



Information about the subject

Degree: Bachelor of Science Degree in Medicine

Faculty: Faculty of Medicine and Health Sciences

Code: 340409 **Name:** Otorhinolaryngology

Credits: 3,00 **ECTS Year:** 4 **Semester:** 2

Module: Human Clinical Training

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

Field of knowledge: Health Science

Department: Surgical Specialities

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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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



Prerequisites: Module number 1 entirely passed

Recommendations: Below are shown some of the skills students should possess before starting the course:

- Knowledge of the anatomical and physiological aspects.
- Management of bibliographical resources.

Ability to look for useful information in the network and access to evidence based Medicine databases.

Recognize, diagnose and guide management of the main diseases of ear, nose and throat:

Most common diseases of the external ear: ear wax plugs. Foreign bodies. External Otitis. Acute and Chronic Medium Otitis. Complications of chronic medium otitis.

Hearing loss in transmisión and perception. Infant hearing loss. Screening Programs, Hearing rehabilitation.

Ear tumors.

Vertigo of central and peripheral origin. Facial paralysis.

Pathology of the nasal pyramid and septum. Epistaxis.

Acute and chronic rhinitis. Acute and chronic sinusitis. Complications of sinusitis. Benign and malignant tumors of the nasal pyramid and nasal cavity.

Acute pharyngitis. Chronic pharyngitis. Acute and chronic tonsillitis. Complications. Neck abscesses and boils.

Snoring (Obstructive Sleep Apnea).

Acute and chronic laryngitis. Hoarseness and dyspnea.

Head and neck oncology. Cervical tumors.

Nasal, ear, oral pharynx and larynx malformations.

Facial trauma.

External cervical and laryngeal trauma, open and closed. Injuries caused by intubation, foreign bodies, thermal and caustic agents.

Tracheostomy – coniotomy.

Acute and chronic inflammation of the salivary glands. Salivary stones. Benign and malignant tumors of the salivary glands.

Speech and language disorders.

Esophageal disease. Foreign bodies



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 Know the main exploration techniques in Otolaryngology
- R2 Being able to diagnose the main pathologies of the throat, nostrils and ear and especially malignant tumor pathology
- R3 Being able to search for bibliographic information from different sources and knows how to analyze it in a critical spirit
- R4 Being able to understand the differences between the child and the adult and become familiar with the child's management in consultation
- R5 Being able to properly record the information obtained and produce reports
- R6 Know how to perform an otoscopy and interpret the differences between the normal and pathological ear.
- R7 Know how the functional examination of the hearing is performed. Know how to perform and interpret an audiometry, and guide a patient who suffers from hearing loss.
- R8 Know how vestibular functional exploration is performed, especially Dix-Hallpike maneuvers and particle replacement. Knowing how to guide a patient who suffers from vertigo
- R9 Know how to perform a naso-fibro-laryngoscopic scan and differentiate normal findings from pathological ones. Valuing a dysphonia.
- R10 Know how a nasal plug is performed. Assess and treat simple trauma and fractures of nasal bones
- R11 Perform and interpret a pharyngeal scan.
- R12 Know how to perform and interpret cervical palpation in relation to tumor processes. Knowing how to target a patient with cervical tumoring



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		



CG9	Understanding and recognizing the effects, mechanisms and manifestations of the disease on the structure and function of the human body				X
CG11	Understanding and recognizing the effects of growth, development and aging on the individual and their social environment	X			
CG12	Understanding the basis of action, indications and efficacy of therapeutic interventions, based on available scientific evidence			X	
CG13	Getting and writing a medical history containing all relevant information			X	
CG14	Perform a physical exam and mental assessment			X	
CG15	Having the ability to make an initial diagnostic judgment and establish a reasoned diagnostic strategy	X			
CG16	Recognizing and treating life-threatening situations and those that require immediate attention	X			
CG17	Establishing all diagnosis, prognosis and treatment, applying principles based on the best possible information and clinical safety			X	
CG18	Indicating the most appropriate therapeutics of the most prevalent and chronic acute processes, as well as terminally ill patients				X
CG19	Raising and proposing appropriate preventive measures for each clinical situation			X	
CG20	Acquiring enough clinical experience in hospital institutions, health centers or other health institutions, under supervision, as well as basic knowledge of patient-centered clinical management and appropriate use of tests, medicines and other health system resources				X
CG21	Listening to carefully, obtain and synthesize relevant information about the problems afflicting the patient and understand the content of this information			X	
CG22	Writing medical histories and other medical records in an understandable way to outsiders			X	
CG23	Communicating effectively and clearly, both orally and in writing, with patients, family members, media workers and other professionals			X	
CG24	Establishing good interpersonal communication that enables patients, family members, media workers and other professionals to address patients, families, media and other professionals with efficiency and empathy				X



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, R4	25,00%	Open questions
R1, R2	50,00%	Tests
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12	20,00%	Practices
R1, R2, R3, R4, R5	5,00%	Participation in class

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 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, M5	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12	22,00	0,88
Seminar and group practices M2, M4, M5, M7, M8, M9, M12, M15, M16, M17, M19, M21	R1, R2	5,00	0,20
Practices in small groups M2, M8, M9	R1, R2, R4, R5, R6, R7, R8, R9, R10, R11, R12	2,50	0,10
Tutoring M11	R1, R2, R4, R5	3,00	0,12
Evaluation M12, M13	R1, R2, R3, R4, R5	4,50	0,18
TOTAL		37,00	1,48

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
No attendance M2, M15, M16, M18	R2, R3, R5	38,00	1,52
TOTAL		38,00	1,52



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
Rhinology	<p>SESSION 1</p> <p>Unit 1. Nose, nasal passages and sinuses: clinical anatomy and applied physiology.</p> <p>Unit 2. Clinical examination of the nose, nasal passages and sinuses. Conventional radiographic examination and computed tomography. Functional tests: Olfactometry and rhinomanometry.</p> <p>Unit 3. Malformations of the nose and nostrils. Septopyramidal deviations (septoplasty and rhinoplasty).</p> <p>Subject 4. Nasal Injuries: Hematoma of the septum, nasal fractures. Nose bleed. Foreign Nasal bodies.</p> <p>SESSION 2</p> <p>Unit 5. Rhinitis: General concept and classification. Infectious rhinitis, chronic noninfectious hyperreactive rhinitis: allergic, intrinsic and vasomotor. Hypertrophic rhinitis. Atrophic rhinitis. Other rhinitis. Sinonasal polyposis. Samter's triad.</p> <p>Unit 6. craniofacial pains</p> <p>Unit 7: Sinusitis. General concept and pathogenesis. Acute and chronic sinusitis. Sinusitis in children. Odontogenic sinusitis and barotraumatic sinusitis.</p> <p>Unit 8. Benign and malignant tumors of the nose, nasal passages and sinuses. otology</p>



Oral cavity and pharynx

SESSION 3

Unit 9. oral cavity and pharynx: clinical anatomy and applied physiology.

Unit 10. Oral cavity and pharynx: Clinical examination and imaging techniques.

Unit 11. Diseases of the oral cavity.

Unit 12. Pathology of the lymphatic Waldeyer ring: acute, chronic and hypertrophic adenoiditis; acute and repeated tonsillitis, chronic tonsillitis, tonsillar hypertrophy. Infectious and chronic pharyngitis.

SESSION 4

Unit 13. obstructive respiratory disorders during sleep: Simple snoring and obstructive sleep apnea.

Unit 14. Benign and malignant tumors of the nasopharynx, oropharynx and hypopharynx.

Unit 15. Neuropathies of the pharynx: pharyngeal paralysis, sensory alterations. Glossopharyngeal neuralgia.

Unit 16. foreign esophageal bodies. Corrosive esophagitis and scar stenosis, pharyngoesophageal diverticula.

LARYNX

SESSION 5

Topic 17.- LARINGE: Clinical Anatomy and Applied Physiology.

Topic 18.- Clinical exploration and diagnosis for the image. Functional voice study

Topic 19. Laryngeal Malformations. External and internal trauma. Laryngeal stenosis. Tracheotomy. Foreign bodies laryngotracheobronchial.

Topic 20.- Acute laryngitis: general concept. Clinical forms of adult and childhood

Session 6

Topic 21.- Chronic laryngitis. Dysfunctional laryngitis. Papillomatosis and laryngeal

Topic 22.- Laryngeal Cancer.

Topic 23.- Laryngeal Neuropathies: Paralysis and Sensitivity Alterations.

Session 7

Topic 24.- Speech and language disorders: basic concepts. Production and reception pathology. Central pathologies. Language development disorders.

Topic 25.- Basic phoniatric rehabilitation techniques.



Salivary glands

SESSION 8

Unit 26. salivary glands: anatomy and applied physiology.
Unit 27. Non tumoral pathology of the salivary gland: infectious-inflammatory and functional obstructive diseases.
Unit 28. Tumor pathology of the salivary glands: Benign tumors: pleomorphic adenoma and Warthin tumour. Malignancies: acinar cell carcinoma, mucoepidermoid and adenoid cyst.

NECK

SESSION 9

Unit 29. Applied anatomy
Unit 30. Cysts and branchial fistulas. Thyroglossal duct cyst. Deep neck infections.
Unit 31. Thyroid nodules. Thyroid Cancer
Unit 32.- cervical tumors of vascular nervous, nodal and connective origin. Neck dissection: Bases of reconstruction in the cervicofacial surgery.



Otology

SESSION 10

Unit 33. Outer and middle ear: clinical anatomy and applied physiology.

Unit 34. Inner ear: clinical anatomy and applied physiology.

SESSION 11

Unit 35. Clinical examination of the external and middle ear. Indications for diagnostic imaging techniques.

Unit 36. Functional exploration of hearing: general, acumen, audiometry. Otoacoustic emissions, electric response audiometry. Impedanciometry.

Unit 37. Functional exploration of the balance system: spontaneous and caused vestibular manifestations.

SESSION 12

Unit 38. Pathology of the ear canal: cerumen impaction, foreign bodies, external otitis, otic herpes zoster, fungal infections, eczema.

Unit 39. Acute otitis media.

Unit 40. Complications of acute otitis media: an overview. acute mastoiditis

SESSION 13

Unit 41. Chronic otitis media: General concepts and classification. Suppurative clinical forms: Central drilling, marginal perforation with or without cholesteatoma. Clinically non-suppurative: secretory otitis media.

Unit 42. Residual septic inflammatory processes of the middle ear: Tympanosclerosis and adhesive otitis.

Unit 43. Complications of chronic suppurative otitis media: labyrinthitis, extradural abscess, meningitis, thrombophlebitis of the lateral sinus, otogenous brain abscess, petrositis.

SESSION 14

Unit 44. Otosclerosis.

Unit 45. Injuries of the inner, outer and middle ear, Barotrauma and aural blast.

Unit 46.- sound trauma. Ototoxic trauma. Presbycusis. Idiopathic sudden deafness

Unit 47. Malformations of outer, middle ear and inner ear. Deaf-mutism. Hearing aid and cochlear implant.

SESSION 15

Unit 48. Tumors of the outer and middle ear. Tumors of the eighth cranial nerve.

Unit 49. Vertigo: general concept, clinical classification. Meniere's disease. Benign paroxysmal positional vertigo.



Neuronitis (acute vestibular failure).
Unit 50. Facial Nerve: Clinical anatomy and applied
physiology. Peripheral facial paralysis.

Temporary organization of learning:

Block of content	Number of sessions	Hours
Rhinology	2,00	4,00
Oral cavity and pharynx	2,00	4,00
LARYNX	3,00	6,00
Salivary glands	3,00	6,00
NECK	2,50	5,00
Otology	6,00	12,00

References

- Otorrinolaringología y patología cervicofacial. J. Basterra 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 Patología Cervicofacial. J. Basterra. Elsevier Masson 2009
- Tratado de Otorrinolaringología y Cirugía de Cabeza y Cuello. C Suarez y cols. Ed. Médica Panamericana. 2006.



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: