

29330 - Conservative Odontology III

Información del Plan Docente

Academic Year	2016/17
Academic center	229 - Facultad de Ciencias de la Salud y del Deporte
Degree	442 - Degree in Odontology
ECTS	6.0
Course	4
Period	First semester
Subject Type	Compulsory
Module	---

1.Basic info

1.1.Recommendations to take this course

This subject is fundamental for the professionals who want to work in this profession. 65% of consultations is due to dental pain ,mainly pulp pain, result of caries or traumatic processes.

Being able to diagnosis and treat this pain, will be the key for the success in the dental consultation.

1.2.Activities and key dates for the course

Week of 19-09-16, theory classes and preclinical practice will start, until 13-01-2017,when the first semester will finish.

2.Initiation

2.1.Learning outcomes that define the subject

Students ,to pass this subject, should show the following results....

1. Identify and describe properly the symptoms of dental and/or periapical pathology referred by the patient.
2. Establish a differentiating diagnosis, and a treatment plan.
3. Evaluate the concrete signs of dental and periapical pathology, by means of clinical exploration and complementary tests.
4. Value properly the patient's requirements related to the proposed treatment.
5. Explain, according to the patient's characteristics (age, social level...), the benefits and risks of the proposed treatment, so that you could get the consent and could satisfy his expectations.

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6. Establish the therapeutic sequence, in case a multidisciplinary treatment is required, and plan a working session in the dental office.
7. Solve with the correct conservative technique the diagnosed pathology.
8. Identify and solve any odontologic emergency with a dental or periapical origin.
9. Use the scientific method in the analysis of biologic systems and biomedical problems.

2.2.Introduction

The knowledge of the dental pathology is fundamental and an accurate diagnosis is essential in Odontology.

In this part of the subject, we will go into detail about general principles of Endodontics, which is very important in the university training of the pupil and also as a future professional. Endodontics deals with illnesses that affect dental pulp and also associated periradicular ones. It includes prevention, diagnosis and treatment.

In CONSERVATIVE ODONTOLOGY III we will go into detail about diagnosis and treatment of canal root pathology and also the reconstruction of teeth that need these treatment.

3.Context and competences

3.1.Goals

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

- Define the concept of Endodontics.
- Determine the causes of dental health lost and make a proper clinical history.
- Identify the different types of pulp pathology. Describe the etiology, fisiopathology and semiology of them and also establish the prognosis of the process.
- Describe and apply the proper diagnosis methods to each pathology .Establish a therapeutic guide for each type of pathology.
- Describe the nature and clinical application of materials used in Endodontics.
- Make the correct sequence for the treatment of canal roots.

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- Rebuild the original morphology of the tooth, respecting its triple function (chewing, vocal and aesthetic)
- Protect the hard dental tissue exposed, avoiding mechanic, thermal, osmotic, chemotoxic and bacterial influences on the pulp.
- Develop the capability of making scientific work (not only bibliographic revision but also research) and also making public speech.

3.2.Context and meaning of the subject in the degree

According to the 14 th February resolution of the State Secretary of Universities and Research it was set the condition of the curriculum to get the Odontology Degree .The plan of teaching includes the following modules:

- . Module 1: Basic biomedical sciences important for Odontology.
- . Module 2: Introduction to Odontology; Materials and Instrumentation; Community Odontology and Public Health; Initiation to Investigation and Communication Abilities.
- . Module3: General medical-surgical Pathology and therapeutic.
- . Module 4: Odontologic Pathology, therapeutic and rehabilitation.
- . Module 5: Practicum and end of grade work.

Conservative odontology belongs to Module IV and studies enamel, dentine and pulp affections and their complications and also the clinical techniques to their cure and renovation eliminating the minimum health dental tissue.

Its objectives are :

- To allow the patient to keep a correct mastication and aesthetic preserving the most part of health dental tissue, which will increase the survival of the tooth in a long term.
- To practice minimally invasive treatment for dental tissue.

It is known that about half of the professional work of a dentist is related to this discipline, so these contents have a fundamental function in the formation of a professional of Odontology.

3.3.Competences

1- Make basic treatment of oral pathology in simulators. Therapeutic procedures should be based on the concept of minimal invasion and a global and integrated perspective of dental treatment.

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2- Diagnose, plan and make a multidisciplinary treatment, sequential and integrated with limited complexity in patients. Specifically, the dentist must be competent in diagnosing, prognosing and developing a proper therapeutic plan, particularly :

. Dental and periapical pathology

. Dental traumas

3- To establish the diagnosis and treatment plan , the dentist must achieve the following competences:

- Take and interpret radiographies and other procedures based on images, relevant in Odontology.

- Determinate and identify the patient's aesthetic requirements and the possibility of satisfying them.

- Identify the patient who needs special care, realizing his characteristics.

4- To establish a proper treatment , the dentist must be competent in:

- Adequate prescription of drugs, knowing its counter-indications ,systemic effects and consequences on other organs.

- Apply local anaesthesia technique.

- Prepare and isolate the surgical field

- Deal with severe infections, including pharmacological prescription and simple surgery aspects.

- Identify and assist any odontologic emergency.

- Treatment dental trauma in temporary or permanent teeth.

- Value and treat the patient with caries or another dental pathology and be able to use all the materials needed to restore the shape, function and aesthetic of the tooth in patients of all ages.

- Design ,prepare the teeth, prescribe, register, make clinic tests and set and put into service indirect restoration : incrustations, veneers or aesthetic laminated fronts and unitary crowns.

- Treatment with surgery destroying processes and dental trauma.

- Make endodontic treatment and use procedures to preserve pulp vitality

- Make conventional aesthetic procedures from a multidisciplinary perspective

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5- Transversal competences

- To know the scientific method and be able to value the established knowledge and new information. To be able to formulate hypothesis, collect and value in a critic way the information to solve problems following the scientific method.
- To get and elaborate a clinical history with all relevant information.
- To be able to do a complete oral check, including needed radiographs, complementary exams and get the suitable clinical references.
- To be able to elaborate an initial diagnosis and establish a reasoned diagnosis strategy, being competent in recognizing situations which need urgent attention.
- To know and apply the basic treatment of the most usual dental pathology in patients of all ages. Therapeutic procedures should be based on the concept of minimal invasion and a global and integrated view of dental treatment.
- To know how to plan and make multidisciplinary treatments, sequential and integrated, with limited complexity in patients of all ages and condition, and in those who require special care.
- To suggest preventive measures suitable for each clinical situation.
- To get clinical experience under suitable supervision.

3.4.Importance of learning outcomes

In a context of degrees directed to get expert's competences, learning results represent the concrete level of some of these competences, showing observable actions.

A competence has a development perspective potentially infinite. The learning result identifies what the student will concretely be able to do at the end of the process.

From this point, we are presenting the expected results of this subject :

- To know the etiology, histopathology and prognosis of dental lesions, with caries origin or not, and value different pathologies affecting pulp and periapical tissue.
- To compile a complete dental history and establish a general therapeutic guide applying the correct diagnosis methods.
- To learn to make the therapeutic methods to preserve, establish or restore the shape, function and aesthetic of teeth in simulators prepared to resemble real clinic situations to which they will face.
- To get pre-clinical experience at University, under the appropriate supervision to make basic treatments that should be based on the concept of minimal invasion.

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4. Evaluation

- 1- Attendance to 100% of theoretical classes and /or practical seminars (1 point added to the final mark).
- 2- Evaluation of Pre-clinical Practices (30% of the final mark).
- 3- Work in groups about topics concentered by the teacher (10% of the final mark).
- 4- Theoretical test (40% of the final mark). It's divided in two parts :
 - 40 test questions ,where wrong answers don't subtract , but you will need 24 right answers to pass. (maximum value in this part will be 8 points)
 - 1 question to develop, to be answered in one sheet of paper maximum. (maximum value in this part will be 2 points).
 - You must pass both parts separately.
- 5- All the previous points must be passed individually.

5. Activities and resources

5.1. General methodological presentation

Theoretical classes. Participatory master class will be used, given that it is very appropriated for the low-level cognitive objectives (getting information, comprehension ...). Thematic expositions will rely on schemes and illustrations to ease students comprehension of the issue. Furthermore, in some thematic blocks additional material will be given and we will encourage the use of conceptual maps to achieve a deeper learning.

Seminaries. They will be used as theoretical-practical workshops given by the teacher or invited speakers to go into detail in specially interesting themes. We will also work the ABP technique ,to encourage participation and reasoning of pupils about issues related to the subjects.

Practical classes. Prepared with individual and cooperative activities. They will be developed in the preclinical room. These activities will make students be more interested in daily clinic they can find when they become professionals.

Work in group. We will also look for reinforcing the independent learning, by monographic works, individually or in groups, inside a reciprocity teaching. The work will include the research and bibliographic revision, redaction and oral exposition in class encouraging reflection and debate of some works, previously designated by the teacher.

5.2. Learning activities

The program offered to students to help them to achieve the expected results includes the following activities...

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1- PARTICIPATIVE MASTER CLASS

2- INDIVIDUAL OR GROUP WORKS

3- FACE-TO-FACE OR NO-FACE TO FACE TUTORIALS

4- SEMINARIES AND WORKSHOPS

5.3.Program

THEORETICAL PROGRAM

UNIT 1 .ENDODONTICS PRINCIPLES

UNIT 2.PUPLP AND PERIAPICAL PATHOLOGY

UNIT 3.ENDODONTICS INSTRUMENTS

UNIT 4.ENDODONTICS DIAGNOSIS

UNIT 5.CAVITY OPENING

UNIT 6.CONDUCTOMETRIA????? AND INSTRUMENTALIZATION OF RADICULAR CANAL ROOTS

UNIT 7.IRRIGATION OF CANAL ROOTS

UNIT 8.FILLING OF CANAL ROOTS

UNIT 9.RETREATMENT OF ENDODONTICS FAILURES

UNIT 10. EMERGENCIES AND ENDODONTIC S PHARMACOLOGY

UNIT 11. ENDODONTICS SURGERY

UNIT 12.COMPLICATIONS AND ACCIDENTS IN ENDODONTICS

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UNIT 13.RESTORE TEETH WITH ENDODONTICS TREATMENT

PRACTICAL PROGRAM

ENDODONTICS PRECLINICAL PRACTICES

PRACTICAL UNIT 1 Cavity opening, location and manual preparation of canal roots in uniradicular teeth (5) and biradicular teeth (5) (practices 1-2-3-4).

PRACTICAL UNIT 2 Cavity opening , location and manual preparation of canal roots in multiradicular teeth(10) (practices 5-6-7-8)

PRACTICAL UNIT 3 Filling canal roots by lateral condensation?? (practices 9-10-11-12)

5.4.Planning and scheduling

Theoretical classes and practices will start the first day of the academic course. That day you will be given the dates of the practices and presentation of works according to the school calendar. This dates will be exposed on the notice board and will be published in the "digital teaching ring"

5.5.Bibliography and recommended resources

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