



Information about the subject

Degree: Bachelor of Science Degree in Dentistry

Faculty: Faculty of Medicine and Health Sciences

Code: 480507 **Name:** Emergencies in Dentistry

Credits: 6,00 **ECTS Year:** 5 **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



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 Makes an adequate clinical history.
- R2 Knows the different parts of the physical examination of the patients.
- R3 The student is capable of making a diagnostic judgement based on the data from the anamnesis and examination.
- R4 Formulates a therapeutic plan and a prognosis for the different pathologies.
- R5 Knows the different possible causes of loss of consciousness, abdominal pain and chest pain.
- R6 Knows the different drugs used in different medical emergency situations.
- R7 The student is able to know the steps necessary to intubate a patient who is going to be operated on under general anaesthesia.
- R8 Knows the phases of dental surgical treatment, both scheduled and unscheduled.
- R9 The student is able to make a diagnosis of a patient who goes to a dental clinic.
- R10 Knows the therapeutic attitude to adopt in dental emergencies.
- R11 Knows the measures to be taken in a medical emergency situation
- R12 Knows CPR maneuvers.
- R13 Proves to know the basic principles of medical emergency treatment.
- R14 Knows how to handle situations that require basic life support.
- R15 Proves to have the necessary knowledge to administer the necessary medication in medical emergency situations.



- R16 Knows the epidemiology of dental trauma.
- R17 Proves to know the prevention, classification and etiology of dental trauma.
- R18 Proves to know the effect of traumas on apical maturation and the commitment to the viability of the tooth.
- R19 Proves to be able to diagnose and treat pulp problems derived from dental trauma.
- R20 Proves to be able to diagnose and treat coronal, corono-radicular and radicular fractures.
- R21 Proves to to treat dental avulsions, as well as the maintenance and conservation of avulsed teeth
- R22 Manages the organization, design and structure of a scientific communication.
- R23 The student is competent in the diagnosis of dental trauma.
- R24 Identifies the possible complications that may appear in patients at medical risk.
- R25 Prevents the establishment of an emergency situation by applying each action protocol for each type of patient at risk.



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. 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
	80,00%	MULTIPLE CHOICE TEST: Multiple choice test with one correct answer. This shows to greater extent the contents acquired by the student.
	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.
	10,00%	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

To attend the first call exam, attendance at the practices must be justified by signing the official notebook. Only 1 excused absence is allowed. THE ASSISTANCE IS MANDATORY following the UCV rules. To pass the subject, you must obtain at least 5 points out of 10 in the test. The rest of the qualifications (practical exam, participation and work) will be added only if 5 points out of 10 are obtained in the multiple choice exam. The exam will be multiple choice with 40 questions with 5 possible answers. Each wrongly answered question will subtract 0.083 points. There will be 4 mandatory practices per student. Only 1 excused absence is allowed. If the student has 2 justified absences, he will attend the second call. Unexcused absences or more than 2 justified absences implies that the student must take the subject again next year. Second or successive enrollment students must not take the practicals again. In the practices, the student must comply with the rules of UCV clinics in terms of clothing, use of facilities and behavior. If they are not met, the student may be expelled from the practices. In order to act as main operator, the student must have linguistic competence in Spanish.



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	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	36,00	1,44
PRACTICAL CLINICAL SESSION M3	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	28,00	1,12
SEMINAR M1	R4	4,00	0,16
TUTORING M1	R4	4,00	0,16
EVALUATION M3	R3, R4	4,00	0,16
PRACTICAL CLASS M3	R6, R10, R11, R12, R13, R14, R15	4,00	0,16
TOTAL		80,00	3,20

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
INDIVIDUAL WORK M4	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	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	<ol style="list-style-type: none">1. INTRODUCTION. IMPORTANCE OF DENTIST TRAINING TO HANDLE A MEDICAL EMERGENCY SITUATION IN THE DENTAL CLINIC UNIT.2. RISKY SITUATIONS IN DENTISTRY PATIENT3. DENTAL CARE IN PATIENTS AT RISKY PATIENTS4. ACCIDENTS IN THE DENTAL CLINIC PATIENTS5. INSTRUMENTS IN EMERGENCY SITUATIONS6. ACTION PROTOCOLS IN VITAL EMERGENCY SITUATIONS7. ACCIDENTS AND COMPLICATIONS IN LOCAL ANESTHESIA8. EMERGENCIES IN EXODONTICS9. PAIN IN DENTISTRY10. ANALGESICS AND ANTI-INFLAMMATORY AGENTS11. ORAL BLEEDING12. ACUTE INJURIES OF THE ORAL MUCOSA13. ODONTOGENIC INFECTIONS: DIAGNOSIS14. TREATMENT OF ODONTOGENIC INFECTIONS15. OROFACIAL INJURIES16. ALVEOLODENTAL INJURIES17. EMERGENCIES IN IMPLANTOLOGY18. LEGAL ASPECTS IN EMERGENCIES



Temporary organization of learning:

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

References

- Malamed SF. Manual de urgencias en el consultorio dental. 7ª ed. Elsevier; 2015.
- Andersson L, Andreasen JO, Day P, Heithersay G. Traumatic dental injuries: A manual. 3ª ed. Wiley-Blackwell; 2012.
- Scully C. Medical problems in dentistry. 7ª ed. Churchill Livingstone; 2013.
- Urgencias en la clínica dental. M Donado. Ed. Laboratorios Rhone-Poulenc Rorer. Madrid 1996.
- Farreras-Rozman.: Medicina Interna, Barcelona, Ed. Marin, 8ª ed. 1974
- Lorenzo Velázquez, B.: Farmacología y su proyección clínica, Madrid, Ed. Oteo 13ª Ed. 1976