

Year 2025/2026 480404 - Dentistry in Special Patients

### 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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### 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



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### 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 uses each instrument correctly.
R9	Applies the knowledge acquired about local anesthesia.
R10	Knows how to take a detailed clinical history of the patient, identifying his or her pathologies and drawing up the appropriate treatment plan.
R11	The student is able to work in a team.
R12	Proves the theoretical knowledge about possible medical emergencies that can occur in the dental office.
R13	Knows the instruments needed to attend to an emergency situation.
R14	Knows the pathologies that most frequently produce risk situations in the dental office.
R15	Knows CPR maneuvers.



R16	Proves to know the basic principles of medical emergency treatment.
R17	The student is able to establish a correct dental diagnosis in a medically compromised patient.
R18	Establishes a protocol to follow when treating a patient of medical risk.
R19	Knows the most important characteristics of the different disabilities and their clinical management.
R20	Proves to be able to know the clinical management of patients at medical risk.
R21	Identifies the patients of risk in the consultation.
R22	Identifies the main difficulties in the dental treatment of disabled patients.
R23	Proves to be able to establish a protocol of action in the dental treatment of disabled patients.
R24	Proves to be able to treat a disabled patient.
R25	Knows the preventive measures to be applied to disabled patients.
R26	Shows ability to recognise the error and desire to correct it.



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### 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 2/Obtain 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 2/Recognize life-threatening situations and know how to perform basic life support maneuvers.				x		



CE D 2Know 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 2Know 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	1 1 1 1 1 1
CE D 2¼Cquire 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			Weig	hting	j
		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	х			
1. f.	Information management capacity			x	
1. g.	Problem solving			x	
1. h.	Decision making			x	
2. i.	Teamwork				X
2. j.	Multidisciplinary teamwork			х	



2. k.	Work in an international context		
2. l.	Interpersonal skills		X
2. m.	Recognition of diversity and multiculturalism		x
2. n.	Critical Reasoning	x	1
2. o.	Ethical commitment		x
3. p.	Autonomous learning	x	1 1 1 1 1
3. q.	Adaptation to new situations		x
3. r.	Creativity		X
3. s.	Leadership	X	1 1 1 1 1
3. t.	Knowledge of other cultures and customs	x	
3. u.	Initiative and entrepreneurship	x	
3. v.	Motivation for quality	X	1 1 1 1 1 1
3. w.	Sensitivity to environmental and socio-health issues		





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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.
	5,00%	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%	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.



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0.00%

OSCES: SIMULATIONS. Through simulations. real-life situations are reproduced in standardised conditions, which enable the teacher to analyse the clinical skills of the student in specific situations. Computer simulations or standardised simulated illnesses are used. The test known as **OSCE** Clinical (Objective Structured Examination) also be used. The OSCE consists of students going around a circuit of sequential stops where they are asked to carry out a variety of different skills and techniques.

5.00%

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**

The written exam will consist of tests with 40 theoretical and practical questions. The multiple-choice part will be graded automatically, and each incorrect answer will deduct 0.083 points. To pass the exam, the student must have at least 20 correct answers on the test. The student must pass the written exam for the grades of attendance, participation, and practice sessions records to be added. It is necessary to attend and pass a practical exam at the Virtual Hospital to be able to access the written exam in the first call and obtain a passing grade in the practical notebook. To access the written exam, attendance and participation in at least 2 of the 3 practicals offered must be documented by signing with the responsible professor in the official practical notebook, which will be submitted online after the last day of practices sessions ends. No signatures of practices will be accepted outside the official notebook available online, which the student must upload to the platform once completed. Any student with an insufficient level of Spanish to attend to patients will not be able to act as an operator in the practices. Any student who does not fill out and sign the student annexes within the established timeframe will not be able to attend practices at external centers in CRUZ ROJA or NOSTRA CASA.

CLINICAL PRACTICES- Attendance to practices is mandatory. An absence can be justified (with the reasons outlined in the UCV statutes, provided it is communicated 7 days in advance or within the following 15 days), and in that case, the missed practice must be made up.- In the event of multiple absences from practices, or one unexcused absence, the student will not be able to take the final exam and must go directly to the 2nd call.- A maximum of 2 unexcused absences is established in order to be able to present to the 2nd call of that same year. If more than 3 unexcused absences are done, the student must repeat the subject the following year, with no possibility of presenting to any of the calls of the current year.- The student is obligated to comply with the clinic regulations regarding:



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Clothing: Full white uniform. Clean and ironed, clinical clogs. Care for the facilities. Behavior. Submission of practice booklet on time and in the agreed manner. FAILURE TO COMPLY WILL RESULT IN A SANCTION/EXPULSION FROM THE PRACTICE. CRITERIA FOR GRANTING HONORARY MENTION: According to Article 22 of the Regulatory Norm for the Evaluation and Grading of Subjects at UCV, the mention of "Honorary Mention" may be awarded by the responsible professor to students who have obtained a grade of "Excellent." The number of "Honorary Mentions" that can be awarded may not exceed five percent of the students included in the same official record, unless it is less than 20, in which case only one "Honorary Mention" may be granted.

In this subject, the possibility of a single assessment is not considered, as the mandatory completion of practical activities with active student participation is required.

#### **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.



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#### **IN-CLASS LEARNING ACTIVITIES**

	LEARNING OUTCOMES	HOURS	ECTS
THEORY CLASS M1	R1, R3	36,00	1,44
PRACTICAL CLINICAL SESSION M11	R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26	28,00	1,12
SEMINAR M12	R3	4,00	0,16
TUTORING 16	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18,	4,00	0,16
	R19, R20, R21, R22, R23, R24, R25, R26		
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		70,00	2,80
TOTAL		70,00	2,80



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### Description of the contents

Description of the necessary contents to acquire the learning outcomes.

#### Theoretical contents:

Contents
29. Oxygen therapy techniques. Indications and use of different devices
33. Basic life support
<ul><li>34. Advanced life support</li><li>35. Management of risk situations in the dental clinic 36.</li><li>Airway management.</li></ul>



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**TOPICS** 

- 1. Introduction. Assessment of the health status of special needs patients. Epidemiological and preventive aspects of dental care for patients with pre-existing conditions. Dental treatment of patients under medical treatment.
- 2. Clinical and dental management of cardiovascular patients.
- 3. Clinical and dental management of renal patients.
- 4. Dental treatment of patients with blood dyscrasias or coagulation disorders.
- 5. Clinical and dental management of patients with endocrine-metabolic disorders.
- 6. Dental treatment of patients with respiratory diseases. 7. Dental treatment of patients with liver diseases. 8. Dental treatment of patients with immunological disorders.
- 9. Dental treatment of transplant patients. 10. Dental treatment of patients with neurological disorders.
- 11. Psychiatric patients and patients with behavioral disorders. 12. Prevention and management of emergency situations in the dental office.
- 13. Dental Treatment of Cancer Patients: Radiotherapy and Chemotherapy
- 14. Sedation in Special Needs Patients
- 15. The Disabled Patient: Socio-Health Consequences
- 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: General23. Practical Aspects of Cardiopulmonary Resuscitation
- 24. The Patient with Special Needs Daily practice in a dental care center. Dental care
- 25. The environment of the mentally disabled patient. Introduction. 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
- 30. Dental treatment of patients with special situations: contraception, pregnancy, breastfeeding, and menopause. Burning mouth syndrome.
- 31. The immunocompromised patient



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32. The IV-positive patient

#### Temporary organization of learning:

Block of content	Number of sessions	Hours
PRACTICE SESSIONS	22,00	44,00
TOPICS	18,00	36,00

#### 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.