University Specialist in Surgery and Regeneration in Oral Implantology.

 Academic year 2021/22

Location: Reald University, PgO UCAM Murcia

Mandatory attendance

ECTS European Credit Transfer System University Credits: 35

Reald-PgO UCAM Murcia University

Spanish-Italian language

Places available: 25

11 Meetings

Start date: February 2021

• The general objective of this postgraduate university training program is to train postgraduate students (stomatologists or dental graduates), with a solid and broad theoretical background, as well as adequate clinical experience where they will safely apply the knowledge gained in program development.

• This course has a clinical and investigative function in which the student has to prepare and develop, and then present, a final paper before a commission. Students will be able to critically analyze the published and selected scientific works and the techniques that will be used, they will learn and develop a technique with the aim of guaranteeing the patient functional health and adequate aesthetics in relation to each thematic unit and acquire knowledge profits based on evidence and with subsequent practical application.

* The university specialist has the fundamental objective of creating postgraduates capable of:
* Know and understand:
* • oral surgery, periodontology, prosthetics and oral implantology in the general context of the patient as a functional unit, which requires integral treatment.
* • the necessary bases for the knowledge of surgical processes related to implantology
* • the necessary skills so that they can deepen the topic of dental prosthesis, periodontology and oral surgery and acquire a more in-depth diagnostic criterion, as well as a more concrete knowledge of current techniques
* • the functional and aesthetic restoration processes, both partial and edentulous on implants
* • the techniques and materials used in complete partial dentures, both fixed and removable.
* • low, medium and high complexity oral rehabilitation based on scientific evidence.
* • all the characteristics of the materials and technologies currently available to provide a treatment with an adequate and predictable aesthetic result.
* • the different aesthetic procedures existing in dentistry.

• Be able to identify and prevent or treat the risk factors present in each patient (predisposition and / or trigger point)

• Be able to identify alterations, pathologies or special features that should be treated in collaboration with other medical specialists.

• Be able to identify the individual characteristics of the patient, physical, psychological and / or social, which may affect the treatment plan and / or its opportunity.

* Be able to organize an appropriate treatment plan and a logical therapeutic sequence for patients, as well as acquire the ability to present and defend the results of their work in a clinical session.

• Be able to apply treatment protocols and clinical monitoring of patients, as well as acquire the ability to systematically collect the clinical data of each patient.

* Know and know how to identify the adverse effects and / or clinical complications of implant treatments, as well as the clinical protocols for the resolution and treatment of these problems

• basic and advanced implantology techniques.

 • guided surgery and prosthetic processes

• surgical and prosthetic protocols.

• the protocol for the insertion of the post-extraction implant and functionalization of the provisional.

• advanced surgical techniques.

• the combined treatments of these processes.

• what are the functions of the implantology specialist within a multidisciplinary team

• the different therapeutic orientations and / or the different therapeutic protocols that are possible when planning treatment with different complexities

Course program

The course is deliberately practical, with a growth curve that already includes live surgery, practical exercises on models, and finally exercises on patients from the first day.

Module I: Basic Sciences in Implantology. • 3 ECTS

Theory:

Outline of surgical anatomy.

Types of dental arches and surface treatments. Predicting factors.

Diagnostic and evaluation of the patient in implantology.

Preoperative preparation of the patient.

Sterilization, preparation of the surgical and instrumental field

Local anesthesia, sedation and general anesthesia.

Implant specific instruments (surgical box, burs, osteomas, etc.)

Technique for inserting the surgical implant (Milling sequence, biological milling, primary stability, presses)

Live surgery.

Practice:

 Practical exercise of students on models.

Module II: Basic Sciences in Implantology. 3ECTS

Theory:

Bone histology and physiology. Bone scars. Tissue response to implants.

Surgical techniques of implantology.

Practice:

Incisions and sutures.

 Module III: Periodontology 3ECTS

Theory:

Physiology, microbiology, etiopathogenesis and epidemiology of periodontitis.

Clinic, diagnosis and prognosis of periodontal disease.

Clinical-radiographic examination

Hygienic phase of periodontal treatment

Basic periodontal surgery

Periodontal resective surgery. Techniques that are used today.

Classification of periodontal flaps

Clinical crown lengthening

Regenerative periodontal surgery. Decision process. Goals of regenerative therapy. Histological Concepts Diagnosis.

Classification of bone defects. Selection of the defect to treat. Indications of regenerative therapy. Modes of regenerative therapy.

Practice:

Soft fabric insert.

Module IV: Prosthetics on implants

Theory:

Occlusion on prosthesis implant

Occlusion scheme in special situations

Adjustments and assembly in the articulator

Types of prostheses on implants

Temporary prosthesis and definitive prosthesis

Clinical situations: single, flag, partial, total implants.

Full arch rehabilitation

Overdenture: design and types of bars.

Cemented and screwed prostheses

Prosthetic protocol and aesthetic optimization

Plattform switching

Maintenance of prostheses on implants

Module V: Sinus lift 3ECTS

Theory:

- theoretical program

Sinus lift. Anatomy of the maxillary sinus: surgical complications

Clinical-radiological diagnostics: interpretation of orthopantomographies and CT scans

Indications, contraindications and alternatives

Necessary tools. Biomaterials: types of inserts, membranes, consolidation time

Surgical technique

Breast Lift Complications

Practice:

Breast lift practice on an animal model.

Aesthetics in implantology

Module VI: Bone regeneration 3ECTS

Theory:

Minor and major bone augmentation

Practice:

Pupils exercise on animal models

Module VII: Crest Expansion 3ECTS

Theory:

Clinical applications

Block grafting, particle bone extraction

Expansion of the atrophic crest

Ridge expansion techniques

Removal of implants

Orthodontic microsurgery

Ultrasonic detachment of the periosteum

Cleaning and maintenance of plants

Minimally invasive guidance of thin ridges

Practice

Students exercise on animal models

Module VIII: Short implants 3 ECTS

Theory:

Usage, limitations and benefits

Live surgery

Module IX: Guided bone regeneration of tissues in large atrophies 4 ECTS

Theory:

Insert blocks with osteosynthesis screws

Live surgery

Module X and XI Clinical practice on patients 7 ECTS

Each student will perform a live surgery on a patient based on the level of preparation.

It will take place in the offices of Albania or Spain (UCAM DENTAL MURCIA, PGO MADRID, PGO BARCELONA OR PGO MALAGA)

Evaluation criteria:

During this postgraduate course, a continuous evaluation will be carried out with individual theoretical and practical exercises in order to pass the final exam. In order to be assessed, the student must attend 80% of both theoretical and practical lessons. The marks will be expressed on a scale of 0-10.

Teachers:

Dr. Pietro Rutigliani

Dr. Juan Alberto Fernández

Dr. Ennio Calabria

Dr. José María Aguado Gil

Dr. Vicente Gimeno

Cost: € 9,400

Those who finish the path of the specialist will be able to access the

Master.Dates of the meetings:

Module 1: 19/20 February 2021

Module 2: 19/20 March 2021

Module 3: 23/24 April 2021

Module 4: 28/29 May 2021

Module 5: 25/26 June 2021

Module 6: 9/10 July 2021

Module 7: 17/18 September 2021

Module 8: 22/23 October 2021

Module 9: 26/27 November 2021

Module 10: 14/15 January 2022

Module 11: 25/26 February 2022