



Information about the subject

Degree: Bachelor of Science Degree in Dentistry

Faculty: Faculty of Medicine and Health Sciences

Code: 480404 **Name:** Dentistry in Special Patients

Credits: 6,00 **ECTS Year:** 4 **Semester:** 2

Module: Module 4: Dental Pathology and Therapeutics

Subject Matter: DENTAL PATHOLOGY **Type:** Compulsory

Field of knowledge: Health Sciences

Department: Dentistry

Type of learning: Classroom-based learning

Languages in which it is taught: English, Spanish

Lecturer/-s:

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Universidad
Católica de
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San Vicente Mártir

Course guide

Year 2024/2025
480404 - Dentistry in Special Patients

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Module organization

Module 4: Dental Pathology and Therapeutics

Subject Matter	ECTS	Subject	ECTS	Year/semester
DENTAL THERAPY	66,00	Cosmetic Dentistry	6,00	4/2
		Orthodontics I	6,00	3/2
		Orthodontics II	6,00	4/1
		Paediatric Dentistry I	6,00	4/1
		Paediatric Dentistry II	6,00	4/2
		Pathology and Dental Therapeutics I	6,00	3/1
		Pathology and Dental Therapeutics II	6,00	3/2
		Pathology and Dental Therapeutics III	6,00	4/1
		Prosthodontics I	6,00	3/1
		Prosthodontics II	6,00	3/2
		Prosthodontics III	6,00	4/1
DENTAL PATHOLOGY	60,00	Dental Traumatology	6,00	5/1
		Dentistry in Special Patients	6,00	4/2
		Emergencies in Dentistry	6,00	5/2
		Legal and Forensic Dentistry	6,00	5/1



DENTAL PATHOLOGY

Oral Medicine	6,00	3/1
Oral Surgery I	6,00	4/1
Oral Surgery II - Implantology	6,00	5/2
Pathology of the Temporo-Mandibular Joint and Orofacial Pain	6,00	4/2
Periodontics I	6,00	3/2
Periodontics II	6,00	4/2

Recommended knowledge

No previous requirements



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 Distinguishes the signs of normal organ function.
- R2 Recognizes and understands the main mechanisms that cause medical and surgical diseases and their impact on the oral cavity.
- R3 Identifies and interprets the main clinical manifestations of the disease and its manifestation in the oral cavity.
- R4 Makes an adequate clinical history.
- R5 The student is capable of making a diagnostic judgement based on the data from the anamnesis and examination.
- R6 The student is capable of optimizing the use of diagnostic and therapeutic resources.
- R7 Knows the appropriate anesthesia techniques for each treatment.
- R8 The student is able to assemble the anesthesia syringe.
- R9 The student uses each instrument correctly.
- R10 Applies the knowledge acquired about local anesthesia.
- R11 Knows how to take a detailed clinical history of the patient, identifying his or her pathologies and drawing up the appropriate treatment plan.
- R12 Performs simple dental extractions.
- R13 The student is able to work in a team.
- R14 Proves the theoretical knowledge about possible medical emergencies that can occur in the dental office.
- R15 Knows the instruments needed to attend to an emergency situation.



- R16 Knows the pathologies that most frequently produce risk situations in the dental office.
- R17 The student is able to make a diagnosis of a patient who goes to a dental clinic.
- R18 Knows CPR maneuvers.
- R19 Proves to know the basic principles of medical emergency treatment.
- R20 The student is able to establish a correct dental diagnosis in a medically compromised patient.
- R21 Establishes a protocol to follow when treating a patient of medical risk.
- R22 Knows the most important characteristics of the different disabilities and their clinical management.
- R23 Proves to be able to know the clinical management of patients at medical risk.
- R24 Identifies the patients of risk in the consultation.
- R25 Proves to be able to manage a risk situation.
- R26 Identifies the main difficulties in the dental treatment of disabled patients.
- R27 Proves to be able to establish a protocol of action in the dental treatment of disabled patients.
- R28 Proves to be able to treat a disabled patient.
- R29 Identifies the possible complications that may appear in patients at medical risk.
- R30 Knows how to act in case of medical emergency in the dental office.
- R31 Prevents the establishment of an emergency situation by applying each action protocol for each type of patient at risk.
- R32 Knows the preventive measures to be applied to disabled patients.



R33 Shows ability to recognise the error and desire to correct it.





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
CG1 I aCapacity for analysis and synthesis			X	
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 A 9 Understand the importance of maintaining and using records with patient information for subsequent analysis, preserving the confidentiality of the data.				X
CE C 2iObtain and prepare a medical history containing all relevant information.				X
CE C 2Knowing how to perform a complete oral examination, including the appropriate radiographic and complementary examination tests, as well as obtaining appropriate clinical references.			X	
CE C 2Be able to make an initial diagnostic judgement and establish a reasoned diagnostic strategy, being competent in the recognition of situations requiring urgent dental care.			X	
CE C 2Establish the diagnosis, prognosis and adequate therapeutic planning in all clinical areas of dentistry, being competent in the diagnosis, prognosis and elaboration of the dental treatment plan of the patient requiring special care, including medically compromised patients (such as diabetics, hypertensive, immunosuppressed, anticoagulated, among others) and patients with disabilities.			X	
CE C 2Recognize life-threatening situations and know how to perform basic life support maneuvers.				X



CE D 2	Know and apply the basic treatment of the most common oral pathology in patients of all ages. Therapeutic procedures should be based on the concept of minimum invasion and on a global and integrated approach to oral treatment.					X
CE D 2	Know how to plan and carry out multidisciplinary, sequential and integrated dental treatments of limited complexity in patients of all ages and conditions and patients requiring special care.				X	
CE D 2	Plan and propose the appropriate preventive measures for each clinical situation.				X	
CE D 2	Acquire clinical experience under proper supervision.					X
CE E 3	Recognise the role of the dentist in actions to prevent and protect against oral diseases, as well as in the maintenance and promotion of health, both at individual and community level.				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. j.	Multidisciplinary teamwork			X	



2. k.	Work in an international context	x		
2. l.	Interpersonal skills			x
2. m.	Recognition of diversity and multiculturalism			x
2. n.	Critical Reasoning		x	
2. o.	Ethical commitment			x
3. p.	Autonomous learning		x	
3. q.	Adaptation to new situations			x
3. r.	Creativity			x
3. s.	Leadership		x	
3. t.	Knowledge of other cultures and customs		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
	15,00%	OPEN QUESTIONS: Written exam in which basic theory knowledge and the ability to relate, integrate and coherently express it in writing is assessed.
	70,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
	10,00%	PRACTICAL: Written test in which the student is asked to solve practical exercises, clinical cases or problems about the contents of different subjects.
	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

The written exam will consist of 2 parts: a test with 40 theoretical and practical questions and an open question. The multiple choice part will be automatically corrected and each wrong answer will subtract 0.083 points. To pass the exam, the student must have at least 20 correct answers in the test and 1.50 points in the open question. The student must pass all parts of the exam to be added to the grade for attendance and participation and practices (pass all parts). It is necessary to attend and pass a practical exam in the Virtual Hospital to be able to access the written exam in the first call and obtain a pass in the practice booklet.

To access the written exam, attendance and participation in at least 2 of the 3 internships offered must be justified by signing the responsible teacher in the official internship notebook that will be given to the teachers in the Virtual Hospital before the end of the last day of internship.

Internship signatures will not be accepted outside the official notebook available in reprography at the beginning of the course.

Any student who has an insufficient level of Spanish to care for patients will not be able to act as an operator in the practices.

Any student who does not complete and sign the student annexes within the established period will not be able to attend internships at external centers at CRUZ ROJA or NOSTRA CASA.



To pass the exam, the student must pass both parties independently, with at least a score of 5 in each of the tests.

If the exam is not passed, the subject will be pending for the next call of the same academic year. It is stipulated that if any of the 2 parts of the exam is passed, the grade obtained in that part will be saved for the next call.

CLINICAL PRACTICES

- Attendance at internships is mandatory. Being able to justify a fault (with the reasons set forth in the statutes of the UCV as long as it is communicated 7 days in advance or in the next 15 days), and in that case the failed practice will have to be recovered.
- In the event that there are several absences from practice, or one without justification, the student will not be able to take the final exam, and must go directly to the 2^a call.
- A maximum of 2 unjustified absences is established in order to be able to apply for the 2^a call of that same year. If more than 3 unjustified absences are made, the student must repeat the subject next year, without having the possibility of applying for any of the calls of this year.
- The student has the obligation to comply with the regulations of clinics in terms of:

Clothing: Full white uniform. Clean and ironing., Clinic clogs

Care of the facilities

Behavior

Delivery of the internship book in an agreed time and form

ITS NON-COMPLIANCE WILL IMPLY A SANCTION/EXPULSION FROM THE PRACTICE.

CRITERIA FOR THE GRANTING OF HONOR REGISTRATION:

According to article 22 of the Regulatory Regulations for the Evaluation and Qualification of The Subjects of the UCV, the mention of "Honor Registration" may be granted by the teacher responsible for the subject to students who have obtained the qualification of "Outward". The number of mentions of "Honor Registration" that can be granted may not exceed five percent of the students included in the same official act, unless it is less than 20, in which case a single "Honor Registration" may be granted.

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.
- M3 Problem and case solving.
Social action activities.
- M4 Group work with research, discussion and filtering information about the degree subjects.
- M6 Discussion and problem solving.
- M8 Oral presentations by students.
- M9 Group work: group work sessions supervised by the teacher.
Knowledge building through interaction and activity of students.
- M10 Carrying out bibliographic reviews and practical work experience dissertations.
- M11 Practical in-person classes in clinics linked to the university, where the student will carry out different treatments under direct supervision from the assigned tutor .
- M12 Seminars, supervised monographic classes with shared participation.
- 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	R3	36,00	1,44
PRACTICAL CLINICAL SESSION M11	R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R21, R23, R25, R26	28,00	1,12
SEMINAR M12	R3	4,00	0,16
TUTORING M6	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, R26, R27, R28, R29, R30, R31, R32, R33	4,00	0,16
EVALUATION M6	R21	4,00	0,16
PRACTICAL CLASS M2	R15, R18	4,00	0,16
TOTAL		80,00	3,20

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M10	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, R26, R27, R28, R29, R30, R31, R32, R33	70,00	2,80
TOTAL		70,00	2,80



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block

Contents



CONTENTS

1. Introduction. Assessment of the state of health of the special patient. Epidemiological and preventive aspects of dental care for patients with previous pathology. .Dental treatment of the patient under medical treatment.
2. Clinical-dental management of cardiovascular patients
Clinical dental management of renal patients
3. Dental treatment of the patient with blood dyscrasias or coagulation disorders
- 4.4. Dental clinical management of the patient with endocrine-metabolic pathology.
- 5.5. Dental treatment of a patient with respiratory pathology
- 6.6. Dental treatment of the patient with liver pathology
7. Dental treatment of the patient with immunological pathologies
8. Dental treatment of the transplanted patient
9. Dental treatment of the patient with neurological disorders
10. The psychiatric and behavioral disorder patient
11. Prevention and management of emergency situations in the dental office.
12. Dental treatment of cancer patients: Radiotherapy and Chemotherapy.
13. Sedation in special patients .
14. The disabled patient. Sociosanitary consequences.
15. Adaptation of the clinic to the disabled patient.
16. The patient with cerebral palsy.
17. Other syndromes. Patients with sensory disabilities.
18. Dental management of patients with rare diseases
19. The diabetic patient. General
20. The diabetic patient. Dental management
21. Emergency situations in the dental office
22. Cardiopulmonary resuscitation techniques. General concepts.
23. Practical aspects in cardiopulmonary resuscitation
24. The patient with special needs. Daily practice in a dental care center. Dental assistance
25. The environment of the mentally disabled patient. First contact
26. Mental disability and autism
27. The digestive patient
28. Dental treatment of patients at risk or with special needs. Practical aspects of dental management



- 29. Oxygen therapy techniques. Indications and use of the different attachments
- 30. Dental treatment of the patient with special situations: contraception, pregnancy, lactation and menopause. burning mouth syndrome
- 31. The immunocompromised patient
- 32. The HIV positive patient
- 33. Basic life support
- 34. Advanced life support
- 35. Management of risk situations in the dental clinic
- 36. Airway management

Temporary organization of learning:

Block of content	Number of sessions	Hours
CONTENTS	40,00	80,00

References

- Bullón P, Machuca G, editores. Tratamiento odontológico en pacientes especiales. Madrid: Laboratorios Normon, SA; 2004. p.518-31.
- Silvestre FJ, Plaza A, editores. Odontología en pacientes especiales. Valencia: Universidad de Valencia; 2007.
- Bagán JV. Medicina bucal. Valencia: Medicina oral SL; 2008. p.369-400.
- Scully, C., Diz Dios, P., Kumar, N. 2006. Special Care in dentistry: Handbook of Oral Healthcare. Churchill Livingstone.
- Zambrano, A. J., Sigal, M. J. 2012. Textbook of Special Care Dentistry. Wiley-Blackwell.