prioritize diagnostic methods and complementary tests in digestive pathology. Being able to establish a differential diagnosis and a therapeutic and prognostic approach. Evaluate the seriousness of the patient and the information to transmit to the patient and family. Identify the pathology that should be sent to a specialized center.



Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 Properly perform a medical history oriented towards digestive pathology: personal and family history (medical and surgical) of the patient (not forgetting the cancer history), description of the patient's symptoms, their interpretation (know how to differentiate between normal and pathological signs of digestive functioning) and systematic research of other possible symptoms not initially expressed by the patient.
- R2 Perform a correct physical examination, especially aimed at the assessment of gastroenterological and hepatic pathology. Knowing how to perform an abdominal scan that includes inspection, auscultation and palpation, distinguishing between normal abdominal and pathological examination (bloating, pain, presence of masses, visceromegalys, absence or alteration of intestinal noises...). Also know how to identify and explore the main herniary points of the abdominal wall. Be able to perform a basic anorectal examination based on inspection and rectal touch.
- R3 Being able to develop a diagnostic judgment based on anamnesis and physical examination data
- R4 Know the indication of the application for laboratory studies, general and / or specific of digestive pathology, as well as its interpretation. Know how to interpret data from: blood count, basic biochemistry, liver and pancreatic enzymes, bilirubin, hepatotropic virus serology, Helicobacter pylori screening study, stool-hidden blood, etc..
- R5 Know the most common indications, contraindications and possible complications of diagnostic and therapeutic endoscopic scans (fibrogastroscopy, fibrocolonoscopy, endoscopic capsule, echoendoscopy and endoscopic retrograde cholangiography).
- R6 Being able to interpret a simple x-ray of the abdomen, especially when it comes to the intestinal luminogram.
- R7 You are familiar with the digestive surgery operating room: boarding pathways (open and minimally invasive), types of incision depending on them, use of prosthetics and their possible complications. He is also familiar with basic postoperative care and major postoperative complications (intraabdominal and wound).
- R8 It is able to relate appropriately to the patient and their families, using simple language adapted to the sociocultural level of each case.



Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		Weighting			
		1	2	3	4
CB1	Students have demonstrated to possess and understand knowledge in a study area that starts from the base of the general secondary education, and is usually found at a level that, while supported by advanced textbooks, also includes some aspects that involve knowledge from the forefront of their field of study				X
CB2	Students know how to apply their knowledge to their job or vocation in a professional way and possess the competences that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study				X
CB3	Students have the ability to collect and interpret relevant data (usually within their area of study) to make judgments that include a reflection on relevant social, scientific or ethical topics				X
CB4	Students can pass on information, ideas, problems and solutions to both a specialized and non-specialized audience				X
CB5	Students have developed the learning skills needed to undertake further studies with a high degree of autonomy				X
GENERAL		Weighting			
		1	2	3	4
CG4	Developing professional practice with respect to patient autonomy, beliefs and culture			X	
CG5	Recognizing the limitations themselves and the need to maintain and update their professional competence, giving special importance to the autonomous learning of new knowledge and techniques and to the motivation for quality			X	
CG6	Developing professional practice with respect for other health professionals, acquiring teamwork skills				X



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CG29	Knowing national and international health organizations and the environments and conditions of different health systems	X			
CG33	Maintaining and using records with patient information for further analysis, preserving data confidentiality	X			
CG36	Being able to formulate hypotheses, critically collect and evaluate information for problem solving, following the scientific method			X	

SPECIFIC	Weighting			
	1	2	3	4
CE33 Recognizing, diagnosing and guiding the management of the main skin pathologies	X			
CE34 Recognizing, diagnosing and guiding the management of the main diseases of the blood. Normal and pathological pregnancy and delivery. Puerperium. Sexually transmitted diseases	X			
CE35 Recognizing, diagnosing and guiding the management of the main gynecological pathologies. Contraception and fertilization	X			
CE36 Recognizing, diagnosing and guiding the management of the main ophthalmological pathologies	X			
CE37 Knowing tumor disease, diagnosis and management	X			
CE38 Recognizing, diagnosing and guiding the management of the main ear, nose and throat pathologies	X			
CE39 Recognizing, diagnosing and guiding the management of the main cardiocirculatory pathologies	X			
CE40 Recognizing, diagnosing and guiding the management of the main diseases of the digestive system				X
CE41 Recognizing, diagnosing and guiding the management of major nephrourological pathologies	X			
CE42 Recognizing, diagnosing and guiding the management of the main pathologies of the locomotor system	X			
CE43 Recognizing, diagnosing and guiding the management of the main pathologies of the respiratory system	X			
CE44 Recognizing, diagnosing and guiding the management of the main pathologies of the endocrine system. Nutrition pathology	X			



CE45	Recognizing, diagnosing and guiding the management of the main pathologies of the central and peripheral nervous system	X		
CE46	Knowing the main infectious agents and their mechanisms of action	X		
CE47	Recognizing, diagnosing and guiding the management of the main infectious diseases in the different rgans and systems	X		
CE48	Recognizing, diagnosing and guiding the management of the main immune systems' pathologies.	X		
CE49	Knowing the morphological and functional characteristics of the newborn, child and adolescent. Growth. Premature newborn	X		
CE50	Recognizing, diagnosing and guiding the management of the main pediatric pathologies. Child nutrition. Diagnosis and genetic counseling. Cognitive, emotional and psychosocial development in childhood and adolescence	X		
CE51	Knowing the biological, psychological and social foundations of personality and behavior	X		
CE52	Recognizing, diagnosing and guiding the management of psychiatric disorders. Psychotherapy	X		
CE53	Recognizing, diagnosing and guiding the management of major poisonings. Palliative medicine	X		
CE54	Recognizing the characteristics of the pathology prevalent in the elderly. Family and community medicine: living environment of the sick person, promotion of health at the family and community level	X		
CE55	Recognizing, diagnosing and guiding the management of life-threatening situations	X		
CE56	Knowing how to make a complete anamnesis, patient-centered and oriented to the various pathologies, interpreting its meaning	X		
CE57	Knowing how to do a physical examination by devices and systems, as well as a psychopathological examination, interpreting its meaning	X		
CE58	Knowing how to evaluate the changes of clinical parameters in the different ages. Pregnancy exploration and monitoring	X		
CE59	Establishing an action plan, focused on the needs of the patient and the family and social environment, consistent with the symptoms and signs of the patient	X		
CE60	Knowing how to do basic and advanced life support	X		



TRANSVERSAL		Weighting			
		1	2	3	4
CT1	Analytical and synthesis capacity				X
CT2	Planification and organization capacity			X	
CT3	Oral and written communication in mother language	X			
CT7	Solving problems			X	
CT8	Making decisions				X
CT9	Team work			X	
CT10	Interdisciplinary team work	X			
CT12	Interpersonal relationship skills				X
CT14	Critical reasoning		X		
CT15	Ethical commitment		X		
CT16	Individual learning		X		
CT17	New situations' adaptation			X	
CT26	Knowing how to value personal action and know your own skills and limitations			X	
CT32	Being able to establish and maintain relationships with other professionals and institutions			X	
CT33	Knowing how to get relevant information from personal interviews		X		



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4, R5, R6, R7	25,00%	Open questions
R1, R2, R3, R4, R5, R6, R7	70,00%	Tests
R1, R2, R3, R4, R5, R6, R7, R8	5,00%	Participation in class

Observations

1.70% of the final grade will correspond to a written multiple choice exam. It will be an essential requirement to pass this exam to pass the course. Likewise, it will be necessary to obtain a score of 5 out of 10 to pass the exam.

2.The exam will consist of 60 multiple choice questions. There will be one correct answer out of 4 possible answers. Each error will deduct 0.33 points.

3.25% of the final grade will correspond to an open question exam.

4.5% of the final grade will correspond to the interest shown by the student in the subject, which will be evaluated based on class participation, attendance, sending messages or tutorials through the virtual platform or solving cases clinicians, either individually or in groups.

MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

M1 Masterclass



M2	Problems resolution and practical cases
M3	Virtual simulations
M4	Content presentations by teacher
M5	Knowledges and skills explanation
M7	Oral presentation by student
M8	Group activities supervised by professor
M9	Knowledge acquirance through student interaction and activity
M11	Personalised attention by professor
M12	Tests to understand the level of knowledge acquirance and skills
M13	Written work
M14	Online activity on e-learning
M15	Personal study
M16	Information research
M17	Discussion and solving issues in group
M18	Work in team
M19	Group work for searching, discussion and information research
M21	Supervision of clinical histories
M22	Clinical practices



IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theory class M1, M2, M4	R1, R2, R3, R4, R5, R6, R7	65,00	2,60
Tutoring M11	R1, R2, R3, R4, R5, R6, R7, R8	6,00	0,24
Evaluation M12, M15	R1, R2, R3, R4, R5, R6, R7, R8	4,00	0,16
TOTAL		75,00	3,00

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
No attendance M2, M5, M14, M15	R1, R2, R3, R4, R5, R6, R7	75,00	3,00
TOTAL		75,00	3,00



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
BLOCK I: PATHOLOGY RELATED TO GASTRIC ACID SECRETION	<ul style="list-style-type: none">·Gastroesophageal reflux disease. Barrett's esophagus.·Peptic ulcer disease.·Acute gastritis – Gastropathy due to NSAIDs.·Chronic gastritis.
BLOCK II: FUNCTIONAL AND MOTOR GASTROENTEROLOGICAL ALTERATIONS. ALTERATIONS OF BOWEL HABIT	Esophageal motor disorders: Achalasia – Diffuse Esophageal Spasm. Celiac disease – Chronic diarrhea. Functional disorders: Dyspepsia – Irritable Bowel Syndrome
BLOCK III: CHRONIC INFLAMMATORY BOWEL DISEASE	Ulcerative Colitis. Crohn's disease. evolutionary forms. Montréal classification. Assessment of activity and severity. Extraintestinal manifestations. Concept of immune-mediated diseases (IMID). Perianal Crohn's disease. Principles of medical treatment. Immunomodulatory therapy. Biological therapy. Surgical treatment of ulcerative colitis and Crohn's disease. Screening for dysplasia in ulcerative colitis
BLOCK IV. CANCERS OF THE ESOPHAGUS GASTROINTESTINAL TRACT	Esophagus cancer Stomach cancer colorectal cancer
BLOCK V. BENIGN ANOrectal PATHOLOGY ANAL CANAL CANCER	Hemorrhoids Anal fissure Perianal abscesses and fistulas Pilonidal sinus
BLOCK VI - ACUTE ABDOMEN	<ul style="list-style-type: none">·Concept and most frequent causes·Generic clinical characteristics and physical examination data in the acute abdomen·Appendiceal pathology: acute appendicitis, appendiceal tumors.·Paralytic and mechanical ileus: clinical characteristics, diagnosis and treatment



BLOCK VII. PATHOLOGY OF THE ABDOMINAL WALL

- Concept and classification of abdominal wall hernias
- Clinical features and diagnosis of uncomplicated femoral, inguinal, and umbilical hernias
- hernia complications
- Treatment of abdominal hernias (uncomplicated and complicated)

BLOCK VIII. LIVER DISEASES

- Acute hepatitis. acute viral hepatitis
- Chronic hepatitis due to hepatitis B and hepatitis C viruses
- Autoimmune liver diseases
- Toxic hepatitis - Alcoholic liver disease
- Metabolic liver diseases: non-alcoholic fatty liver disease, hereditary hemochromatosis, Wilson's disease and alpha-1-antitrypsin deficiency
- Liver cirrhosis (I): Generalities. Portal hypertension: concept and physiopathogenesis
- Liver cirrhosis (II)- Decompensated liver cirrhosis: Ascites. sd. hepatorenal. Digestive bleeding from varices. Hepatic encephalopathy. Bacterial infections in liver cirrhosis.
- Benign liver tumors. Hepatocarcinoma.
- liver transplant

BLOCK IX DISEASES OF THE PANCREAS AND THE BILE TRACT.

- Cholelithiasis and choledocholithiasis
- Obstructive jaundice
- Acute pancreatitis
- Chronic pancreatitis
- Neoplasms of the bile duct and pancreas



Temporary organization of learning:

Block of content	Number of sessions	Hours
BLOCK I: PATHOLOGY RELATED TO GASTRIC ACID SECRETION	4,00	8,00
BLOCK II: FUNCTIONAL AND MOTOR GASTROENTEROLOGICAL ALTERATIONS. ALTERATIONS OF BOWEL HABIT	4,00	8,00
BLOCK III: CHRONIC INFLAMMATORY BOWEL DISEASE	4,00	8,00
BLOCK IV. CANCERS OF THE ESOPHAGUS GASTROINTESTINAL TRACT	4,00	8,00
BLOCK V. BENIGN ANOrectal PATHOLOGY ANAL CANAL CANCER	2,00	4,00
BLOCK VI - ACUTE ABDOMEN	2,00	4,00
BLOCK VII. PATHOLOGY OF THE ABDOMINAL WALL	4,00	8,00
BLOCK VIII. LIVER DISEASES	9,00	18,00
BLOCK IX DISEASES OF THE PANCREAS AND THE BILE TRACT.	4,50	9,00



References

BASIC BIBLIOGRAPHY

In Spanish

- Feldman M, Friedman LS, Brandt LJ. Sleisenger y Fordtran. Enfermedades digestivas y hepáticas: Fisiopatología, diagnóstico y tratamiento. Elsevier; 10a edición, 2017
- Tratamiento de las enfermedades gastroenterológicas. Manual de la Asociación Española de Gastroenterología. Ediciones Doyma SL. 2006
- Manual de Cirugía de la Asociación Española de Cirujano
- S. Tamames Escobar, C. Martínez Ramos. Cirugía Aparato Digestivo. Ed. Médica Panamericana
- Balibrea JL. Tratado de Cirugía. Ed. Marban.
- Schwartz SI. Principios de Cirugía. Ed. McGraw-Hill.
- Sabiston, Townsend CM. Tratado de Cirugía
- Sabiston, Townsend CM. Tratado de Cirugía.

In English

- Classen M, Tytgat GNJ, Lightdale CJ. Gastroenterological endoscopy. Stuttgart: Thieme; 2010.
- Podolsky D, Camilleri M, Gregory F. YAMADA'S Handbook of gastroenterology. 6th Edition. Ed Wiley-Blackwell. 2015
- Mauss, Berg, Rockstroh, Sarrazin, Wedemeyer. Hepatology – A clinical textbook. Ninth Edition, 2018.
- Dancygier H. Clinical Hepatology. Principles and Practice of Hepatobiliary Diseases. 2010

FURTHER READING

Internet addresses of interest in Digestive System:

<http://www.worldgastroenterology.org/global-guidelines.html>

Corresponds to the World Gastroenterology Organization. On this page you can find the clinical practice guides for the most important digestive diseases freely in several languages.

<http://www.aegastro.es>

Corresponds to the Spanish Association of Gastroenterology. You have free access to clinical practice guidelines for digestive diseases, as well as a therapeutic manual for digestive diseases.

<http://www.sepd.es/>

Corresponds to the Spanish Society of Digestive Pathology Diseases. You have free access to clinical practice guidelines for digestive diseases.

<http://www.svpd.org/>

Corresponds to the Valencian Society of Digestive Pathology.

<http://www.gastro.org/>

Corresponds with the American Gastroenterological Association. Organ of the American Society of Gastroenterology where the most important reviews of gastroenterological diseases are in English.

<https://ueg.eu>



United European Gastroenterology website. European Organization for Digestive Medicine. Its website compiles updated information from the different societies in the field of digestive pathology.

<http://www.aasld.org>

Corresponds to the American Association for the Study of the Liver Diseases. Link of interest to download articles on aspects related to liver diseases.

<https://easl.eu/easl/>

Corresponds to the European Association for the Study of the Liver. Web page of interest to consult the latest advances in Hepatology, as well as clinical practice guidelines for the management of liver diseases.

<http://aeeh.es>

Web page of the Spanish Association for the Study of the Liver where you can consult national consensus documents and clinical guidelines in hepatology

<http://www.guidelines.gov>

Access to the database of evidence-based clinical practice guidelines created and maintained by the Agency for Health Care Policy and Research (AHCPR), the American Medical Association (AMA), and the American Association of Health Plans (AAHP)



Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

Situation 1: Teaching without limited capacity (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

Situation 2: Teaching with limited capacity (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

☒ Microsoft Teams

☐ Kaltura



Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

☒ Microsoft Teams

☐ Kaltura

Explanation about the practical sessions:



2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:

☒

The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.

☐

The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System: