

# Postgraduate Diploma

## Dermoaesthetic and Facial Medicine





## Postgraduate Diploma Dermoaesthetic and Facial Medicine

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-dermoaesthetic-facial-medicine](http://www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-dermoaesthetic-facial-medicine)

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# 01

# Introduction

Dermaesthetic and Facial Medicine helps patients to fight back against the effects that time has produced on their face and rejuvenate their skin. Many people today are opting for treatments to improve their image and, therefore, it is important that professionals in this field expand their knowledge with training like this.





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*A comprehensive program that will help you keep up-to-date with the latest techniques in Dermoaesthetic and Facial Medicine”*

The importance of beauty, both feminine and masculine, is booming in recent years. Therefore, it is not surprising that many people, despite not having any type of disease, decide to undergo surgery or cosmetic treatments to improve their image.

The aging process represents a combination of intrinsic factors such as tissue atrophy and extrinsic factors such as solar radiation or gravity.

Understanding the biology of aging is crucial to understanding the approach to all the processes involved in Aesthetic, Regenerative and Anti-Aging Medicine. Identifying these biological changes of aging, analyzing genes and the functions of diagnostic methods contribute to the immersion across disciplines and areas of expertise.

The Postgraduate Diploma in Dermaesthetic and Facial Medicine is a postgraduate course designed to acquire a scientific training created to provide the physician with the necessary knowledge to implement the specialization in his professional life. It brings an added balance to working life and opens a door to a growing demand for healthcare.

Unlike other degrees, it offers a comprehensive, in-depth and focused training in each fundamental area of Dermaesthetic and Facial Medicine with the objective of restoring, improving, beautifying and perfecting the physical appearance and being able to prolong patient's lives, improve their quality of life and control, delay and even prevent the loss of physical and mental faculties. And, consequently, the development of diseases related to aging, loss of youth and vitality by applying the new concepts of Dermaesthetic and Facial Medicine. All of this for a better prescription and optimization of the results of anti-aging treatments by applying knowledge from the different related specialties.

This **Postgraduate Diploma in Dermaesthetic and Facial Medicine** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ♦ Development of case studies presented by experts in Dermaesthetic and Facial Medicine.
- ♦ The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- ♦ Developments in Dermaesthetic and Facial Medicine
- ♦ Practical exercises where self-assessment can be used to improve learning.
- ♦ Special emphasis on innovative methodologies in Dermaesthetic and Facial Medicine.
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is Accessible from any Fixed or Portable device with an Internet Connection



*Expand your knowledge through this Postgraduate Diploma in Dermaesthetic and Facial Medicine that will allow you to specialize until you achieve excellence in this field"*

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*This Postgraduate Diploma may be the best investment you can make when choosing a refresher program, for two reasons: in addition to updating your knowledge in Dermaesthetic and Facial Medicine, you will obtain a qualification from the largest digital university in the world. TECH Technological University"*

The teaching staff includes professionals from the field of Dermaesthetic and Facial Medicine, who bring their experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive training program designed to train in real situations.

This program is designed around Problem Based Learning, whereby the physician must try to solve the different professional practice situations that arise during the academic year. For this purpose, the professor will be assisted by an innovative interactive video system created by renowned and experienced experts in the field of Dermaesthetic and Facial Medicine.

*Do not hesitate to take this training with us. You will find the best teaching material with virtual lessons.*

*This 100% online Postgraduate Diploma will allow you to combine your studies with your professional work while increasing your knowledge in this field.*



02

# Objectives

The Postgraduate Diploma in Dermoaesthetic and Facial Medicine is aimed at facilitating the performance of the professional dedicated to teaching the latest advances and the most innovative treatments in the sector.







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*Thanks to this program you will be able to specialize in Dermoaesthetic and Facial Medicine and learn about the latest advances in the field"*



## General Objectives

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- Impart knowledge of all anti-aging modalities and esthetic treatments, incorporating the necessary tools to carry out this specialty in their daily practice.
- Learn how to control, delay and prevent the existing aging process today.

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*Make the most of this opportunity and take the step to get up-to-date on the latest developments in Dermoaesthetic and Facial Medicine”*





## Specific Objectives

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### Module 1. Basic Principles of Aesthetic Medicine

- ♦ Know how to identify the biological changes in aging, the analysis of genes and the functions of diagnostic methods.
- ♦ Learn how to manage the mechanisms of action of topical treatments, peeling, the annotation of cosmetic evaluations and various measurement methods
- ♦ Define and analyze in a global way the structures and functions of each area and open opportunities for new treatments.
- ♦ Study the physics of ultrasound, since it is a dependent medical procedure where the specialist will have to manipulate the ultrasound equipment to determine the ultrasound characteristics of the lesion.
- ♦ Study the classification of the different lesions that can be identified.
- ♦ Analyze changes in monitoring the evolution of diseases, as well as tissue involvement, localization, size, characterization and differentiation between benign and malignant lesions.
- ♦ Identify the possible complications from filler materials.

### Module 2. Peelings. Dermocosmetics

- ♦ Learn to use the different types of peeling in the treatment of rejuvenation and certain skin disorders in an effective way, highlighting the knowledge of the most used active ingredients and their mechanisms of action.
- ♦ Selection of the patient in an appropriate manner, prior preparation of the skin, including correct follow-up and prescription of the post-peeling treatment, in accordance with the usual evolution after the application of each chemical agent or combination of.
- ♦ Understand the possible adverse effects of peeling and their treatments.

### Module 3. Applications of Botulinum Toxin in Dermatology and Aesthetic, Regenerative and Anti-Aging Medicine. Regenerative Medicine for Aesthetic Purposes

- ♦ Get up-to-date on the types of authorized botulinum toxin, the precise knowledge of the action mechanisms of each one and the detailed instructions for each anatomical area.
- ♦ Know the therapeutic application of the factors that intervene in biological processes.
- ♦ Know the therapeutic application of the factors that intervene in biological processes.

### Module 4. Facial Implants in Aesthetics

- ♦ Learn how to use temporary filler materials
- ♦ Gain insight into the correction of volume defects associated with tissue atrophy secondary to aging
- ♦ Get up-to-date on filler materials to create a comprehensive rejuvenation protocol that works with absolute safety by knowing their components and short- and long-term side effects.

03

# Course Management

The program includes in its teaching staff reference experts in Aesthetic Medicine, who pour into this training the experience of their work. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.





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*The leading experts in Dermoaesthetic Medicine have joined forces to share with you all their knowledge in this field"*

Dirección



**Dr. Mosquera González, Margarita**

- Medical Director of the Comprehensive Aesthetic Medicine area. C&M Clinic. Rivas. Madrid
- Specialist Physician in the Preventive Medicine Unit of the Alcorcón Foundation University Hospital
- Specialist in Aesthetic and Anti-Aging Medicine



### **Dr. Lacosta Esclapez, Pilar**

- Head of Lipedema Unit. Aesthetic Medicine Department. Viamed Hospitals
- Head of the Department of Aesthetic Oncological Medicine at the Plastic Surgery Clinic of Dr. Granado Tiogonce
- Responsible for the Unit of Quality of Life of the Oncology Patient
- Aesthetic Physician at Nuestra Señora de La Paloma Hospital
- Aesthetic Physician at Pilar Lacosta Clinic
- Medical Director of the Sergesa Center for Dependency
- Director of Aesthetic Oncology Medicine Unit in the clinic of Dr. Granado in Pozuelo de Alarcón
- Medical Director of Dr. Pilar Lacosta Clinic in Boadilla del Monte
- Some societies to which she belongs, Member of the Board of Directors of the group of experts in aesthetic medicine in oncology patients (GEMEON), SEMNO (Spanish Society of Nutrition and Orthomolecular Medicine), SEME (Spanish Society of Aesthetic Oncological Medicine)

## Profesores

### Dr. Esteban Herrero, Margarita

- ♦ Director of the Aesthetic Medical Center Dr. Esteban Clinic
- ♦ Specialist in Aesthetic Medicine and Director of the Aesthetic Clinic
- ♦ President of the group of experts in oncological aesthetic medicine (GEMEON)
- ♦ Member of the Spanish Society of Aesthetic Medicine (SEME)

### Dr. Del Cura Allende, Gorka

- ♦ Radiology Specialist. Radiodiagnostics Department at Galdakao-Usansolo Hospital
- ♦ Plain radiology studies. Abdominal, thyroid and cervical, testicular, musculoskeletal/soft-tissue scans
- ♦ Breast diagnostics (mammography and breast and axillary ultrasound)

### Dr. Ibáñez Castresana, Ricardo

- ♦ Lawyer specialist in Medical Health Law
- ♦ Founder of the law firm "IURISVOX"
- ♦ Member of the Arbitration Court of Commerce of Vizcaya, as expert arbitrator
- ♦ Legal advisor in the Consumer Affairs Department of the Government
- ♦ Selection of personnel for the Municipal Consumer Information Offices (OMIC)
- ♦ Legal advisor to the Spanish Commission for Refugee Aid

### Dr. Arnaiz Urrez, Celia

- ♦ Psychologist and Head of Human Resources at the Fundación Alcorcón University Hospital
- ♦ Clinical Simulation Instructor. Center for Medical Simulation of Harvard-MIT
- ♦ Director of Human Resources at TCP
- ♦ Head of the Training and Recruitment Department of the Fundación Alcorcón University Hospital
- ♦ Specialization in Clinical Psychology and Occupational Psychology. International Coach Federation
- ♦ Development of emotional competencies in periods of health crisis due to Ebola and Covid
- ♦ Participatory strategies to optimize the selection of team leaders
- ♦ Impact of Soft Skills Competency Training
- ♦ The ROI of Soft Skills Training
- ♦ Implementing a Healthy Organization
- ♦ Study of the Humanized Leader competencies
- ♦ Elaboration of a dictionary of competencies for healthcare organizations
- ♦ Development of new roles, or how to promote a new paradigm in the care of chronicity with professionals as the driving force for change
- ♦ Validity of the reception processes in the integration of new employees into the organization
- ♦ Collaboration in the adaptation of clinical psychometric tests (UCM) and development of personality tests (TP-10) in the selection of police scales. DGP-Ministry of the Interior



**Dr. Franco Vidal, Amalia**

- ♦ Coordinator of Quality and Innovation in the Health Service of the Principality of Asturias
- ♦ Specialist in Preventive Medicine and Public Health. La Paz University Hospital. Madrid
- ♦ Medical Director of Primary Care
- ♦ Evaluator in the European Union Project of Rare Diseases Units for the “European Reference Networks for Rare and Low Prevalence Complex Diseases”
- ♦ Management Development Program. Talentia 360

**Dr. Ugarte López, Nuria**

- ♦ Director of the Aesthetic Medical Center Dr. Nuria Ugarte
- ♦ Expert in quality of life and medical-aesthetic care of cancer patients
- ♦ Member of the Board of Directors of the group of experts in aesthetic medicine in cancer patients (GEMEON)
- ♦ Member of the Spanish Society of Aesthetic Medicine Spanish Society of Aesthetic Medicine (SEME) and Riojan Society of Aesthetic Medicine (SRME)

**Dr. De Toledo Heras, María**

- ♦ Neurology Specialist. Department of Neurology at La Princesa University Hospital
- ♦ Head of the Epilepsy Unit. Department of Neurology, La Princesa University Hospital, Madrid
- ♦ Neurology Specialist. Doce de Octubre University Hospital
- ♦ Specialty in cognitive disorders and dementias
- ♦ Doctorate in Neurosciences

**Dr. Chicón García, Jesús**

- ♦ Medical Director Chez Jolie Clinic
- ♦ Medical Director of JEISAMED Clinics
- ♦ Medical Director Salutae
- ♦ Master’s Degree in aesthetic medicine and hospital nutrition
- ♦ European expert in quality management. Spanish Quality Agency
- ♦ European expert in research, development and innovation. Spanish Quality Agency

**Dr. Del Cura Rodríguez, José Luis**

- ♦ Head of Section of the Radiodiagnosis Service of the Donostia University Hospital
- ♦ Head of Section of the Radiodiagnosis Service of the Basurto Hospital. Vizcaya
- ♦ Head of Radiology Department, Donostia University Hospital - OSI Donostialdea
- ♦ President of the Spanish Society of Ultrasound (SEUS)
- ♦ Former President of the Spanish Society of Radiology SERAM

**Dr. Del Diego Salas, Jorge**

- ♦ General Deputy Director of Health Promotion and Prevention. Ministry of Health
- ♦ National Coordinator of the Vaccine Network of the Spanish Society of Preventive Medicine, Public Health and Health Management
- ♦ Head of Service of the Support Unit of the General Directorate of Public Health of the Ministry of Health
- ♦ Former Director of the International Epidemiological Alerts and Consultancy Service ASISA
- ♦ International Consultant of WHO for the Ebola outbreak in West Africa
- ♦ International Consultant for PAHO/WHO in the regional Dengue program for the Americas
- ♦ Member of the ECDC EPIET program
- ♦ Responsible for the vaccine network and member of the Board of Directors of the Spanish Society of Preventive Medicine, Public Health and Hygiene

**Ms. Díaz Martín, María Margarita**

- ♦ Nurse at the Preventive Medicine Unit of the Alcorcón Foundation University Hospital
- ♦ Expert in Surgical Area Nursing, Anesthesia and Resuscitation
- ♦ Teaching activity on procedures related to infection control, hospital hygiene, hand hygiene, use of antiseptics and disinfectants
- ♦ Trajectory as main tutor of clinical practice with undergraduate nursing students

**Dr. Vicente Sánchez, Gema María**

- ♦ Specialist Physician in Internal Medicine and Public Health at HUFA
- ♦ Clinical Management of patients with Systemic and Autoimmune Diseases



**Dr. Alonso García, Marcos**

- ♦ Public Health Technician, Government of the Community of Madrid
- ♦ Specialist in the Preventive Medicine Unit of the Fundación Alcorcón University Hospital

**Dr. Rocés Menéndez, Ana**

- ♦ Medical Director of Merz Pharma for Spain and Portugal
- ♦ Medical Director of the aesthetic medicine clinic Merz Center of Excellence
- ♦ Specialist in Aesthetic, Cosmetic and Anti-Aging Medicine
- ♦ Master's Degree in Pharmaceutical Marketing

**Dr. Sans Durán, Cristina**

- ♦ Degree in Medicine and Surgery.
- ♦ Emergency Physician at Summa 112
- ♦ Aesthetic and Cosmetic Doctor
- ♦ PhD on Nutrition and Obesity



# 04

## Structure and Content

The structure of the contents has been designed by the best professionals in the field of Dermoaesthetic and Facial Medicine, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied and diagnosed, and with extensive knowledge of new technologies applied to teaching.





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*This Postgraduate Diploma in Dermoaesthetic and Facial Medicine, contains the most complete and up-to-date scientific program on the market”*

## Module 1. Basic Principles of Aesthetic Medicine

- 1.1. Introduction and Perception of Beauty
  - 1.1.1. History
  - 1.1.2. Proportions and Elements of Facial Analysis
  - 1.1.3. General and Specific Facial References
- 1.2. Anatomical Changes: Aging
  - 1.2.1. Aging: A Dynamic Process
  - 1.2.2. Lesions Associated to Ageing Changes in Facial Bone Structures and Soft Tissue
  - 1.2.3. Changes to the Ligaments, Muscles and Skin
- 1.3. Aging Theories
  - 1.3.1. Molecular Theory and Oxidative Stress
  - 1.3.2. Theories on Intrinsic Aging
  - 1.3.3. Theories on Extrinsic Aging
  - 1.3.4. Telomere Shortening Genes Associated with Longevity and Aging
- 1.4. Evaluation of Aging in Aesthetic Medicine
  - 1.4.1. Scales to Evaluate Aging
  - 1.4.2. Clinical Visual Scale
  - 1.4.3. Diagnostic Imaging Methods
  - 1.4.4. Skin Parameters: Moisturisation, Elasticity, Colour, Oil Production, Desquamation
- 1.5. Topical Treatments (General)
  - 1.5.1. Global Assessment of Treatment Tools
  - 1.5.2. Managing Loss of Volume. Problems and Solutions
  - 1.5.3. Managing Flaccidity and Loss of Volume. Surgical and Non-Surgical Problems and Solutions
  - 1.5.4. Managing Dyschromia and Texture Problems and Solutions
  - 1.5.5. Managing Dynamic Wrinkles
- 1.6. Diagnostic Imaging: Introduction to Ultrasound Skin Imaging
  - 1.6.1. Basic Principles of Ultrasound
    - 1.6.1.1. Structure Recognition
    - 1.6.1.2. Artefacts
  - 1.6.2. Dermis and Epidermis
  - 1.6.3. Subcutaneous Tissue. Vessels and Other Structures
  - 1.6.4. Facial Anatomical Structures
    - 1.6.4.1. Ultrasound of the Periocular Area
    - 1.6.4.2. Ultrasound of the Nasal Region
    - 1.6.4.3. Ultrasound of the Lips
    - 1.6.4.4. Scalp Ultrasound
  - 1.6.5. Skin Aging Identification of Solar Elastosis
- 1.7. Psychological Assessment of the Patient in Aesthetic Medicine
  - 1.7.1. Psychological Disorders Related to Body Image
  - 1.7.2. Psychological Approach to the Patient in Aesthetic Medicine
  - 1.7.3. Therapeutic Approach
- 1.8. Preventing Infection When Practising Aesthetic Medicine
  - 1.8.1. Use of Antiseptics in Aesthetic Medicine Clinics
  - 1.8.2. Hand Hygiene
  - 1.8.3. Use of Disinfectants in Aesthetic Medicine Clinics
  - 1.8.4. Sanitary Waste Management
- 1.9. Legal Aspects in Aesthetic Medicine
  - 1.9.1. Civil and Criminal Medical Liability
  - 1.9.2. Liability Insurance
  - 1.9.3. Regulations for Opening a Health Care Center
  - 1.9.4. Informed Consent in the Practice of Aesthetic Medicine
    - 1.9.4.1. Preparation Guidelines
    - 1.9.4.2. Generic Models
- 1.10. Quality Management in the Practice of Aesthetic Medicine
  - 1.10.1. Quality Improvement Cycle
  - 1.10.2. What is a Quality Management System?
  - 1.10.3. ISO 9001:2015 Quality Management System. How to Accredite an Aesthetic Medicine Clinic



## Module 2. Peelings. Dermocosmetics

- 2.1. General aspects
  - 2.1.1. History Definition
  - 2.1.2. Skin Structure
  - 2.1.3. Types of Peeling and Common Indications and Other Indications
  - 2.1.3. Patient Selection: The Importance of the Medical History
  - 2.1.4. Correct Diagnosis: Wood's Light and Dermatoscope
  - 2.1.5. Informed Consent Form
- 2.2. Advance Preparation
  - 2.2.1. Skin Preparation: General Skin Care and Home Treatment
  - 2.2.2. Antiherpetic Prophylaxis
  - 2.2.3. Preanesthetic Assessment Indications
- 2.3. Superficial Peeling
  - 2.3.1. Types of Very Superficial and Superficial Peels
  - 2.3.2. Mechanism of Action
  - 2.3.3. Indications for Superficial Peeling
  - 2.3.4. Contraindications
  - 2.3.5. Procedure
- 2.4. Medium Peeling
  - 2.4.1. Types of Medium Peeling
  - 2.4.2. Mechanism of Action
  - 2.4.3. Indications for Medium Peeling
  - 2.4.4. Contraindications
  - 2.4.5. Procedure
- 2.5. Deep Peeling
  - 2.5.1. Introduction to Deep Peeling
  - 2.5.2. Deep Peeling Patient Selection
  - 2.5.3. Deep Phenol Peeling
  - 2.5.4. Outpatient Phenol Peeling
  - 2.5.5. Procedure

- 2.6. Post-Peel Care. Adverse Effects and their Treatment
  - 2.6.1. General Recommendations and Specific Post Peeling Care
  - 2.6.2. Adverse Effects and their Treatment
- 2.7. Introduction to Dermocosmetics
  - 2.7.1. Skin Types
  - 2.7.2. What are Cosmetics?
  - 2.7.3. Ingredients in a Cosmetic Product
  - 2.7.4. Cosmetic Forms
  - 2.7.5. Mechanisms of Absorption of Cosmetics
- 2.8. General Cosmetic Skin Care
  - 2.8.1. Hygiene
  - 2.8.2. Hydration
  - 2.8.3. Depigmenting agents
  - 2.8.4. Photoprotection
- 2.9. Specific Cosmetic Care
  - 2.9.1. Aging
  - 2.9.2. Acne
  - 2.9.3. Other Alterations: Rosacea
- 2.10. Magistral Formulation in Cosmetics

### Module 3. Applications of Botulinum Toxin in Dermatology and Aesthetic, Regenerative and Anti-Aging Medicine. Regenerative Medicine for Aesthetic Purposes

- 3.1. Types of Botulinum Toxin
  - 3.1.1. What is Botulinum Toxin
  - 3.1.2. Characteristics and Types of Botulinum Toxin
  - 3.1.3. Mechanism of Action
- 3.2. Botulinum Toxins Authorized for Aesthetic Use
  - 3.2.1. Trade Names of Botulinum Toxins Type A
  - 3.2.2. Toxins Authorized for Aesthetic Use
  - 3.2.3. Toxins Authorized for Other Conditions. Botulinum Toxin Type B
  - 3.2.4. Toxin Reconstitution. Conservation
  - 3.2.5. Injection Technique
  - 3.2.6. Post-Treatment Recommendations





- 3.3. Indications for Treatment of Expression Wrinkles
  - 3.3.1. General Principles
  - 3.3.2. Treatment Indications
  - 3.3.3. Indications for Treatment in the Upper Third: Forehead Wrinkles, Glabella, Periocular, Eyebrows, Suborbital Region and Nose.
  - 3.3.4. Indications for Treatment of Vertical Wrinkles on the Upper Lip, Corners of the Mouth, Chin, and Neck
- 3.4. Treatment of the Upper Third. Anatomy of Facial Marks
  - 3.4.1. Frontal Muscles. Treating Horizontal Wrinkles on the Forehead.
  - 3.4.2. Glabellar Muscles. Treatment of Frown Lines and Vertical Forehead Wrinkles
  - 3.4.3. Periorbital Region Muscles. Crow's Feet Treatment
  - 3.4.4. Eyebrow Muscles. Eyebrow Lifting. Lateral Brow Lift.
  - 3.4.5. Infraorbital and Nasal Muscles. Treatment of Lower Eyelid Wrinkles. Nasal Wrinkles
- 3.5. Treatment of the Middle and Lower Third. Neck. Anatomy of Facial Marks
  - 3.5.1. Perioral Muscles. Treatment of Vertical Upper Lip Wrinkles
  - 3.5.2. Perioral Muscles. Marionette Lines. Lifting of the Corner of the Mouth
  - 3.5.3. Chin Muscles. Treatment of Chin Wrinkles
  - 3.5.4. Masseter Muscles. Treatment of Masseter Hypertrophy
  - 3.5.5. Neck Muscles. Treatment of Platysma
- 3.6. Treatment of Hyperhidrosis with Botulinum Toxin
  - 3.6.1. Types of Hyperhidrosis: Axillary and Palmar
  - 3.6.2. Technique of Botulinum Toxin Infiltration in Hyperhidrosis
  - 3.6.3. Truncal Anesthesia in Palmar Hyperhidrosis
  - 3.6.4. Results and Duration
- 3.7. Complications from Botulinum Toxin Application
  - 3.7.1. General aspects
  - 3.7.2. Complications according to Injection Site.
  - 3.7.3. Clinical Safety Record
  - 3.7.4. Immunogenicity
- 3.8. Introduction to Regenerative Medicine
  - 3.8.1. Regenerative Medicine Concept
  - 3.8.2. Growth Factors

- 3.9. Applications of Regenerative Medicine in Dermatology and Aesthetics Other Medical Applications
  - 3.9.1. Application in Rejuvenation
  - 3.9.2. Other Conditions. Burns, Scars, Keloids and Stretch Marks
- 3.10. Practical Considerations and Injection Techniques
  - 3.10.1. Obtaining Growth Factors
  - 3.10.2. Skin Infiltration for Rejuvenation
  - 3.10.3. Other Aesthetic Applications

## Module 4. Facial Implants in Aesthetics

- 4.1. Introduction to Filler Materials
  - 4.1.1. The Concept of Filler Material
  - 4.1.2. Tissue Response to Filler Materials
  - 4.1.3. History of the Use of Filler Materials (Fillers) and Facial Supporting Threads
  - 4.1.4. Facial Exploration Aimed at the Use of Filler Materials. Risk Zones
- 4.2. Filler Materials
  - 4.2.1. Classification of Filler Materials
  - 4.2.2. Autologous Materials: Autologous Fat, Plasmigel
  - 4.2.3. Resorbable Filler Materials
  - 4.2.4. Hyaluronic Acid
  - 4.2.5. Calcium Hydroxyapatite
  - 4.2.6. Collagen
  - 4.2.7. Polyactic Acid
  - 4.2.8. Carboxymethyl Cellulose
- 4.3. Non-Resorbable or Permanent Filler Materials
  - 4.3.1. Legal Status
  - 4.3.2. Polymethylmethacrylate Microspheres
  - 4.3.3. Silicone
  - 4.3.4. Polyalkylimide or Alkylimide Hydrogel
  - 4.3.5. Polyacrylamide Hydrogel
  - 4.3.6. Iatrogenic Allogeneisis

- 4.4. Indications for the Use of Filler Materials
  - 4.4.1. Facial Diagnosis. Objective to Treat
  - 4.4.2. Injection Technique
  - 4.4.3. Approach to Treatment of the Upper Third
  - 4.4.4. Approach to Treatment of the Middle Third
  - 4.4.5. Approach to Treatment of the Lower Third
  - 4.4.6. Skin Revitalization Techniques
  - 4.4.7. Alert Areas
- 4.5. Rhino-Modeling
  - 4.5.1. Indications and Contraindications for Rhinomodeling
  - 4.5.2. Specific Anatomy. Nasal Proportions
  - 4.5.3. Materials Used for Rhino-Modeling
  - 4.5.4. Rhino-Modeling Technique
  - 4.5.5. Secondary Rhino-Modeling
  - 4.5.6. Complications and adverse effects
- 4.6. Lip Implants
  - 4.6.1. Anatomy and Proportions of the Lips
  - 4.6.2. Materials Used for the Lips
  - 4.6.3. Features of Male and Female Lips
  - 4.6.4. Lip Contouring
  - 4.6.5. Lip Volume Enhancement
  - 4.6.6. Rejuvenation of Lips and Peribuccal Area
  - 4.6.7. Lip Moisturizing Technique
  - 4.6.8. Complications and adverse effects
- 4.7. Identifying Filler Materials Using Ultrasound
  - 4.7.1. Resorbable Fillers
  - 4.7.2. Semi-Permanent Fillers
  - 4.7.3. Permanent Fillers
  - 4.7.4. Ultrasound in the Management of Complications of Filler Substances





- 4.8. Facial Support Threads
  - 4.8.1. Sutures Features and Mechanism of Action
  - 4.8.2. Indications
  - 4.8.3. Insertion Plan and Insertion Patterns
  - 4.8.4. Insertion Procedure
  - 4.8.5. Types of PDO Threads
  - 4.8.6. APTOS Threads
  - 4.8.7. Coned Threads, Double Needle
  - 4.8.8. Treatment Plan
  - 4.8.9. Approach to Complications and AE
  - 4.8.10. Combination with Other Tightening Treatments
- 4.9. Adverse Effects and Complications of Filler Materials
  - 4.9.1. Early General Complications, Prevention, and Treatment
  - 4.9.2. Late General Complications, Prevention, and Treatment
  - 4.9.3. Complications Associated with Hyaluronic Acid Injections
  - 4.9.4. Complications Associated with Calcium Hydroxyapatite Injections
  - 4.9.5. Complications Associated with Deep Sutures and PDO Threads
  - 4.9.6. Complications Associated with the Use of Permanent Materials
  - 4.9.7. Hyaluronidase
- 4.10. Suture and Implant Approach to the Male Patient
  - 4.10.1. Aging Process in Male Patients
  - 4.10.2. General Considerations for Filler Treatment in Male Patients
  - 4.10.3. Volume Restoration in the Middle Third
  - 4.10.4. Volume Restoration in the Lower Third
  - 4.10.5. Facial Masculinization



*This will provide key training  
to advance your career"*

05

# Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

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***.



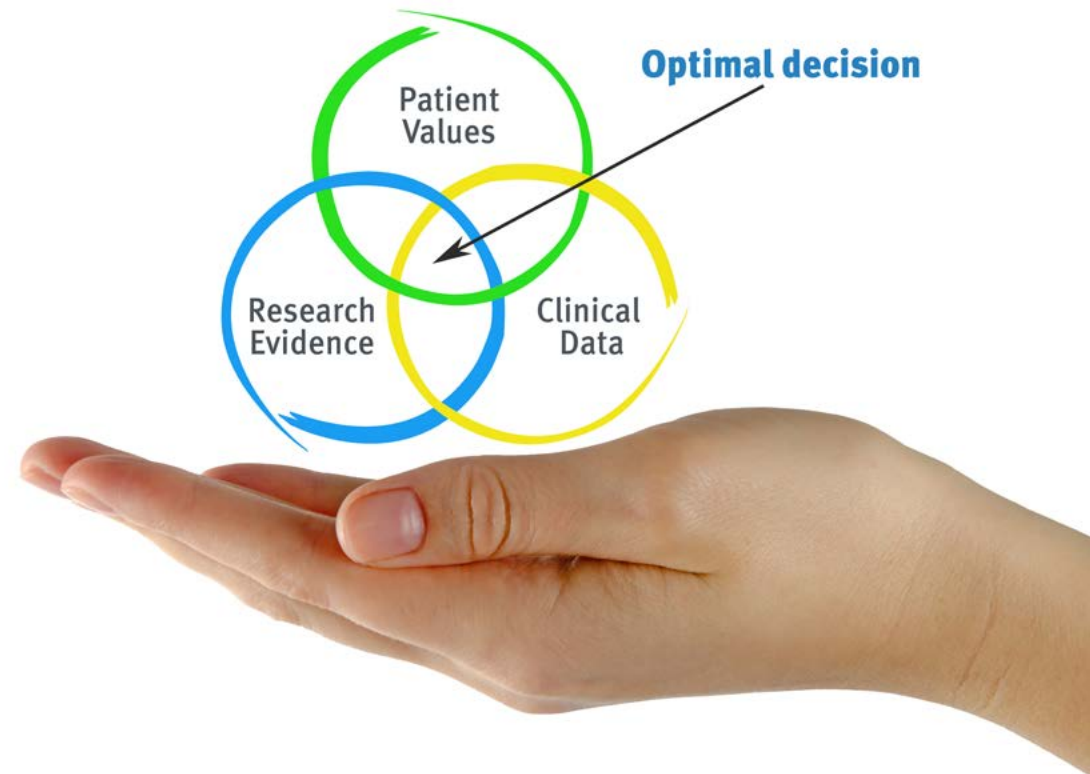
“

*Discover Re-learning, 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

What should a professional do in a given situation? 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 abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you can 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 physician's professional practice.

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*Did you know that this method was developed in 1912 for Harvard 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. Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying 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.



## Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

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 simple study and analysis of cases.



*Professionals will learn through real cases and by resolving 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

Over 250,000 physicians have been trained using this methodology, with unprecedented success in all clinical specialties regardless of surgical load. This teaching methodology is developed in a highly demanding environment, with a university student body of high socio-economic profile and an average age of 43.5 years.

*Re-learning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current 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 multimedia content presentation training Exclusive system 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 & Re-testing**

The student's knowledge is periodically assessed and re-assessed throughout the program, through evaluative and self-evaluative activities and exercises: in this way, students can check how they are doing in terms of achieving their goals.



**Classes**

There is scientific evidence on the usefulness of learning by observing experts: The system termed Learning from an Expert strengthens knowledge and recall capacity, and generates confidence in the face of difficult decisions in the future.



**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 Dermoaesthetic and Facial Medicine guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Diploma qualification issued by TECH Technological University.





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*Successfully complete this training and receive your Postgraduate Diploma without travel or laborious paperwork”*

This **Postgraduate Diploma in Dermoaesthetic and Facial Medicine** includes the most complete and up to date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the **Postgraduate Certificate**, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Dermoaesthetic and Facial Medicine**

Official Number of Hours: **600**



\*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.

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 Dermoaesthetic and Facial Medicine

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

## Dermoaesthetic and Facial Medicine

