



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

It is recommended that students 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



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	80,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
	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.

Observations

CRITERIA FOR AWARDING HONORS GRADES:In accordance with the regulations governing the evaluation and grading of the course in force at UCV, the mention of "Honors" may be awarded to students who have obtained a grade equal to or higher than 9.0. The number of "Honors" awards may not exceed five percent of the students enrolled in the group in the corresponding academic year, except when the number of enrolled students is less than 20, in which case only one "Honors" award may be granted. In exceptional cases, Honors grades may be assigned across different groups of the same course on a global basis. However, the total number of Honors awards to be granted will be the same as if they were assigned by group, though these may be distributed among all students based on a common criterion, regardless of the group to which they belong.

The criteria for awarding a "Honors" grade will be carried out according to the criteria established by the teacher responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.



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:

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|-----|---|
| 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, 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
TUTORING M6	R1, R6, R7, R8, R9, R18, R25	6,00	0,24
EVALUATION 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
PRACTICAL CLASS M1, M2, M6, M13	R5, R10, R14, R15, R25	6,00	0,24
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK 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
GROUP WORK 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
TOTAL		90,00	3,60



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block

Contents



OTORHINOLARYNGOLOGY

1. INTRODUCTION. What is otorhinolaryngology? 2. NASAL AND PARANASAL CAVITIES. Applied anatomy and physiology. Computed tomography. Functional tests. Trauma, foreign bodies, and epistaxis. Septopyramidal 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. Sleep-related breathing disorders: simple snoring and obstructive sleep apnea syndrome. Pharyngeal neuropathies. 5. INFLAMMATORY PATHOLOGY OF THE PHARYNX: Acute, chronic, and hypertrophic adenoiditis. Acute tonsillitis and recurrent chronic tonsillitis, adenoid hypertrophy. Infectious and chronic pharyngitis. Deep neck infections. 6. LARYNX: Applied anatomy and physiology. Clinical and functional examination. Dysphonias. Tumors of the nasopharynx, oropharynx and hypopharynx. Laryngeal cancer. 7. EAR 1. Applied anatomy and physiology. Clinical examination. Functional assessment of hearing. Functional assessment of balance. Spontaneous and provoked vestibular manifestations. 8. EAR 2. Pathology of the external ear. 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: Tumoral pathology. 13. Basic ENT examination. 14. Guidance for the patient 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 the extraocular muscles and lacrimal system. Most common eyelid pathologies and their appendages, 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 tears and their treatment. 6. Etiopathogenesis of ocular hypertension and glaucoma, acute glaucoma and chronic glaucoma. Topical and surgical treatment. Refractory alterations. Myopia, astigmatism, and hyperopia. 7. SEMINAR 1. Basic eye examination. 8. SEMINAR 2. Basic eye examination.

PEDIATRICS

1. Generalities. Basic epidemiology. Health control. Child nutrition. Vaccination. 2. Infectology. Physiology of fever. Prevalent febrile pathology or those with greater orofacial expression. 3. Pediatric neurology. Neurodevelopment. Cognitive delays. Paroxysmal disorders. Nervous system malformations. 4. Pediatric gastroenterology and nutrition. Basic concepts of feeding at each age. Warning signs in digestive diseases. 5. Respiratory pathology. Basic concepts of semiology and warning signs. Respiratory pathology in the newborn and prevalent respiratory diseases. 6. Basic genetics and congenital diseases with greater oral expression. Malformations of the oral cavity, dentition, tongue, and lips. 7. Pediatric anesthesiology. General aspects. Types and recommendations. 8. Basic life support. Pediatric CPR. Heimlich maneuver.



Temporary organization of learning:

Block of content	Number of sessions	Hours
OTORHINOLARYNGOLOGY	10,00	20,00
Ophthalmology	10,00	20,00
PEDIATRICS	10,00	20,00

References

Cruz M. Tratado de Pediatría. 11ª edición. Ed PANAMERICANA. 2021 Protocolos diagnósticos y terapéuticos en pediatría 2023. <https://www.aeped.es/protocolosSmith>. Patrones reconocibles de malformaciones humanas. Ed ELSEVIER. 2007 Otorrinolaringología y patología cervicofacial. J. Bastera Alegría. Ed Masson 2004 Manual de Otorrinolaringología. C. Morera Perez y J. Marco Algarra. Ed. Reproval. 2002. Basic Otorhinolaryngology. A step-by-step learnig 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. Oftalmología clínica. Jack J. Kanski. Elsevier España. The Wills Eye Manual. Philadelphia. Justis P Ehler et al. Lippincott Williams & Wilkins 2008. Guiones de oftalmología. Jorge Alió y Sanz, Jose Carlos Pastor Jimen