

Postgraduate Certificate

Pathology Anterior Segment



Postgraduate Certificate Pathology Anterior Segment

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

Website: www.techtitude.com/us/medicine/postgraduate-certificate/pathology-anterior-segment

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01

Introduction

Over the years, multiple affections involving the Anterior Segment have been discovered, such as cataracts, toxic syndrome and others. Currently, research has advanced exponentially, finding an increase of cases in this type of pathologies that in the past its existence was uncertain. According to the relevance that this discipline has achieved in recent times, this academic qualification has been developed to provide the specialist with a first level content related to the causes and treatment of conjunctival inflammation in children. Therefore, this program is developed in a 100% online pedagogical format, offering flexibility and the best multimedia didactic material.



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*In TECH you will find
the most complete and
exclusive advances regarding
Pathology Anterior Segment”*

The human eye is one of the parts of the organism most exposed to injuries or affectations, whose treatments are usually effective but take time to alleviate or cure such anomalies. Therefore, vision is an aspect of high importance in human beings and even more so in children at an early age, since this stage is related to the development of all systems, including the ocular system. In that sense, if the infant acquires any injury, they could suffer from various pathologies, causing even the loss of vision in the future.

Therefore, this university program focuses on providing the professional with the most complete update on Anterior Segment Pathology with emphasis on clinical signs and management of orbital pathology in children. In this way, this Postgraduate Certificate will provide the professional with the most innovative innovations related to medical and surgical treatments in pediatric corneal pathology.

The specialist will strengthen their competencies specifically in identifying the clinical implications and treatment options in cases of malformations. Therefore, this program will lead students to deepen their knowledge of concepts related to malignant tumors of the pediatric orbit and the multidisciplinary approach to orbital tumors. All this with multimedia content of the highest quality with the possibility of accessing at any time of the day from a digital device with Internet connection.

Also, TECH emphasizes comfort and excellence, that is why this program provides the most current developments and the best academic standards, thus being a degree of great flexibility that allows to reconcile daily activities with an avant-garde update.

This **Postgraduate Certificate in Pathology Anterior Segment** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practical case studies presented by experts in Pediatric Ophthalmology
- ♦ 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 the self-assessment process can be carried out 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



This program has been developed by renowned specialists in the field of Pediatric Ophthalmology"

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This university program will provide you with the most innovative updates in allergic conjunctivitis in children"

The program's teaching staff includes professionals from the field 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 students will be assisted by an innovative interactive video system created by renowned and experienced experts.

In TECH you will deepen in the development of the most frequent pediatric eye infections and their management.

With the support of the most advanced and innovative multimedia material, you will take your professional career to another level.



02

Objectives

In this university program, graduates will update their theoretical competencies and practical skills through a rich and innovative content related to congenital alterations of the anterior ocular segment and its diagnosis. In addition, TECH incorporates different technological innovation tools, guaranteeing the success of the academic process in this qualification. Therefore, the graduate of this Postgraduate Certificate will be up to date in concepts related to iris and pupil anomalies and disorders of the anterior chamber and iridocorneal angle.



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Thanks to the audiovisual tools that only TECH has for you, you will strengthen your skills in congenital ptosis and its impact on children's vision"



General Objectives

- ◆ Acquire a thorough and up-to-date knowledge of the diagnosis and treatment of ophthalmologic conditions in children, including neonates and infants
- ◆ Develop a solid understanding of the basics of childhood vision development, covering ocular embryology, related genetics, and the anatomy and physiology of the growing visual system
- ◆ Understand and address ocular anterior segment pathologies, including palpebral, orbital, conjunctival pathology, developmental alterations of the anterior segment, and corneal and ectatic diseases in the pediatric age group
- ◆ Become familiar with the diagnosis and management of pediatric glaucoma, pediatric uveitis, aniridia and other conditions related to the anterior segment
- ◆ Acquire specific knowledge of retinopathy of prematurity, retinoblastoma, hereditary retinal disorders, retinal vascular anomalies, pediatric retinal detachment, and other pediatric retinal conditions
- ◆ Delve into the field of pediatric neuro-ophthalmology, covering topics such as nystagmus, supranuclear motility disorders, congenital optic nerve anomalies and hereditary optic neuropathies





Specific Objectives

- Know the treatment options for palpebral disorders in children
- Understand congenital ptosis and its impact on children's vision
- Analyze pediatric orbital diseases and conditions, such as cellulitis
- Identify the clinical signs and management of orbital pathology in children
- Recognize pediatric orbital tumors and their early diagnosis
- Identify common pediatric ocular infections and their management
- Understand the causes and treatment of conjunctival inflammation in children in the pediatric population
- Differentiate between allergic and non-allergic conjunctivitis in children
- Study the congenital alterations of the anterior ocular segment and their diagnosis
- Identify the clinical implications and treatment options in cases of malformations
- In-depth study of developmental disorders of the anterior segment, such as anterior chamber abnormalities
- Recognize corneal and ectatic disorders in children, such as keratoconus

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In this course you will have the opportunity to delve into the treatment options for palpebral disorders in children used in Pediatric Ophthalmology”

03

Course Management

TECH is at the forefront of education, providing the professional with a highly specialized and qualified teaching staff in the field of Ophthalmology. Thanks to their extensive experience in this area of knowledge, the experts have developed a syllabus oriented to the embryology and normal development of the anterior segment and management strategies in inflammatory conjunctivitis. Their robust experience and expertise in this discipline will allow students to acquire an important and comprehensive up-to-date knowledge that will help them meet the challenges they will face in their professional careers.



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The graduate will obtain a curriculum designed by a professional team extensively trained in Anterior Segment Pathology”

Management



Dr. Sánchez Monroy, Jorge

- ♦ Corresponsable for Pediatric Ophthalmology at Quirónsalud Hospital in Zaragoza
- ♦ Specialist in the Ophthalmology Miguel Servet University Hospital in Zaragoza
- ♦ Master'in in Clinical Ophthalmology from UCJC
- ♦ Degree in Medicine from the University of Zaragoza
- ♦ Expert in Pediatric Neurophthalmology and Strabismus
- ♦ Postgraduate Diploma in Ophthalmology and Vision Sciences

Professors

Dr. Romero Sanz, María

- ♦ Corresponsable for Children's Ophthalmology at Hospital Quirónsalud Zaragoza
- ♦ Specialist in the Ophthalmology Miguel Servet University Hospital in Zaragoza
- ♦ Master' in in Clinical Ophthalmology at CEU Cardenal Herrera University
- ♦ Master's Degree in Clinical Medicine at the Camilo José Cela University
- ♦ Grade in Medicine and Surgery from the Faculty of Medicine of the Zaragoza University
- ♦ Expert in Ophthalmic Surgery at the University CEU Cardenal Herrera
- ♦ Expert in Pathologies and Eye Treatment CEU Cardenal Herrera University
- ♦ Expert in Uveitis and the Retina CEU Cardenal Herrera University

Dr. Prieto Calvo, Esther

- ♦ Specialist in the Pediatric Ophthalmology Miguel Servet University Hospital in Zaragoza I
- ♦ Researcher in the Teaching Innovation Incentive Project of the UZ
- ♦ Researcher of the Thematic Network of Cooperative Research
- ♦ Specialist in Ophthalmology
- ♦ Doctor from the University of Zaragoza
- ♦ Degree in Medicine
- ♦ Member of the Spanish Society of Pediatric Ophthalmology



Dr. Pinilla, Juan

- ◆ Attending Physician of Pediatric Ophthalmology Unit, Miguel Servet University Hospital
- ◆ Specialist in the Pediatric Ophthalmology Miguel Servet University Hospital in Zaragoza
- ◆ Doctorate in Medicine and Surgery, University of Zaragoza
- ◆ Professional Master's in Initiation to Research in Medicine
- ◆ Degree in Medicine from the University of Zaragoza



A unique, key, and decisive training experience to boost your professional development"

04

Structure and Content

This program has been designed and conceived according to the most current scientific studies in the area of Pediatric Ophthalmology, developing a syllabus that provides a vast content on the developmental alterations of the anterior segment. Therefore, this course is oriented to offer an innovative material regarding vascular and malformative orbital lesions and orbital trauma in the pediatric population.

All this, through a series of multimedia tools that give dynamism and a greater attractiveness to this university qualification.

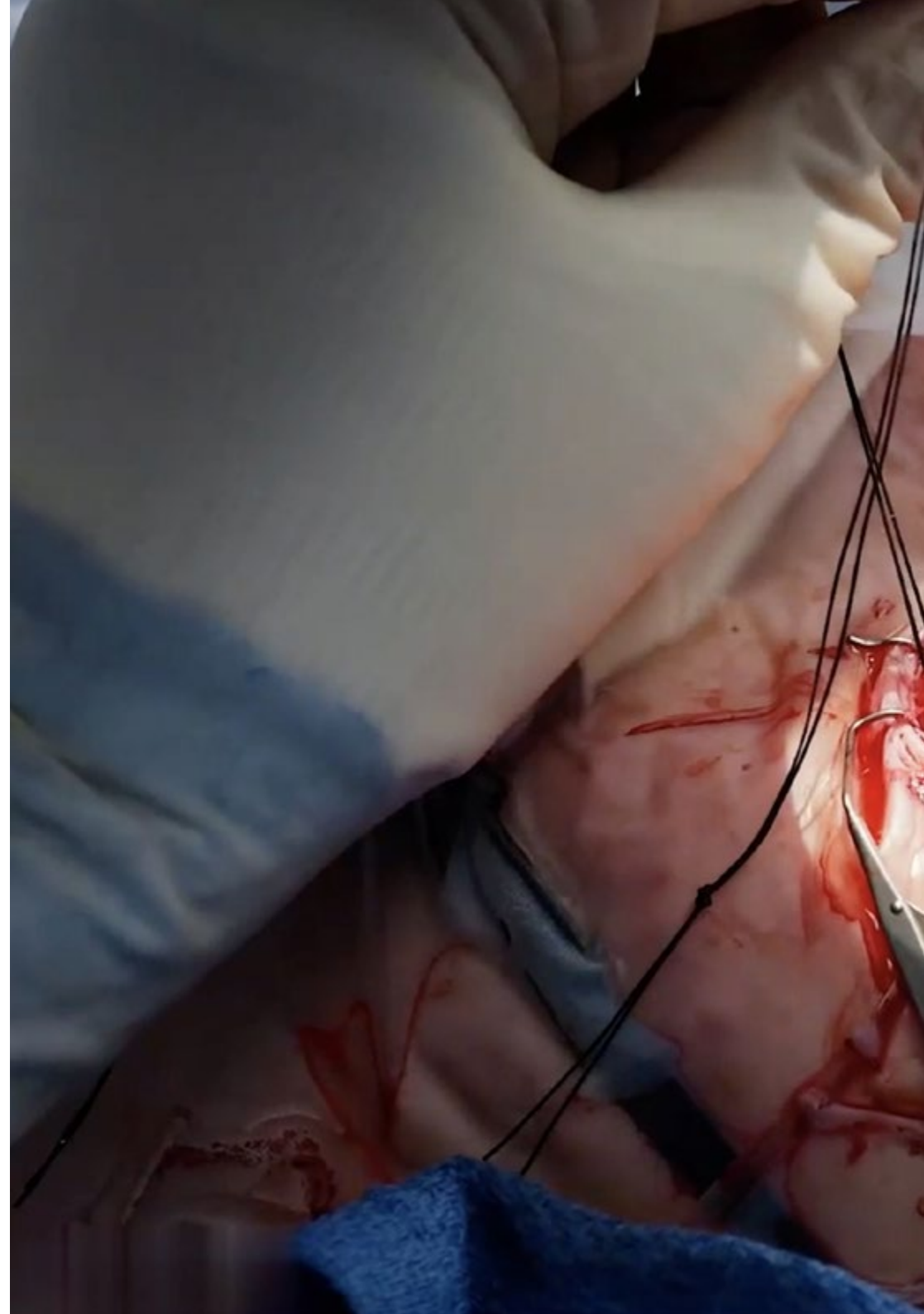


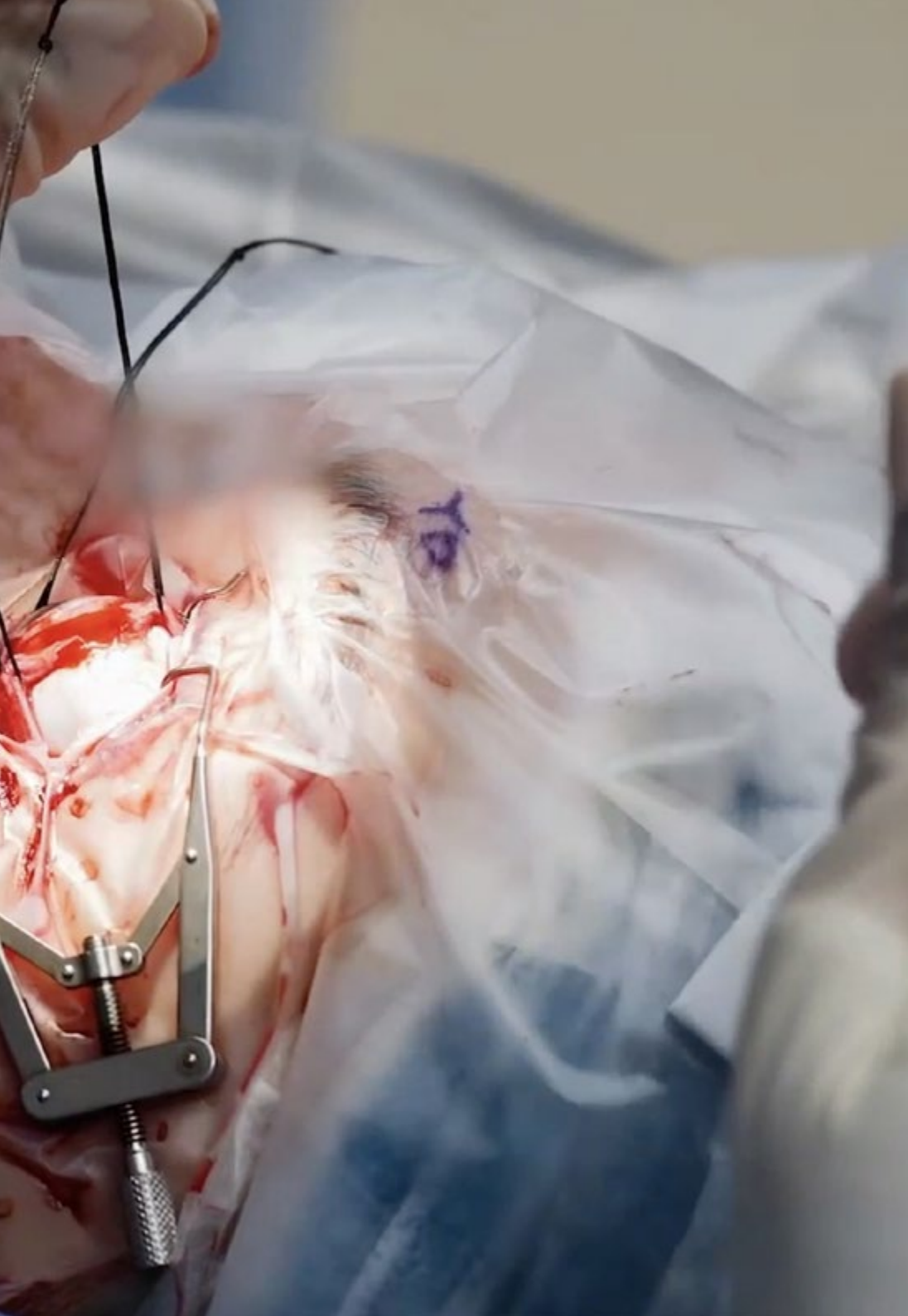
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This Postgraduate Certificate includes the most innovative aspects related to clinical evaluation and differential diagnosis"

Module 1. Anterior Segment Pathology I

- 1.1. Palpebral Pathologies
 - 1.1.1. Palpebral infections
 - 1.1.2. Palpebral malformations
 - 1.1.3. Palpebral trauma
 - 1.1.4. Conservational Treatment
- 1.2. Palpebral Pathologies Congenital Aponeurotic Ptosis
 - 1.2.1. Diagnosis and Classification of Lymphedema
 - 1.2.2. Eyelid levator muscle assessment
 - 1.2.3. Surgical treatment of ptosis in children
 - 1.2.4. Long term results in congenital ptosis
- 1.3. Orbital pathology
 - 1.3.1. Clinical and imaging evaluation of orbital pathology
 - 1.3.2. Orbital inflammation in children
 - 1.3.3. Orbital vascular and malformative lesions
 - 1.3.4. Medical History in the Pediatric Population
- 1.4. Orbital Pathology II. Tumors
 - 1.4.1. Benign orbital tumors in children
 - 1.4.2. Malignant tumors of the pediatric orbit
 - 1.4.3. Multidisciplinary approach in orbital tumors
 - 1.4.4. Clinical cases and case studies
- 1.5. Congenital lacrimal obstruction and other lacrimal pathology
 - 1.5.1. Diagnosis of lacrimal obstruction in infants and children
 - 1.5.2. Medical and Surgical Treatment
 - 1.5.3. Lacrimal Pathology Obstructive in Childhood
 - 1.5.4. Management of dacryocystitis and other lacrimal problems
- 1.6. Conjunctival pathology I. Infectious
 - 1.6.1. Bacterial conjunctivitis in children
 - 1.6.2. Medical History in the Pediatric Population
 - 1.6.3. Fungal and parasitic conjunctivitis in children
 - 1.6.4. Infectious Conjunctivitis Treatment and Prevention





- 1.7. conjunctival Pathology II. Inflammatory
 - 1.7.1. Allergic conjunctivitis in children
 - 1.7.2. Conjunctivitis Associated With Systemic Diseases
 - 1.7.3. Giant Papillary Conjunctivitis
 - 1.7.4. Management strategies in inflammatory conjunctivitis
- 1.8. Developmental alterations of the anterior segment I
 - 1.8.1. Embryology and normal development of the anterior segment
 - 1.8.2. Congenital malformations of the anterior segment
 - 1.8.3. Clinical Analysis Evaluation and Differential Diagnosis
 - 1.8.4. Treatment of congenital anomalies of the anterior segment
- 1.9. Developmental disorders of the anterior segment II
 - 1.9.1. Anomalies of the lens and capsule
 - 1.9.2. Abnormalities of the iris and pupil
 - 1.9.3. Disorders of the anterior chamber and iridocorneal angle
 - 1.9.4. Surgical approach to anterior segment anomalies
- 1.10. corneal and-Ophthalmologic Pathology in Children
 - 1.10.1. Evaluation of the corneal surface in children
 - 1.10.2. Corneal infections in the pediatric population
 - 1.10.3. Corneal ectasias in children
 - 1.10.4. Medical and surgical treatments in pediatric corneal pathology



The 100% online format provides the graduate with the greatest comfort, requiring only a device with an Internet connection"

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.



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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 Methodology

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

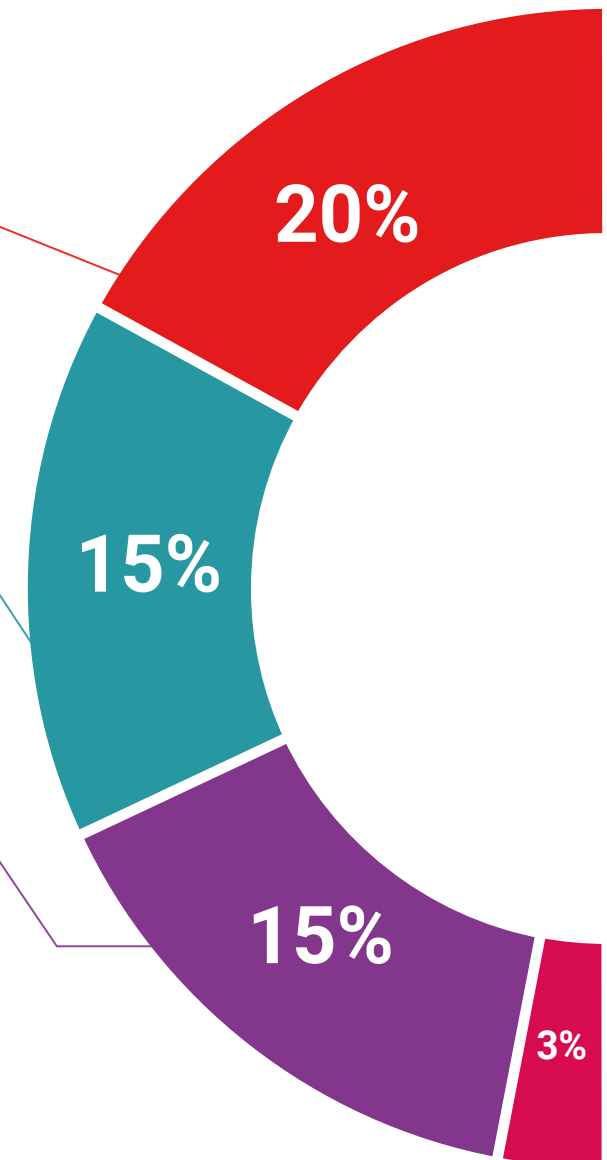
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

The Postgraduate Certificate Pathology Anterior Segment guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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

This program will allow you to obtain your **Postgraduate Certificate Pathology Anterior Segment** 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 Certificate Pathology Anterior Segment**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





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Postgraduate Certificate

Pathology Anterior Segment

