

29327 - Periodontics I

Syllabus Information

Academic Year: 2021/22

Subject: 29327 - Periodontics I

Faculty / School: 229 - Facultad de Ciencias de la Salud y del Deporte

Degree: 442 - Degree in Odontology

ECTS: 6.0

Year: 3

Semester: Second semester

Subject Type: Compulsory

Module:

1. General information

1.1. Aims of the course

The subject of Periodontology I must train the student for the diagnosis and treatment of periodontal diseases, as well as promote the development of preventive attitudes of such diseases.

For this reason, the course aims for the student to achieve:

- Identify the presence of periodontal disease in the patient.
- Establish a proper diagnosis of it.
- Establish a general and individual prognosis for each of the pieces present in the mouth.
- Plan the most appropriate periodontal treatment for each of the patients.
- Carry out the established treatment plan and refer to a specialist if he considers that he is not capable of solving it alone, justifying why.
- Practice a follow-up of each one of the patients and insist on preventive practices to avoid the establishment of the disease in healthy patients.

1.2. Context and importance of this course in the degree

There is no doubt that periodontal disease is one of the most prevalent diseases in the world. Some epidemiological studies consider it the second most common disease in the population. Hence the importance that this subject represents within health in general, and dentistry in particular, since it is related to other pathologies such as diabetes, cardiovascular diseases, arthritis, pregnancy, etc.

In this subject we will see what types of pathologies include periodontal diseases, how to establish the appropriate diagnosis for each of them, what relationship it has with the rest of the disciplines of dentistry such as, for example, endodontics, prosthodontics, oral medicine, conservative dentistry, implants, etc. and also how to face and carry out the pertinent treatment in each of the different situations.

2. Learning goals

2.1. Competences

- Perform basic treatments of oral and dental pathology in patients of all ages. Therapeutic procedures should be based on the concept of minimal invasion and on a global and integrated approach to oral and dental treatment.
- To diagnose, plan and carry out, in general, a multidisciplinary, sequential and integrated treatment of limited complexity in patients of all ages and conditions and in patients with special needs (diabetic, hypertensive, oncological, transplanted, immunosuppressed, anticoagulated, among others) or disabled.
- To establish said diagnosis and treatment plan, the dentist must acquire the following skills:
 - Taking and interpreting radiographs and other image-based procedures relevant to dental practice.
 - Make diagnostic models, mount them and take inter-occlusal records.
 - Determine and identify the aesthetic requirements of the patient and the possibilities of satisfying her concerns.

- Identify the patient who requires special care, recognizing their characteristics and peculiarities.
- Assess the motor and sensory function of the mouth, maxillae and adnexa, and perform limited procedures of invasive diagnostic techniques in soft tissues (biopsies).

- For the establishment of an adequate treatment, the dentist must be competent in:

- Appropriate prescription of drugs, knowing their contraindications, interactions, systemic effects and repercussions on other organs.
- Apply loco-regional anesthesia techniques.
- Manage acute infections, including drug prescription and simple surgical aspects.
- Identify and attend to any dental emergency.
- Treat both pharmacologically and surgically inflammatory processes of periodontal and / or peri-implant tissues including supra and subgingival periodontal instrumentation techniques.

Transversal competences:

1. Know how to identify the concerns and expectations of the patient, as well as communicate effectively and clearly, both orally and in writing, with patients, family members, the media and other professionals.
2. Understand and recognize the social and psychological aspects relevant to the treatment of patients.
3. Understand the importance of maintaining and using records with patient information for subsequent analysis, preserving the confidentiality of the data.
4. To know the general processes of the disease, which include infection, inflammation, alterations of the immune system, degeneration, neoplasia, metabolic alterations and genetic disorders.
5. Be familiar with the general pathological characteristics of diseases and disorders that affect the organ systems, specifically those that have oral repercussions.
6. Understand the fundamentals of action, indications and efficacy of drugs and other therapeutic interventions, knowing their contraindications, interactions, systemic effects and interactions on other organs, based on the available scientific evidence.
7. Understand and recognize the principles of ergonomics and safety at work (including cross infection control, radiation protection, and occupational and biological diseases).
8. Have the ability to make an initial diagnostic judgment and establish a reasoned diagnostic strategy, being competent in the recognition of situations that require urgent dental care.
9. Establish the diagnosis, prognosis and adequate therapeutic planning in all clinical areas of Dentistry, being competent in the diagnosis, prognosis and preparation of the dental treatment plan of the patient who requires special care, including medically compromised patients (such as diabetics, hypertensive, immunosuppressed, anticoagulated, among others) and patients with disabilities.
10. Propose and propose the appropriate preventive measures for each clinical situation.
11. Recognize the role of the dentist in prevention and protection actions against oral diseases, as well as in the maintenance and promotion of health, both at the individual and community level.

2.2. Learning goals

To pass this subject, the student must demonstrate the following results:

- 1) Identify the symptoms referred by the patient, as well as the signs (through clinical examination and complementary tests), typical of periodontal pathology and peri-implant tissues.
- 2) Carry out a correct diagnosis, prognosis and treatment plan for the patient with a level similar to that worked in class.
- 3) Know how to distinguish all those situations that due to their complexity cannot be treated by the student, justifying why and know how to refer them to the corresponding specialist.
- 4) Carry out the basic phase of periodontal treatment, as well as the maintenance phase at a basic level.
- 5) Know how to properly assess the patient's conditions (eg age, sociocultural level, medical risks ...) in relation to the proposed treatment in order to satisfy her expectations, always assessing risks and benefits of the therapeutic act.
- 6) Know how to plan a work session in the dental office according to the functions that belong to each type of professional (dentist, clinical assistant, administrative).
- 7) Establish the therapeutic sequence in the event that a multidisciplinary treatment is required and know how to prepare an inter-consultation document in order to obtain the necessary information to be able to carry out the indicated treatment.

2.3. Importance of learning goals

The learning results obtained in the subject are important since they contribute in a fundamental way to attaining the knowledge and skills necessary for the diagnosis of periodontal diseases and to make the patient aware of the appropriate treatment for each case. Along with this, it will allow the student to carry out the basic treatment of periodontal diseases, which is considered fundamental in the Dentistry degree and is thus expressed in his Degree Project.

3. Assessment (1st and 2nd call)

3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

- Objective test of knowledge. It is a final exam with multiple choice questions (40 in total with five options being only one correct answer and 4 reserve questions). To pass the test, a minimum of 28 questions must be answered correctly. Wrong answers do not subtract points, blank answers neither add nor subtract marks. This objective test will contribute 50% to the final grade.

- Carrying out work and its defense, presentation of the resolution of problems and development of practical cases. This evaluation activity will contribute 20% to the final grade and is exceeded with a 5 out of 10.

- Carrying out practical exercises and assessment of technical skills developed in preclinical practices. This evaluation activity will contribute 30% to the final grade and is exceeded with a 5 out of 10.

The activities carried out in the preclinical practices cannot be virtualized, so, in the event that they could not be carried out due to the impossibility of the presence of the students, the evaluation of this practical part of the subject will be incorporated into the subject of the activity evaluation "performance of work and its defense". In this case, the weighting of the evaluation tests will be the following: Objective knowledge test (70%) and Completion and defense of works (30%).

Requirements to pass the course: It will be necessary to have passed all parts of the course, whether preclinical practices can be carried out normally or not.

* In the event that attendance is not possible, both the objective test and the presentation and defense of works will be carried out via online-telematics through the applications provided and collected by the University of Zaragoza.

Qualification system: The numerical qualification will be expressed in accordance with the provisions of art. 5.2 of Royal Decree 1125/2003 of September 5 (BOE September 18), which establishes the European credit system and the system of qualifications in official university degrees and valid throughout the national territory. Thus, the grades will be established in the following range: From 0 to 4.9: Fail (S); from 5.0 to 6.9: Pass (A); 7.0 to 8.9: Notable (N); from 9.0 to 10: Excellent (SB). The mention Honors may be awarded to students who have obtained a grade equal to or greater than 9.0.

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The learning process that has been designed for this subject is based on the following:

Clinical-exposition sessions.

Preclinical and clinical practices.

4.2. Learning tasks

- Lecture sessions by the teaching staff.
- Cooperative group work.
- Lecture sessions by the students.
- Resolution of clinical cases
- Practices in the preclinical laboratory and in the clinic.

4.3. Syllabus

THEORETICAL SESSIONS:

UNIT 1. ANATOMY OF THE PERIODONT.

UNIT 2. PHYSIOLOGY AND BIOCHEMISTRY OF THE PERIODONT.

UNIT 3. ETIOLOGY AND PATHOGENESIS OF PERIODONTAL DISEASES.

UNIT 4. PERIODONTAL MICROBIOLOGY.

UNIT 5. SYSTEMIC AND ENVIRONMENTAL FACTORS IN THE DEVELOPMENT OF PERIODONTAL DISEASE.

UNIT 6. CLASSIFICATION OF PERIODONTAL DISEASES.

UNIT 7. GINGIVITIS.

UNIT 8. NECROSANT PERIODONTAL DISEASES.

UNIT 8. PERIODONTITIS.

UNIT 9. DIAGNOSIS, PROGNOSIS AND PERIODONTAL TREATMENT PLAN.

UNIT 10. BASIC PERIODONTAL THERAPY.

UNIT 11. PERIODONTAL MAINTENANCE THERAPY.

PRACTICAL SESSIONS:

PRACTICE 1. PERIODONTOGRAM AND CLINICAL HISTORY.

PRACTICE 2. RADIOGRAPHIC SERIES, SIMULATION.

PRACTICE 3. PERIAPICAL RADIOGRAPHIC SERIES.

PRACTICE 4. HYGIENE SESSION - CURETTES AND SCRAPING AND ROOT SMOOTHING.

PRACTICE 5. PROFESSIONAL PROPHYLAXIS.

4.4. Course planning and calendar

The most important dates of the subject such as the enrollment date or the global examination of the subject, as well as the academic calendar and the updated schedule are reflected on the website of the Faculty of Health and Sports Sciences: <https://fccsyd.unizar.es/odontologia/grado-odontologia>

The planning of the activities and the dates of delivery of works will be communicated to the students in the presentation of the subject.

4.5. Bibliography and recommended resources

To consult the bibliography and recommended resources, you must access the *Recommended Bibliography* link.