

# Postgraduate Diploma

## Basic Periodontal Surgery and Laser in Periodontics





## Postgraduate Diploma Basic Periodontal Surgery and Laser in Periodontics

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 16 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/dentistry/postgraduate-diploma/postgraduate-diploma-basic-periodontal-surgery-laser-periodontics](http://www.techtute.com/us/dentistry/postgraduate-diploma/postgraduate-diploma-basic-periodontal-surgery-laser-periodontics)

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# 01

# Introduction

Today, surgical therapy represents a solution for many periodontal pathologies. Advances in techniques and equipment have improved tissue rehabilitation and function for many patients in recent years. This program is designed to provide the professionals with an updated surgical approach and the use of lasers in periodontal disease, with a practical orientation adapted to their needs.





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*Improve your knowledge with this program where you will find top level clinical cases and materials. Improve the quality of your clinical practice through the Postgraduate Diploma in Basic Periodontal Surgery and Laser in Periodontics"*



Gingival and periodontal diseases are among the most common human diseases. Gingivitis affects approximately 50% of school children, and more than 70% of the adult population has suffered from gingivitis, periodontitis or both. Periodontitis is thought to account for 30 to 35% of all tooth extractions while caries and its sequelae account for as much as 50%.

New techniques in the surgical approach, as well as the introduction of laser as an effective therapy, have improved the response options to periodontal pathologies in a remarkable way.

The knowledge acquired in this program will give the students the ability to face working life from a more qualified position, giving them a clear advantage when it comes to accessing a job, as they will be able to offer the application of the latest technological and scientific advances surrounding the field of periodontics.

The fundamental justification of the program is, therefore, to train professionals with adequate knowledge, skills, attitudes, values and competencies, who are able to serve society by satisfying its health demands, both in terms of prevention, diagnosis and treatment, in an ethical, efficient and safe manner. This professional must appreciate the need for lifelong professional development and continuing education, be able to efficiently utilize advances in knowledge and technology, and understand the central role of the patient in therapeutic decision making.

This **Postgraduate Diploma in Basic Periodontal Surgery and Laser in Periodontics** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ The development of clinical cases presented by experts in the different dental specialties
- ◆ The graphic, schematic, and practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- ◆ New techniques in surgical treatment and laser use in periodontal disease.
- ◆ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ◆ With a special emphasis on evidence-based medicine and research methodologies in periodontal surgery.
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*Update your knowledge through the Postgraduate Diploma in Basic Periodontal Surgery and Laser in Periodontics, in a practical way and adapted to your needs"*

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*This Postgraduate Diploma is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in periodontal surgery and the use of lasers in periodontics, you will obtain a diploma from TECH Global University"*

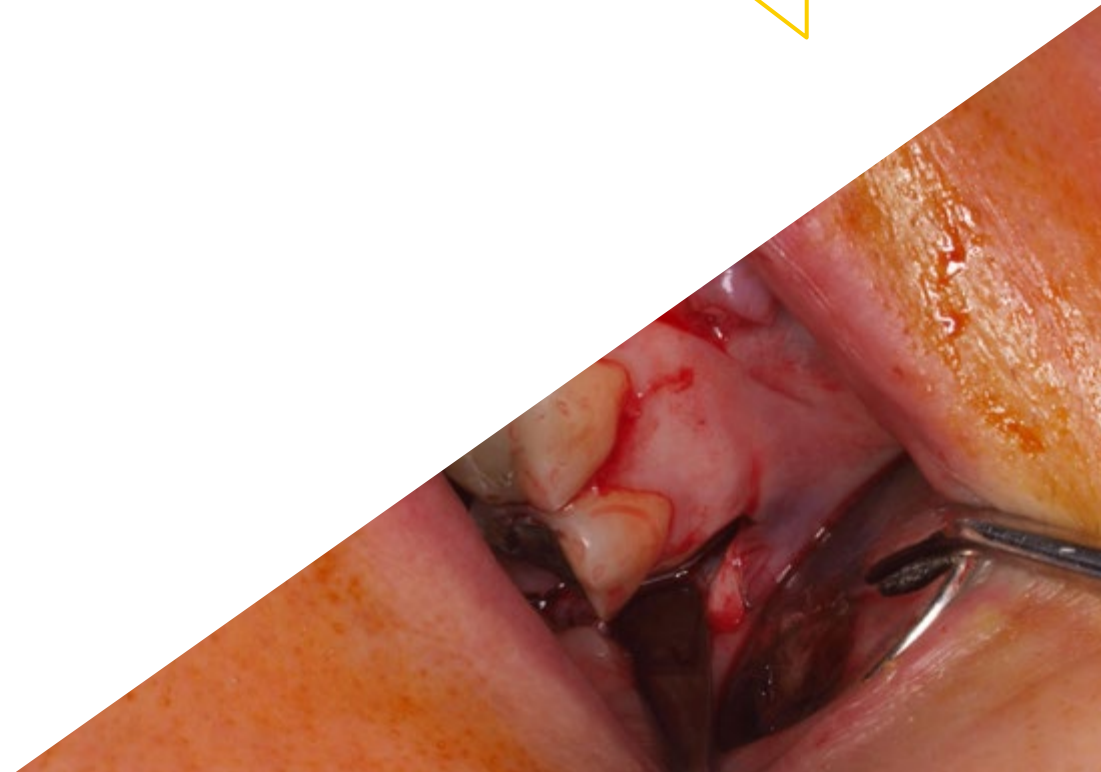
Forming part of the teaching staff is a group of professionals in the world of Dentistry, who bring to this course their work experience, as well as a group of renowned specialists, recognised by esteemed scientific communities.

Thanks to its multimedia content developed with the latest educational technology, they will allow the professionals a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to prepare in real situations.

This program is designed around Problem-Based Learning, whereby the student will must try to solve the different professional practice situations that arise during the course. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of radiology with extensive teaching experience.

*This program offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.*

*It includes clinical cases to bring the program's degree as close as possible to the reality of care in dentistry.*



02

# Objectives

The main objective of the program is the development of theoretical and practical learning, so that the dentists can master in a practical and rigorous way the latest techniques in periodontal surgery and the use of lasers.





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*This refresher program will generate a sense of confidence when practicing medicine, which will help you grow both personally and professionally”*



## General Objectives

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- Update the theoretical and practical knowledge of the dentist in the different areas of periodontics and implantology, through evidence-based dentistry.
- Promote work strategies based on a multidisciplinary approach to patients who are candidates for periodontal or implant therapy
- Encourage the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online simulation workshops and/or specific education
- Encourage professional stimulation through continuous education and research



*Take the opportunity and take the step to get up to date on the latest developments in surgical treatment and use of lasers in periodontal disease."*





## Specific Objectives

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### Module 1. Basic Periodontics

- ♦ Explain the macroscopic and microscopic anatomy of the periodontium, jaws and adjacent tissues and know how to apply this knowledge in diagnosis and periodontal and implantological treatments
- ♦ Describe the biology of osseointegration and be able to establish the biological differences between periodontal and peri-implant tissues.
- ♦ Perform pre-surgical clinical history, pharmacological interactions and radiological techniques for periodontal diagnosis

### Module 2. Periodontal Diseases

- ♦ Describe the etiopathogenesis and epidemiology of periodontal diseases, as well as the mechanisms of immune response and the role of cellular and molecular mediators in the evolution of periodontitis

### Module 3. Examination, Diagnosis and Treatment Plan

- ♦ Describe basic surgical procedures: incisions, types of flaps, sutures, etc.
- ♦ Learn about each of the pathologies and alterations that can affect the periodontium, as well as the available means for their diagnosis
- ♦ Define each of the diagnostic means to study patients susceptible of being rehabilitated with implants

### Module 4. Basic Non-Surgical Periodontal Treatment Initial Phase

- ♦ Explain the non-surgical procedures of the initial phase
- ♦ Identify the main therapeutic techniques that allow non-surgical treatment of dental treatments.

### Module 5. Surgical Periodontal Treatment Periodontal Surgery Access Therapy

- ♦ Explain one- and two-stage surgical procedures, prepare the surgical field and master sterilization protocols.
- ♦ Know how to perform a complete periodontal and adnexal tissue examination
- ♦ Know how to perform and interpret a complete periapical series with parallelism technique

### Module 6. Laser in Periodontics

- ♦ Conduct research on lasers in the periodontal process.
- ♦ Identify the improvements offered by lasers in periodontics



03

# Course Management

This program includes in its teaching staff health professionals of recognized prestige, who belong to the field of periodontal surgery, and who pour into this training the experience of their work. In addition, renowned specialists, members of prestigious national and international scientific communities, are involved in designing and preparing the program.





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*Learn from leading professionals  
the latest advances in the surgical  
treatment of periodontal disease”*



## International Guest Director

Dr. Leena Palomo is an eminent educator, clinician and dental researcher, internationally recognized. With a solid academic background and a career marked by excellence, she stands out as a leading figure in Periodontology, committed to innovation, research and excellence in patient care. She currently holds a senior position as Chair of the Arthur Ashman Department of Periodontology and Implant Dentistry, one of the leading programs in periodontology, whose primary mission is to educate undergraduate and graduate students; engage in clinical and laboratory and provide comprehensive and optimal periodontal care to the people of New York. Her research focus has centered on vital areas such as women's health, aesthetics and quality of life. Of particular note is her leadership in collaborating with the Cleveland Clinic and the Center for Specialized Women's Health. In addition, she has played a key role in periodontal research and treatment for rheumatoid spectrum diseases, speaking at numerous national and international conferences on Sjögren's and Rheumatology, as well as publishing her wellness findings in multidisciplinary and interprofessional journals. Her commitment to educational excellence and mentoring has led numerous dental and medical students to achieve recognition for the quality of their theses. In this context, Dr. Palomo's educational philosophy emphasizes the importance of curiosity and constant questioning to drive discovery and continuous learning in the field of contemporary periodontology. Likewise, her outstanding career in the field of Dentistry and Periodontology has been rewarded with several awards for her work and research. Some examples are the "Strides in Science", American Association of Dental Research November Researcher (2012), and the American Academy of Periodontology, Board of Trustees, Special Citation Award (2019). She also actively collaborates with the American Academy of Periodontology (AAP) Foundation to improve the dental health of society through the dissemination of periodontal diseases and their therapies.



## Dr. Leena Palomo

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- Chair of the Arthur Ashman Department of Periodontology and Implant Dentistry.
- Professional Master's Degree in Periodontology from Case Western Reserve University
- Bachelor of Science in Dentistry from Case Western Reserve University. Awards:
- Strides in Science," American Association of Dental Research November Researcher (2012)
- American Academy of Periodontology, Board of Trustees, Special Citation Award (2019)
- Member of:
- North East Society of Periodontology
- American Board of Periodontology
- Levi Award, American Academy of Periodontology Foundation
- College of Dentistry
- American Academy of Periodontology (AAP) Foundation

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*Thanks to TECH, you will be able to learn with the best professionals in the world"*

## Management



### Dr. Bellver Fernández, Ricardo

- Degree in Dentistry Cardenal Herrera University
- Assistant dentist in the Oral Surgery, Periodontics and Implantology Service Unit. Ricardo Bellver Dental Clinic
- Master's Degree in Implantology and Oral Surgery Cardenal Herrera University
- Master's Degree in Dental Sciences University of Valencia
- Master in Periodontics. Claudio Gioia Dental Clinic
- Surgical training at the Maxillofacial Service of the La Fe University Hospital, Maxillofacial and Stomatological Service unit, outpatient and operating rooms, children's and adult unit. Led by Dr. MC Baquero de la Hermosa
- Member of the Spanish Society of Prosthetics, Stomatology and Aesthetics (SEPA)
- Fellowship in Bone Regeneration. Brescia, Italy
- Training in Mucogingival Surgery at the University of Bologna, Italy



### Dr. Martínez Gómez, Berta

- ♦ Degree in Dentistry at the service of PRODENTAL, Dental Clinic, Dr. Mateo & Dr. Ribas
- ♦ Degree in Dentistry from the University of Barcelona
- ♦ Master's Degree in Comprehensive Periodontics C.G. Ongoing Training with Prof. Raúl G. Caffesse
- ♦ Master's Degree in Implantology and Prosthodontics CIDESID
- ♦ Postgraduate course in Endodontics Dr. Hipólito Fabra
- ♦ Diploma in Endodontics CIDESID
- ♦ Advanced Multidisciplinary Course. Dr. Iñaki Gamborena, San Sebastián, Spain
- ♦ Course in Prosthodontics and Dental Aesthetics CIDESID
- ♦ Layering course on posterior and anterior teeth by CIDESID
- ♦ *Theoretical-practical course of periodontal surgery: Periodontal and Peri-implant tissue reconstruction. Professor. Massimo de Sanctis - Dr. Fabio Vignoletti. Italian Society of Dental Training. Forli, Italy*
- ♦ Collaborating Professor Professional Master's Degree in Comprehensive Periodontics C.G. Training. Professor. Dr. Raúl Caffesse
- ♦ Private practice dedicated to Periodontics and Conservative Dentistry
- ♦ Member of the SEPA and *Fellowship* in Bone Regeneration. Dr. Carlo Tinti. Brescia, Italy

## Professors

### Dr. Abdi Galán, Barán

- ◆ Degree in Dentistry Rey Juan Carlos University (Madrid, Spain)
- ◆ Dentist Specialist in Periodontics and Osseointegration of the General Council of Dentists and Stomatologists of Spain
- ◆ Modular Master's Degree in Clinical Endodontics. Dr. C. Stambolsky. Atheneum of Postgraduate Dentistry (Madrid, Spain)
- ◆ Specialist in Implantoprosthesis. Rey Juan Carlos University (Madrid, Spain)
- ◆ Expert in Dental Clinic Management. Udimá
- ◆ Member of SEPA, Spanish Society of Periodontology and Osseointegration
- ◆ Member of SEPES, Spanish Society of Stomatological Prosthesis

### Dr. Hernández Cobo, Álvaro

- ◆ General dentist specialized in periodontics and prosthodontics. Model
- ◆ Degree in Dentistry at the University of Alfonso X el Sabio. Madrid
- ◆ University specialist in implants by the Miguel Hernández University. Elche
- ◆ Master's Degree in Comprehensive Periodontics C.G. Ongoing Training. Professor. Raúl G. Caffesse
- ◆ Professional Master's Degree in Occlusion and Prosthodontics from the *European School of Oral Rehabilitation Implantology and Biomaterials*
- ◆ Advanced course in Aesthetic Mucogingival Surgery Dr. Giovanni Zucchelli
- ◆ Advanced multidisciplinary course Dr. Iñaki Gamborena
- ◆ Private practice specializing in periodontics, implants and high complexity oral rehabilitation
- ◆ Collaborating Professor of the Master's Degree in Periodontics Dr. Raúl Caffesse at CG. Education

### Dr. Martínez, Ana María

- ◆ Specialist in Dentistry
- ◆ Specialist in periodontics, implants and high complexity oral rehabilitation in private clinic.
- ◆ PhD in Dentistry at the University of Murcia..
- ◆ Degree in Dentistry from the University of Murcia
- ◆ Professor of Comprehensive Periodontics, Oral Implantology and Implant-Assisted Prosthodontics at CG Continuing Education
- ◆ Member of SEPA, Spanish Society of Periodontology and Osseointegration
- ◆ Member of EFP, *European Federation of Periodontology*

### Dr. Contreras Coy, Lluís

- ◆ Degree in Dentistry International University of Catalonia. Catalonia, Spain
- ◆ Professional Master's Degree in Soft tissue management around teeth and implants. University of Bologna. Italy
- ◆ Master's Degree in Endodontics International University of Catalonia. Catalonia, Spain
- ◆ Postgraduate course in Advanced Dental Aesthetics by SCOE
- ◆ Honorable Mention by the jury of the SEI 2012 for the following communication: "ROG when placing implants in ridges with alveolar fenestrations".
- ◆ Member of SEPA and SCOE
- ◆ Degree in Dentistry Rey Juan Carlos University. Madrid, Spain
- ◆ Dentist Specialist in Periodontics and Osseointegration of the General Council of Dentists and Stomatologists of Spain
- ◆ Modular Master's Degree in Clinical Endodontics. Dr. C. Stambolsky. Postgraduate Dental Athenaeum. Madrid, Spain
- ◆ Specialist in Implantoprosthesis. Rey Juan Carlos University. Madrid, Spain
- ◆ Expert in Dental Clinic Management. Udimá
- ◆ Member of SEPES, Spanish Society of Stomatological Prosthesis



**Dr. Ruíz-Oriol, Carlota**

- ◆ Degree in Dentistry from the University of Barcelona
- ◆ Postgraduate course in Dental prosthesis. Dr. Mallat. Catalan Society of Odontostomatology of the Academy of Medical Sciences
- ◆ Postgraduate course in Advanced Dental Esthetics. Dr. Padrós. Catalan Society of Odontostomatology of the Academy of Medical Sciences
- ◆ Master's Degree in Periodontics C.G. Ongoing Training. Dr. Raúl Caffesse
- ◆ Master's Degree in Clinical Implantology and Oral Prosthetics. University of Barcelona
- ◆ Collaborating Professor Master's Degree in Comprehensive Periodontics C.G. Ongoing Training

**Dr. García-Sala Bonmatí, Fernando**

- ◆ Dentist specialized in Rehabilitation, Periodontics and Advanced Oral Implantology at Ilzarbe García Sala Clinic.
- ◆ Specialist in Surgery, Periodontics and Implants
- ◆ Co-director of the Master's Degree in Advanced Oral Implantology at the European University of Valencia
- ◆ Associate Professor, University of Valencia, Department of Stomatology
- ◆ Professor of Oral Surgical Pathology at the UEV.
- ◆ Professional Master's Degree in Advanced Oral Implantology from the European University of Madrid
- ◆ Training in Dr Zucchelli Mucogingival Surgery at the University of Bologna Italy
- ◆ Training in Bone Regeneration, Dr Urban Budapest, Hungary
- ◆ Certificate in Advances in Implant Dentistry and Oral Rehabilitation New York University School of Dentistry
- ◆ Degree in Dentistry
- ◆ Member of ITI (*International Team Implantology*)
- ◆ Member of SEPES

**Dr. García Martínez, Gonzalo**

- ◆ Degree in Dentistry
- ◆ Postgraduate Course in Orthodontics. Gnathos Orthodontics Study Center
- ◆ Expert in Orthognathic Surgery. Ramón y Cajal Hospital. University of Alcalá
- ◆ Postgraduate course in Orthognathic Surgery. Roth-Williams Center for Functional Occlusion
- ◆ Postgraduate course on Surgical Orthodontics in Orthognathic Surgery
- ◆ Collaborating Professor for the Master's Degree in Implantology at the Miguel Hernández University. Elche
- ◆ Private practice with exclusive dedication to Orthodontics at C. D. TREES. Cartagena

**Dr. Gioia Palavacino, Claudio**

- ◆ PhD in Dentistry
- ◆ Degree in Dentistry National University of La Plata. Buenos Aires, Argentina
- ◆ Certificate in Periodontics. University of Texas. Houston, US A
- ◆ Specialist in Integrated Dentistry and Implants. Murcia University. Murcia, Spain
- ◆ Director of C.G. Ongoing Training. Elche (Alicante), Spain
- ◆ Member of SEPA, Spanish Society of Periodontology and Osseointegration
- ◆ Member of EFP, *European Federation of Periodontology*
- ◆ Member of AAP, *American Academy of Periodontology*
- ◆ Member of SEPES, Spanish Society of Stomatological Prosthesis

04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of training in daily medical practice, aware of the relevance of the current relevance of education in order to be able to act before the patient and committed to quality teaching through new educational technologies.





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*This Postgraduate Diploma in Basic Periodontal Surgery and Laser in Periodontics contains the most complete and up to date scientific program on the market".*

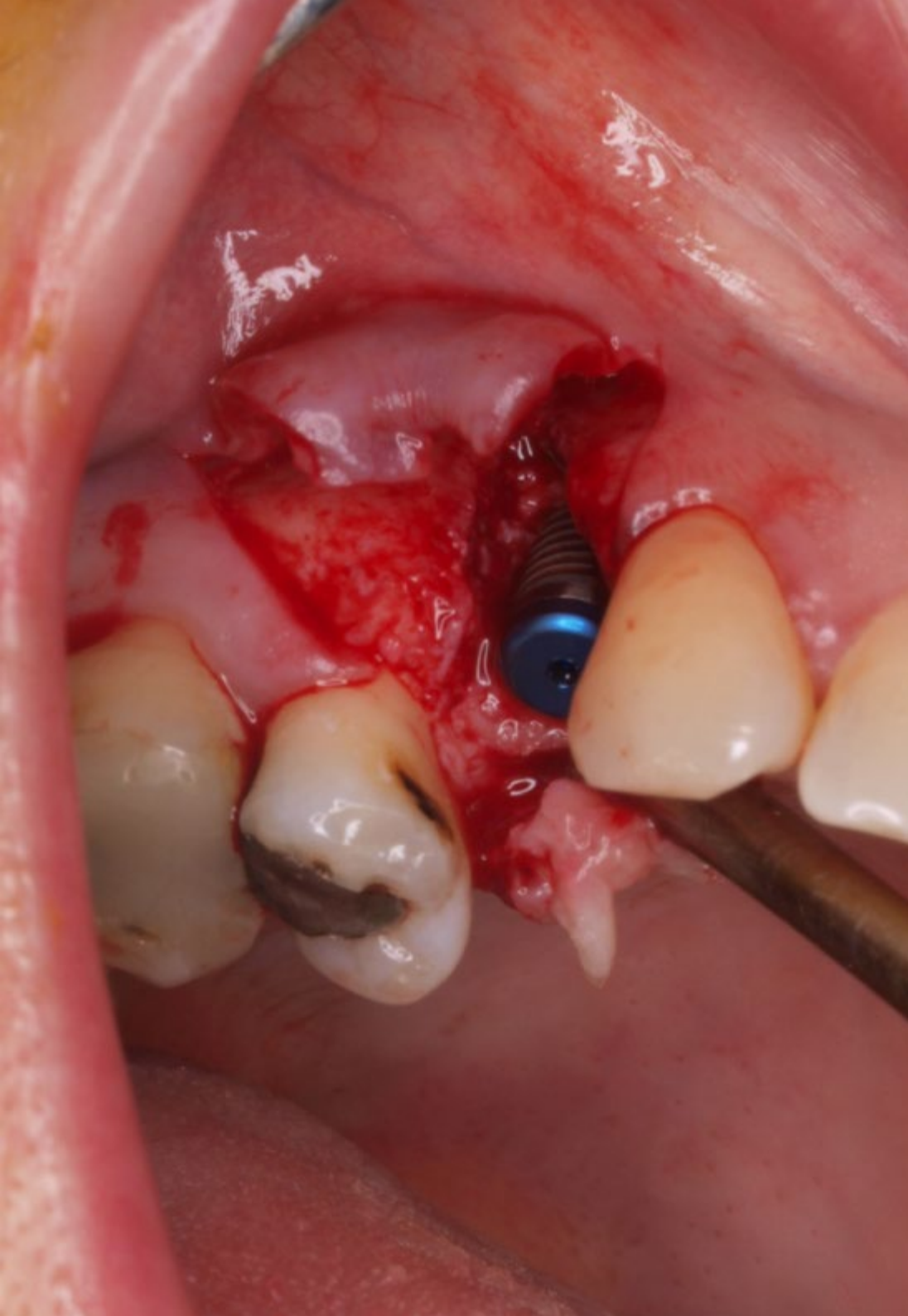
## Module 1. Basic Periodontics

- 1.1. Anatomy of the Periodontium
  - 1.1.1. Gingivae: Keratinized, Free, Inserted, Interdental
  - 1.1.2. Alveolar Mucosa
  - 1.1.3. Periodontal Ligament
  - 1.1.4. Root Cement
  - 1.1.5. Alveolar Bone
  - 1.1.6. Blood, Lymphatic and Nervous System of the Periodontium
  - 1.1.7. Periodontal Biotypes
  - 1.1.8. Biological Space
- 1.2. Epidemiology of Periodontal Disease
  - 1.2.1. Prevalence of Periodontal Disease
  - 1.2.2. Risk Factors for Periodontitis
  - 1.2.3. Periodontal Diseases and Their Relation to Systemic Diseases
- 1.3. Microbiology of Periodontal Disease
  - 1.3.1. Biofilm and Dental Calculus Microbiological and Clinical Aspects
  - 1.3.2. Periodontal Infections
  - 1.3.3. Periodontal Pathogens
  - 1.3.4. Bacterial Plaque and Biofilm Disease Onset and Progression
- 1.4. Host-Parasite Interaction
  - 1.4.1. Disease Onset and Progression
  - 1.4.2. Pathogenesis of Periodontitis
  - 1.4.3. Host-Parasite Interaction
- 1.5. Factors Associated with Periodontal Disease
  - 1.5.1. Diabetes *Mellitus*
  - 1.5.2. Puberty, Pregnancy, Menopause
  - 1.5.3. Tobacco Use

## Module 2. Periodontal Diseases

- 2.1. Non-Plaque-Induced Inflammatory Gingival Lesions
  - 2.1.1. Gingival Diseases of Bacterial Origin
  - 2.1.2. Gingival Injuries of Viral Origin
  - 2.1.3. Gingival Diseases of Mycotic Origin
  - 2.1.4. Gingival Diseases of Genetic Origin
  - 2.1.5. Gingival Diseases of Systemic Origin
  - 2.1.6. Trauma Lesions
- 2.2. Plaque-Induced Gingival Lesions
  - 2.2.1. Classification of Gingival Diseases
  - 2.2.2. Plaque-Induced Gingivitis
  - 2.2.3. Gingival Diseases Associated with Medications
  - 2.2.4. Gingival Diseases Associated with Systemic Diseases
- 2.3. Chronic Periodontitis
  - 2.3.1. General and Clinical Characteristics
  - 2.3.2. Susceptibility and Progression
  - 2.3.3. Risk Factors
- 2.4. Aggressive Periodontitis
  - 2.4.1. Classification
  - 2.4.2. Etiology and Pathogenesis
  - 2.4.3. Diagnosis
  - 2.4.4. Therapeutic Principles
- 2.5. Ulceronecrotizing Periodontal Disease
  - 2.5.1. General and Clinical Characteristics Classification
  - 2.5.2. Etiology and Pathogenesis
  - 2.5.3. Diagnosis
  - 2.5.4. Therapeutic Principles
- 2.6. Periodontal Abscess
  - 2.6.1. Introduction
  - 2.6.2. Classification
  - 2.6.3. Etiology, Pathogenesis, Histopathology and Microbiology
  - 2.6.4. Diagnosis
  - 2.6.5. Treatment





- 2.7. Endodontic Lesion
  - 2.7.1. Introduction
  - 2.7.2. Classification
  - 2.7.3. Aetiology, Pulpal Pathogenesis and Microbiology
  - 2.7.4. Diagnosis
  - 2.7.5. Effects of Periodontal Treatment on the Pulp
  - 2.7.6. Treatment
- 2.8. Halitosis

**Module 3. Examination, Diagnosis and Treatment Plan**

- 3.1. Anamnesis of the Patient with Periodontal Disease
  - 3.1.1. Dental, Social and Family History. Smoking Status, Hygiene Habits, etc.
  - 3.1.2. Oral Hygiene Status
  - 3.1.3. Signs and Symptoms of Periodontal Disease: Gingiva, Periodontal Ligament and Alveolar Bone
- 3.2. Intraoral and Radiographic Examination
  - 3.2.1. Intraoral Exploration: Periodontogram
  - 3.2.2. X-Ray Examination: Periapical Radiographic Series
  - 3.2.3. Screening for Periodontal Disease
- 3.3. Diagnosis
  - 3.3.1. Diagnosis of Periodontal Lesions
  - 3.3.2. Gingivitis
  - 3.3.3. Mild Periodontitis
  - 3.3.4. Moderate or Advanced Periodontitis
- 3.4. Treatment Plan
  - 3.4.1. Initial Treatment Plan
  - 3.4.2. Pretherapeutic Prognosis
  - 3.4.3. Re-evaluation
  - 3.4.4. Corrective or Reconstructive Therapy
  - 3.4.5. Maintenance Therapy

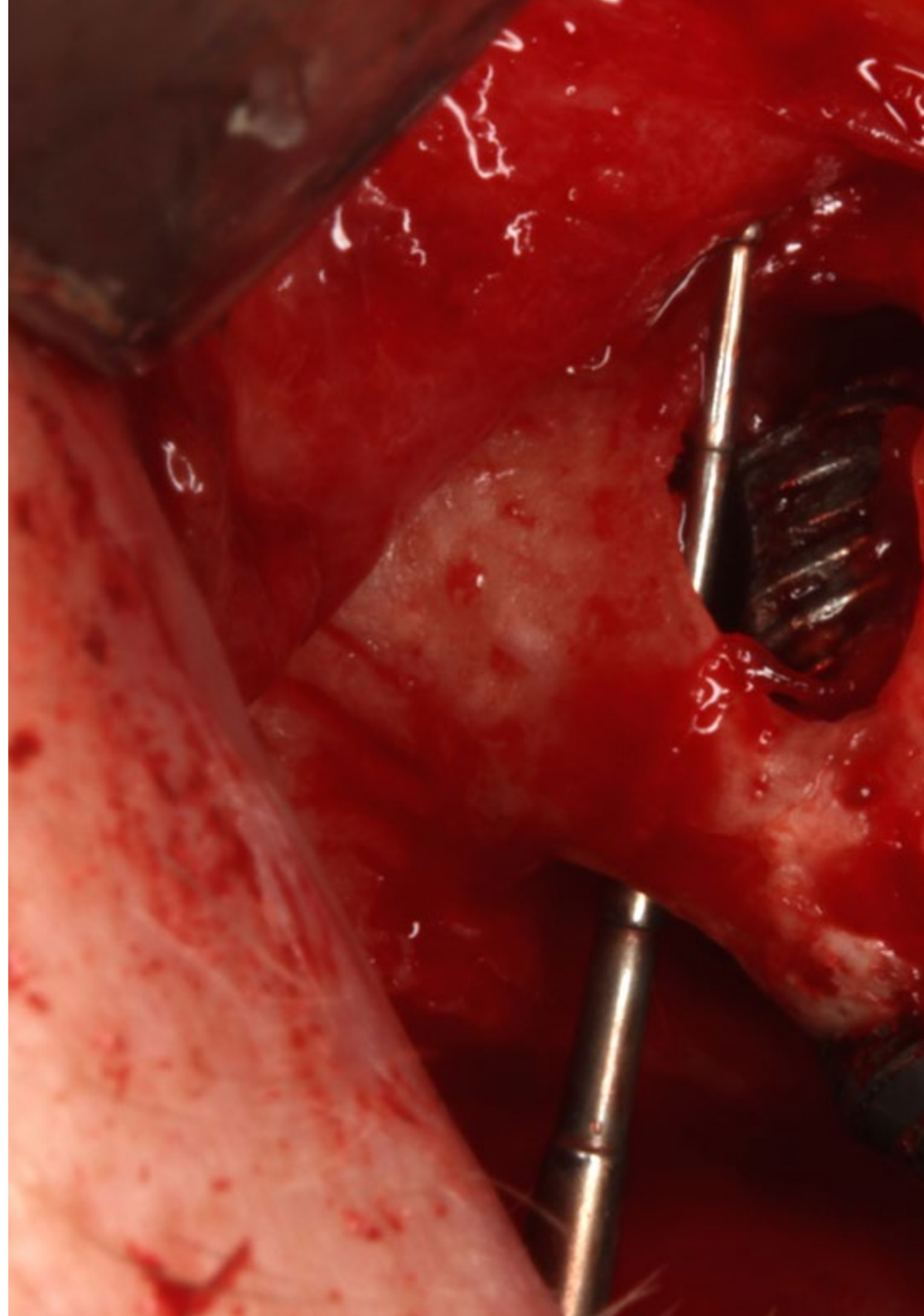


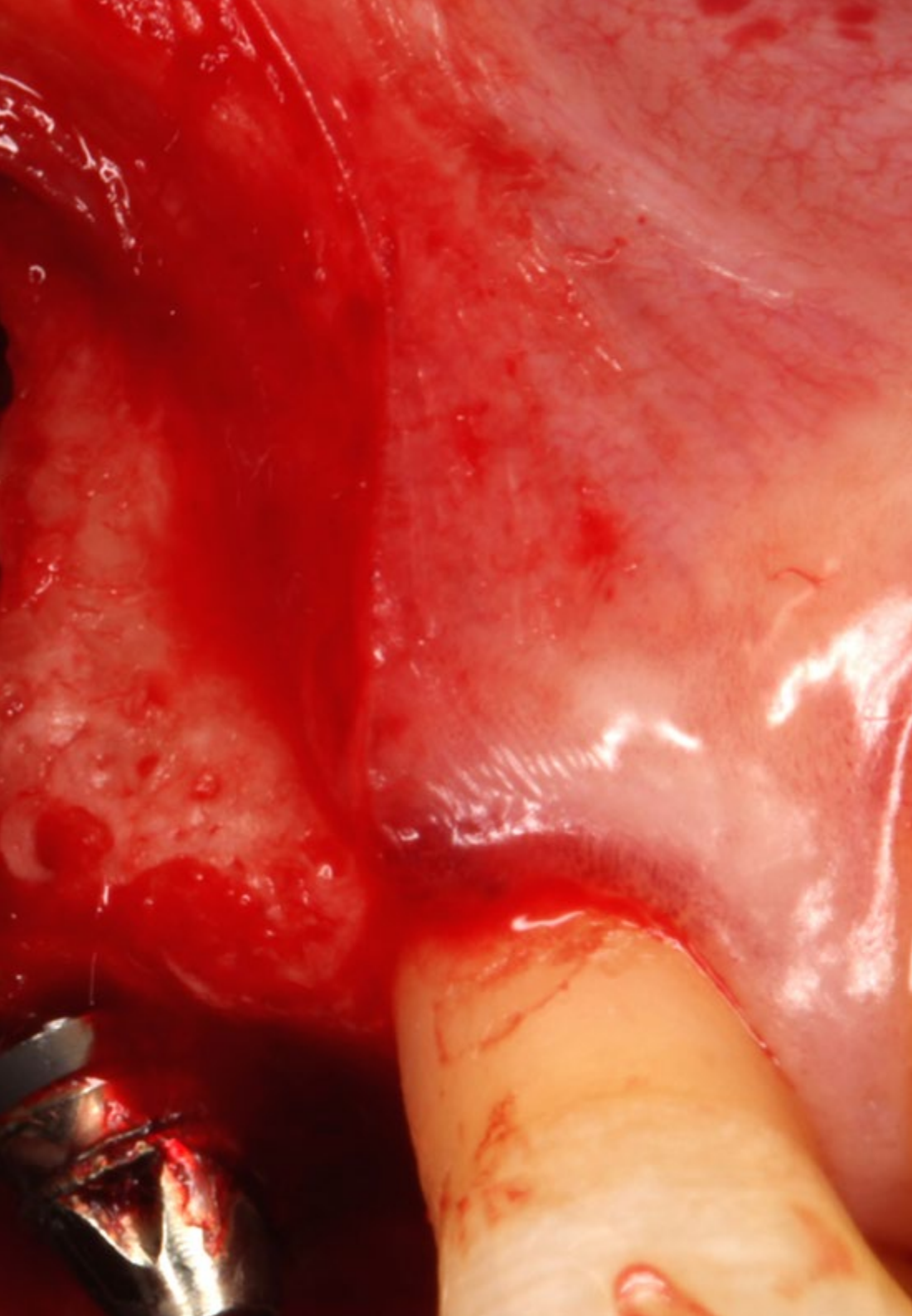
#### Module 4. Basic Non-Surgical Periodontal Treatment Initial Phase

- 4.1. Mechanical Control of Supragingival Plaque
  - 4.1.1. Plaque Control: Brushing and Interdental Cleaning. Techniques
  - 4.1.2. Instruction and Motivation in Plaque Control
- 4.2. Chemical Control of Supragingival Plaque Use of Antiseptics in Periodontics
  - 4.2.1. Chemical Control Concept, Agents, Mechanisms of Action and Drivers
  - 4.2.2. Chemical Plaque Control Agent Classification
  - 4.2.3. Chlorhexidine: Toxicity, Pigmentation, Mechanism of Action, Clinical Use
- 4.3. Non-Surgical Treatment of Periodontal Disease
  - 4.3.1. Calculus Detection and Removal
  - 4.3.2. Debridement Techniques. Mechanical and Manual
  - 4.3.3. Postoperative Care and Control of Tooth Sensitivity
- 4.4. Pharmacological Treatment. Use of Antibiotics in Periodontics
  - 4.4.1. Principles of Antibiotics Therapy Specific Characteristics and Limitations
  - 4.4.2. Evaluation of Antimicrobials for Periodontal Therapy
- 4.5. Re-evaluation
  - 4.5.1. Interpretation of Results Treatment Evaluation
- 4.6. Periodontal Maintenance
  - 4.6.1. Risk Assessment: Patient, Tooth, Progression
  - 4.6.2. Objectives of Maintenance in Gingivitis and Periodontitis
  - 4.6.3. Continuous Review and Reassessment
  - 4.6.4. Motivation

#### Module 5. Surgical Periodontal Treatment Periodontal Surgery Access Therapy

- 5.1. Periodontal Pocket Reduction Techniques
  - 5.1.1. Gingivectomy
  - 5.1.2. Widman's Flap
  - 5.1.3. Modified Widman's Flap
  - 5.1.4. Neumann's Flap
  - 5.1.5. Apical Repositioning Flap
  - 5.1.6. Papilla Preservation Flap
  - 5.1.7. Distal Wedge Flap
  - 5.1.8. Bone Resective Surgery: Osteoplasty and Ostectomy





- 5.2. General Guidelines in Periodontal Surgery
  - 5.2.1. Objectives of Surgical Treatment
  - 5.2.2. Indications for Surgical Treatment
  - 5.2.3. Contraindications for Surgical Treatment
  - 5.2.4. Anesthesia in Periodontal Surgery
  - 5.2.5. Instruments in Periodontal Surgery
  - 5.2.6. Root Surface Treatment
  - 5.2.7. Suture in Periodontal Access Surgery
  - 5.2.8. Periodontal Dressings
  - 5.2.9. Pain Control and Postoperative Care

## Module 6. Laser in Periodontics

- 6.1. Introduction to the Laser
  - 6.1.1. History of the Laser
  - 6.1.2. Low-Power Laser
  - 6.1.3. High-Power of Surgical Laser
  - 6.1.4. Laser Safety
- 6.2. Types of Laser Features
  - 6.2.1. Diode Laser
  - 6.2.2. Erbium Laser
- 6.3. Indications and Applications of Lasers in Periodontics
  - 6.3.1. As a Stand-Alone Treatment
  - 6.3.2. As a Complement to Conventional Treatment
- 6.4. Laser Therapy - Photobiomodulation

# 05

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.







“

*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the dentist's professional practice.



“

*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Dentists who follow this method not only grasp concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*The student will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 115,000 dentists with unprecedented success, in all specialties regardless of the workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.





This program offers the best educational material, prepared with professionals in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Educational Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances, and to the forefront of medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



#### Interactive Summaries

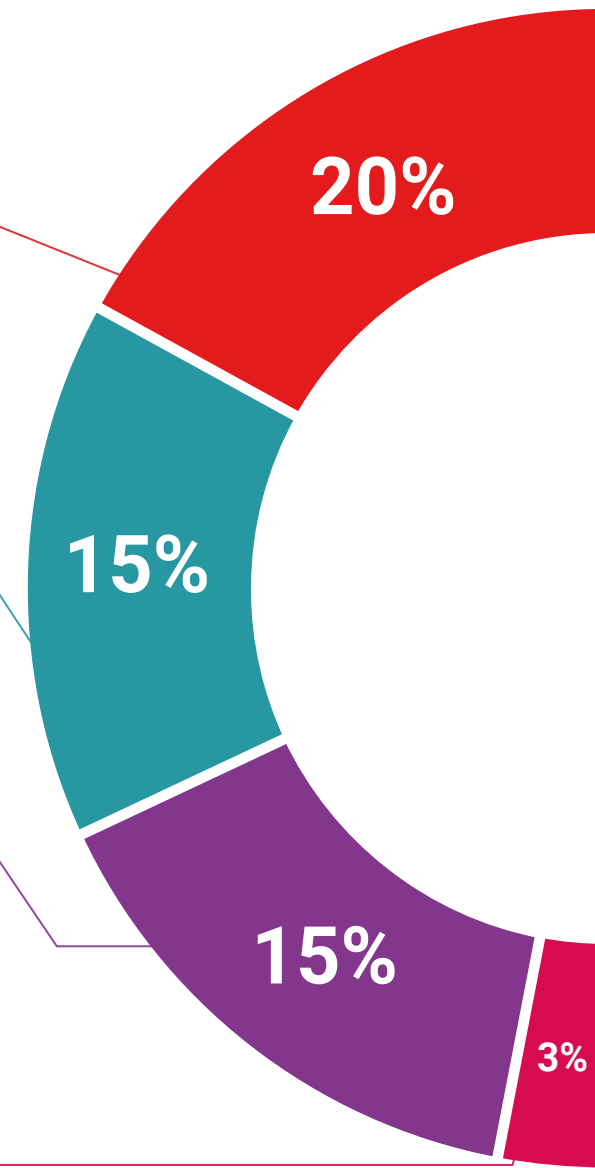
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

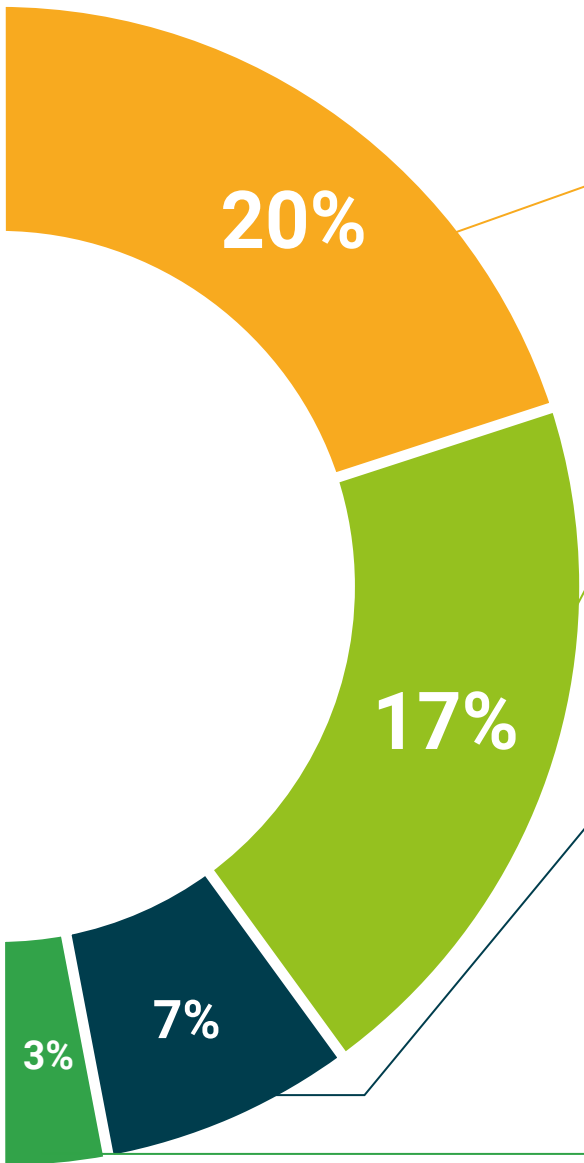
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.  
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.





06

# Certificate

The Postgraduate Diploma in Basic Periodontal Surgery and Laser in Periodontics guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.



“

*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This program will allow you to obtain your **Postgraduate Diploma in Basic Periodontal Surgery and Laser in Periodontics** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

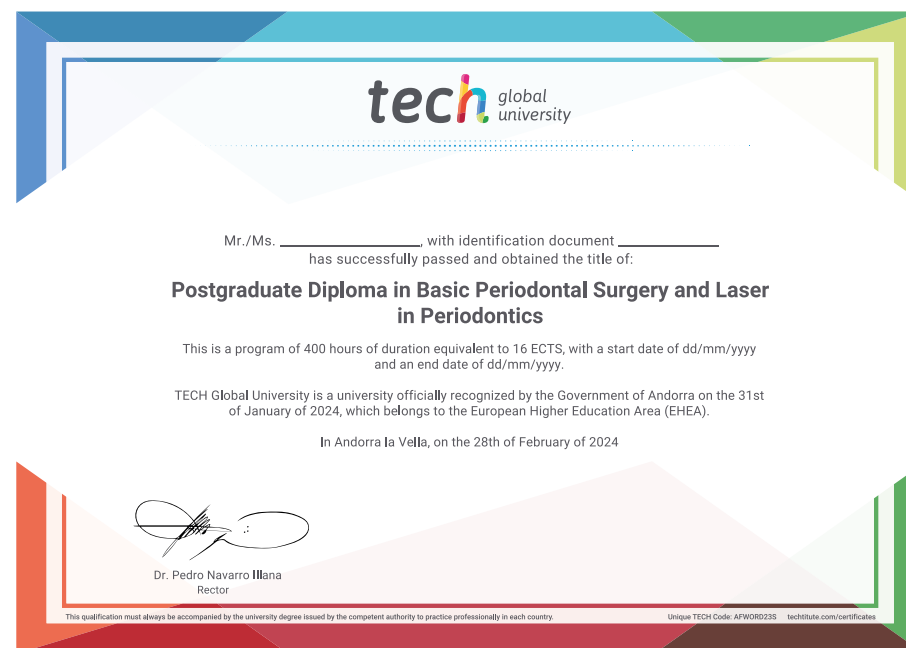
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Basic Periodontal Surgery and Laser in Periodontics**

Modality: **online**

Duration: **6 months**

Accreditation: **16 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
online training  
development language  
virtual classroom



## Postgraduate Diploma Basic Periodontal Surgery and Laser in Periodontics

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 16 ECTS
- » Schedule: at your own pace
- » Exams: online



# Postgraduate Diploma

Basic Periodontal Surgery  
and Laser in Periodontics

