

Postgraduate Certificate

Androgenetic Alopecia



Postgraduate Certificate Androgenetic Alopecia

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH - Technological University**

6 ECTS Credits

Teaching Hours: **150 hours.**

Website: www.techitute.com/medicine/postgraduate-certificate/androgenetic-alopecia

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01

Introduction

Androgenetic alopecia affects over 40% of the male population and also, although to a lesser extent, women. This is the most common form of alopecia. This high prevalence makes this course a training necessity for professionals in this field. Guaranteed by the security and solvency of the largest online university in the world.





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All aspects of androgenetic alopecia, in a course that will provide you with the latest advances and developments in this field of work.”

We will study the changes in the hair cycle in androgenetic alopecia, the genetic and hormonal factors involved in it, the role of androgens in this pathology, testosterone, dihydrotestosterone and 5-alpha-reductase as responsible for this type of alopecia.

Study the clinical characteristics.

Classification of androgenetic alopecia (Norwood-Hamilton).

Diagnostic study of AGA: clinical study with a miniaturized hair pattern, laboratory tests and genetic study, which is not often essential in men, although more significant in women.

We will deepen in making a differential diagnosis, with greater importance in women, generally supported by the following characteristics: focal pattern baldness with miniaturized hairs, gradual onset with progression, thinning, onset after puberty and negative traction test.

Finally, we will dedicate the topic to the treatment of this, considering cosmetic, dietetic, topical, local and systemic treatment as the pillars for the same: cosmetic, dietetic, topical, local and systemic. Furthermore, we will review specific treatment techniques such as hair mesotherapy and biological therapies with platelet-rich plasma and stem cells.

This **Postgraduate Certificate in Androgenetic Alopecia**. contains the most complete and up-to-date scientific program on the market today, with the following notable features:

- ♦ Practical cases presented by experts in hair surgery.
- ♦ The latest developments in Hair Surgery, with special and dedicated attention to the innovative methodologies.
- ♦ Practical exercises where the self-evaluation process can be carried out to improve learning.
- ♦ Graphic contents, diagrams, and practical cases that gather scientific and practical information on the disciplines that are essential for professional hair surgery practice.
- ♦ Theoretical lessons, questions to experts and/or tutors, discussion forums on controversial issues and individual reflection work throughout the Postgraduate Diploma..
- ♦ Content that is accessible from any fixed or portable device with an Internet connection.



This course in Androgenetic Alopecia will help you keep up to date in order to provide complete and quality care to patients." una atención completa y de calidad a los pacientes"

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A Postgraduate Certificate created with the demand for excellence of all TECH specializations, to boost your professional growth backed up by the most advanced training system on the online market".

The teaching staff includes professionals from the field of medicine, with extensive experience in hair transplantation, 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 immersive training programmed to train 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 professional will be assisted by an innovative interactive video system created by renowned and experienced experts in Hair Transplantation.

A multimedia program that will allow you to study in a simpler and more interactive way.

With learning strategies focused on practice, this training will give you the opportunity to learn in a real and immediate way.



02

Objectives

The objective of this training is to ensure that our students learn in a stimulating and attractive way, so that their interest in studying does not diminish during work time. In this way, we give real encouragement to achieving the learning objectives and with them, your professional growth.



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All the necessary knowledge to intervene in androgenetic alopecia with the assurance of the highest level of training”.



General Objectives

- ♦ Acquisition of knowledge, skills and abilities, both theoretical and practical, to be able to start working as a hair surgeon.
- ♦ Acquire diagnostic and treatment skills in cases of patients with alopecia and other hair and scalp problems, as well as to learn clinical-surgical skills, an essential foundation for the acquisition of deeper knowledge in this field.
- ♦ Learn the required clinical-surgical skills to solve patients' problems in Hair Transplantation and Hair Medicine





Specific Objectives

- ◆ Acquire a solid base to solve our patients' problems. It is the most common form of androgenetic alopecia in men and women.
- ◆ Study the changes in the hair cycle in androgenic alopecia, the genetic and hormonal factors involved in it, the role of androgens in this pathology, testosterone, dihydrotestosterone and 5-alpha-reductase as responsible for this type of alopecia.
- ◆ Study the clinical characteristics.
- ◆ Classification of androgenetic alopecia (Norwood-Hamilton).
- ◆ Study the diagnosis of AGA: clinical study with a miniaturized hair pattern, laboratory tests and genetic study.
- ◆ Perform a differential diagnosis, with greater importance in women, generally supported by the following characteristics: focal pattern baldness with miniaturized hairs, gradual onset with progression, thinning, onset after puberty, and negative traction test.
- ◆ Know cosmetic, dietary, topical, local, and systemic treatments.
- ◆ Review specific treatment techniques: hair mesotherapy and biological therapies with platelet-rich plasma and stem cells.

03

Course Management

This Postgraduate Certificate is the opportunity to learn from the best, with a teaching staff of professionals in the sector who will invest their theoretical and practical knowledge to take you to the highest level of training. With the latest and most effective teaching methods on the online teaching market.

air losses

Due to the...
effect...
the...
the...

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The most up-to-date developments in the field of hair transplantation, from leading experts in this type of procedure"

Management



Dr. Pérez Castaño, Cristina Gema

- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid in 2004. Specialist via MIR in Intensive Care Medicine at the Doce de Octubre Hospital in Madrid. Doctoral courses in the field of surgery and infectious diseases with outstanding results. 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. Homologation of the master's degree in out-of-hospital emergency medicine, accredited by the Laín Entralgo Agency of the Community of Madrid, Spain.
- ◆ Specialist in hair transplantation in clinics such as MC360, MAN MEDICAL INSTITUTE and head of the hair transplant unit at the EIVESTETIC clinic in Ibiza, collaborating in various hair transplant units in the diagnostic and surgical area and various medical-esthetic treatments.
- ◆ Along with the rest of the MAN MEDICAL INSTITUTE hair surgery medical team in 2019, she received the "Medical Team of the Year 2019" award for the hair surgery branch from the newspaper La Razón "Salud".

Professors

Dr. Ángel Navarro, Rosa María

- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid in 1984. Specialist in Allergy and Immuno-pathology from the University of Buenos Aires. Argentina. Four-year residency at the J.M. Ramos Mejía University Hospital. Specialist in Public Health from the University of Buenos Aires. Argentina. .
- ◆ Medical specialist in hair micrografting from the Distance Learning University of Madrid (UDIMA) with complementary training and extensive experience in both classroom and online teaching skills based on years of educational and healthcare experience.



The faculty in this training program will give you the most realistic and up-to-date view of the field; the contextual point of view you need to learn"

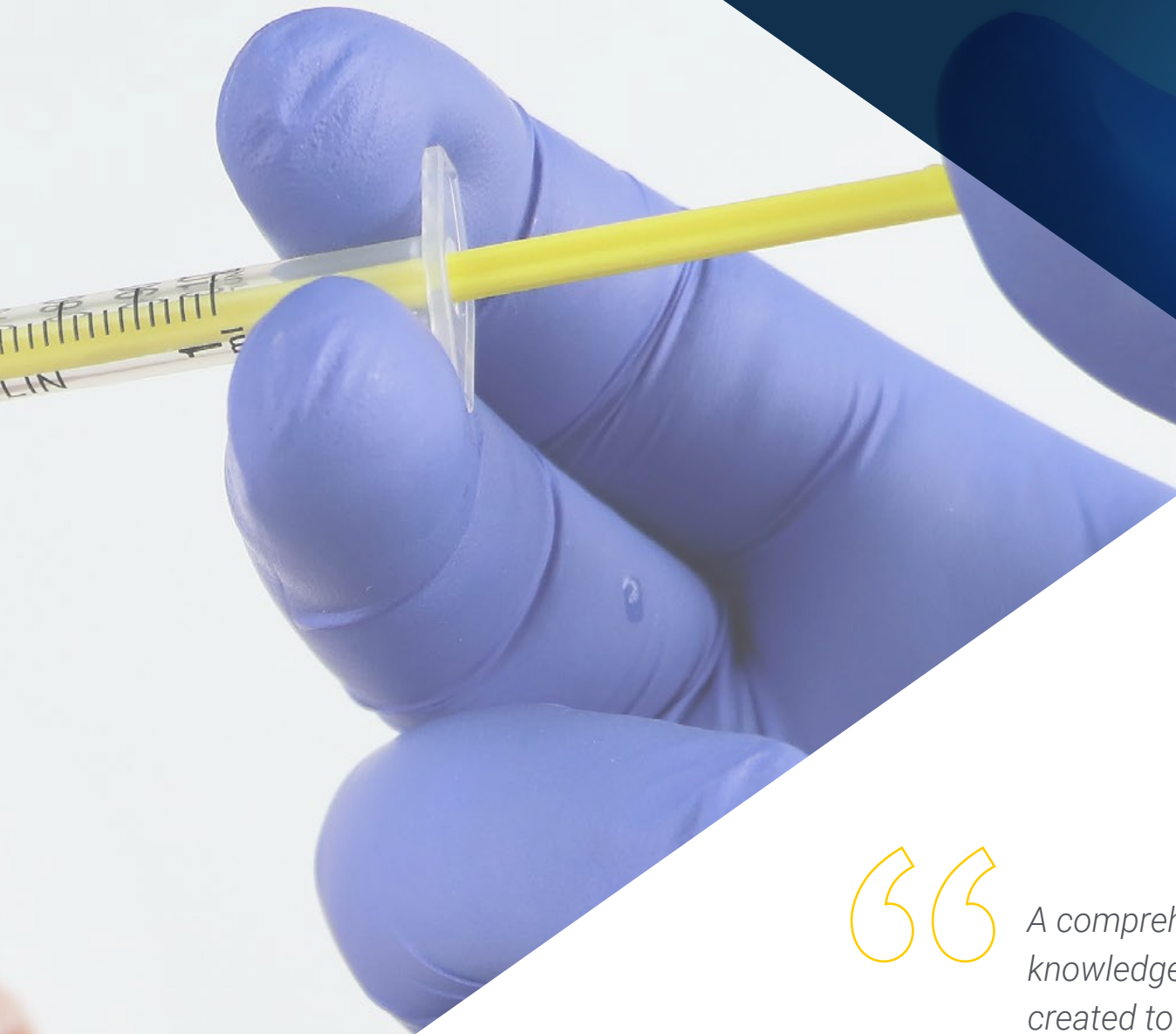


04

Structure and Content

The Postgraduate Certificate is structured as a comprehensive tour through each and every one of the concepts required to understand and work in this field. With an approach focused on practical application that will help you grow as a professional from the very beginning of your training.





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A comprehensive syllabus focused on acquiring knowledge and converting it into real skills, created to propel you to excellence”

Module 1. Androgenetic Alopecia

- 1.1. Features:
 - 1.1.1. Evolutionary Development
 - 1.1.2. Physiological or Non-Physiological
 - 1.1.3. Mediated by Two Factors: Genetic and Androgenic
- 1.2. Evolution:
 - 1.2.1. Hamilton for Boys
 - 1.2.2. Ludwig for Girls
- 1.3. Pathophysiology:
 - 1.3.1. Genetic Receptors of the Male Hormone
 - 1.3.2. An Enzyme the 5alpha-Reductase
 - 1.3.3. DHT
- 1.4. Men
- 1.5. Women
 - 1.5.1. Physiology
 - 1.5.2. Hormonal
 - 1.5.3. Genetics.
 - 1.5.4. Study of the Hypothalamic-Pituitary-Pituitary-Adrenal-Ovarian Axis.
- 1.6. Consequences
- 1.7. AGA Study: Inclusion in Therapeutic Algorithm
 - 1.7.1. Clinical History with Oriented Anamnesis
 - 1.7.2. Macro and Micro Exploration with Use of Dermatoscopes and Micro Cameras
 - 1.7.3. Taking Photographs
 - 1.7.4. Traction Test
 - 1.7.5. Trichogram:
 - 1.7.5.1. Optical Microscope: 20-50 Hairs
 - 1.7.5.2. Classification of Growth Phases: Anagen (85%), Catagen (1-2%) and Telogen (10-15%)
 - 1.7.5.3. Daily Hair Loss
 - 1.7.5.4. Features
 - 1.7.6. Wood Light
 - 1.7.7. Biopsy
 - 1.7.8. Targeted Analysis
 - 1.7.9. Diagnostic Approach
 - 1.7.9.1. Inclusion in Therapeutic Algorithm: Baldness Prevention.
 - 1.7.10. According to Resolution
 - 1.7.10.1. Easily Resolved: Seasonal or Cyclic, Androgenetic (MAGA and FAGA), Menopausal and Senile. Effluvium
 - 1.7.10.2. Potentially Resolvable: Pathogen-Mediated:
 - 1.7.10.2.1. Psychogenic due to Stress
 - 1.7.10.2.2. Traction and Trichotillomania
 - 1.7.10.2.3. Deficiency (Dietary, Anemic, Vitamin Deficiency)
 - 1.7.10.2.4. Chronic Effluvium
 - 1.7.10.2.5. Hormonal/Androgenic
 - 1.7.10.2.6. Thyrogenic
 - 1.7.10.2.7. Immunogenic
 - 1.7.10.2.8. Chemotherapy
 - 1.7.10.2.9. Collagenosis
 - 1.7.10.2.10. Areata
 - 1.7.10.2.11. Infectious (Bacterial, Mycotic, Syphilis)
 - 1.7.10.2.12. More Common in Women: Multi-Factorial
 - 1.7.10.3. Difficult to Resolve
 - 1.7.10.3.1. Congenital Cicatricial
 - 1.7.10.3.2. FFA
 - 1.7.10.3.3. Physical
 - 1.7.10.3.4. Infections
 - 1.7.10.3.5. Tumours
 - 1.7.10.3.6. Dermatosis (Lupus, Liquen, Psoriasis, etc)
- 1.8. Management
 - 1.8.1. COSMETIC
 - 1.8.1.1. Cleanliness and Hygiene = Adequate Shampoo
 - 1.8.1.2. Moisturizes, Nourishes and Repairs the Hair Shaft
 - 1.8.1.3. Powders, Dyes, Volumizing Sprays and Special Hairstyles
 - 1.8.1.4. Keratin Microfibers
 - 1.8.1.5. Extensions and Protheseses
 - 1.8.2. DIETARY: Balanced Diet

- 1.8.2.1. Aminoacids: L-Cysteine
- 1.8.2.2. Vitamins: B12, Biotin, Folic Acid, etc.
- 1.8.2.3. Trace Elements: Zinc, Fe, Se, etc.
- 1.8.3. TOPICAL
 - 1.8.3.1. Non-Specific
 - 1.8.3.1.1. Shampoos: Antimycotics, Antipsoriatics, Keratolytics, etc.
 - 1.8.3.1.2. Creams, Lotions, Gels, etc.
 - 1.8.3.1.3. Corticosteroids, Antibiotics, Seboregulators, etc.
 - 1.8.3.2. Specific
 - 1.8.3.2.1. Lotions or Foams
 - 1.8.3.2.2. Spironolactone 3%
 - 1.8.3.2.3. Canrenone 2%
 - 1.8.3.2.4. Progesterone 0.025%
 - 1.8.3.2.5. 17-alpha-estradiol 0.025-0.05%.
 - 1.8.3.2.6. Minoxidil 2-5%
 - 1.8.3.2.7. Ac. Retinoic Acid 0.025-0.05%
 - 1.8.3.2.8. Alpha-Tocopherol Nicotinate 5%.
- 1.8.4. LOCAL
 - 1.8.4.1. Drug Dermoinfiltration
 - 1.8.4.1.1. Roller
 - 1.8.4.4.2. Dermojet
 - 1.8.4.4.3. Hair Mesotherapy
 - 1.8.4.4.4. Carboxytherapy
 - 1.8.4.2. Micropigmentation
 - 1.8.4.3. BIOLOGICAL TREATMENTS: PRP AND STEM CELLS
 - 1.8.4.4. Electrophysical Therapy
 - 1.8.4.4.1. Transportation and Ionization
 - 1.8.4.4.2. Infrared and Low Frequency Lasers
 - 1.8.4.5. Capillary Surgery
- 1.8.5. SYSTEMIC

- 1.8.5.1. Underlying Pathology
 - 1.8.5.1.1. Anti-Fungals/Antibiotics, Thyroid, Anxiolytics, Corticosteroids
- 1.8.5.2. Androgenetic (AGA)
 - 1.8.5.2.1. Finasteride
 - 1.8.5.2.2. Dutasteride
 - 1.8.5.2.3. Oral Minoxidil
- 1.8.5.3. Androgenetic Factors: Antiandrogens
 - 1.8.5.3.1. Central: Cyproterone with/without Estradiol
 - 1.8.5.3.2. Peripheral: Spironolactone
 - 1.8.5.3.3. Adrenal: Prednisone and Deflazacort
- 1.9. Specific Techniques
 - 1.9.1. HAIR MESOTHERAPY
 - 1.9.2. HAIR MICROGRAFTS
 - 1.9.3. BIOLOGICAL TREATMENTS:
 - 1.9.3.1. Plasma
 - 1.9.3.2. Stem Cells

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 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.



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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

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, 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. Gervas, 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 potential 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 professional medical 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 grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on 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.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.



The physician 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 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).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

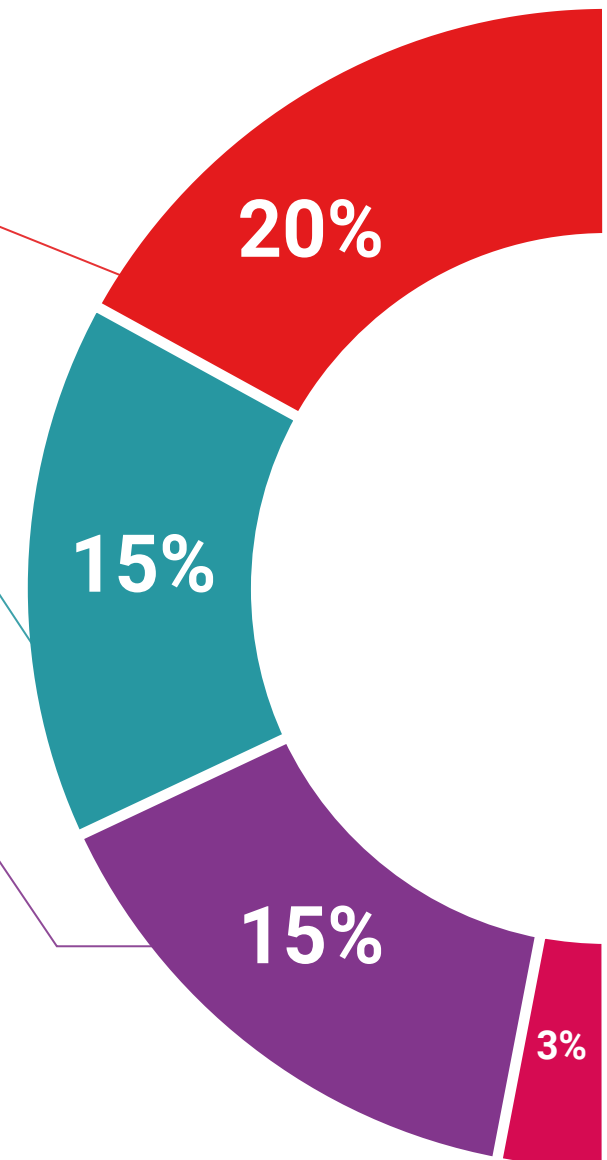
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your 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 our future difficult decisions.



Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



06

Certificate

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.



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Incluye en tu formación un título de Curso en Alopecia Androgenética: un valor añadido de alta cualificación para cualquier profesional de la medicina”

This **Postgraduate Certificate in Androgenetic Alopecia** includes the most complete and up-to-date scientific program on the market.

After the student has passed the evaluations, they will receive by mail with acknowledgment of receipt their corresponding Postgraduate Certificate issued by **TECH Technological University**.

The diploma issued by **TECH - Technological University** will reflect the qualification obtained in the Professional Progression's Degree, and meets the requirements commonly demanded by job exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Androgenetic Alopecia**

ECTS: **6**

Official Number of Hours: **150**



*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.

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
Certificate**
Androgenetic Alopecia

Course Modality: Online

Duration: 6 weeks

Certificate: TECH - Technological University

6 ECTS Credits

Teaching Hours: 150 hours.

Postgraduate Certificate Androgenetic Alopecia

