

# Postgraduate Diploma

Hair Transplantation: Consultation  
and Surgery. Cosmetic and  
Medical Treatments



## Postgraduate Diploma Hair Transplantation: Consultation and Surgery. Cosmetic and Medical Treatments

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-hair-transplantation-consultation-surgery-cosmetic-medical-treatments](http://www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-hair-transplantation-consultation-surgery-cosmetic-medical-treatments)

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# 01

# Introduction

This program will provide you with the necessary guidelines to establish the necessary medical knowledge base, from the first visit of the patient to perform a trichological study, to the concepts of visagism applied to hair aesthetics and the most common problems in a hair micrografting intervention. A high-level educational tool created by and for the best professionals in the sector.







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*The best program on the current academic market to implement in your clinical practice the most effective and innovative alternative treatments in hair dermatology based on natural products”*

Trichology has taken on special relevance in recent years, not only because of the increase in demand related to hair transplant treatments and the clinical management of various diseases affecting the scalp, but also because of the increasingly effective and promising results that have been obtained over time. In the vast majority of cases, patients come to the specialist's office because of the negative aesthetic impact they believe they are causing, which is why their self-esteem and, therefore, their psychosocial development are significantly diminished.

For this reason, up-to-date knowledge of the diagnostic and therapeutic guidelines related to this area of dermatology must be one of the priorities for the professional. Based on this, and in order to facilitate your update, TECH has developed the Postgraduate Diploma in Hair Transplantation: Consultation and Surgery. Cosmetic and Medical Treatments, a complete program that contemplates the most exhaustive and innovative information in 450 hours of 100% online academic program. Thanks to this program, the graduate will be able to perfect their skills in medical-surgical assistance, implementing in their practice the therapeutic strategies that have had the best results to date, including the best chemical and natural drugs for the different pathologies.

In addition, the professional will have the support of a teaching team of the highest level, which, in addition to being at their disposal to resolve any doubts that may arise during the course of the program, has actively participated in the design of the program content. It includes, in addition to a comprehensive and up-to-date syllabus, clinical cases based on real situations and additional multidisciplinary material to learn in a personalized way in the different sections. Thus, you will have an academic program that adapts to your needs.

This **Postgraduate Diploma in Hair Transplantation: Consultation and Surgery. Cosmetic and Medical Treatments** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practical cases presented by experts in Dermatology and Hair Transplantation
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ 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



*You will work with the most complete and up-to-date information related to examination methods in the diagnostic medical office"*

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*Would you like to get up to date on hair grafting tools for extraction? This program includes a detailed catalog of the most innovative ones, with their characteristics, advantages, recommendations, etc”*

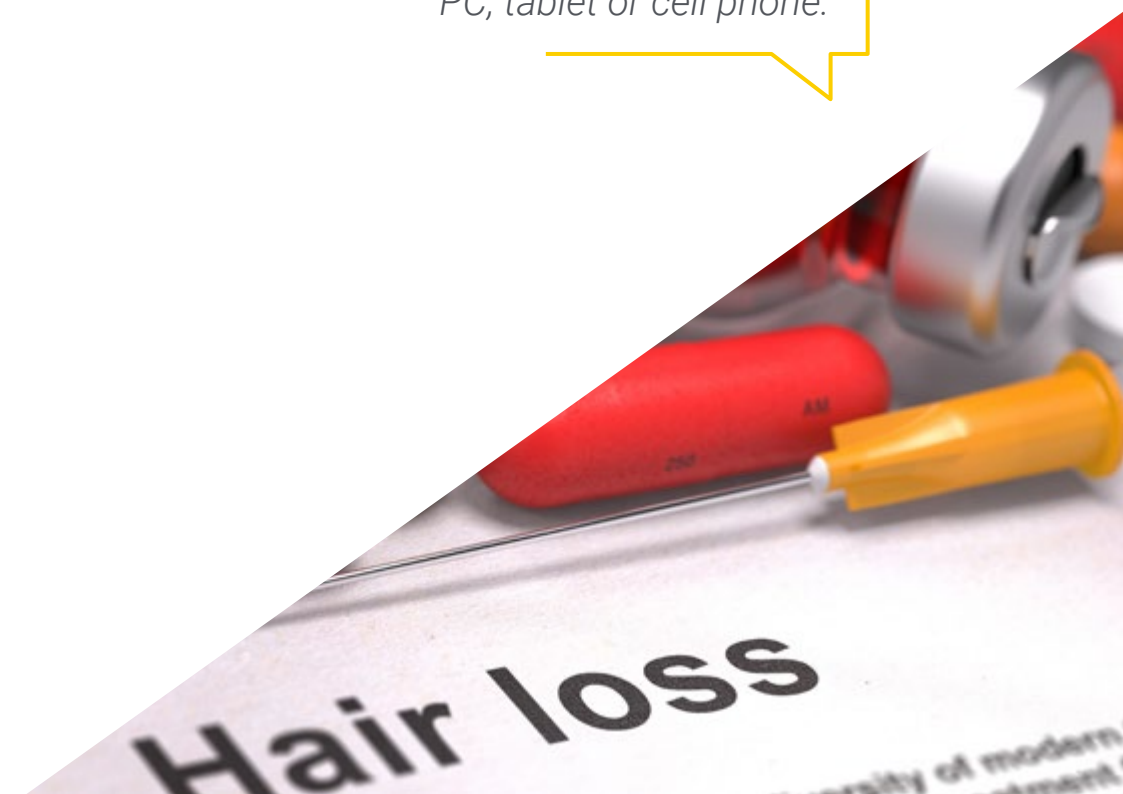
The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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 immersive education programmed to learn in real situations.

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

*A program thanks to which you will be able to improve your practice in relation to the pre-surgical management of the patient before hair transplantation.*

*You will have unlimited access to a state-of-the-art Virtual Campus which you can access from any device with an internet connection, whether it is a PC, tablet or cell phone.*



**Hair loss**

University of modern  
treatment

# 02 Objectives

The objective of this program is none other than to provide the graduate with the latest and most exhaustive information related to Hair Dermatology, specifically with the most effective cosmetic and medical treatments currently available. In this way, you will be able not only to update your knowledge, but also to improve your professional skills, implementing in your clinical practice the most innovative diagnostic and therapeutic strategies known, according to the characteristics of the patient.







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*The program includes a specific section dedicated to local anesthetics, so that you can update your knowledge in the treatment of loco-regional blocks at facial and peripheral level”*



## General objectives

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- Develop a broad and up-to-date knowledge on Hair Dermatology in the current medical context
- Provide the graduate with the latest information related to chemical and natural pharmacological treatments for the treatment of different hair disorders



*The program includes a specific section dedicated to local anesthetics, so that you can update your knowledge in the treatment of loco-regional blocks at facial and peripheral level"*





## Specific objectives

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### Module 1. Physician Attendance/Consultation and Surgery

- ♦ Establish the necessary medical knowledge foundation, from the patient's first visit for a trichological study, to visagism concepts applied to hair aesthetics, and solve the most common problems that may arise in a hair micrografting intervention
- ♦ Establish the guidelines to be followed in the first medical consultation or diagnostic consultation and in the following consultations, mainly in the consultation prior to surgery, with emphasis on medical documentation and consents
- ♦ Study of the different devices for hair transplantation
- ♦ Review the team collaborating with the surgeon, the nursing team and the hair technicians, describing their roles throughout the hair process
- ♦ Learn the post-surgical treatments for optimal results and the different post-surgical complications and their solutions
- ♦ Review the different local anesthetics, their pharmacokinetic characteristics and maximum dose, and the different loco-regional blocks at facial and peripheral level will also be discussed
- ♦ Address how to solve emergencies that may arise in daily practice in Capillary Medicine consultation, as well as during surgery, and how to act in each case and the different corrective treatments

### Module 2. Cosmetic Treatments/Hair Cosmetics

- ♦ Address the main medical-aesthetic treatments that exist today, as well as different techniques and/or treatments in constant progress, such as hair mesotherapy, low-power laser treatment, PRP and stem cell treatments, hair cosmetology and oral supplementation
- ♦ Learn alternatives to surgical intervention when surgery becomes impossible or not recommended with techniques such as micropigmentation and hair replacement systems or hair prostheses

### Module 3. Medical/Pharmacological Treatments and Research in Trichology and New Treatment Alternatives

- ♦ Review the most common pharmacological treatments (minoxidil, finasteride, dutasteride,), treatments for alopecia Areata with dexamethasone minipulse therapy and anti-JAK drugs, treatment with antiandrogens for frontal fibrosing alopecia, treatment with estrogens
- ♦ Review new treatments or alternative treatments such as platelet rich plasma with its indications and current legislation, low frequency laser or LLLT
- ♦ Show the most up-to-date lines of research and development to solve unsolved problems and the advances in cloning and pharmacology to solve patients' hair-related problems

# 03

# Course Management

Both the management and the teaching team of this program will be in charge of a group of professionals of the highest level in the field of Hair Dermatology. It is a team well versed in the clinical management of various pathologies, from the most common to the strangest, also characterized by the high percentage of success that defines its medical practice throughout its extensive and long career. The purpose of having their support is precisely to share with the graduates their success strategies, as well as the keys to address the different diseases based on the most effective and cutting-edge guidelines.





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*The teaching team has selected clinical cases from their own practices so that you can put into practice and perfect your skills in a simulated way”*

## Management



### Dr. Pérez Castaño, Cristina Gema

- ♦ Specialist in Hair Transplant in clinics such as MC360, MAN MEDICAL INSTITUTE
- ♦ Head of the Hair Transplant Unit at the EIVIESTETIC clinic in Ibiza
- ♦ PhD in organ transplantation with asystole donors through a Mutua Madrileña Scholarship, specialized training in medical pathology, infectious diseases, organ transplantation and emergency units worldwide
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Specialist via MIR in Intensive Care Medicine at the Doce de Octubre Hospital in Madrid
- ♦ Master's Degree in Outpatient Emergency Medicine

## Professors

### Mr. Santos Gil, Antonio

- ♦ Second Degree Specialist in Hairdressing and Aesthetics with dedication to hair diagnosis and various hair treatments
- ♦ Characterization specialist in Opera and Theater
- ♦ Trainer in the field of hairpieces with special dedication in the circle of oncology patients with the firm Capel-Io by Aderans
- ♦ Hair treatment trainer at TICAP Clinics and specialist in Visagism and trichological diagnosis at MC360 Clinics

### Dr. Alique Garcia, Sergio

- ♦ Area specialist dermatologist at Virgen de La Luz Hospital
- ♦ Specialist in Medical-Surgical Dermatology and Venereology
- ♦ Degree in Medicine and Surgery from the University of Castilla La Mancha
- ♦ Master's Degree in Aesthetics and Anti-Aging Medicine at the Distance Learning University of Madrid
- ♦ Master's Degree in Trichology and Hair Micrografting, Distance Learning University of Madrid
- ♦ Expert in Aesthetic Dermatology, Trichology and Dermatological Surgery



**Dr. Jurado Arévalo, Alberto**

- ◆ Medical Director in ADVAN-HAIR Advanced Hair Institute
- ◆ Physician in the Mobile ICU Critical Patient Transfer Unit in Los Angeles Healthcare System
- ◆ Primary Care Physician and Critical Care and Emergency Department in the Andalusian Health Service
- ◆ Degree in Medicine from the Autonomous University of Barcelona
- ◆ Master's Degree in Aesthetic Medicine in the International Center of Postgraduate Studies in Cordoba
- ◆ Master's Degree in Trichology and Hair Transplantation in the International Center of Postgraduate Studies in Cordoba

04

# Structure and Content

The 450 hours of content included in this Postgraduate Diploma have been designed by the teaching team based on two fundamental pillars: the most exhaustive and innovative information related to cosmetic and medical treatments in Hair Dermatology and the innovative Relearning methodology. Thanks to this, it has been possible to develop a dynamic, complete and avant-garde program, which will make it easier for the graduate to keep up to date. In addition, its convenient online format will allow you to access your course from wherever and whenever you want, being able to combine it perfectly with the activity of your practice.

ORE

A close-up photograph showing a hand holding a hairbrush over a person's hair. The hair is light brown and appears to be in the process of being styled or treated. The background is white, and there are some geometric shapes and lines overlaid on the image, including a blue triangle in the bottom left corner and a dashed line near the bottom right.





AFTER

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*The program includes dozens of hours of in-depth videos, research articles, supplemental readings, self-awareness exercises, dynamic summaries and much more additional material!”*

## Module 1. Medical Care/Consultation and Surgery

- 1.1. Diagnostic Medical Consultation
  - 1.1.1. Exploration Methods
    - 1.1.1.1. Visual
    - 1.1.1.2. Optical Microscope
    - 1.1.1.3. Digital Microcameras
    - 1.1.1.4. Micrometer
    - 1.1.1.5. Wood Light
    - 1.1.1.6. Traction Tweezers
    - 1.1.1.7. Cigarette Paper
  - 1.1.2. Performing a Trichogram
  - 1.1.3. Dermographic Study
  - 1.1.4. Traction Test
  - 1.1.5. Wood Light
  - 1.1.6. Biopsy (If Required)
  - 1.1.7. Specific Blood Test
  - 1.1.8. Photography
- 1.2. Pre-Surgical Medical Consultation
  - 1.2.1. Medical History of Interest
  - 1.2.2. Photography
  - 1.2.3. Medical Consent
  - 1.2.4. Patient Expectations
  - 1.2.5. Surgical Plan
  - 1.2.6. Pre-Op Instructions
  - 1.2.7. Confirmation of Surgical Suitability
  - 1.2.8. Post-Op Instructions
  - 1.2.9. Surgical Alternatives and Other Treatments
- 1.3. Hair Transplant Devices
  - 1.3.1. Hair Grafting Tools for Extraction
    - 1.3.1.1. Punch or Circular Scalpel
    - 1.3.1.2. SAFE Systems
    - 1.3.1.3. RotoCore
    - 1.3.1.4. NeoGraft® Automated FUE and Implantation System





- 1.3.2. Hair Grafting Tools for Implantation
  - 1.3.2.1. Implanter
    - 1.3.2.1.1. Advantages
    - 1.3.2.1.2. Disadvantages
  - 1.3.2.2. Making Incisions
    - 1.3.2.2.1. Advantages
    - 1.3.2.2.2. Disadvantages
- 1.3.3. Instruments for Making Incisions:
  - 1.3.3.1. Sharp Points
  - 1.3.3.2. Needles
  - 1.3.3.3. Mini Blades
- 1.3.4. Main Developments
  - 1.3.4.1. Extractor Machine with 0.7 mm Punch
  - 1.3.4.2. Special Blades for Cutting and Trimming Follicular Units with the Strip
  - 1.3.4.3. High-Resolution Microscope
  - 1.3.4.4. 3-5x Magnifiers
  - 1.3.4.5. 0.8-1.3 Angled Blades
  - 1.3.4.6. 0.8mm and 1mm Implanters
- 1.3.5. Automated Extraction Systems - Hair Implantation
  - 1.3.5.1. Automatic: Extraction
  - 1.3.5.2. Semi-Automatic: Extraction and Implantation
- 1.4. Aesthetic Eyebrow Procedures
  - 1.4.1. Indications
  - 1.4.2. Diagnosis
  - 1.4.3. Etiology Treatment
  - 1.4.4. Most Common Procedures
    - 1.4.4.1. Recreating the Eyebrow Curve
    - 1.4.4.2. Hair Density Recovery
    - 1.4.4.3. Correcting Drooping Eyebrows
  - 1.4.5. Postoperative Care

- 1.4.6. Anesthesia in Capillary Surgery
  - 1.4.6.1. Pre-Operative Study
  - 1.4.6.2. EKG and Chest X-Ray
  - 1.4.6.3. Pre-Medication
  - 1.4.6.4. Oral Sedation Model
    - 1.4.6.4.1. Stomach Protector
    - 1.4.6.4.2. Oral Antiemetic
    - 1.4.6.4.3. Oral Dormicum 7.5mg 1 Hour before Surgery
- 1.5. Intravenous Options
  - 1.5.1. Venous Route
  - 1.5.2. Antiemetics
  - 1.5.3. Administer Dormicum (2mg) and Fentanest (50 mg)
  - 1.5.4. Portable Pulse Oximetry without the Need for Cardiac Monitoring
  - 1.5.5. Annexate and Naloxone Availability
- 1.6. Types of Anesthetics
  - 1.6.1. Ester Type: Tetracaine, Chlorprocaine, Benzocaine, and Procaine
  - 1.6.2. Amide Type: Lidocaine, Mepivacaine, Prilocaine, Bupivacaine, Ropivacaine, and Etidocaine
- 1.7. Factors Influencing its Action
  - 1.7.1. Its Anesthetic Potency is Related to Liposolubility in a Directly Proportional Way
  - 1.7.2. Vasodilation Capability
  - 1.7.3. Plasma Protein Binding
  - 1.7.4. Addition of a Vasoconstrictor, such as Adrenaline or Phenylephrine, Increases the Effect
  - 1.7.5. Adrenaline Dosage Should Not Exceed 250mg in Adults
  - 1.7.6. Alkalinization Improves Diffusion and Promotes Latency
  - 1.7.7. Solution Heating Improves Blocking
  - 1.7.8. Complications
    - 1.7.8.1. Local Anesthesia Allergy
    - 1.7.8.2. Local Anesthesia Toxicity

- 1.8. Non-Medical Team
  - 1.8.1. Nursing
    - 1.8.1.1. Functions
      - 1.8.1.1.1. Assisting the Physician in Surgery
      - 1.8.1.1.2. Extracting Follicular Units
      - 1.8.1.1.3. Graft Trimming and Cleaning
      - 1.8.1.1.4. Implanting Micrografts
  - 1.8.2. Capillary Technician
    - 1.8.2.1. Functions
      - 1.8.2.1.1. Assisting the Nurse
      - 1.8.2.1.2. Preparing the Room
      - 1.8.2.1.3. Graft Trimming and Cleaning
      - 1.8.2.1.4. Implanting Micrografts
      - 1.8.2.1.5. Sterilization and Cleaning of the Room and Equipment
- 1.9. Complications/Emergencies in Surgery
- 1.10. Post-Surgery Treatment
  - 1.10.1. Post-Operative Medication
  - 1.10.2. Keep the Graft Site Clean and Hydrated
  - 1.10.3. Sleep in a Half-Seated Position (10°/15°)
  - 1.10.4. Avoid Sun Exposure
  - 1.10.5. Minimal Physical Exercise
  - 1.10.6. Apply Cold to the Face

## Module 2. Cosmetic Treatments/Hair Cosmetics

- 2.1. Hair Cosmetics Definition. Concept. Materials Used
- 2.2. Hair Prosthesis. Definition. Differences between Male and Female
  - 2.2.1. Manufacturing Materials
    - 2.2.1.1. From the Outside of the Prosthesis: Different Types of Human Hair. Synthetic Hair
    - 2.2.1.2. From the Inside of the Prosthesis: Tulle, Gauze, Mesh, Plasticized



- 2.2.2. Manufacturing Techniques
  - 2.2.2.1. Choppy Hair
  - 2.2.2.2. Woven Hair
- 2.2.3. Fastening Materials
  - 2.2.3.1. Self-Adhesives
  - 2.2.3.2. Glues or Adhesives
  - 2.2.3.3. Stitched
- 2.2.4. Importance of Hair Prosthesis Maintenance
- 2.3. Micropigmentation
  - 2.3.1. Micropigmentation Techniques
    - 2.3.1.1. Capillary
    - 2.3.1.2. Eyebrows
    - 2.3.1.3. Beard
  - 2.3.2. Aspects to Consider when Applying Hair Micropigmentation
  - 2.3.3. Products Used in Hair Micropigmentation
  - 2.3.4. Equipment Used in Hair Micropigmentation
  - 2.3.5. Micropigmentation Preservation
- 2.4. Hair Fibers
  - 2.4.1. Spray
  - 2.4.2. Powder
- 2.5. Definition of Cosmetic Treatments
  - 2.5.1. Limitations of Cosmetic Treatments
- 2.6. Cosmetic Penetration
  - 2.6.1. Penetration Routes
  - 2.6.2. Degrees of Penetration
  - 2.6.3. Penetration Factors
- 2.7. General Composition of Cosmetics Active Ingredients, Excipients, Coloring, Perfume, Preservatives, Correcting Agents
  - 2.7.1. Active ingredients
    - 2.7.1.1. Plant: Origin, Procurement, and Composition
    - 2.7.1.2. Animal: Origin, Procurement, and Composition
      - 2.7.1.2.1. Synthetic: Origin, Procurement, and Composition
      - 2.7.1.2.2. Others: Vitamins and Trace Elements
      - 2.7.1.2.3. Excipients
    - 2.7.1.2.4. Dyes
    - 2.7.1.2.5. Perfumes
    - 2.7.1.2.6. Preservatives
    - 2.7.1.2.7. Correctors
- 2.8. Cosmetic Used in Hair Treatments
  - 2.8.1. Dry Hair Cosmetics
  - 2.8.2. Oily and Seborrheic Cosmetics
  - 2.8.3. Pityriasis Cosmetics
  - 2.8.4. Alopecia Cosmetics
- 2.9. Cosmetic Forms of Hair Treatments
  - 2.9.1. Shampoos
  - 2.9.2. Lotions
  - 2.9.3. Peeling and Nourishing Masks
  - 2.9.4. Micronutrients
- 2.10. Appliances Used in Cosmetic Treatments
  - 2.10.1. Electrotherapy
  - 2.10.2. High Frequency
  - 2.10.3. Phototherapy
    - 2.10.3.1. Infrared
    - 2.10.3.2. Ultraviolet
    - 2.10.3.3. Cosmetic Laser
  - 2.10.4. Steamers
  - 2.10.5. Vibrators
- 2.11. Hair Massage
  - 2.11.1. Application Techniques
- 2.12. Treating Cancer Patients
  - 2.12.1. Oncology Patient Quality of Life and Aesthetic Hair Medicine. The Healing Power of Image
  - 2.12.2. Tests before Procedures in Oncology Patients
  - 2.12.3. Intervention of the Aesthetic Practitioner Before, During, and After Oncological Treatment
  - 2.12.4. Cancer Patient Micronutrition

### Module 3. Medical/Pharmacological Treatments and Research in Trichology and New Treatment Alternatives

- 3.1. Oral Minoxidil (Rogaine®) vs. Topical Minoxidil
  - 3.1.1. Antihypertensive
  - 3.1.2. Available in 2% and 5% Solutions
  - 3.1.3. Desired Effects: Vasodilation, Angiogenesis, and Enhanced Cell Proliferation
  - 3.1.4. Side Effects: Contact Dermatitis and Temporary Hair Loss during the First Four Months of Use
  - 3.1.5. Minoxidil 5% Foam Does Not Contain Propylene Glycol (potential irritant) and Lowers the Incidence of Pruritis
- 3.2. Oral Dutasteride (Avodart ®): Effectiveness and Safety
  - 3.2.1. Dihydrotestosterone Production Inhibitor for the Treatment of Benign Prostatic Hyperplasia (BPH)
  - 3.2.2. Dutasteride efficacy at 2.5 mg/day
  - 3.2.3. Side Effects
- 3.3. Finasteride (Propecia®): Most Common for Male Pattern Baldness
  - 3.3.1. A Reductase Inhibitor that Reduces the Conversion of Testosterone to Di-Hydrotestosterone or DHT Better than Finasteride
  - 3.3.2. More Effective Equal Safety for Men and Women
  - 3.3.3. Women: Avoid Pregnancy during Treatment and 3 Months After. It Is Not Officially Approved for Use in Women
    - 3.3.3.1. Combination with an Effective Oral Contraceptive
  - 3.3.4. Finasteride Safety vs. Dutasteride
  - 3.3.5. Dutasteride Microinjections
  - 3.3.6. Improved Hair Quantity and Thickness
  - 3.3.7. Progress Over Time: 3 Months to 1 Year
  - 3.3.8. Daily dose: 1mg
  - 3.3.9. Problems of a Sexual Nature
- 3.4. 2% Ketoconazole Topical Shampoo (Nizoral ®)
  - 3.4.1. Antifungal Agent
  - 3.4.2. Treatment for Dermatitis and Dandruff
  - 3.4.3. Action on Scalp Microflora
  - 3.4.4. Beneficial Effect on Androgenetic Alopecia Associated with Hair Follicle Inflammation
- 3.5. Dexamethasone Minipulse Therapy (alopecia areata): Risks vs. Continuous Corticosteroids
- 3.6. JAK Inhibitor Drugs (Alopecia Areata)
  - 3.6.1. Clinical Trials: Ruxolitinib or Tofacitinib (Extensive Alopecia Areata)
  - 3.6.2. Efficacy and Safety Results
- 3.7. Anti-Androgens (Frontal Fibrosing Alopecia): Finasteride and Oral Dutasteride in Females with Frontal Fibrosing Alopecia
  - 3.7.1. Loss of Eyebrows and Hair in the Frontal and Temporal Region ("Headband Area")
  - 3.7.2. Block the Binding of Androgen Receptor to Testosterone
  - 3.7.3. Cyproterone Acetate and Spironolactone
- 3.8. Prostaglandin Analogs
  - 3.8.1. Lipidic Substances Derived from 20-Carbon Fatty Acids (Eicosanoids)
  - 3.8.2. They Affect and Act on Different Systems of the Organism: Nervous System, Smooth Muscle, Blood and Reproductive System
  - 3.8.3. They Regulate Various Functions: Blood Pressure, Blood Coagulation, the Allergic Inflammatory Response and the Activity of the Digestive System
  - 3.8.4. Bimatoprost (Latisse®) is now available as a treatment for eyelash growth
  - 3.8.5. Latanoprost Increases Hair Density and May Increase Pigmentation
- 3.9. Estrogens
  - 3.9.1. Indirect Anti-Androgens
- 3.10. Capillary Cloning
  - 3.10.1. Future Therapies. Unlimited Follicles from Hair Stem Cells. Human Clinical Trials
  - 3.10.2. Two main approaches under investigation: direct injection of cultured cells or the use of factors that promote cell multiplication
  - 3.10.3. Cells are cultured and the culture supernatant is processed to produce a rich compound to promote hair growth



- 3.10.4. PRP: Biostimulation Techniques
  - 3.10.4.1. Increase the Number of Blood Vessels and Improve Circulation
  - 3.10.4.2. Promote the Production of Collagen
  - 3.10.4.3. Counteract the Negative Effect of Free Radicals and Prevent Cellular Aging
  - 3.10.4.4. In Spain and According to the Resolution of the Spanish Agency of Medicines and Health Products (AEMPS) of May 23, 2013, the Materials and Methods are Restricted to the Use of Closed Techniques
- 3.11. Hair Transplantation with Micrografts in Men and Women
  - 3.11.1. Robots Capable of Automated Extraction
- 3.12. Low Power Laser
  - 3.12.1. Different Wavelengths and Different Modes
  - 3.12.2. Low-Level Laser Intensive (LLLI) Laser Therapy
  - 3.12.3. Uses: Female Androgenetic Alopecia and/or MGA Male Androgenetic Alopecia. Treatments in Monotherapy or as Combined Therapies
  - 3.12.4. Penetrates the Surface of the Skin. Stimulates Blood Flow. Helps Nutrients, Blood, and Oxygen Reach Hair Follicles
  - 3.12.5. Hair Revitalization, Elimination of Toxins and Any Blockages Found Within the Follicle
- 3.13. Alternative Treatments
  - 3.13.1. Herbs, Vitamins, and Minerals
  - 3.13.2. Biotin, Caffeine, Melatonin, Copper Complexes
- 3.14. Considerations
  - 3.14.1. Minoxidil and Finasteride Must be Used Continuously for Results and Once Discontinued, the Natural Baldness Process Resumes
  - 3.14.2. PG Analogs Have a Much More Potent and Longer Lasting Effect, Although Not Permanent
  - 3.14.3. Prostaglandin F2 Alpha Analogs Latanoprost and Bimatoprost are Used in the Treatment of Ocular Hypertension and Glaucoma

05

# Methodology

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

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





“

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

## At TECH we use the Case Method

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 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 physician's professional practice.

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*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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of 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.

*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 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, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 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 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 on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

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





# 06 Certificate

This Postgraduate Diploma in Hair Transplantation: Consultation and Surgery. Cosmetic and Medical Treatments guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Diploma issued by TECH Global University.





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*Successfully complete this program  
and receive your university degree  
without travel or laborious paperwork”*

This program will allow you to obtain your **Postgraduate Diploma in Hair Transplantation: Consultation and Surgery. Cosmetic and Medical Treatments** endorsed by **TECH Global University**, the world's largest online university.

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

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

Title: **Postgraduate Diploma in Hair Transplantation: Consultation and Surgery. Cosmetic and Medical Treatments**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**



health future  
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**  
Hair Transplantation:  
Consultation and Surgery.  
Cosmetic and Medical  
Treatments

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

Hair Transplantation: Consultation  
and Surgery. Cosmetic and  
Medical Treatments

