Advanced Master's Degree
Periodontics, Implantology and Oral Surgery

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Advanced Master’s Degree
Periodontics, Implantology and Oral Surgery

Course Modality: **Online**

Duration: **2 years**

Certificate: **TECH Technological University**

Official Nº of hours: **3,000 h.**

Website: **www.techtitute.com/dentistry/advanced-master-degree/advanced-master-degree-periodontics-implantology-oral-surgery**

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01

Introduction

More and more people are visiting dental clinics for treatments to improve their oral health and aesthetics. In this Advanced Master's Degree we have proposed to offer you the most complete specialization on the most innovative methodologies in periodontics, implantology and oral surgery, with the aim that you acquire the most specialized training in this field and, therefore, you can offer more specific treatments for each patient.

If you want to update your knowledge in the field of dentistry, don't hesitate any longer. At TECH we offer you the most complete specialization in the market to reach a higher level of professionalism"

Gingival and periodontal diseases are among the most common human diseases. Gingivitis affects approximately 50% of school-age children and more than 70% of the adult population has suffered from gingivitis, periodontitis or both. In addition, it is estimated that periodontitis is responsible for 30-35% of all tooth extractions, while caries and its sequelae account for 50%.

With these data, it is not surprising how important it is for dental professionals to have extensive knowledge in this field, since all surgery, no matter how small, must be carried out following certain protocols that are fundamental for the good short and long term results of the surgery.

It should also be noted that, in recent years, dentistry, and periodontics and osseointegration in particular, have undergone enormous changes, with an increase in the number of patients coming to dental clinics seeking treatments that restore optimal oral health conditions, not only from a functional but also from an esthetic point of view.

Throughout this specialization, the student will learn all of the current approaches to the different challenges posed by their profession. A high-level step that will become a process of improvement, not only on a professional level, but also on a personal level. We will not only take you through the theoretical knowledge, but we will show you another way of studying and learning, more organic, simpler and more efficient.

This Advanced Master's Degree is designed to give you access to the specific knowledge of this discipline in an intensive and practical way. A great value for any professional. Furthermore, as it is a 100% online specialization, the student decides where and when to study. Without the restrictions of fixed timetables or having to move between classrooms, this course can be combined with work and family life.

This **Advanced Master's Degree in Periodontics, Implantology and Oral Surgery** contains the most comprehensive and up-to-date academic course on the university scene. The most important features of the program include:

- The latest technology in online teaching software
- A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- Practical cases presented by practising experts
- State-of-the-art interactive video systems
- Teaching supported by remote training
- Continuous updating and retraining systems
- Self organised learning which makes the course completely compatible with other commitments
- Practical exercises for self-evaluation and learning verification
- Support groups and educational synergies: Questions to the expert, discussion forums and knowledge
- Communication with the teacher and individual reflection work
- Content that is accessible from any, fixed or portable device with an Internet connection
- The banks of complementary documentation are permanently available, even after the program has been completed

A high level scientific training program, supported by advanced technological development and the teaching experience of the best professionals"

This Advanced Master's Degree may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your Dentistry knowledge, you will obtain a diploma from TECH Technological University"

Our teaching staff is made up of working professionals. In this way, we ensure that we provide you with the up-to-date training we are aiming for. A multidisciplinary team of doctors with training and experience in different environments, who will develop the theoretical knowledge in an efficient way, but above all, they will bring their practical knowledge from their own experience to the course.

The efficiency of the methodological design of this advanced master's degree enhances the student's understanding of the Advanced Master's Degree. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. In this way, you will be able to study with a range of easy-to-use and versatile multimedia tools that will give you the necessary skills you need for your specialization.

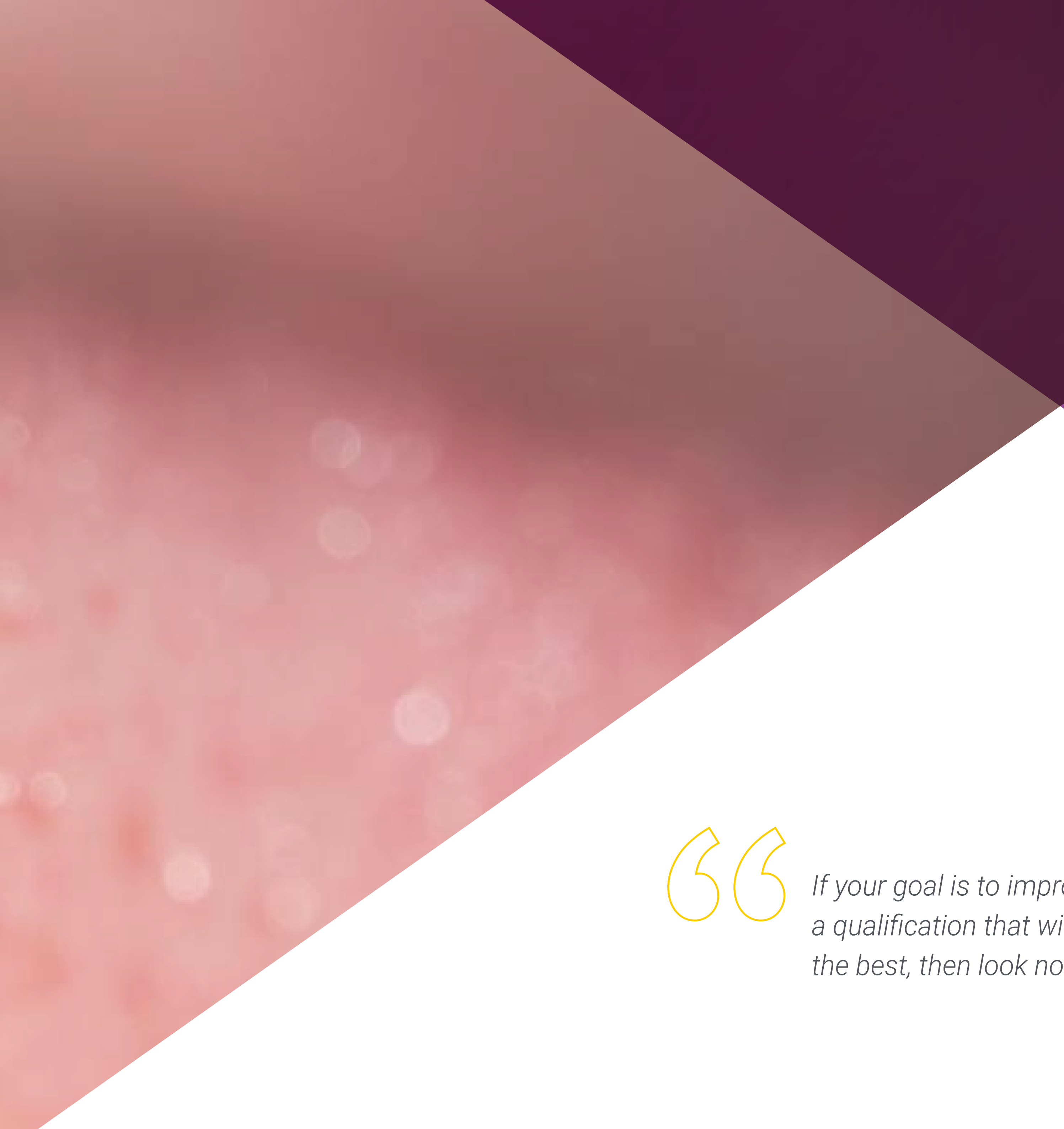
The design of this program is based on Problem-Based Learning, an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice learning. With the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

A training program created for professionals who aspire to excellence that will allow you to acquire new skills and strategies in a smooth and effective way.

We offer you the best specialization of the moment so that you can carry out a deep study in this field, in such a way that you will be able to develop your profession with total guarantees of success.

02
Objectives

Our objective is to preapre highly qualified professionals for work experience. An objective that is complemented, moreover, in a global manner, by promoting human development that lays the foundations for a better society. This objective is focused on helping professionals reach a much higher level of expertise and control. A goal that you will be able to achieve thanks to a highly intensive and detailed course.



If your goal is to improve in your profession, to acquire a qualification that will enable you to compete among the best, then look no further: Welcome to TECH"

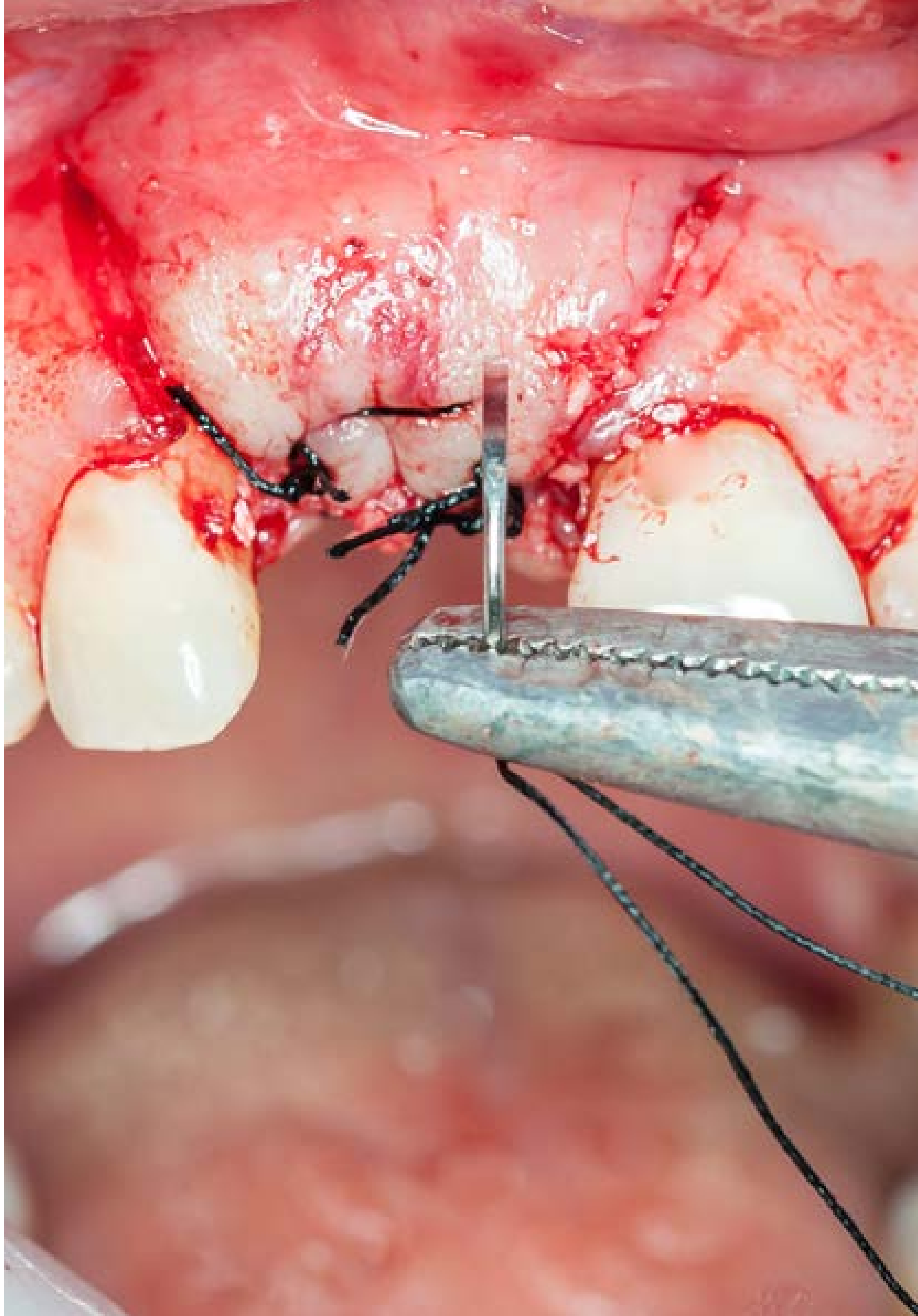
General Objectives

- Update the theoretical and practical knowledge of dental professionals in the different areas of oral periodontics, surgery and implantology through evidence-based dentistry
- Promote work strategies based on a multidisciplinary approach to patients who are candidates for periodontal therapy, implantology, oral surgery or rehabilitation by means of dental implants
- 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 training
- Encourage professional stimulation through continuous education and research

Specific Objectives

- 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
- 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
- Explain each of the pathologies and alterations that can affect the periodontium, as well as the available means for their diagnosis
- Describe the basic surgical procedures: Incisions, types of flaps, sutures
- 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
- Explain one- and two-stage surgical procedures and prepare the surgical field, and master sterilization protocols

- Know how to perform a complete periodontal and adjoining tissues examination
- Know how to perform and interpret a complete periapical series with parallelism technique
- Define systemic diseases that are related and may interfere with the management of periodontitis
- Explain bacterial plaque control methods and be able to motivate the patient in their use
- Master periodontal instrumentation techniques
- Establish in each patient a general prognosis of the periodontal disease and an individual prognosis of each affected tooth
- Define bone biological mechanisms in guided bone regeneration.
- Perform the surgical techniques of sinus lift, ramus bone grafting and mandibular symphysis
- Interrelate Periodontics and Implantology with the patient's medical pathologies and the rest of the dental specialties, as well as to take samples
- Explain maintenance techniques, as well as peri-implant alterations and their treatment
- Perform regenerative procedures after extraction of impacted periodontal insertion of included teeth
- Describe the anatomy of the cranio-maxillary complex: surgical and implant relevance

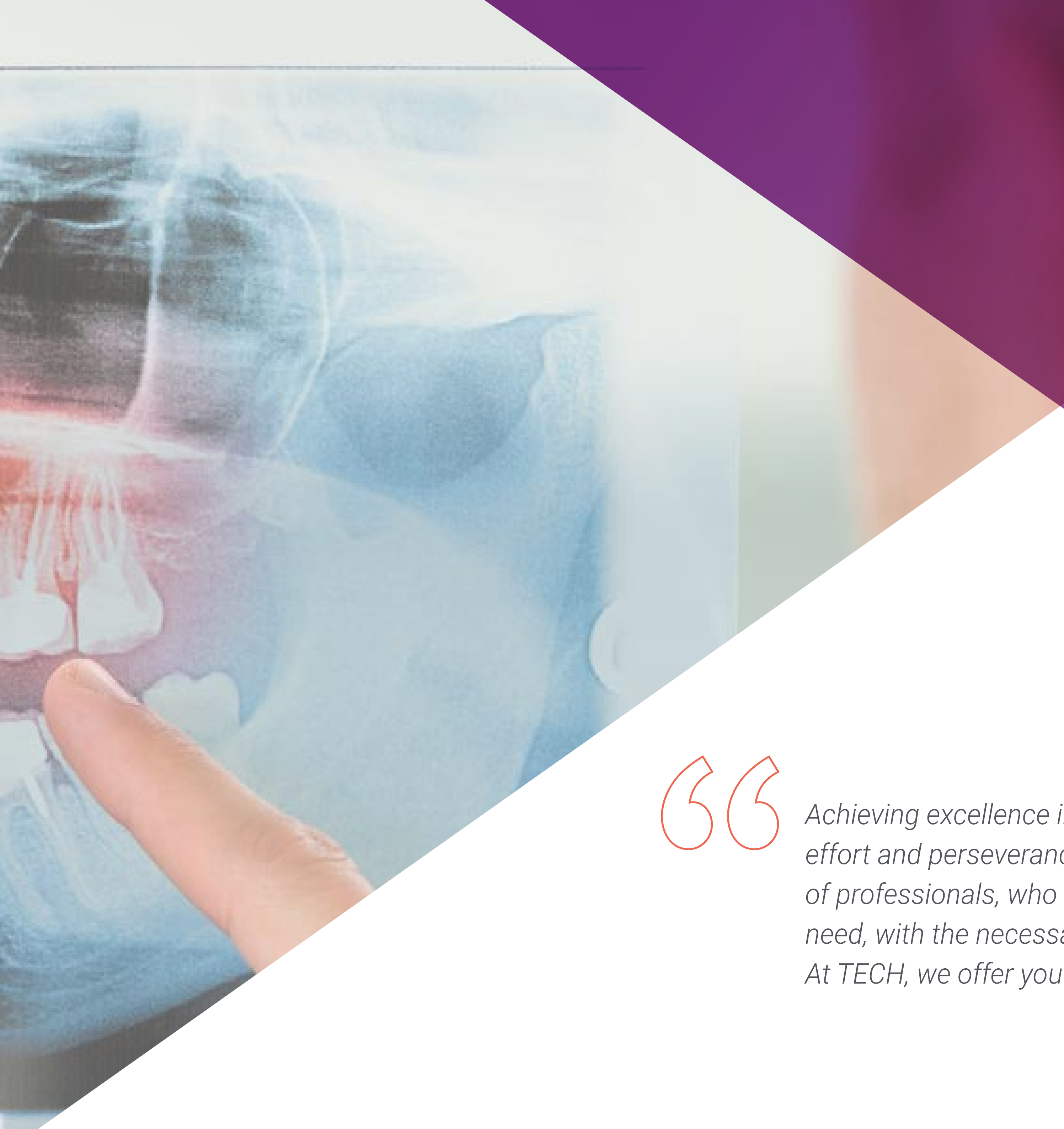


- Explain the surgical procedures of extractions Frenectomy
- Explain the process to perform the basic aspects of implant-prosthesis: impression taking, casting, articulator mounting and occlusal adjustment of the prosthesis
- Explain the process for performing sinus lift, ramus bone grafting and mandibular symphysis surgical techniques
- Interrelate Implantology with the patient's medical pathologies and the rest of the dental specialties, as well as to take samples
- Apply surgical techniques to obtain primary implant stability , in suitable situations, with high bone availability
- Apply techniques in Immediate Implant Dentistry
- Apply your knowledge to single teeth, partial bridges and immediately loaded restorations
- Describe maintenance techniques as well as peri-implant alterations and their treatment
- Apply pre-implantological alveolar ridge augmentation techniques with both hard and soft tissue regeneration
- Describe the different soft tissue management techniques used during implant and regenerative surgery
- Explain the process for performing advanced implant prosthodontic procedures: Complete restorations, vertical dimension alterations etc
- Describe the steps for the surgical, prosthetic and occlusal adjustment of single teeth and partial bridges

Quality specialized training for outstanding students. At TECH, we offer the perfect education for high level specialization in your field"

03
Skills

Once all the contents have been studied and the objectives of the Advanced Master in Periodontics, Implantology and Oral Surgery have been achieved, the professional will have superior competence and performance in this area. A very complete approach, in a high-level master's degree, which makes the difference.



Achieving excellence in any profession requires effort and perseverance. But, above all, the support of professionals, who will give you the boost you need, with the necessary means and assistance. At TECH, we offer you everything you need"

General Skills

- Possess and understand knowledge in their field of study that builds on the foundation of general secondary education. While relying on advanced textbooks, it also includes some aspects that involve knowledge from the forefront of this field of study
- Apply their knowledge to their work or vocation in a professional manner and possess the skills that are usually demonstrated through the development and defence of arguments and problem solving within their area of study
- Gather and interpret relevant data (usually within their area of study) to make judgments that include a reflection on relevant social, scientific or ethical issues
- Convey information, ideas, problems, and solutions to both specialized and non-specialized audiences
- Develop the learning skills necessary to undertake further studies with a high degree of autonomy

Specific Skills

- Knowledge of the general processes of the disease, including infection, inflammation, immune system alterations, degeneration, neoplasia, metabolic alterations and genetic disorders
- Make an initial diagnostic judgment and establish a reasoned diagnostic strategy, competence in the recognition of situations requiring urgent dental care
- Know and apply the basic treatment of the most common oral and dental pathology in patients of all ages Therapeutic procedures should be based on the minimally invasive concept and on a comprehensive and integrated approach to oral treatment
- Know how to plan and perform multidisciplinary, sequential and integrated dental treatments of limited complexity in patients of all ages and conditions and patients requiring special care
- Propose the appropriate preventive measures for each clinical situation
- Ability to recognize the role of the dentist in the prevention and protection against oral diseases, as well as in the maintenance and promotion of health, both at the individual and community levels
- Understand and recognize the social and psychological aspects relevant to the treatment of patients
- Develop the learning skills necessary to undertake further studies with a high degree of autonomy
- Be competent in evaluating the periodontium, establishing a diagnosis, a prognosis and the formulation of a periodontal treatment plan
- Learn the indications, contraindications, adverse effects, interactions and posology of anti-inflammatory drugs, analgesics and antibiotics used in periodontics
- Know how to apply radiological techniques for diagnosis
- Know the fundamentals of non-surgical periodontal therapy and be proficient in all periodontal instrumentation techniques, both supragingival and subgingival, using appropriate instruments
- Have knowledge of the fundamentals of surgical periodontal therapy and periodontal surgical techniques
- Understand the biological mechanisms of bone formation
- Learn and apply guided bone regeneration with membranes and lyophilized bone and the technique for obtaining plasma rich in growth factors
- Perform sinus lift surgical techniques, both traumatically and atraumatically
- Perform immediate post-extraction implantology
- Perform the technique of bone grafting on the mandibular ramus and symphysis
- Management of complex and aesthetically and functionally demanding clinical situations
- Perform the necessary occlusal adjustment in immediate loading
- Diagnose the periodontal alterations that can occur around implants
- Apply the techniques of soft tissue alveolar ridge augmentation and preprosthetic periodontal surgery
- Master the mucoperiosteal flap technique, the epithelium and connective tissue free gingival graft technique, pedicle grafting and esthetic periodontal surgery
- Learn peri-implant maintenance techniques

- Know one- and two-stage surgical procedures, prepare the surgical field and master sterilization protocols
- Explain the evolution of Implantology
- Describe and analyze the anatomy of the cranio-maxillary complex and the biology of osseointegration
- Perform data collection and examination of the patient for the medical history
- Identify the drugs needed in implant treatment
- Know how to apply radiological techniques for implant diagnosis
- Describe and perform the process for taking an impression of patients with osteointegrated implants and the process for casting the impressions taken on dental implants
- Know how to assemble clinical cases in the articulator
- Perform occlusal adjustment of implant prostheses
- Explain the aesthetic parameters and adjust them to the needs of each patient
- Explain the biological mechanisms of bone formation
- Describe and apply guided bone regeneration with membranes and lyophilized bone, as well as the technique of obtaining plasma which is rich in growth factors
- Perform surgical techniques for sinus lift, from both a lateral and crestal approach
- Perform immediate post-extraction implantology
- Perform the technique of bone grafting on the mandibular ramus and symphysis
- Explain the application of transitional implants
- Interrelate implantology with the patient's medical pathologies and other dental specialties
- Manage complex and demanding clinical situations whether they are aesthetic or functional
- Apply surgical techniques to obtain primary stability of an implant
- Apply your knowledge to single teeth, partial bridges and immediately loaded restorations
- Perform the necessary occlusal adjustment in immediate loading
- Diagnose the periodontal alterations that can occur around implants
- Apply the techniques of soft tissue alveolar ridge augmentation and preprosthetic periodontal surgery
- Master the mucoperiosteal flap technique, the epithelium and connective tissue free gingival graft technique, pedicle grafting and esthetic periodontal surgery
- Explain peri-implant maintenance techniques
- Knowing how to properly perform a diagnostic wax-up on the anatomy of the teeth
- Know how to make the necessary height plates for prosthetic rehabilitation
- Apply the necessary techniques for the preparation of working models
- Describe one- and two-stage surgical procedures, prepare the surgical field and master sterilization protocols

Our objective is very simple: to offer you quality specialized training, with the bestcurrentteachingmethods, so that you can reach new heights of excellence in your profession"

04

Course Management

For our master's degree to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record in the field of education. Professionals from different areas and fields of expertise that make up a comprehensive multidisciplinary team. A unique opportunity to learn from the best.

Our professors bring their vast experience and their teaching skills to offer you a stimulating and creative specialized training program"

Management

Dr. Bellver Fernández, Ricardo

- Degree in Dentistry Cardenal Herrera University
- Master's Degree in Implantology and Oral Surgery Cardenal Herrera University
- Master's Degree in Dental Sciences University of Valencia
- Master's Degree in Comprehensive Periodontics C.G. Ongoing training
- Collaborating Professor Master's Degree in Comprehensive Periodontics C.G. Training. Professor. Dr. Raúl Caffesse
- Collaborating Professor Master's Degree in Oral Implantology, Cardenal Herrera University
- 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 Dr. Carlo Tinti. Brescia, Italy
- Training in Mucogingival Surgery Dr. Giovani Zucchelli at the University of Bologna. Italy
- Training in Bone Regeneration Dr. Istvan Urban. Budapest, Hungary
- Various publications in pubmed, national and international speaker
- Private Practice dedicated to Periodontics, Implants and High Complexity Oral Rehabilitation

Ms. Martínez Gómez, Berta

- 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 Master's Degree in Comprehensive Periodontics C.G. Training. Professor. Dr. Raúl Caffesse
- Private practice dedicated to Periodontics and Conservative Dentistry
- National and international communications
- Member of the SEPA and Fellowship in Bone Regeneration. Dr. Carlo Tinti. Brescia. Italy

Dr. García-Sala Bonmatí, Fernando

- Degree in Dentistry
- Associate Professor, University of Valencia, Department of Stomatology
- Master's Degree in Advanced Oral Implantology from the European University of Madrid
- Certificate in Advances in Implantology and Oral Rehabilitation from the New York University College of Dentistry New York, USA
- Former professor and codirector of the Master's Degree in Advanced Oral Implantology at the European University of Valencia Valencia, Spain
- Former Professor of Oral Surgical Pathology European University of Valencia. Valencia, Spain
- ITI (International team Implantology) member
- Member of the Spanish Society of Prosthetics, Stomatology and Aesthetics (SEPES)
- Fellowship in bone regeneration Dr. Carlo Tinti. Brescia, Italy
- Training in Dr. Zucchelli Mucogingival Surgery at the University of Bologna Bologna, Italy
- Training in Periodontal Regeneration, Dr. Cortellini Florence, Italy
- Training in Bone Regeneration, Dr Urban Budapest, Hungary
- Various publications in JCR, national and international speaker
- Private Practice Surgery, Periodontics and Implants

Dr. Brotons Oliver, Alejandro

- Degree in Dentistry
- PhD in Dentistry from the University of Valencia
- Master's Degree in Oral Surgery and Implantology from the University of Valencia
- Certificate in Advances in Implantology and Oral Rehabilitation from the New York University College of Dentistry New York, USA
- Former Professor and codirector of the Master's Degree in Advanced Oral Implantology at the European University of Valencia Valencia, Spain
- Former Professor of Oral Surgical Pathology European University of Valencia. Valencia, Spain
- Former Professor of Oral Surgery Pathology UCV - Cardenal Herrera University. Valencia, Spain
- Member of the Spanish Society of Prosthetics, Stomatology and Aesthetics (SEPES) and the Spanish Society of Oral Surgery (SECIB)
- Fellowship in bone regeneration Dr. Carlo Tinti. Brescia, Italy
- Training in Bone Regeneration, Dr Urban Budapest, Hungary
- Various publications in JCR, national and international speaker
- Private Practice Surgery, Periodontics and Implants

Professors

Dr. Aragüés, Alfredo
- Degree in Dentistry ISCS University. Lisbon, Portugal
- Certificate in Periodontics. Autonomous University of Nuevo León. Monterrey, Mexico
- Master in Periodontics. University of Paris, France
- Master's Degree in Smoking. University of Cantabria. Cantabria, Spain
- Master's Degree in the use of Lasers. University of Barcelona. Barcelona, Spain
- European Interuniversity Master's Degree
- Associate & Fellow of the World Clinical Laser Institute. W.C.L.I
- 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 SELO, Spanish Laser Society
- Member of SOLA, International Society for Oral Laser Applications
- Member of W.A.L.T., World Association For Oral Therapy
- Honorary Member of the ALA Adriatic Laser Academy
- Founding member of the National Association of Self-Employed Dentists
- President of the College of Dentists of Burgos
- Exclusive Orthodontic Practice in Burgos, Spain

Dr. Caffesse, Raúl
- Professor and Research Director of the Specialty of Periodontics at the University of Nuevo Leon, Monterrey, Mexico
- Visiting Professor of the Master of Periodontics at the Complutense University of Madrid and the Master of General Dentistry for Adults at the University of Barcelona
- Distinguished Professor of Periodontology, division and department chair, and director of the Advanced Education in Periodontology program at the University of Texas-Houston Dental School, where he was dean from 1992 to 1996
- Professor and department chair and director of the Advanced Periodontics Education program at the University of Michigan
- Extraordinary Professor of the Faculty of Dentistry of the University of La Plata, Argentina, and Honorary Professor of the University of Buenos Aires
- Degree in Dentistry and Doctor of Dentistry from the University of Buenos Aires and his Master of Science in Periodontics from the University of Michigan
- Received four honorary doctorates from the Universities of Cuyo, La Plata, Tucumán and Northeastern Argentina
- A Fellow of the International College of Dentists and the American College of Dentists, and an honorary member of international institutions, including the Pierre Fauchard Academy and the Spanish Society of Periodontology
- Published more than five hundred scientific papers and has given courses on five continents

Dr. Contreras Coy, Lluís
- Degree in Dentistry International University of Catalonia. Catalonia, Spain
- 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
- Master's Degree in Comprehensive Periodontics C.G. Ongoing Training. Professor. Raúl G. Caffesse
- Postgraduate course in Advanced Dental Aesthetics by SCOE
- Speaker in national and international conferences

- Honorable Mention by the jury of the SEI 2012 for the following communication: "ROG when placing implants in ridges with alveolar fenestrations"
- Collaborating professor in the Master's Degree in Comprehensive Periodontics. CG Ongoing Training. Elche (Alicante), Spain
- Member of SEPA and SCOE
- Private Practice in Periodontics, Endodontics and Aesthetic Dentistry

Dr. Galán, Barán Abdi

- 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
- Master's Degree in Comprehensive Periodontics C.G. Ongoing Training. Professor. Raúl G. Caffesse
- 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. Udima
- Member of SEPA, Spanish Society of Periodontology and Osseointegration
- Member of SEPES, Spanish Society of Stomatological Prosthesis

Dr. García Martínez, Gonzalo

- Degree in Dentistry Murcia University. 2000-2005
- Postgraduate Course in Orthodontics. Gnathos Orthodontics Study Center. 2005-2007
- Expert in Orthognathic Surgery. Ramón y Cajal Hospital. University of Alcalá. 2015-2016
- Postgraduate course in Orthognathic Surgery. Roth-Williams Center for Functional Occlusion. 2014-2015
- Postgraduate course on Surgical Orthodontics in Orthognathic Surgery. Madrid 2015
- Collaborating Professor for the Master's Degree in Implantology at the Miguel Hernández University. Elche
- Collaborator of the Advanced Dental Classroom platform
- Private practice with exclusive dedication to Orthodontics at C. D. TREES. Cartagena (Murcia)

Dr. García-Sala Bonmatí, Fernando

- Degree in Dentistry Cardenal Herrera University
- Master's Degree in Advanced Oral Implantology from the European University of Madrid
- Certificate in Advances in Implantology and Oral Rehabilitation New York University college of dentistry
- Associate Professor University of Valencia Department of Stomatology
- Former professor and codirector of the Masters Degree in Advanced Oral Implantology at the European University of Valencia
- Professor of Oral Surgical Pathology European University of Valencia
- ITI (International team Implantology)
- Member of the SEPES
- Fellowship in bone regeneration Dr. Carlo Tinti. Brescia, Italy
- Training in Dr. Zucchelli Mucogingival Surgery at the University of Bologna
- Training in Periodontal Regeneration, Dr. Cortellini Florence, Italy
- Training in Bone Regeneration, Dr Urban Budapest, Hungary
- Various publications in Pubmed, national and international speaker
- Private Practice Surgery, Periodontics and Implants

Dr. Gioia Palavacino, Claudio

- Doctor in Dentistry. University of Murcia, Spain
- Degree in Dentistry National University of La Plata. Buenos Aires, Argentina
- Certificate in Periodontics. University of Texas. Houston, U.S.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
- Private practice dedicated to periodontics-implants and high complexity oral rehabilitation in Elche

Dr. Hernández Cobo, Álvaro

- 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
- 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. Training

Ms. María Martínez, Ana

- Degree in Dentistry University of Murcia. Murcia, Spain
- PhD in Dentistry at the University of Murcia.. Murcia, Spain
- Master's Degree in Comprehensive Periodontics C.G. Ongoing Training. Professor. Raúl G. Caffesse Professor of the Master's Degree in Comprehensive Periodontics C.G. Ongoing Training. Elche (Alicante), Spain
- Professor of the Course of Oral Implantology and Implant-Assisted Prosthesis C.G. Ongoing Training. Elche (Alicante), Spain
- Member of SEPA Spanish Society of Periodontology and Osseointegration
- Member of EFP European Federation of Periodontology
- Private practice dedicated to periodontics, implants and high complexity oral rehabilitation in Elche (Alicante), Spain

Ms. 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 Aesthetics. 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 since 2012 and Master's Degree in Clinical Implantology and Oral Prosthetics. University of Barcelona since January 2016

Dr. De Barutell Castillo, Alfonso

- Degree in Dentistry 1998-2003
- Associate professor in Dental Prosthetics I, University of Valencia, since 2007
- Professor of the Master's Degree in Dental Prosthetics at the University of Valencia
- Master's Degree in Dental Prosthesis and Implant Prosthesis at the University of Valencia 2004-2005
- Author of several national publications and papers
- Member of the Spanish Society of Dental Prosthetics (SEPES) since 2005
- Clinical residencies in San Sebastian, Madrid, Lisbon, New York
- Exclusive Private Practice Aesthetic Prosthetics and Implant Prosthetics in Valencia

Dr. Cabo Nadal, Alberto

- Degree in Dentistry University of Valencia 1994- 1999
- Postgraduate Degree Diploma in Dental Prosthesis, 3rd Edition 1999-2000, University of Valencia
- Continuing education in surgery, implant prosthetics and oral rehabilitation. Dr.Eduardo Anitua. Vitoria, 2001
- Associate Professor of the Teaching Unit of Prosthodontics and Occlusion. University of Valencia
- Online. University of Valencia
- Professor in charge of dental clinical practice at the European University of Valencia (2012-2015)

Dr. García Dalmau, Carlos

- Degree in Medicine and Surgery. University of Valencia
- Degree in Dentistry University of Valencia
- Master's Degree in Oral Surgery and Implantology University of Valencia
- Professor of the Master's Degree in Advanced Oral Implantology, European University of Valencia (2010-2016)
- Professor of Oral Surgery Pathology European University of Valencia (2010- 2016)
- Member of SECIB
- Private Practice Surgery, Periodontics and Implants

Ms. Manzanera Pastor, Ester

- Degree in Dentistry from the University of Valencia
- Master's Degree in Integrated Dentistry, Implantology and Biomaterials from the University of Murcia
- Master's Degree in Advanced Implantology from the University of Murcia
- Master's Degree in Dental Sciences from the University of Valencia
- Professor of Surgical Pathology at the European University of Valencia
- Private Practice in Surgery, Implantology and Aesthetics

Ms. Mellado Valero, Ana

- Degree in Dentistry University of Valencia
- PhD in Dentistry University of Valencia
- University Specialist in Esthetic Medicine from the Complutense University of Madrid. (1998-1999)
- University Diploma in Prosthodontics from the University of Valencia (2000-2001)
- Associate Professor of the Prosthodontics and Occlusion Unit Faculty of Dentistry, University of Valencia.
- Professor of the Master's Degree in Prosthetics at the Faculty of Dentistry, University of Valencia
- Professor of the Master's Degree in Advanced Oral Implantology, European University of Valencia (2015-2016)
- Master's Degree in Dental Sciences (2011)
- Member of the Board of Directors of the Spanish Society of Stomatological and Aesthetic Prosthetics (SEPES)
- Coordinator of the online training for SEPES.
- Member of the Board of Directors for the Center for Odontostomatological Studies of Valencia

Dr. Plaza Espi, Andrés

- Degree in Dentistry from Cardenal Herrera University - CEU in Valencia
- Master's Degree in Oral Medicine and Surgery from the University of Valencia 2010-2011
- Master's Degree in Dental Sciences from the University of Valencia 2011-2012
- Master's Degree in Dental Prosthesis from the University of Valencia 2009
- Associate professor of Prosthesis II at the Faculty of Dentistry, University of Valencia
- Professor of the Master's Degree in Dental Prosthesis at the University of Valencia

Dr. Rodriguez-Bronchú, Javier

- Degree in Dentistry from Cardenal Herrera University (2002-2007)
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05

Structure and Content

The contents of this Advanced Master's Degree have been developed by the different experts on this course, with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field. The content of this course enables you to learn all aspects of the different disciplines involved in this field. A complete and well-structured program that will take you to the highest standards of quality and success.

Through a very well compartmentalized development, you will be able to access the most advanced knowledge of the moment to achieve professional success"

Module 1. Basic Periodontics

1.1. Anatomy of the Periodontium
   1.1.1. Gingiva: 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 Diseases
   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. Microbiological
   2.4.4. Therapeutic Principles
2.5. Necrotizing Ulcerative Periodontal Disease
   2.5.1. General and Clinical Characteristics Classification
   2.5.2. Etiology and Pathogenesis
   2.5.3. Microbiological
   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. Microbiological
   2.6.5. Pediatric Dentistry

2.7. Lesion of Endodontic Origin
 2.7.1. Introduction
 2.7.2. Classification
 2.7.3. Etiology, Pulp Pathogenesis and Microbiology
 2.7.4. Microbiological
 2.7.5. Effects of Periodontal Treatment on the Pulp
 2.7.6. Pediatric Dentistry
2.8. Halitosis

Module 3. Examination, Diagnosis and Treatment Plan

3.1. Anamnesis of the Patient with Periodontal Disease
 3.1.1. Dental History, Social, Family, Smoking, 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 Examination: Periodontogram
 3.2.2. X-ray Examination: Periapical Radiographic Series
 3.2.3. Screening for Periodontal Disease
3.3. Microbiological
 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. Periodontal Restorative Treatment I: Periodontal Regeneration GTR

6.1. Basic Principles of Regeneration
- 6.1.1. Introduction: Reintegration, New Insertion, Regeneration
- 6.1.2. Indications for Regenerative Periodontal Surgery
- 6.1.3. Assessment of Periodontal Regeneration: Probing, Radiographic and Histological
- 6.1.4. Periodontal Wound Healing Regenerative Capabilities
  - 6.1.4.1. Bone Cells
  - 6.1.4.2. Gingival Connective Tissue
  - 6.1.4.3. Periodontal Ligament
  - 6.1.4.4. Epithelium

6.2. Regenerative Procedures
- 6.2.1. Scaling and Root Smoothing and-Needle Flap Surgeries
- 6.2.2. Grafting - Regeneration Procedures
  - 6.2.2.1. Autogenous Grafts
  - 6.2.2.2. Allografts
  - 6.2.2.3. Xenografts
  - 6.2.2.4. Alloplastic Materials
- 6.2.3. Root Surface Biomodification
- 6.2.4. Membranes in Periodontal Regeneration Barrier Function
- 6.2.5. Amelogenins in Periodontal Regeneration

6.3. Guided Tissue Regeneration (GTR)
- 6.3.1. Clinical Application of GTR Infraosseous Defects
- 6.3.2. GTR Technique Guidelines
  - 6.3.2.1. Design of the Flap
  - 6.3.2.2. Characteristics of the Defect to be Treated
  - 6.3.2.3. Preparation of the Defect
  - 6.3.2.4. Suture of the Membranes
  - 6.3.2.5. Flap Closure
  - 6.3.2.6. Postoperative Indications
- 6.3.3. Influencing Factors: Patient, Defect, Technique and Healing
- 6.3.4. Barrier Materials in GTR
- 6.3.5. Resorbable Membranes

Module 7. Reconstructive Periodontal Treatment II: Periodontal Surgery Treatment of Furcation Lesions

7.1. Furcations Concept and Anatomy
- 7.1.1. Upper Molars
- 7.1.2. Upper Premolars
- 7.1.3. Lower Molars

7.2. Microbiological
- 7.2.1. Periodontogram
- 7.2.2. Radiographic Tests

7.3. Pediatric Dentistry
- 7.3.1. Grade I Furcation Lesions
- 7.3.2. Grade II Furcation Lesions
- 7.3.3. Grade III Furcation Lesions
- 7.3.4. Plastics of Furcation
- 7.3.5. Furcation Tunneling
- 7.3.6. Radectomy
- 7.3.7. Regeneration of Furcation Lesions
- 7.3.8. Extraction

7.4. Prognosis of Furcation Lesions

Module 8. Periodontal Reconstructive Treatment III: Periodontal and Mucogingival Plastic Surgery Basic Principles

8.1. Etiopathogenesis and Prevalence of Mucogingival Disorders
  8.1.1. Eruption Pattern
  8.1.2. Fenestration and Dehiscence
  8.1.3. Precipitating and Predisposing Factors
  8.1.4. Prevalence of Gingival Recession
8.2. Diagnosis and Indications in Mucogingival Surgery
  8.2.1. Diagnosing a Mucogingival Problem
  8.2.2. Performance Criteria in Pediatric, Young and Adult Patients
8.3. Gingival Recession
  8.3.1. Classification
8.4. Prognosis and Predetermination in Root Canal Veneering
8.5. Surgical Technique Selection
  8.5.1. Criteria for Choosing a Surgical Technique
  8.5.2. Anatomical Factors that Affect Prognosis
  8.5.3. Scientific Evidence
  8.5.4. Variables to be Taken Into Account Depending on the Technique
8.6. Root Surface Treatment
8.7. Amelogenins in Mucogingival Surgery
8.8. Surgical Principles in Periodontal Plastic Surgery
  8.8.1. Incisions and Bevels
  8.8.2. Flaps
8.9. Sutures, Surgical Instruments and Postoperative Care
  8.9.1. Sutures, Materials, Characteristics, Knots and Suturing Techniques
  8.9.2. Surgical Instruments in Mucogingival Surgery
  8.9.3. Post-Operative Care

Module 9. Periodontal Reconstructive Treatment IV: Periodontal and Mucogingival Plastic Surgery Autografts and Displaced Flaps for Root Resurfacing

9.1. Epithelialized Free Autograft
  9.1.1. Basic Principles
    9.1.1.1. Indications and Contraindications
    9.1.1.2. Advantages and Disadvantages
    9.1.1.3. Phases when Performing Epithelialized Autografts
    9.1.1.4. Donor Site Treatment
    9.1.1.5. Nourishment and Healing of the Graft and Donor Site
    9.1.1.6. Immediate postoperative complications.
  9.1.2. Step-by-Step Technique
    9.1.2.1. Prophylactic Autograft
    9.1.2.2. Therapeutic Autograft
    9.1.2.3. Technique for Obtaining an Epithelialized Graft
    9.1.2.4. Creeping Attachment
9.2. Displaced Flaps Indications, Advantages and Disadvantages and Technique
  9.2.1. Coronal Displaced Flap (Single or Multiple)
  9.2.2. Multiple Coronal Displaced Flap with No Offloading
  9.2.3. Laterally Displaced and Coronally Advanced Flap
  9.2.4. Semilunar Flap
  9.2.5. Bipediculated Flap

Module 10. Periodontal Reconstructive Treatment V: Periodontal and Mucogingival Plastic Surgery Bilaminar Techniques for Root Canal Veneering

10.1. Introduction to Bilaminar Techniques
    10.1.1. Indications, Contraindications, Advantages, Disadvantages, Classification, Total-Partial Thicknesses
10.2. Surgical Techniques for Obtaining Connective Tissue Grafts
    10.2.1. Characteristics of the Palatal Fibromucosa
    10.2.2. Trap-door Technique (Three Incisions)
    10.2.3. “I" Technique (Two Incisions)
    10.2.4. Envelope Technique (One Incision)
    10.2.5. De-Epithelialized Epithelial-Connective Tissue Grafting Technique
10.3. Connective Tissue Grafts Associated with Displaced Flaps
    10.3.1. Coronal Displaced Flap Associated with Subepithelial Connective Tissue Grafting
    10.3.2. Multiple Coronal Non-Discharged Displaced Flap Associated with Subepithelial Connective Tissue Grafting
    10.3.3. Lateral Displaced Flap Associated with Subepithelial Connective Tissue Grafting
    10.3.4. Bipedicled Flap Associated with Subepithelial Connective Tissue Grafting
10.4. Pocket or Envelope Connective Tissue Grafting and Tunneling
    10.4.1. Indications, Contraindications, Advantages and Disadvantages
    10.4.2. Techniques
10.5. Biomaterial Substitutes for Autologous Grafts
    10.5.1. Soft Tissue Allografts and Xenografts
    10.5.2. Indications, Contraindications, Advantages and Disadvantages
    10.5.3. Types, Characteristics and Handling

Module 11. Periodontal Reconstructive Treatment VI: Periodontal and Mucogingival Plastic Surgery Corrective Plastic Surgery

11.1. Surgical Lengthening of the Dental Crown
- 11.1.1. Coronary Lengthening for Prosthodontic Reasons
- 11.1.2. Multiple Coronary Elongation for the Treatment of APE
  - 11.1.2.1. Altered Passive Eruption
  - 11.1.2.2. APE Treatment
  - 11.1.2.3. Apically Displaced Flap with Vestibular Osteoplasty
  - 11.1.2.4. Apically Displaced Flap with Vestibular Osteoplasty

11.2. Frenulum Surgery
- 11.2.1. Upper Labial Frenulum Surgery
- 11.2.2. Lower Labial Frenulum Surgery

11.3. Vestibular Plastic Surgery Vestibuloplasty
- 11.3.1. Vestibuloplasty
- 11.3.2. Vestibuloplasty Associated with Grafting

11.4. Treatment of Cervical Abrasions and Caries Associated with Gingival Recession

11.5. Treatment of Gingival Clefts

11.6. Composite Restorative Treatment in Conjunction with Surgical Root Canal Veneering

11.7. Treatment of Alveolar Ridge Defects Using Soft Tissue Augmentation
- 11.7.1. Etiology and Classification of Alveolar Ridge Defects
- 11.7.2. Surgical Techniques for Volume and Keratinized Gingival Augmentation

Module 12. Mucogingival Surgery in Implant Dentistry

12.1. Morphologic Differences Between Periodontal and Peri-Implant Soft Tissues
- 12.1.1. Morfoligical
- 12.1.2. Vascularization

12.2. Influence of Gingival Biotype and Keratinized Gingiva in Implant Dentistry
- 12.2.1. Fine Biotype in Implant Dentistry
- 12.2.2. Coarse Biotype in Implant Dentistry
- 12.2.3. Risk Areas Implant-Soft Tissue Junction
- 12.2.4. Keratinized Gingiva Vs. Mucosa

12.3. Tissue Reconstruction Simultaneous to Implant Placement
- 12.3.1. Tissue Reconstruction Simultaneous to Implant Placement immediately After an Extraction
  - 12.3.1.1. Clinical Benefits Vs. Biological Limitations
- 12.3.2. Tissue Reconstruction Simultaneous to Implant Placement Delayed After an Extraction

12.4. Delayed Tissue Reconstruction is After Placing an Implant
- 12.4.1. Delayed Tissue Reconstruction After an Implant Placement During Surgical Reopening - Second Phase
- 12.4.2. Delayed Tissue Reconstruction After Placing an Implant Approach to Esthetic Implant Failure

12.5. Surgical Techniques
- 12.5.1. Alveolar Ridge Preservation Techniques
  - 12.5.1.1. Collagen Matrix
  - 12.5.1.2. Alveolar Sealing by Free Grafting
  - 12.5.1.3. Alveolar Sealing by Pedicle Grafting of the Palate
  - 12.5.1.4. Temporary Alveolar Sealing (Bio-Col)
  - 12.5.1.5. Combined Soft-Tissue-Bone Graft Tuber-Trephine Technique
- 12.5.2. Surgical Techniques for Obtaining Keratinized Gingiva Over Implants
  - 12.5.2.1. Palatal to Vestibular Fibromucosa Displacement
  - 12.5.2.2. Interproximal Pedicles
  - 12.5.2.3. Vestibular Pocket Pedicles
  - 12.5.2.4. Free Grafting on Implants
- 12.5.3. Surgical Techniques to Obtain Connective Tissue Volume
  - 12.5.3.1. Envelope Connective Tissue Grafting
  - 12.5.3.2. Pedicle Graft of the Palate

Module 13. Periimplantitis

13.1. Structural Differences Between Peri-Implant and Periodontal Tissues
- 13.1.1. Tooth-Gum Vs. Implant-Gum Interface
- 13.1.2. Connective Tissue
- 13.1.3. Vascularization
- 13.1.4. Biological Space
- 13.1.5. Microbiology

13.2. Mucositis

13.3. Mucositis Vs. Periimplantitis

13.4. Peri-Implantitis
- 13.4.1. Risk factors

13.5. Treatment of Peri-Implant Diseases
- 13.5.1. Mucositis Treatment
- 13.5.2. Peri-Implantitis Treatment
- 13.5.3. Non-surgical Treatment
- 13.5.4. Surgical Management

13.6. Maintenance of Peri-Implant Diseases

Module 14. Periodontics and Endodontics

14.1. Interactions Between Pulpal Disease and Periodontal Disease

14.2. Anatomic Considerations
- 14.2.1. Dentinal Tubules
- 14.2.2. Apical Foramen
- 14.2.3. Periodontium
- 14.2.4. Interactions of the Disease

14.3. Etiology
- 14.3.1. Bacteria
- 14.3.2. Fungi
- 14.3.3. Virus
- 14.3.4. Other Pathogens: Intrinsic and Extrinsic

14.4. Contributing Factors
- 14.4.1. Incorrect Endodontic Treatment
- 14.4.2. Incorrect Restorations
- 14.4.3. Trauma
  - 14.4.3.1. Enamel Fracture
  - 14.4.3.2. Crown Fractures without Pulp Exposure
  - 14.4.3.3. Crown Fractures with Pulp Exposure
  - 14.4.3.4. Coronoradicular Fracture
  - 14.4.3.5. Root Fracture
  - 14.4.3.6. Dislocation
  - 14.4.3.7. Avulsion
- 14.4.4. Perforation
- 14.4.5. Dental Malformation

14.5. Differential Diagnosis
- 14.5.1. Endodontic Lesions
- 14.5.2. Periodontal Injuries
- 14.5.3. Combined Injuries
    - 14.5.3.1. Primary Endodontic Lesions with Secondary Periodontal Involvement
    - 14.5.3.2. Primary Periodontal Lesions with Secondary Periodontal Involvement
    - 14.5.3.3. Concomitant Lesion: Independent or Communicated

14.6. Prognosis

Module 15. Periodontics, Orthodontics and Occlusion

15.1. Indications and Contraindications for Orthodontic Treatment in the Periodontal Patient
- 15.1.1. Indications
- 15.1.2. Contraindications
- 15.1.3. Orthodontic Planning in the Periodontal Patient

15.2. Advantages and Disadvantages of Orthodontic Forces in the Patient with Controlled Periodontitis

15.3. Biological Considerations
- 15.3.1. Periodontal and Bone Response to Normal Function
- 15.3.2. Structure and Function of the Periodontal Ligament
- 15.3.3. Response of the Periodontal Ligament and Alveolar Bone to Maintained Orthodontic Forces
- 15.3.4. Biological Control of Tooth Movement - Bioelectrical and Pressure-Voltage Theory
- 15.3.5. Orthodontic Basics: Center of Resistance, Center of Rotation, Controlled Forces, Force-Transfer, Anchorage

15.4. Orthodontic Tooth Movement in Patients with Periodontal Tissue Destruction
- 15.4.1. Considerations
- 15.4.2. Tooth Movement into Infraosseous Pockets
- 15.4.3. Types of Orthodontic Movements and Their Influence on Periodontal Teeth

15.5. Symptomatology of Trauma due to Occlusion
- 15.5.1. Angular Bone Defects
- 15.5.2. Increased Tooth Mobility

15.6. Treatment of Increased Tooth Mobility
- 15.6.1. Classification According to the Degree of Mobility, Periodontal Ligament Status and Alveolar Bone Status
- 15.6.2. Treatment of Tooth Mobility

Module 16. Laser in Periodontics

16.1. Introduction to the Laser
- 16.1.1. History of the Laser
- 16.1.2. Low-Power Laser
- 16.1.3. High-Power of Surgical Laser
- 16.1.4. Laser Safety

16.2. Types of Laser Features
- 16.2.1. Diode Laser
- 16.2.2. Erbium Laser

16.3. Indications and Applications of Lasers in Periodontics
- 16.3.1. As a Stand-Alone Treatment
- 16.3.2. As a Complement to Conventional Treatment

16.4. Laser Therapy - Photobiomodulation

Module 17. Maintenance of Periodontal and Implant Dentistry Patients

17.1. Maintenance of Periodontal Patients
- 17.1.1. Periodontal Maintenance in Patients with Gingivitis
- 17.1.2. Periodontal Maintenance in Patients with Periodontitis
- 17.1.3. Objectives of Periodontal Maintenance Therapy
- 17.1.4. Risk Assessment
- 17.1.5. Periodontal Maintenance Therapy in the Clinic
  - 17.1.5.1. Examination, Reassessment and Diagnosis
  - 17.1.5.2. Motivation, Reinstruction and Instrumentation
  - 17.1.5.3. Site-Specific Treatment
  - 17.1.5.4. Establishing Periodic Maintenance Intervals

17.2. Maintenance of Implant Patients
- 17.2.1. Maintenance of Patients with Dental Implants
- 17.2.2. Objectives of Implant Dentistry Maintenance Therapy
- 17.2.3. Diagnosis of the Peri-Implant Problem
  - 17.2.3.1. Bleeding, Suppuration, Probing Depth, Radiographic Interpretation, Mobility
- 17.2.4. Preventive and Therapeutic Strategies

Module 18. Microbiological

18.1. Clinical History: First Visit, Anamnesis and Patient's Expectations
18.2. Medical Assessment of the Surgical Patient
  18.2.1. Complementary Tests in Implantology and Oral Surgery
18.3. Patient With Diseases of Risk in Implant Dentistry and Surgery: Medical Considerations and Dental Management
  18.3.1. Diabetic Patients
  18.3.2. Immunosuppressed Patients
  18.3.3. Patients Taking Anticoagulants
  18.3.4. The Medically Compromised Patient: Bisphosphonates
18.4. Anaesthetic Techniques in Surgery and Implantology
  18.4.1. Drugs
  18.4.2. Loco-regional Anaesthesia Techniques in Surgery and Implantology
18.5. Sedation and General Anaesthesia

Module 19. Oral Surgery Pathology

19.1. Tooth Retention
  19.1.1. Concept, Etiology and Possible Treatment
19.2. Third Molar Included
  19.2.1. Pathology and Clinical Manifestations
  19.2.2. Diagnosis and Treatment
19.3. Pathology and Treatment of Included Canines
  19.3.1. Microbiological
  19.3.2. Surgical Management
  19.3.3. Surgical-Orthodontic Treatment
19.4. Pre-prosthetic Surgery Techniques on Soft and Hard Tissue
  19.4.1. Laser in Oral Surgery
  19.4.2. Types of Laser in Oral Surgery
19.5. Periapical Surgery
  19.5.1. Materials
  19.5.2. Techniques

Module 20. Implant Planning

20.1. Extraoral and Intraoral Examination
- 20.1.1. Extraoral Examination: Symmetry, Facial Thirds, Extraoral Aesthetic Parameters
- 20.1.2. Intraoral Examination: Hard Tissue, Soft Tissue, Occlusion and TMJ

20.2. Impression Taking and Study Models in Implantology
- 20.2.1. Materials and Impression Techniques in Implant Diagnosis
- 20.2.2. Facebow and Mounting on a Semi-Adjustable Articulator

20.3. Diagnostic Wax-Up and Radiological Splints
- 20.3.1. Waxing Techniques and Clinical Considerations
- 20.3.2. Radiological Splints: Classification and Laboratory Manufacturing

20.4. Radiological Diagnosis in Implantology
- 20.4.1. Classification of Techniques
- 20.4.2. Planning in 2D
- 20.4.3. Cone Beam Computed Tomography (CBCT): Planning Software

20.5. Photographic Records in Implantology

20.6. Presentation of a Treatment Plan Strategies

Module 21. Implantology and Osseointegration

21.1. Historical Review and Generic Terminology of Dental Implants
- 21.1.1. Evolution of Implantology up to the 21st Century
- 21.1.2. Generic Terminology of Dental Implants: Components and Nomenclature

21.2. Biology of Osseointegration
- 21.2.1. Inflammatory Phase
- 21.2.2. Proliferative Phase
- 21.2.3. Maturation Phase
- 21.2.4. Contact and Remote Osteogenesis

21.3. Anatomy in Implantology
- 21.3.1. Anatomy of the Upper Jaw
- 21.3.2. Anatomy of the Mandible

21.4. Histology of Bone Tissue, Periodontium and Peri-implant Tissue

21.5. Bone Availability in Implantology

21.6. Preparation of the Surgical Field, Sterilization and Premedication Protocols
- 21.6.1. Table Preparation
- 21.6.2. Surgical Asepsis of the Patient: Premedication
- 21.6.3. Surgical Asepsis of the Surgeon and Assistants

Module 22. Basic Surgical Technique and Implantology

22.1. Incision Techniques in Implantology
- 22.1.1. Incisions in a Total Edentulous Patient
- 22.1.2. Incisions in a Partial Edentulous Patient
- 22.1.3. Incisions in the Aesthetic Sector
- 22.1.4. Incisions in Bone Guided Regeneration Techniques
- 22.1.5. Flapless

22.2. Surgical Instruments Detachment, Separation and Bone Regulation

22.3. Drilling Techniques in Implantology
- 22.3.1. Drills and Components of the Surgical Trays
- 22.3.2. Sequential Drilling
- 22.3.3. Biological Drilling

22.4. Single-stage Implants and Two-stage Implants

22.5. Sutures in Implantology
- 22.5.1. Suture Instruments and Materials
- 22.5.2. Suture Techniques

Module 23. Biomaterials and Bone Guided Regeneration

23.1. Types of Bone Grafts and Biological Mechanisms of Bone Formation
- 23.1.1. Classification, Advantages and Disadvantages
- 23.1.2. Osteogenesis, Osteoconduction and Osteoinduction

23.2. Autologous Bone Grafts: Chin and Mandibular Ramus

23.3. Other Biomaterials in Bone Regeneration
- 23.3.1. Homologous Grafts
- 23.3.2. Heterologous Grafts
- 23.3.3. Alloplastic Grafts
- 23.3.4. Plasma Which Is Rich in Growth Factors

23.4. Membranes and Bone Guided Regeneration
- 23.4.1. Non-resorbable Membranes
- 23.4.2. Resorbable Membranes

Module 24. Maxillary Sinus Lift

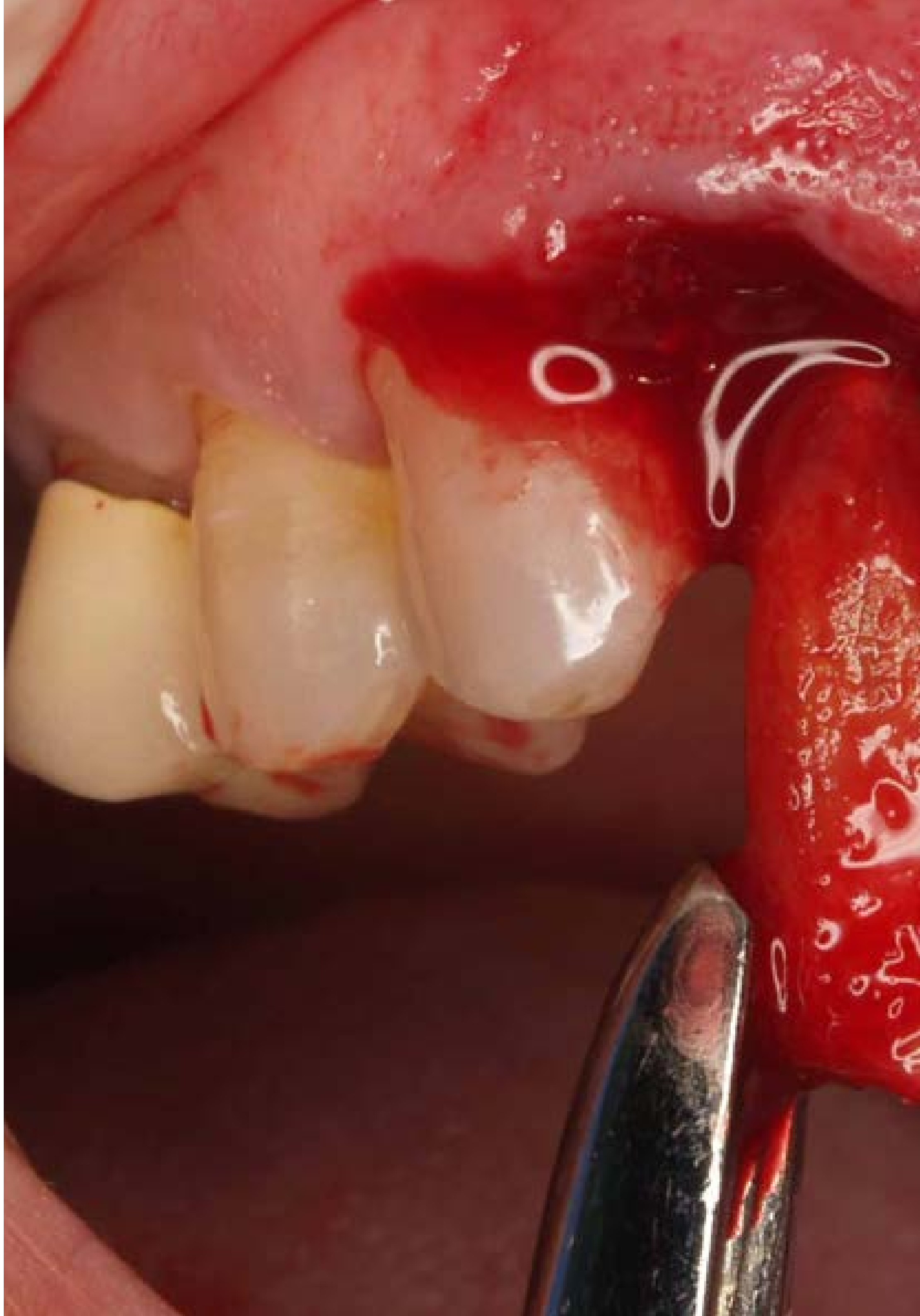
24.1. Diagnosis and Anatomical Recall of the Sinus Lift
24.2. Sinus Lift Technique Via the Crestal Approach
    24.2.1. Sinus Lift with Osteotome Technique
    24.2.2. Minimally Invasive Crestal Sinus Lift
        24.2.2.1. Atraumatic Drilling Kits
        24.2.2.2. Balloon Technique
24.3. Sinus Lift Technique Via the Lateral Approach
    24.3.1. Step - by - Step Description of the Technique
    24.3.2. Piezoelectric Systems
    24.3.3. Biomaterials in Maxillary Sinus Elevation

Module 25. Immediate Implantology

25.1. Post-extraction Implants
    25.1.1. Surgical Aspects of Immediate Implants
        25.1.1.1. Immediate Implant
        25.1.1.2. Early Implant Placement
25.2. Immediate Implants in Posterior Sectors
25.3. Immediate Aesthetic
    25.3.1. Emergency Profile Transmission
    25.3.2. Immediate Provisional

Module 26. Advanced Surgical Techniques in Implantology

26.1. Crest Expansion
    26.1.1. Crest Expansion with Manual Instruments
    26.1.2. Crest Expansion with Motorized Instruments
26.2. Pterygoid Implants
26.3. Zygomatic Implants
26.4. Treatment with Dental Implants without Grafts
    26.4.1. Short Implants
    26.4.2. Narrow Implants
    26.4.3. Angled Implants



Module 27. Periodontics Applied to the Treatment of the Implantology Patient

27.1. Basic Concepts of Periodontics Applied to a Patient With Implants
 27.1.1. Peridontal Diagnosis
 27.1.2. Prognosis and Treatment Plan
27.2. Mucogingival Procedures to Increase Keratinized Tissue
 27.2.1. Free Gingival Grafting
 27.2.2. Bilaminar Grafts
27.3. Mucogingival Procedures to Increase the Volume of Connective Tissue
 27.3.1. Subepithelial Free Grafts
 27.3.2. Pedicled Grafts
27.4. Alveolar Ridge Preservation Techniques
27.5. Implant Maintenance
 27.5.1. Hygiene Techniques
 27.5.2. Revisions and Maintenance in Implantology

Module 28. Implant Prosthesis

28.1. Restoration as a Guide to Global Implantology Treatment
 28.1.1. Nomenclature
28.2. Impression Taking in Implantology Work Models
 28.2.1. Impression Materials in Implantology
 28.2.2. Impression Techniques: Open or Closed Cuvette Impressions
 28.2.3. Pouring Impressions and Obtaining the Working Model
28.3. Selection of Abutments in Implantology
 28.3.1. Preformed Abutments
 28.3.2. Calcinable Abutments
 28.3.3. Cad-Cam Abutments
 28.3.4. Direct Prosthesis to Implant or on Transepithelials
28.4. Materials for Implant Prosthesis
 28.4.1. Porcelain Metal Prostheses
 28.4.2. Resin Metal Prostheses
 28.4.3. Zirconium Prosthesis

28.5. Screw-Retained Versus Cemented Prostheses
  28.5.1. Indications
  28.5.2. Advantages and Disadvantages
28.6. Color Acquisition
  28.6.1. Color Map, Color Guides and Colorimeters
  28.6.2. Color Acquisition Technique
28.7. Clinical Sequence for Implant Prosthetics on Single Crowns and Partial Bridges

Module 29. Implant Prosthesis in a Totally Edentulous Patient

29.1. Treatment Options for a Totally Edentulous Patient
  29.1.1. Key Positions of Implants
29.2. Removable Complete Restorations
  29.2.1. Concept
  29.2.2. Overdenture with Single Anchors
  29.2.3. Overdentures on Bars
  29.2.4. Clinical Sequence of Implant Prostheses in Totally Edentulous Patients Treated with Overdentures
29.3. Complete Fixed Restorations with Hybrid Prosthesis
  29.3.1. Concept
  29.3.2. Materials: Metal– Composite and Metal– Resin Fixed Prosthesis
  29.3.3. Clinical Sequence of Implant Prostheses in Totally Edentulous Patients Treated with Hybrid Prosthesis
29.4. Complete Fixed Restorations with Fixed Prosthesis
  29.4.1. Concept
  29.4.2. Metal-Porcelain– Zirconium
  29.4.3. Clinical Sequence of Implant Prostheses in Totally Edentulous Patients Treated with Fixed Prosthesis

Module 30. Implant Prosthesis in the Anterior Aesthetic Sector

30.1. Problems of the Anterior Single Tooth
30.2. Aesthetics in Oral Restoration with Dental Implants
  30.2.1. Pink Aesthetic
  30.2.2. White Aesthetic
30.3. Aesthetic Parameters in Implantology
  30.3.1. Shape, Color, Dental Size
  30.3.2. Gingival Symmetry
30.4. Prosthodontic Management of the Immediate Postextraction Implant
  30.4.1. Indications and Contraindications
  30.4.2. Management of Temporaries in the Anterior Aesthetic Sector
  30.4.3. Prosthodontic Aspects of Immediate Provisionalization in Single Teeth: Immediate Aesthetics

Module 31. Computer Guided Surgery and Immediate Loading

31.1. Introduction and General Considerations in Immediate Loading
  31.1.1. Parameters and Selection of Patient with Immediate Loading
31.2. Computer-Guided Surgery
  31.2.1. Guided Surgery Software
  31.2.2. Guided Surgery Splints: Mucosal, Dental and Bone Support
  31.2.3. Surgical Components Adapted to Computer-Guided Surgery
  31.2.4. Surgical Techniques in Computer-Guided Surgery

Module 32. Occlusion in Implantology

32.1. Occlusal Patterns in Implant Dentistry
  32.1.1. Occlusion in a Totally Edentulous Patient
  32.1.2. Occlusion in a Partially Edentulous Patient
32.2. Occlusal Splints
32.3. Occlusal Adjustment and Selective Grinding

Module 33. Complications in Implantology

33.1. Emergencies and Complications in Implant Surgery: How They Are and How to Solve Them
 33.1.1. Immediate Complications
 33.1.2. Late Complications
33.2. Prosthesis Complications in Implantology
33.3. Biological Complications: Peri-implantitis
 33.3.1. Concept
 33.3.2. Microbiological
 33.3.3. Non-Surgical and Surgical Treatment
 33.3.4. Informed Consent and Legal Consequences

Take the step to catch up on the latest developments in Periodontics, Implantology and Oral Surgery.

06
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:

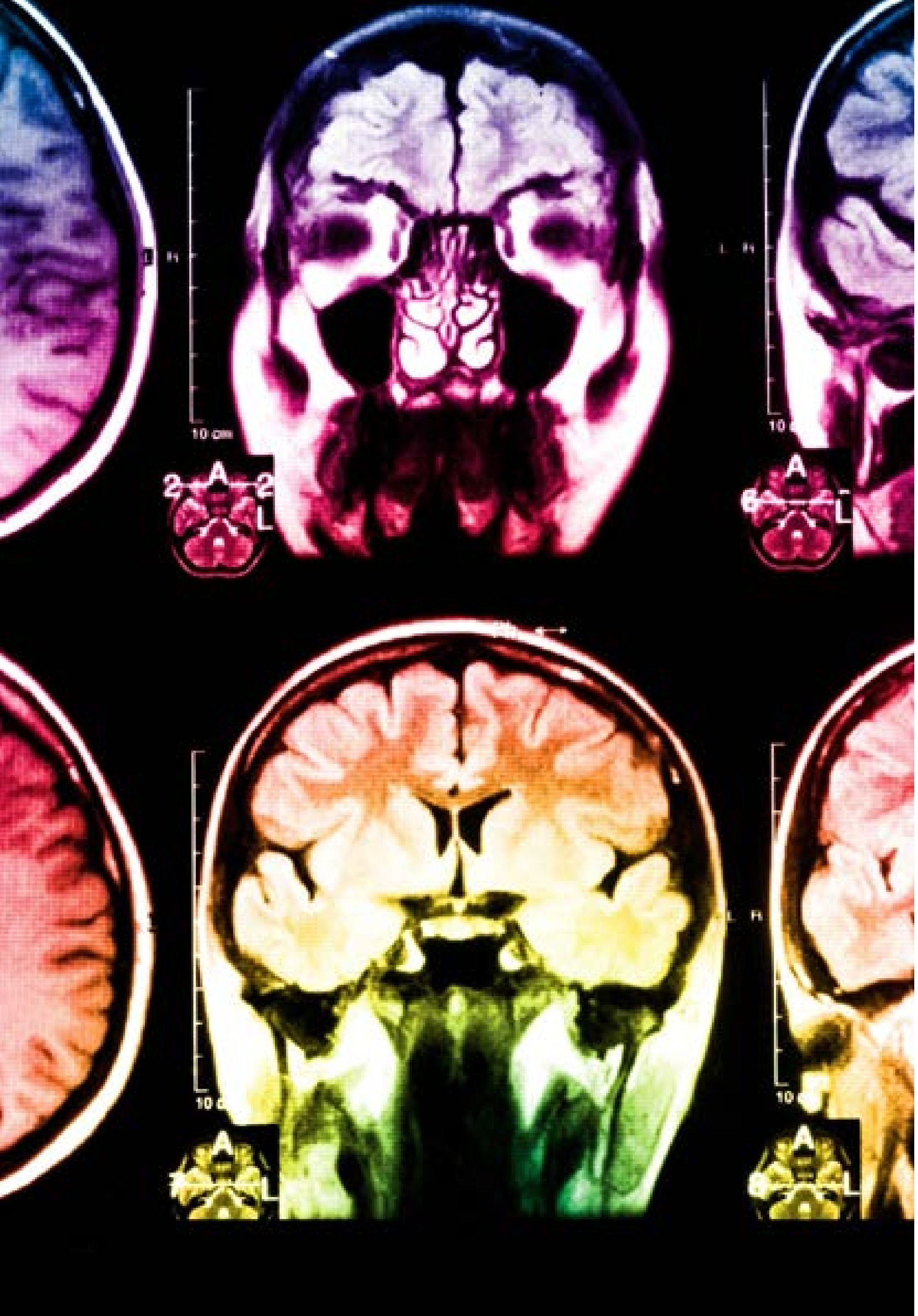
1. Dentists who follow this method not only grasp concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas 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).

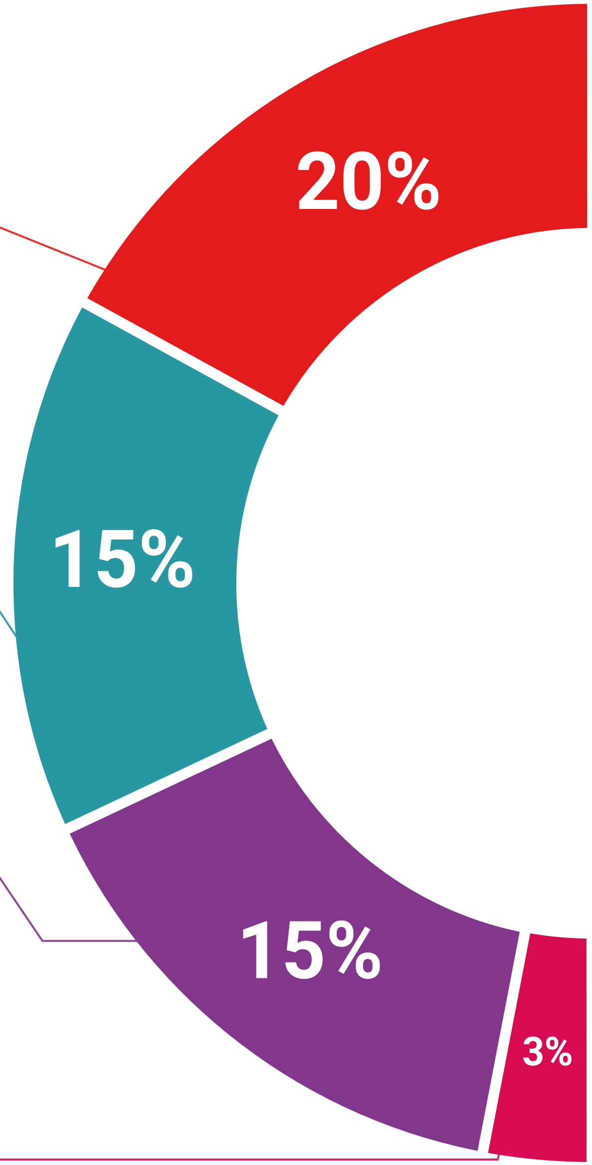
With this methodology we have trained more than 115,000 dentists with unprecedented success, in all specialties regardless of the workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age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

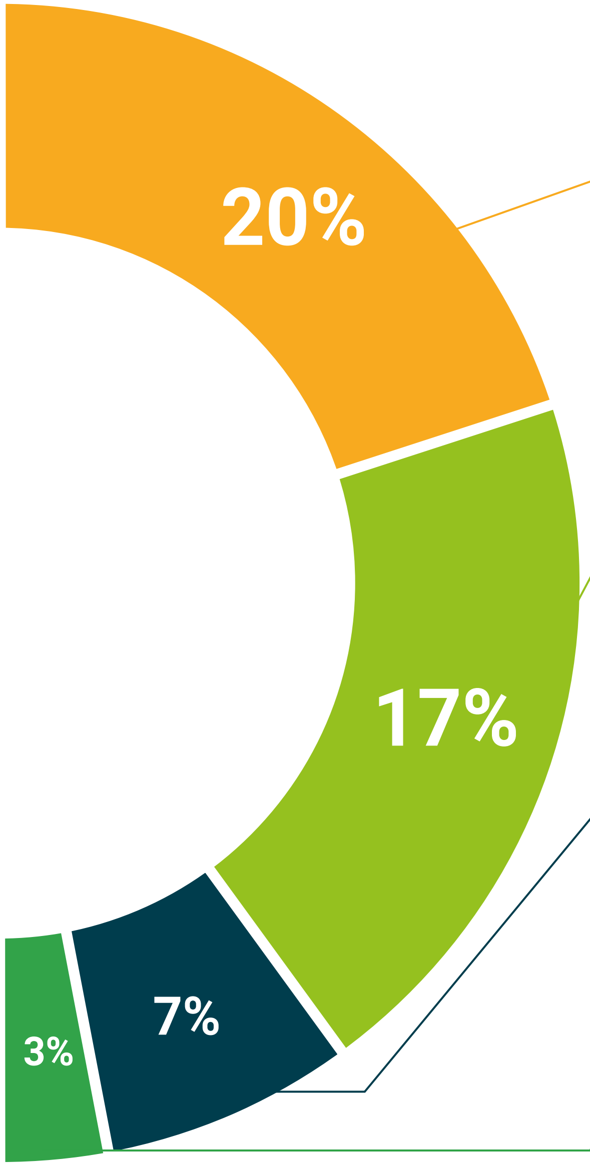
Interactive Summaries

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.

07
Certificate

This Advanced Master's Degree in Periodontics, Implantology and Oral Surgery guarantees you, in addition to the most rigorous and updated training, access to a Advanced Master's Degree issued by TECH Technological University.

"Successfully complete this training and receive your university degree without travel or laborious paperwork"

This **Advanced Master's Degree in Periodontics, Implantology and Oral Surgery** contains the most complete and updated scientific program on the market.

After the student has passed the evaluations, they will receive their corresponding **Advanced Master's Degree** issued by **TECH Technological University** via tracked delivery*.

This diploma issued by **TECH Technological University** will reflect the qualification obtained in the Advanced Master's Degree, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Advanced Master's Degree in Periodontics, Implantology and Oral Surgery**

Official Nº of hours: **3,000 h.**

tech technological university

Awards the following

DIPLOMA

to

Mr./Ms. _______________, with identification number ___________.

For having successfully passed and accredited the following program

ADVANCED MASTER'S DEGREE

in

Periodontics, Implantology and Oral Surgery

This is a qualification awarded by this University, equivalent to 3,000 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

Advanced Master's Degree in Periodontics, Implantology and Oral Surgery

General Structure of the Syllabus

Year	Subject	Hours	Type
1º	Basic Periodontics	100	CO
1º	Periodontal Diseases	100	CO
1º	Examination, Diagnosis and Treatment Plan	100	CO
1º	Basic Non-Surgical Periodontal Treatment Initial Phase	90	CO
1º	Surgical Periodontal Treatment Periodontal Surgery Access Therapy	90	CO
1º	Periodontal Restorative Treatment I: Periodontal Regeneration GTR	90	CO
1º	Reconstructive Periodontal Treatment II: Periodontal Surgery Treatment of Furcation Lesions	90	CO
1º	Periodontal Reconstructive Treatment III: Periodontal and Mucogingival Plastic Surgery Basic Principles	90	CO
1º	Periodontal Reconstructive Treatment IV: Periodontal and Mucogingival Plastic Surgery Autografts and Displaced Flaps for Root Resurfacing	90	CO
1º	Periodontal Reconstructive Treatment V: Periodontal and Mucogingival Plastic Surgery Bilaminar Techniques for Root Canal Veneering	90	CO
1º	Periodontal Reconstructive Treatment VI: Periodontal and Mucogingival Plastic Surgery Corrective Plastic Surgery	90	CO

Year	Subject	Hours	Type
2º	Mucogingival Surgery in Implant Dentistry	90	CO
2º	Periimplantitis	90	CO
2º	Periodontics and Endodontics	90	CO
2º	Periodontics, Orthodontics and Occlusion	90	CO
2º	Laser in Periodontics	90	CO
2º	Maintenance of Periodontal and Implant Dentistry Patients	90	CO
2º	Microbiological	90	CO
2º	Oral Surgery Pathology	90	CO
2º	Implant Planning	90	CO
2º	Implantology and Osseointegration	90	CO
2º	Basic Surgical Technique and Implantology	90	CO
2º	Biomaterials and Bone Guided Regeneration	90	CO
2º	Maxillary Sinus Lift	90	CO
2º	Immediate Implantology	90	CO
2º	Periodontics Applied to the Treatment of the Implantology Patient	90	CO
2º	Implant Prosthesis	90	CO
2º	Implant Prosthesis in a Totally Edentulous Patient	90	CO
2º	Implant Prosthesis in the Anterior Aesthetic Sector	90	CO
2º	Computer Guided Surgery and Immediate Loading	90	CO
2º	Occlusion in Implantology	90	CO

Tere Guevara Navarro
Dean

tech technological university

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

technological university

Advanced Master's Degree
Periodontics, Implantology and Oral Surgery

Course Modality: **Online**

Duration: **2 years**

Certificate: **TECH Technological University**

Official Nº of hours: **3,000 h.**

Advanced Master's Degree
Periodontics, Implantology and Oral Surgery

tech technological university