



## Information about the subject

**Degree:** Bachelor of Science Degree in Dentistry

**Faculty:** Faculty of Medicine and Health Sciences

**Code:** 480204 **Name:** Medical-Surgical Specialities

**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:** Surgical Specialities

**Type of learning:** Classroom-based learning

**Languages in which it is taught:** English, Spanish

### Lecturer/-s:

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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

The students are recommended to have basic knowledge of:

- Human anatomy
- Basic physiology
- Basic pharmacology



## 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 Identifies and interprets the main clinical manifestations of vital complications in patients.
- R15 The student is able to handle emergency situations.



- R16 Knows the main exploration techniques in Otorhinolaryngology and Ophthalmology
- R17 The student is able to diagnose the main pathologies of the throat, nasal cavities and ear related to dentistry, especially malignant tumour pathology.
- R18 The student is capable of searching bibliographic information from different sources and knows how to analyze it with a critical spirit.
- R19 The student is able to understand the differences between the child and the adult and becomes familiar with the handling of the child in consultation.
- R20 He/she knows the basic aspects of the child's development, maturation and nutrition and the aspects that influence the development and health of the oral-dental area.
- R21 Knows the fundamental aspects of paediatric pathology, as well as its impact on dental health.
- R22 Knows the most important aspects and the epidemiology of child accidents and intoxications and is able to facilitate the means to prevent them.
- R23 Knows the vaccination calendar and the characteristics of the main vaccines used in paediatrics.
- R24 The student is capable of performing basic pediatric cardio-pulmonary resuscitation.
- R25 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



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# Course guide

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## Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	0,00%	OPEN QUESTIONS: Written exam in which basic theory knowledge and the ability to relate, integrate and coherently express it in writing is assessed.
	80,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
	0,00%	ORAL TEST: Oral exam in which the student answers the questions the teacher asks, verbally explaining the contents acquired, allowing for interaction with the teacher.
	0,00%	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.
	0,00%	PRACTICAL: Written test in which the student is asked to solve practical exercises, clinical cases or problems about the contents of different subjects.
	15,00%	ASSIGNMENTS: The student, ether individually or in a group, develops a theme which reviews or researches, and he/she presents it, in writing, for assessment by the teacher.
	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.





0,00% 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

### MENTION OF DISTINCTION:

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded. Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.

## 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
<b>THEORY CLASS</b> M1, M6, M13	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25	42,00	1,68
<b>TUTORING</b> M6	R1, R6, R7, R8, R9, R15, R18, R25	6,00	0,24
<b>EVALUATION</b> M2	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25	6,00	0,24
<b>PRACTICAL CLASS</b> M1, M2, M6, M13	R5, R10, R14, R15, R24	6,00	0,24
<b>TOTAL</b>		<b>60,00</b>	<b>2,40</b>

## LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
<b>INDIVIDUAL WORK</b> M1, M6, M13	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25	75,00	3,00
<b>GROUP WORK</b> M1, M2, M6, M13	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25	15,00	0,60
<b>TOTAL</b>		<b>90,00</b>	<b>3,60</b>



## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
PEDIATRICS	<ol style="list-style-type: none"><li>1. Generalities. Basic Epidemiology. Health Control. Infant Feeding. Vaccination.</li><li>2. Infectology. Physiology of Fever. Prevalent Febrile Pathology or of Greater Orofacial Expression.</li><li>3. Pediatric Neurology. Neurodevelopment. Cognitive Delays. Paroxysmal Disorders. Malformations of the Nervous System.</li><li>4. Pediatric Gastroenterology and Nutrition. Basic Concepts of Nutrition at Each Age. Warning Signs in Digestive Diseases.</li><li>5. Respiratory Pathology. Basic Concepts of Semiology and Warning Signs. Respiratory Pathology in Newborns and Prevalent Pathology.</li><li>6. Basic Genetics and Congenital Diseases with Greater Oral Expression. Malformations of the Oral Cavity, Dentition, Tongue, and Lips.</li><li>7. Pediatric Anesthesiology. Generalities. Types and Recommendations.</li><li>8. Basic Life Support. Pediatric CPR. Heimlich Maneuver.</li></ol>



## Otorhinolaryngology (ENT)

1. INTRODUCTION. What is Otorhinolaryngology? 2. NASAL AND PARANASAL CAVITIES. Anatomy and applied physiology. Computed tomography. Functionality test. Trauma, foreign bodies, and epistaxis. Septopiramidal deviations. 3. RHINITIS AND SINUSITIS. General concept and classification. Etiopathogenesis. Acute and chronic sinusitis. Sinusitis in childhood. Odontogenic sinusitis. Tumors in the nasal cavity and paranasal sinuses. 4. PHARYNX. Physiology and basic anatomy. Clinical examination. Foreign bodies in the pharyngeal area. Respiratory disorders during sleep: simple snoring and obstructive sleep apnea syndrome. Pharyngeal neuropathies. 5. INFLAMMATORY PATHOLOGY OF THE PHARYNX: Acute, chronic, and hypertrophic adenoiditis. Acute tonsillitis and chronic recurrent tonsillitis, hypertrophy of the adenoids. Infectious and chronic pharyngitis. Deep neck infections. 6. LARYNX: Anatomy and applied physiology. Clinical and functional examination. Dysphonias. Tumors of the nasopharynx, oropharynx, and hypopharynx. Laryngeal cancer. 7. EAR 1. Anatomy and applied physiology. Clinical examination. Functional exploration of hearing. Functional exploration of balance. Spontaneous and induced vestibular manifestations. 8. EAR 2. External ear pathology. Acute otitis media and chronic secretory otitis media. 9. EAR 3. Sensorineural hearing loss. Noise trauma. Ototoxic drugs. Presbycusis. Idiopathic sudden deafness. Hearing aids. Cochlear implant. 10. VERTIGO: General concept. Clinical classification. Ménière's disease. Benign paroxysmal positional vertigo. Acute vestibular failure. 11. FACIAL NERVE: Clinical anatomy and applied physiology. Peripheral facial paralysis. 12. SALIVARY GLANDS: Tumor pathology. 13. Basic ENT examination. 14. Guidance for patients with ENT pathology.



## OPHTHALMOLOGY

1. Introduction to Ophthalmology. Basic anatomy of the eyeball. Anatomical and functional examination of the lens. Lens pathology and treatment. 2. Anatomical and functional examination of the cornea and conjunctiva. Most common corneal dystrophies. Pathology affecting the cornea and conjunctiva. 3. Anatomical and functional examination of the uvea. Etiopathogenesis and treatment of the most common pathologies of the anterior, middle, and posterior uvea. Pediatric ophthalmology: accommodative strabismus and leukocoria. 4. Anatomical and functional examination of the eyelids. Examination of external muscles and lacrimal system. Common pathology of the eyelids and its annexes, ocular paralysis, and pathology and treatment of the lacrimal system. 5. Anatomical and functional examination of the retina. Most common retinal dystrophies, vascular diseases affecting the retina, retinal breaks, and their treatment. 6. Etiopathogenesis of ocular hypertension and glaucoma, acute and chronic glaucoma. Topical and surgical treatment. Refractive disorders: myopia, astigmatism, and hypermetropia. 7. SEMINAR 1. Basic Ophthalmic Examination. 8. SEMINAR 2. Basic Ophthalmic Examination.

### Temporary organization of learning:

Block of content	Number of sessions	Hours
PEDIATRICS	10,00	20,00
Otorhinolaryngology (ENT)	10,00	20,00
OPHTHALMOLOGY	10,00	20,00



## References

*Nelson Textbook of Pediatrics*, 2-Volume Set, 21st Edition 2019  
Zitelli and Davis' Atlas of Pediatric Physical Diagnosis 8th Edition. 2021

Basic Otorhinolaryngology. A step-by-step learning guide. R. Probst, G. Grevers y H. Iro. Ed. Thieme 2005

Color atlas of ENT Diagnosis. T. Bull Ed. Thieme 2003. Tratado de Otorrinolaringología y Cirugía de Cabeza y Cuello. C. Suarez y cols. Ed. Médica Panamericana. 2006.

The Wills Eye Manual. Philadelphia. Justis P Ehler et al. Lippincott Williams & Wilkins 2008.



## 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:

The submission of assignments is not mandatory.

Assignments must be submitted to the professor in digital format at the address they specify in class before the following week after the last in-person class of the corresponding teaching block.

Group assignments must be submitted at least one week prior to the class in which they are to be presented.



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