

Academic Year/course: 2021/22

29336 - Paediatric Odontology I

Syllabus Information

Academic Year: 2021/22

Subject: 29336 - Paediatric Odontology I

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

Degree: 442 - Degree in Odontology

ECTS: 6.0

Year: 4

Semester: Second semester

Subject Type: Compulsory

Module:

1. General information

1.1. Aims of the course

The subject and its expected results respond to the following approaches and objectives:

Know how to identify the concerns and expectations of the patient, as well as communicate effectively and clearly, both orally and in writing with pediatric patients, family members and other professionals.

Identify the main reason for the consultation and the current illness. Make a general medical history of the pediatric patient and a medical record that faithfully reflects the records of the same.

Also identify the signs and attitudes that reflect the possible existence of abuse.

Know the psychobiological development of the child, knowing how to apply management techniques necessary to control behavior in pediatric dentistry treatment.

Carry out basic treatments for oral pathology. Therapeutic procedures should be based on the concept of minimally invasive and a comprehensive comprehensive approach to oral treatment.

Educate and motivate patients in prevention, control pathogenic oral habits, instruct them on proper hygiene, dietary and nutritional measures.

Carry out oral treatments of the child patient and recognize their characteristics and peculiarities.

Identify oral habits that may cause or accelerate malocclusions.

1.2. Context and importance of this course in the degree

According to the Resolution of February 2008, of the Secretary of State for Universities and Research, the conditions to which the curricula leading to obtaining the title of Dentist must be established were established. The planning of the teachings foresees the inclusion in the new study plan of the following modules:

- Module 1: Basic biomedical sciences relevant to dentistry.
- Module 2: Introduction to Dentistry; Materials and Instrumentation; Community Dentistry and Public Health; Initiation to Research and Communication Skills.
- Module 3: General medical-surgical pathology and therapy.
- Module 4: Odontological pathology, therapy and rehabilitation.
- Module 5: Practicum and final degree project.

Pediatric dentistry belongs to Module 4, being the area of ??Dentistry, which concerns the provision of preventive and therapeutic care for the oral health of the child from birth to adolescence.

This course provides the theoretical and practical bases for the correct performance of the dentist before the pediatric patient.

1.3. Recommendations to take this course

For a good use and progress in this subject and to be able to carry out their clinical practices within reasonable safety limits, students need to have extensive knowledge of anatomy, dental materials, operative treatment of caries in adults, anesthesia techniques and surgical maneuvers in the adult, orthodontics and dental radiology.

The subject of pediatric dentistry I has a theoretical-practical nature with clinical practices. It is essential to bring the subject up to date trying to understand the essential concepts, which is why it is advisable to attend theoretical classes.

2. Learning goals

2.1. Competences

Upon passing the subject, the student will be more competent to:

Carry out basic treatments for oral pathology in patients of all ages. Therapeutic procedures should be based on the concept of minimal invasion and a comprehensive and integrated approach to oral 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, etc.) or disabled. Specifically, the dentist must be competent in establishing a diagnosis, a prognosis and the development of adequate therapeutic planning, and in particular in:

- Dental and periapical pathology
- Oral trauma

To establish such a diagnosis and treatment plan, the dentist must acquire the following skills:

- Take and interpret radiographs and other image-based procedures relevant to dental practice.
- Carry out diagnostic models, assemble them and take interocclusal records.
- Determine and identify the aesthetic requirements of the patient and the possibilities of satisfying their concerns.
- Identify the patient who requires special care, recognizing their characteristics and peculiarities.
- Assess the motor and sensory function of the mouth, jaws and appendages and perform limited procedures for invasive diagnostic techniques in soft tissues (biopsies).

To establish 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 locoregional anesthesia techniques.
- Prepare and isolate the operative field.
- Manage acute infections, including prescription and simple surgical aspects.
- Identify and attend to any dental emergency.
- Perform both medical and surgical treatment of common oral soft tissue diseases.
- Perform simple surgical procedures: extraction of erupted temporary and permanent teeth, fractured or retained roots, and uncomplicated surgical extraction of non-erupted teeth and simple preprosthetic surgery procedures.
- Treat dentoalveolar trauma in permanent and temporary dentition.
- Assess and treat the patient with caries or other non-carious dental pathology and be able to use all the materials aimed at restoring the shape, function and aesthetics of the tooth in patients of all ages.
- Operatively treat destructive processes and traumatic dento-alveolar injuries.
- Perform endodontic treatments and apply procedures to preserve pulp vitality.
- Carry out the oral treatment of the infant patient and recognize its characteristics and peculiarities.
- Plan, determine the specific characteristics of design, registration, prescription, clinical tests, placement and clinical adjustment for commissioning of fixed and removable space maintainers, as well as interceptive orthodontic techniques and removable active elements intended to displace teeth or correct cross bites.

Transversal competences:

- Problem resolution.
- Decision making.
- Organizational and classification capacity.
- Capacity for analysis, synthesis and oral and written communication.
- Ethical commitment.
- Critical thinking.
- Skills in interpersonal relationships (teamwork with an interdisciplinary character and recognition of diversity and multiculturalism).
- Motivation for quality.
- Autonomous Learning.
- Adaptation to new situations and initiatives.
- Creativity and entrepreneurial spirit.

2.2. Learning goals

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

- Interpret aspects of the general and evolutionary development of the child, taking into account the influence of the natural and social environment, in order to diagnose normality or abnormality in relation to the child's oral health.
- Analyze the normal evolution of the dental arches, their growth, tooth replacement and occlusion.
- Diagnose and propose a treatment plan for childhood oral pathology.
- Establish a differential diagnosis, as well as a treatment plan.
- Evaluate through clinical examination and complementary tests, the signs of dental pathology.
- Adequately assess the patient's requirements in relation to the proposed treatment
- Develop the necessary skills to carry out the indicated treatment.
- Apply the principles of child psychobiology necessary to obtain the cooperation of the patient in dental treatment.
- Apply knowledge of other subjects to make a comprehensive diagnosis of the child, prioritizing her needs and planning the sequence of treatment.

2.3. Importance of learning goals

In a context of degrees aimed at acquiring the skills of experts, the learning outcomes represent the realization of a level of mastery of some of these skills, demonstrating an observable action or performance.

A competition has a potentially infinite developmental perspective. The learning result identifies what, specifically, the student will know how to do at the end of the process.

Based on what has been stated so far, the students must achieve through the development of the subject:

- Know the particularities of treatment and communication with child patients of different ages and be able to get their collaboration.
- Obtain a good examination and complementary tests, when necessary to complete a medical history that reflects the child's oral situation.
- Prepare a treatment plan ordering the aspects in which it will be necessary to intervene and how to maintain and improve oral health.
- Acquisition of theoretical knowledge regarding the characteristics of health and disease and the treatments that can be applied to treat the disease.
- Learn to handle child patients of different ages from the dental point of view, acquiring basic knowledge and skills in the clinic.

3. Assessment (1st and 2nd call)

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

Due to the exceptional situation in which we find ourselves caused by the COVID-19 pandemic, and given the changing situation, two forms of evaluation are presented:

Type A) in case of ordinary situation.

Type B) in case of interruption of classes (theoretical / face-to-face) due to the worsening of the population health situation.

Regardless of the two assessment options, the student must demonstrate that they have achieved the expected learning outcomes through the following assessment activities.

TYPE A ASSESSMENT

Assessment is an uninterrupted assessment process throughout the learning period in which the various aspects of the student's work will be taken into account.

To extract the final grade for the subject, the following will be assessed:

- Regular attendance at theoretical classes and active participation in them.
- Compulsory attendance to practical classes.
- Individual work of collection of practices (notebook of practices).
- Group work.
- Theoretical written exam that will consist of multiple-choice questions.
- Pre-clinical and clinical practice.

We obtain a broad and deep vision that allows us to issue an objective qualification of the students, not only by the result of a test, but by the evaluation throughout the entire course, after continuous and direct contact with it.

1. Theoretical part: written exam (40%): Multiple choice questions (40 in total with five options, only one answer being the correct one 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.

2. Group work (15%)

3. Practical part (35%): Assessment of practical activities carried out, attendance at practices and seminars. The evaluation will be continuous, taking into account the students' grade as well as their attitude during their development. Attendance is compulsory; Those students who accumulate more than three unexcused absences must take a final practical exam.

4. Regular attendance at theoretical classes and debates with active participation in them and practical classes (10%)

To pass the course, it is an essential requirement to pass the written theoretical test.

Passing the theoretical test does not imply passing the course since the assessment percentages described above will be applied in the continuous assessment to obtain the final grade for the course.

TYPE B ASSESSMENT

1. Attendance and active participation (attitude and aptitude of the student, so it will be necessary to activate the microphone and screen by the students) in face-to-face classes or through telematic sessions-videoconferences on the Google Meet platform, or similar (10%).

2. Group work (30%):

- Structure and realization: 15%

- Telematic defense: 15%. The defense will be carried out in person or online on the Google Meet platform. If it is done electronically, the student who begins the presentation will be in charge of passing all the slides of the exhibition, all members must participate in the presentation.

3. Practical activities (45%):

- Preparation of dossier on the practice of pulpotomies: 15%

- Preparation of a 15% nomenclature sheet (sheet 17 of the Practice Dossier) and delivery of carved soaps / candles according to the task of the Practice Dossier (deposited with the concierge or sending images by email).

- Preparation of a 15% clinical performance notebook (where the entire clinical sequence is detailed as precisely as possible, specifying all the necessary material, preparation techniques and clinical preparation, with the support of updated and referenced bibliography in the Pubmed, Scopus and Scielo) de: pit and fissure sealants, in first permanent molars; Class II fillings and reconstructions in two adjacent deciduous molars, Class III in the deciduous lower central incisor and lower canine and Class IV in the deciduous upper central incisor and upper canine, as well as placement of preformed crowns in deciduous teeth.

4. Theoretical test (15%):

Multiple choice test of 40 questions with four answer options: to obtain the passing grade it is necessary to answer a minimum of 28 answers correctly, the wrong answers do not subtract, the blank answer does not add or subtract.

Test completion time: 45 minutes.

To pass the subject it is necessary to pass the theoretical test.

In the event of not being able to carry out the continuous type B assessment, the theoretical final test type test exercise (face-to-face or on Moodle platform) and oral exam (face-to-face or on Google Meet platform, electronically, with recording of answers) must be carried out, as well as all the practical activities of the subject must be presented.

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 teaching-learning methodology in this subject is fundamentally based on face-to-face activities of a theoretical and practical nature. Part of the contents are introduced through a master lesson, which aims to present the students with the essential and most relevant topics of the subject. During the presentation, dialogue will be promoted through questioning, problem-based learning, resolution of doubts, etc.

Case studies and analysis of clinical assumptions will allow the student to become familiar with the critical analysis of information and reasoned decision-making, based on the information acquired.

The practical classes that will take place first in the preclinical classroom and later in the clinic aim to: firstly, provide the students with minimal skills and abilities to access clinical practices with patients and later recognize the particular characteristics of oral treatment in the patient child and learn the basic aspects of handling the child in the dental office, establishing an affective communication with the patient and their parents or guardians that allows them to advise the care and follow-ups necessary to promote the oral health of the child patient.

Group or individual work, to reinforce autonomous learning.

Carry out, where appropriate, a follow-up of group and individual work.

4.2. Learning tasks

The program offered to the student to help him achieve the expected results includes the following activities:

- Master classes according to the content of the subject, encouraging student participation.
- Individual and group work.

- Preclinical practices: on pediatric typodons.
- Clinical practices: on pediatric patients.

4.3. Syllabus

This course will address the following topics:

Unit 1. Introduction to Pediatric Dentistry.

Unit 2. Clinical history and examination in the pediatric patient.

Unit 3. Radiographic exploration.

Unit 4. Morphology of temporary teeth.

Unit 5. Dental development and eruption. Temporary teeth // Permanent teeth.

Unit 6. Dental anomalies.

Unit 7. Development of occlusion and dental replacement.

Unit 8. Disorders and pathology of the eruption.

Unit 9. Preventive pediatric dentistry.

Unit 10. Materials for use in Pediatric Dentistry.

Unit 11. Dental caries in children.

Unit 12. Treatment of dental caries in children.

Unit 13. Anesthesia in the pediatric patient.

4.4. Course planning and calendar

The most relevant dates related to the subject, such as the global theory exam, 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.