



Information about the subject

Degree: Bachelor of Science Degree in Dentistry

Faculty: Faculty of Medicine and Health Sciences

Code: 480206 **Name:** General Medical-Surgical Pathology

Credits: 6,00 **ECTS Year:** 2 **Semester:** 2

Module: Module 3: General Medical-Surgical Pathology and Therapeutics

Subject Matter: GENERAL MEDICAL-SURGICAL PATHOLOGY **Type:** Compulsory

Field of knowledge: Health Sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: English, Spanish

Lecturer/-s:

482A Jose Alberto Lopez Baeza (**Responsible Lecturer**) lopez.baeza@ucv.es

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Module organization

Module 3: General Medical-Surgical Pathology and Therapeutics

Subject Matter	ECTS	Subject	ECTS	Year/semester
GENERAL MEDICAL-SURGI CAL PATHOLOGY	18,00	Anaesthesiology	6,00	2/1
		General Medical-Surgical Pathology	6,00	2/2
		Medical-Surgical Specialities	6,00	2/2
MEDICAL PATHOLOGY	12,00	General and Dental Pharmacology	6,00	2/1
		Pathological Anatomy	6,00	2/1

Recommended knowledge

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

R1 Detects and understands the main mechanisms that cause medical and surgical diseases

R2 Adequately identifies the main clinical manifestations of the disease.

R3 Knows the methodology of clinical examination of patients.

R4 The student can optimize the diagnostic means, personalizing them for each identified clinical situation and updating them.

R5 The student can establish a diagnostic judgement from the anamnesis and examination data and record them.

R6 Identifies and interprets the main clinical manifestations of vital complications in patients.

R7 The student is able to handle emergency situations.

R8 The student is able to diagnose the main pathologies of the throat, nasal cavities and ear related to dentistry, especially malignant tumour pathology.

R9 The student is capable of searching bibliographic information from different sources and knows how to analyze it with a critical spirit.



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 Takes a correct clinical history.
- R2 Distinguishes the signs of organic functioning.
- R3 Detects and understands the main mechanisms that cause medical and surgical diseases
- R4 Adequately identifies the main clinical manifestations of the disease.
- R5 Knows the methodology of clinical examination of patients.
- R6 The student can optimize the diagnostic means, personalizing them for each identified clinical situation and updating them.
- R7 The student can establish a diagnostic judgement from the anamnesis and examination data and record them.
- R8 The student is able to establish a reasoned and updated therapeutics from the established diagnostic judgments.
- R9 The student is able to have a continuous training program, based on bibliographic sources.
- R10 Develops capacity to relate to patients and communicates effectively.
- R11 Proves knowledge of the principles governing surgical activity.
- R12 Proves knowledge of the mechanisms of pain transmission.
- R13 Properly selects the type of anesthesia according to the objective.
- R14 Proves new knowledge about materials and instruments used when applying local anesthesia, demonstrating effort, responsibility, care and precaution in their use.
- R15 Knows the different pharmacological possibilities in the field of dentistry. Describes and explains the pharmacology of local anesthetics and their components.



- R16 Describes and applies the different anesthesia techniques studied demonstrating interest, enthusiasm and dedication in the acquisition of knowledge, skills, abilities, and above all, demonstrating self-confidence.
- R17 Identifies and interprets the main clinical manifestations of vital complications in patients.
- R18 The student is able to make an individualized decision for the anesthesia of a patient based on the data from the anamnesis and examination.
- R19 The student is able to diagnose the main pathologies of the throat, nasal cavities and ear related to dentistry, especially malignant tumour pathology.
- R20 The student is able to properly record the information obtained and prepare reports.



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):

GENERAL	Weighting			
	1	2	3	4
CG2 I bOrganizational and planning skills			X	

SPECIFIC	Weighting			
	1	2	3	4
CE A 7 Promote autonomous learning of new knowledge and techniques, as well as motivation for quality.				X
CE B 1 Understand the basic biomedical sciences on which dentistry is based to ensure proper oral care.				X
CE B 14 Know about general disease processes, including infection, inflammation, immune system disorders, degeneration, neoplasm, metabolic disorders and genetic disorders.				X
CE B 1 Be familiar with the general pathological features of diseases and disorders affecting organ systems, specifically those with oral impact.				X
CE B 1 Understand the fundamentals of action, indications and efficacy of drugs and other therapeutic interventions, knowing their contraindications, interactions, systemic effects and interactions on other organs, based on available scientific evidence.		X		
CE B 1 Know, critically evaluate and know how to use clinical and biomedical information sources to obtain, organize, interpret and communicate scientific and health information.				X
CE B 1 Know the scientific method and have the critical capacity to value the established knowledge and the new information. Be able to formulate hypotheses, collect and critically evaluate information for the resolution of problems, following the scientific method.		X		



TRANSVERSAL	Weighting			
	1	2	3	4
1. a. Analysis and synthesis skills				x
1. b. Organizational and planning capacity			x	
1. c. Oral and written communication in the native language.			x	
1. d. Knowledge of a foreign language			x	
1. e. Computer skills	x			
1. f. Information management capacity	x			
1. g. Problem solving		x		
1. h. Decision making		x		
2. i. Teamwork			x	
2. l. Interpersonal skills			x	
2. n. Critical Reasoning		x		
3. p. Autonomous learning				x
3. q. Adaptation to new situations		x		
3. r. Creativity		x		
3. s. Leadership			x	
3. u. Initiative and entrepreneurship		x		
3. v. Motivation for quality			x	
3. w. Sensitivity to environmental and socio-health issues		x		



Universidad
**Católica de
Valencia**
San Vicente Mártir

Course guide

Year 2023/2024

480206 - General Medical-Surgical Pathology





Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	60,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
	20,00%	PRESENTATION: The student develops by means of an oral presentation, supported with audio-visual materials, a theme or topic given by the teacher. At the end of the presentation, the teacher or audience may ask questions.
	5,00%	CLASS PARTICIPATION: The teacher assesses the participation, involvement and progress the student makes in acquiring knowledge and skills in theory and practical classes and seminars. This is never more than 5% of the final grade.
	15,00%	PRACTICAL EXAM: The student carries out a test in which he/she must show by means of practical application the acquisition of certain knowledge. For example, histological or anatomopathological diagnoses, interpretation of images or diagnostic tests.

Observations

- Test exam 60%. Obligatory. It is necessary to have it approved to pass the subject.
- Group Project 20%. Presentation on the day assigned at the beginning of the subject. Justification is only valid for non-presentation on the indicated day with the same reasons as for changing the exam date according to UCV academic regulations and the professor will assign another presentation date.
- Assistance 5%.
- Practices 15%. Obligatory attendance. It only serves justification with the same reasons as for changing the exam date according to UCV academic regulations. If the absence is not justified, it must be submitted directly to 2nd call.
 - Students who do not have the minimum attendance, do not do Group Project or do not do Practices and go to 2nd call, that percentage will not be counted in the final grade.



·Students who have failed the subject from the previous year, the grade for class attendance, group projects and practices is saved from one year to the next. Students that have not done a group project or the practice, they must do it. Remember that attendance at the practice is necessary to pass the subject.

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 | Lecture.
Problem Solving.
Explanation of contents by the teacher.
Explanation of knowledge and skills. |
| M2 | Practical basic sciences laboratory sessions, practical simulation laboratory sessions, virtual hospital and dissecting room. |
| M6 | Discussion and problem solving. |
| M13 | Personal preparation of written texts, essays, problem solving, seminars. |
| M15 | Personalised Attention. Period of instruction and/or guidance carried out by a tutor with the aim of analysing with the student his/her work, activities and evolution in learning of subjects. |



IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
THEORY CLASS M1, M6, M13	R1, R2, R3, R4	40,00	1,60
TUTORING M1, M6, M13	R1, R2, R3, R4	2,00	0,08
EVALUATION M1, M2, M6, M13	R1, R2, R3, R4	2,00	0,08
PRACTICAL CLASS M2	R2, R3, R4	14,00	0,56
TOTAL		58,00	2,32

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M1, M2, M6, M13	R1, R2, R3, R4	60,00	2,40
GROUP WORK M1, M2, M6, M13	R2, R3, R4	32,00	1,28
TOTAL		92,00	3,68



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
Pathogenesis	Description of the main pathogenic mechanisms
Cardiovascular pathology	Pathophysiological mechanisms and manifestations of cardiovascular diseases
Respiratory pathology	Pathophysiological mechanisms and manifestations of respiratory disease.
Nephrourological pathology	Pathophysiological mechanisms and manifestations of nephrourological disease.
Digestive pathology	Pathophysiological mechanisms and manifestations of digestive disease
Hematological pathology	Pathophysiological mechanisms and manifestations of hematological disease.
Musculoskeletal system pathology	Pathophysiological mechanisms and manifestations of muscle and bone disease.
Metabolic and endocrinological pathology	Physiopathological mechanisms and manifestations of metabolic and endocrinological disease.
Nervous system pathology	Pathophysiological mechanisms and manifestations of central and peripheral nervous system disease.
Inflammatory response and pain	Description of the inflammatory /reparative process. Pathophysiology of pain.



Infectious pathology

Pathophysiological mechanisms and manifestations of infectious disease.

Oncological pathology

Pathophysiological mechanisms and manifestations of oncological disease.



Temporary organization of learning:

Block of content	Number of sessions	Hours
Pathogenesis	4,00	8,00
Cardiovascular pathology	4,00	8,00
Respiratory pathology	3,00	6,00
Nephrourological pathology	2,00	4,00
Digestive pathology	2,00	4,00
Hematological pathology	2,00	4,00
Musculoskeletal system pathology	2,00	4,00
Metabolic and endocrinological pathology	2,00	4,00
Nervous system pathology	2,00	4,00
Inflammatory response and pain	2,00	4,00
Infectious pathology	2,00	4,00
Oncological pathology	2,00	4,00



References

De Castro del Pozo S. Manual de Patología General. 8ª Edición. Barcelona. Elsevier.
García Conde J. Patología general. Semiología Clínica y Semiología. 2ª Edición. McGraw Hill.
Rodman C Farreras. Medicina Interna. 19ª Edición. 2020. Elsevier.
Harrison's principles of internal medicine. 21st Edition. 2022. New York. Mc Graw-Hill.
Robbins & Cotran. Pathologic Basis of disease. 10th Edition. 2020. Saunders Elsevier.



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: