

**COURSE DATA****DATA SUBJECT**

Code: 34714
Name: Oral medicine
Cycle: Undergraduate Studies
ECTS Credits: 12
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
1206 - Degree in Dentistry	Facultat de Medicina i Odontologia	3	Annual

SUBJECT-MATTER

Degree	Subject-matter	Character
1206 - Degree in Dentistry	Oral medicine	COMPULSORY

COORDINATION

BAGAN DEBON LETICIA

SUMMARY

Oral Medicine is a core subject which belongs to Pathology and Therapeutic module. Degree in Dentistry has allocated 12 ECTS credits and has been given theoretical practice with clinical practices.

It is taught in the third year of the degree of Dentistry. It has an important relation with the subjects of the previous year, specifically with Medical Pathology and Oral Manifestations of systemic diseases.

Oral Medicine represents the most medical subject of Dentistry in which the students will gain knowledge of different pathologies and systemic diseases and those that can give a manifestation in another organ or body system.

In this core subject of the Degree of Dentistry it is expected to give to the dental student the information and knowledge of the oral mucosa, maxillary bones and salivary glands diseases from the point of view of its etiology, diagnosis and medical treatment of different diseases.

An internship will be carried out in the Interdisciplinary Simulation Center of Health Sciences of the University of Valencia.



PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

1206 - Degree in Dentistry

Obligation to have previously passed the subject(s)

34696 - Human anatomy
34697 - Biology
34698 - Human physiology
34699 - Biochemistry
34700 - Microbiology and immunology
34701 - Histology
34702 - Psychology and communication
34704 - Biomaterials and ergonomics I
34708 - Documentation, professionalism and forensic dentistry
34709 - General medical pathology and paediatrics
34710 - Oral manifestations of systemic illnesses

COMPETENCES / LEARNING OUTCOMES

1206 - Degree in Dentistry

Conocer los procedimientos y pruebas diagnósticas clínicas y de laboratorio, conocer su fiabilidad y validez diagnóstica y ser competente en la interpretación de sus resultados.

Establecer el diagnóstico, pronóstico y una adecuada planificación terapéutica en todas las áreas clínicas de la Odontología, siendo competente en el diagnóstico, pronóstico y elaboración del plan de tratamiento odontológico del paciente que requiera cuidados especiales, incluidos los pacientes médicamente comprometidos (como diabéticos, hipertensos, inmunodeprimidos, anticoagulados, entre otros) y pacientes con discapacidad.

Identificar el principal motivo de consulta y la historia de la enfermedad actual. Realizar una historia clínica general del paciente y una ficha clínica que refleje fielmente los registros del paciente.

Obtain and elaborate a clinical history with relevant information.

Realizar procedimientos limitados de técnicas diagnósticas invasivas en tejidos blandos (biopsias).

Realizar tratamiento médico de las enfermedades comunes de los tejidos blandos bucales.

Reconocer la normalidad y la patología bucal, así como la evaluación de los datos semiológicos.

Saber realizar un examen bucal completo, incluyendo las oportunas pruebas radiográficas y de exploración complementarias, así como la obtención de adecuadas referencias clínicas

Tener capacidad para elaborar un juicio diagnóstico inicial y establecer una estrategia diagnóstica razonada, siendo competente en el reconocimiento de las situaciones que requieran una atención odontológica urgente.

Tomar e interpretar radiografías y otros procedimientos basados en la imagen, relevantes en la práctica odontológica.



Valorar la función motora y sensorial de la boca, los maxilares y anejos.

DESCRIPTION OF CONTENTS

1. THEORETICAL CLASSES

The syllabus of the Oral Medicine course is composed of the following thematic blocks:

BLOCK I. Medical pathology of the oral mucosa.

- Mechanical, physical and chemical injuries to the oral mucosa.
- Bacterial, viral and fungal infections of the oral mucosa.
- Immunological and mucocutaneous diseases of the oral mucosa.
- Benign tumours of the oral mucosa.
- Potentially malignant lesions of the oral mucosa.
- Oral cancer.
- Pathology of the tongue.
- Pathology of the lips.

BLOCK II: Medical pathology of the salivary glands.

- Components of saliva.
- Regulation of salivary secretion and functions of saliva.
- Diagnostic techniques in saliva and salivary gland pathology.
- Decreased secretion of salivary glands.
- Increased secretion of salivary glands.
- Sialoadenitis.
- Sialoadenosis.
- Saliva as a diagnostic fluid.

BLOCK III: Pathology of the jaws.

- Infections of the jaws: Osteonecrosis due to drugs. Osteoradionecrosis.
- Fibro-osseous lesions of the jaws.
- Giant cell lesions of the jaws.
- Odontogenic and non-odontogenic tumours of the jaws.

BLOCK IV: Orofacial nerve pathology.

- Orofacial neurogenic pain. Vascular algias.
- Myofascial and TMJ pain.
- Trigeminal neuropathies.
- Orofacial paralysis.

2. CLINICAL PRACTICES



Each student will carry out 44 hours of clinical practice with patients. According to groups G on Friday afternoons on the second floor of the dental clinics of the Lluís Alcanyís Foundation of the University of Valencia.

3. COMPUTER CLASSROOM PRACTICALS: DISCUSSION OF CLINICAL CASES.

Four sessions will be held according to computer groups I on Monday and Thursday afternoons, with a brief review of the theoretical contents and a discussion of clinical cases, in order to consolidate the theoretical knowledge acquired in class. The course will be divided into four groups according to group G and will be attended on Mondays or Thursdays, always respecting the practical timetables of other subjects.

4. SEMINARS

Five seminars will be held in which the student will analyse related to the topics of the course and apply theoretical knowledge to practical situations, thus reinforcing the concepts learnt (Groups P). The agenda of the seminars will be as follows:

SEMINAR 1: Aesthetic fillers in the lower facial third: classification, clinical applications and associated complications:

This seminar will address the use of aesthetic fillers in the peribuccal region with a focus on the different types of materials available, their aesthetic and functional indications, as well as possible associated complications (oedema, haematoma, nodules, immunological reactions or vascular compression). Management and prevention protocols in the dental and maxillofacial context will be reviewed.

SEMINAR 2: Clinical applications of the different types of lasers in Oral Medicine:

An updated review will be presented on the different wavelengths used in dentistry (diode laser, Er:YAG, CO₂, Nd:YAG, among others), their mechanisms of action and their clinical applications in oral medicine. Advantages, limitations and selection criteria according to the therapeutic indication will be analysed.

SEMINAR 3: Use of botulinum toxin in the therapeutic control of hypersalivation: rationale and clinical evidence:

This seminar will focus on the use of botulinum toxin type A as a minimally invasive therapeutic alternative for the management of sialorrhoea, especially in patients with neurological disorders or systemic diseases.

The mechanism of action on the salivary glands, guided administration techniques, recommended doses, duration of effect and possible adverse effects will be explained.

SEMINAR 4: Venipuncture techniques applied to the dental field: indications, protocol and clinical considerations:

Training in venipuncture is becoming increasingly relevant in dentistry, especially in obtaining samples for diagnostic studies, administering intravenous drugs or preparing platelet concentrates. This seminar will address the anatomical basis, selection of the puncture site, technical protocol, prevention of complications and biosafety criteria.



SEMINAR 5: Autologous growth factors in dentistry: types, biological properties, applications and their variants:

The different types of autologous platelet concentrates will be analysed, focusing on Plasma Rich in Fibrin (PRF) and its variants (L-PRF, A-PRF, i-PRF), highlighting their biological mechanisms of action, effects on healing and tissue regeneration, and their clinical applications in oral medicine. Protocols for obtaining, storing and evidence-based clinical application will be discussed.

*An evaluable activity will be carried out at the end of each of the three thematic blocks of the seminars.

5. DEVELOPMENT OF GROUP WORK: TRANSVERSAL PRACTICES

There will be a transversal practice in the classroom in which both third and second year students will take part, encouraging cooperative learning.

6. LABORATORY PRACTICES

Laboratory practices will be carried out in groups L, respecting the timetable proposed in the schedule, focusing on complementary diagnostic tests (haematological, cytological, histopathological and salivary) in which work will be carried out on phantoms or among the students themselves, thus facilitating the understanding and performance of these tests.

7. DEVELOPMENT OF INDIVIDUAL WORK: TEACHING INNOVATION PROJECTS

Use of new teaching methodologies in the form of audiovisual resources, collaborative learning and flipped classroom to address topics such as orofacial pain and oral examination (P Groups). Promote the use of artificial intelligence (ChatGPT) as an educational tool to analyse and resolve clinical cases of diabetic patients, encouraging collaborative work and critical thinking among students.

8. DEVELOPMENT OF INDIVIDUAL WORK: GAMIFICATION IN THE CLASSROOM.

Use of the Wooclap, Educaplay and Wordwall platforms to create visual and interactive content as a teaching methodology to reinforce content, introduce new concepts and self-assessment of acquired skills.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	52,00
Odontology practices	44,00



Laboratory	14,00
Computer classroom practice	40,00
Classroom practices	30,00
Total hours	180,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	30,00
Independent study and work	76,00
Preparation of lessons	3,50
Preparation for assessment activities	7,00
Resolution of case studies	3,50
Total hours	120,00

TEACHING METHODOLOGY

The theoretical classes will focus, above all, on providing the student with as much information as possible about where to obtain the necessary data to deal with the different diseases that will be taught throughout the course. Numerous clinical cases will be presented so that the student can better understand these entities.

The practicals will take place both in the general clinic (on Friday afternoons) and in small groups in the Oral Medicine clinic in the mornings. In both, students will see lesions and diseases of the oral mucosa in patients. They will be able to make their diagnoses and point out recommended treatments.

In the seminars, topics of differential diagnosis and therapy will be presented to complement the theoretical and practical classes.

Sessions will be held creating a debate on clinical cases in order to consolidate the theoretical knowledge acquired in class.

In addition, students will be given laboratory practicals focusing on complementary tests used in oral pathology.

A gender perspective, **respect for diversity** and the Sustainable Development Goals (SDGs) will be mainstreamed into teaching wherever possible.



EVALUATION

The final mark will be obtained as follows:

- a) Practices (clinical practices, seminars, computer practices, laboratory practices): 50%.*
- b) Assessment of acquired knowledge: 50% (40% final exam and 10% of the continuous assessments)*

FINAL EXAM (40%)

- THEORETICAL FINAL EXAM (90%)

There will be a theoretical final exam, which will consist of eight short questions (not multiple choice) and two long questions developed, on the theoretical contents of the subject.

-FINAL PRACTICAL EXAM (10%)

In addition to the final theory exam, students will have a final practical exam of clinical cases. This exam will not be on all the cases of all the content of the course. It will take place on the same day as the final theory exam.

CONTINUOUS EVALUATIONS (10%): Students will have two continuous evaluations, which will not eliminate subject content of the syllabus explained up to the moment when the evaluation takes place. The first will take place in December and the second in April.

Observation: In order to pass the course you must:

- 1.Attendance at the practical activities is compulsory. Students are considered to comply with this requirement if they attend a minimum of 80% of these activities and have adequately justified the impossibility of attending the remaining sessions of importance.*
- 2.To have passed both the final theory exams and the final practical exam with a 5 out of 10, the marks not being 0 and one of the two is less than five.*
- 3.To have taken the two continuous assessments (December and April).*



4. The practical part of the subject will not be kept from one academic year to the next. If the student repeats the subject, they have to repeat it in its entirety.

Students are reminded of the importance of carrying out the evaluation surveys to all the teaching staff of the degree.

It is a requirement for students to have successfully completed all of their internships in order to be able to take this subject.

REFERENCES

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- RECURSOS e-Salut: - ClinicalKey Student Medicina, Odontología y Enfermería [<https://uv-es.libguides.com/RecursosSalut>]- Acces Medicina [https://uv-es.libguides.com/Access_Medicina] - Médica Panamericana [https://uv-es.libguides.com/Medica_Panamericana]