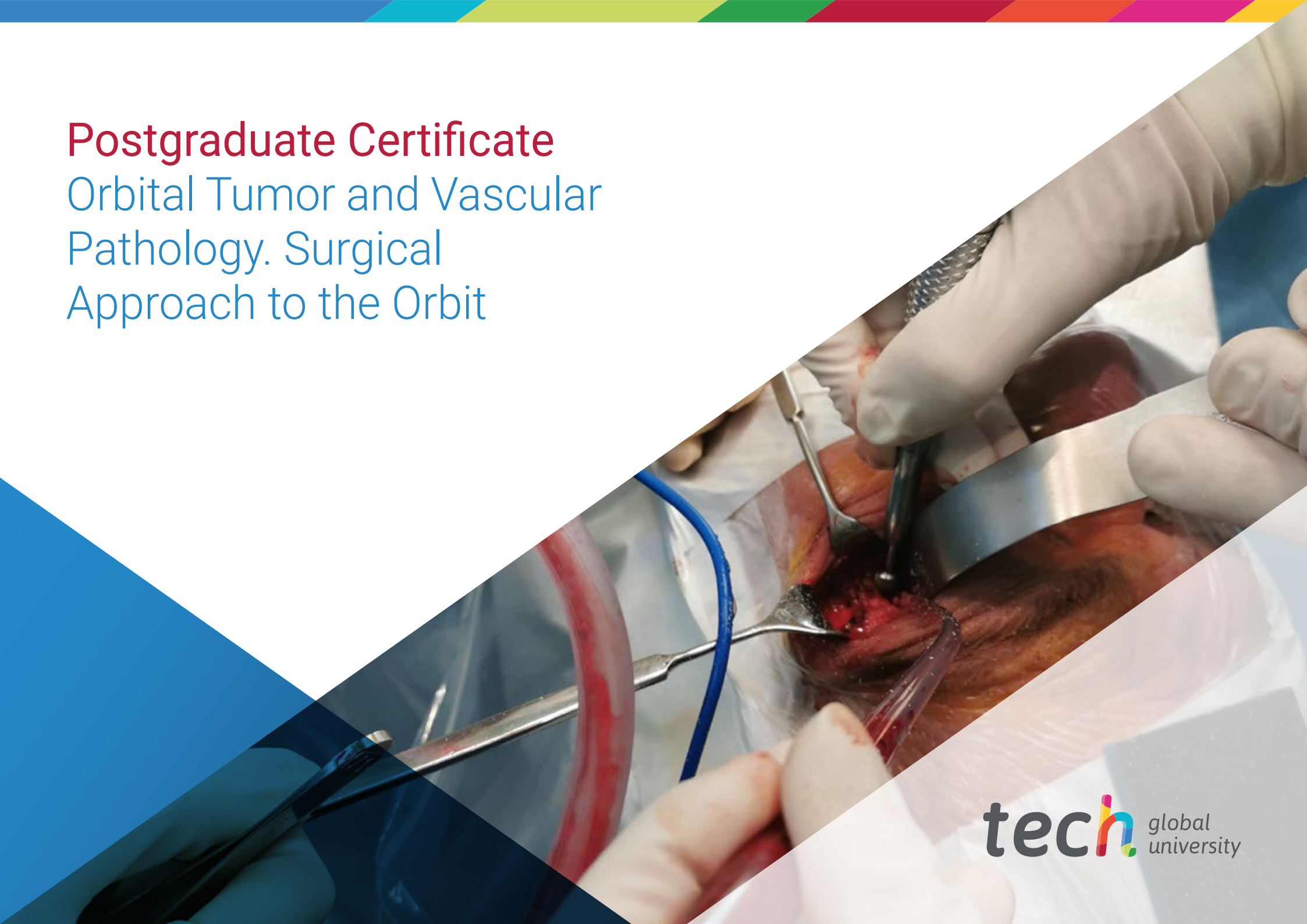


**Postgraduate Certificate**  
Orbital Tumor and Vascular  
Pathology. Surgical  
Approach to the Orbit





## Postgraduate Certificate Orbital Tumor and Vascular Pathology. Surgical Approach to the Orbit

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

Website: [www.techtitute.com/us/medicine/postgraduate-certificate/orbital-tumor-vascular-pathology-surgical-approach-orbit](http://www.techtitute.com/us/medicine/postgraduate-certificate/orbital-tumor-vascular-pathology-surgical-approach-orbit)

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# 01

# Introduction

Oculoplastic surgery offers more and more options for treatment and surgical approach to problems in facial structures. Thus, much of the research and practice of ophthalmology is based on the surgical intervention of ocular neoplasms of different types, as well as vascular lesions and malformations in the ocular area. And, precisely, this degree goes deeper into this important clinical field, so that it can transfer the latest advances to the specialist. All this, from a 100% online methodology and with the support of a teaching staff of great prestige in this medical area



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*With this 100% online Postgraduate Certificate you will have access to the most up-to-date surgical techniques for tumor and vascular pathologies"*

The different pathologies that can affect the ocular area at a vascular and tumor level are one of the most complex areas of today's world and one that has experienced the greatest number of advances in recent years. For this reason, it is a medical discipline that requires the professional to keep up to date with its numerous innovations.

As such, this program offers a detailed study of the different forms of tumor conditions, from benign neoplasms of vascular origin such as capillary hemangioma, intraosseous hemangioma, etc., to neural conditions such as neurofibroma or different types of meningioma, among many other details of this subarea, which is also constantly evolving.

In order to offer a completely updated technical training, TECH has developed this Postgraduate Certificate, which has innovative distance learning methods and a teaching staff composed of the best ophthalmologists.

This is a 180-hour program with a variety of virtual material to which the student will have full access, from presentations of real cases, scientific articles, interactive videos and others. This results in a compendium of high theoretical rigor with a convenient format for review and theoretical and practical support for the student.

This **Postgraduate Certificate in Orbital Tumor and Vascular Pathology. Surgical Approach to the Orbit** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ The development of case studies presented by Ophthalmology experts
- ◆ 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



*This Postgraduate Certificate has the latest scientific evidence in Orbital Tumor and Vascular Pathology, and will teach you the most advanced surgical procedures in this complex clinical area"*

“

*The teaching staff of this program is made up of leading specialists in this medical field, so you will be able to update your knowledge together with internationally renowned experts"*

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.

The design of this program focuses on problem-based learning, through which 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.

*Rhabdomyosarcoma is one of the most frequent primary malignant lesions: learn about the latest advances in its diagnosis and intervention thanks to this Postgraduate Certificate.*

*Learn more about benign lesions of the orbit and lacrimal glands from the best specialists in the field in this TECH program.*



# 02 Objectives

This is a program designed for the physician to learn the latest advances in the diagnosis and approach to tumor and vascular lesions in the ocular area. The content of this Postgraduate Certificate is designed to address in a timely and detailed manner the different difficulties that a patient may present at primary, neuronal and everything related to tumor and vascular pathologies that are the subject of ophthalmology. Always taking into account the latest scientific evidence.





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*TECH has designed this program to offer the specialist the latest developments in the surgical approach to tumor and orbital vascular pathologies"*

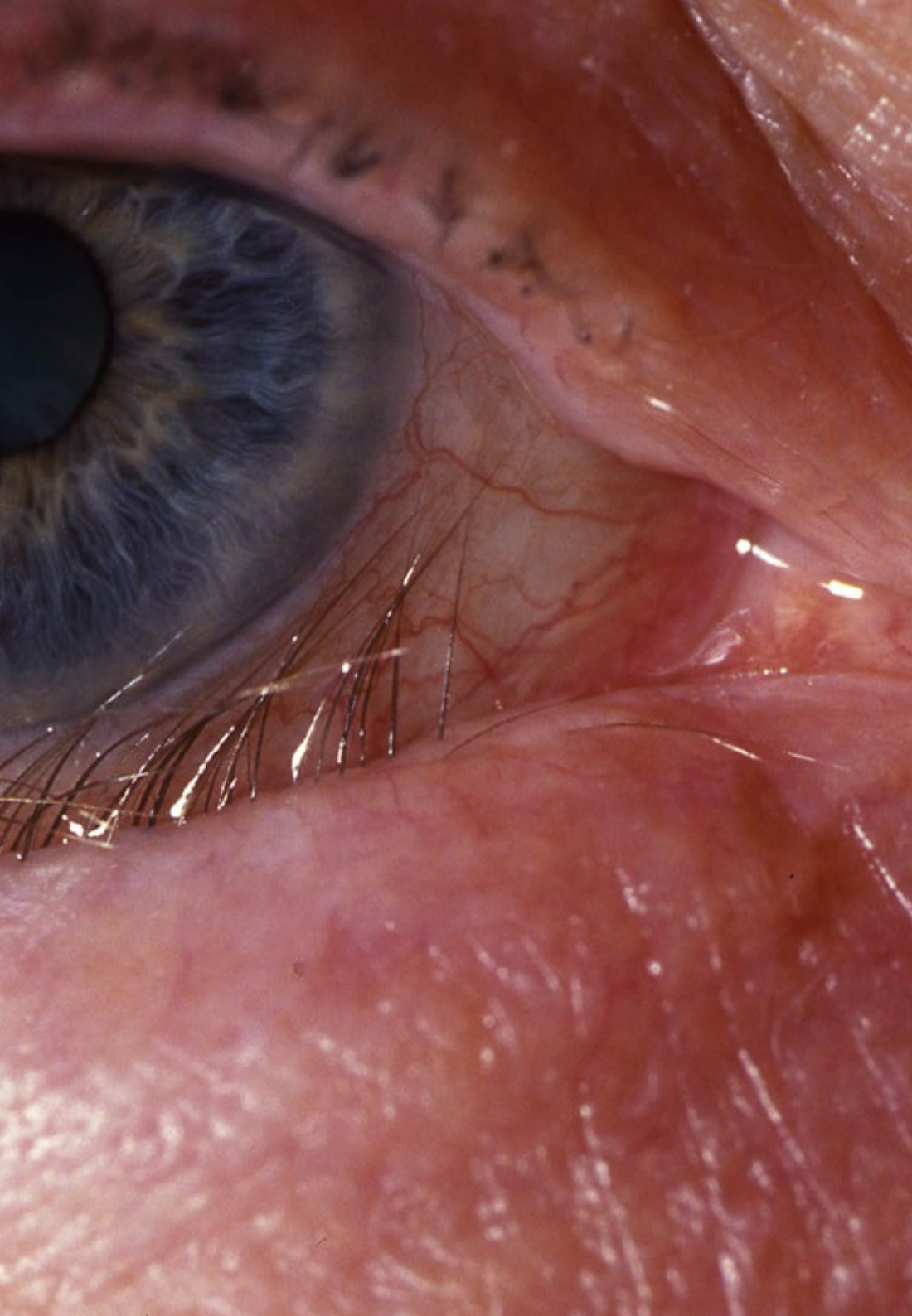


## General Objectives

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- ◆ Know in detail the physiology of the eyelids, orbit and lacrimal ducts and their functions
- ◆ Know in depth the latest exploratory techniques for consultation, for its application in the clinic
- ◆ Know the management of the pre-surgical patient, with emphasis on the management of the coagulated or antiagregate patient
- ◆ Delve into the knowledge of the periocular anatomy, the evolutionary changes due to aging and the innovations about its aesthetic and surgical medical approach
- ◆ Manage the diagnosis of benign and malignant lesions of the eyelids, as well as palpebral and periocular reconstruction techniques
- ◆ Study orbital pathology from the anatomical basis to the understanding of vascular and tumor pathologies, with emphasis on their diagnosis and differential diagnosis
- ◆ Have a deep knowledge of the inflammatory pathology of the orbit and its treatment, delving into the treatment, more specifically in the new immunological treatments and the multidisciplinary approach of these pathologies





## Specific Objectives

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- ◆ Delve into benign neoplasms of vascular origin: capillary and intraosseous hemangioma, etc....
- ◆ Know the different benign neoplasms of neural origin: schwannoma, neurofibroma, NF meningioma, glioma
- ◆ Learn about other benign lesions of the orbit and lacrimal glands
- ◆ Understand the most frequent primary malignant lesions: lymphoma, rhabdomyosarcoma...
- ◆ Delve into the knowledge of the different vascular malformations of the orbit
- ◆ Learn how to choose the most appropriate surgical approach for each case



*This Postgraduate Certificate has the best multimedia resources in the educational market, so that the learning process is effective, fast and progressive"*

03

# Course Management

TECH has professionals with extensive experience and renown in the field of ophthalmology for the design and delivery of this program. Therefore, the physician will be guided and accompanied by professionals recognized for their professional practice in this clinical area. In this way, they will be able to update their knowledge with specialists who are familiar with the latest developments in the discipline and who apply the most advanced surgical procedures in their daily work.



“

*This teaching staff will accompany you throughout the educational itinerary, providing you with the latest techniques in ocular surgery"*

## Management



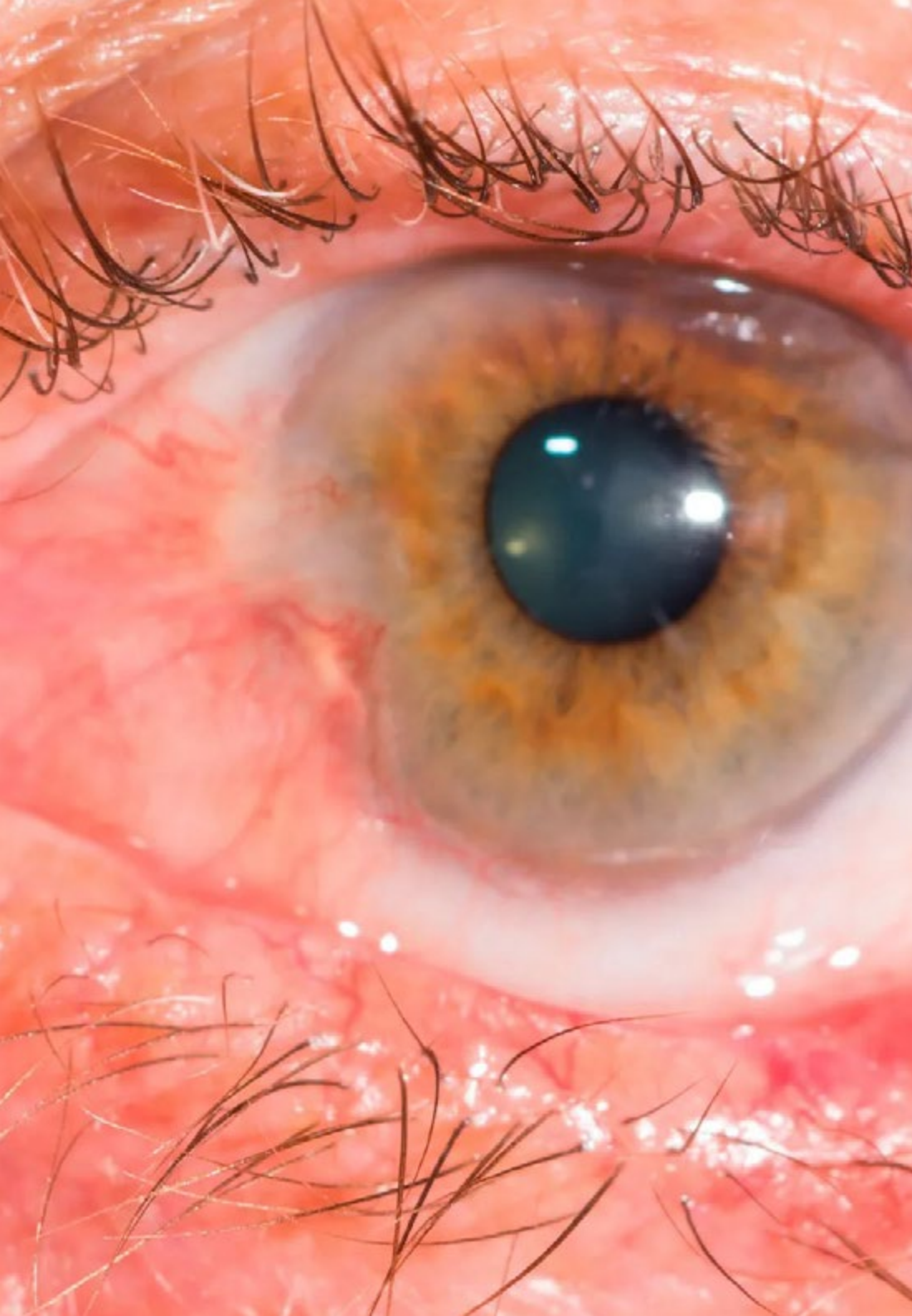
### Ms. Ibáñez Flores, Nuria

- ◆ Head of the Oculoplastics Department at the ICR of Barcelona (Institut Català de Retina)
- ◆ Adjunct professor of the medical degree at the UIC (International University of Catalonia)
- ◆ Director and coordinator of the surgical master's degree of the UIC (International University of Catalonia) in Oculoplastics, Orbit and Lacrimal Ducts
- ◆ Reviewer of the Archives of the Spanish Society of Ophthalmology
- ◆ Member of the Spanish Society of Ocular and Orbital Plastic Surgery (SECPOO)
- ◆ Responsible and coordinator of the interhospital sessions of Oculoplastics taught at ICR
- ◆ Doctor in Medicine and Surgery from the Autonomous University of Barcelona
- ◆ Degree in Medicine and Surgery from the University of Barcelona, Bellvitge Teaching Unit



### Dr. Pascual González, Macarena

- ◆ Medical Specialist in Ophthalmology at General University Hospital Gregorio Marañón. Section of Oculoplasty, Tear Ducts and Orbit
- ◆ Collaborating lecturer in the subject of Ophthalmology at the Complutense University of Madrid
- ◆ Member of the Spanish Society of Ocular and Orbital Plastic Surgery (SECPOO)
- ◆ Fellow of European Board of Ophthalmology (FEO)
- ◆ Degree in Medicine from the University of Malaga
- ◆ Specialist in Ophthalmology at the General University Hospital Gregorio Marañón Master in Aesthetic, Regenerative and Anti-Aging Medicine at the Complutense University of Madrid



## Professors

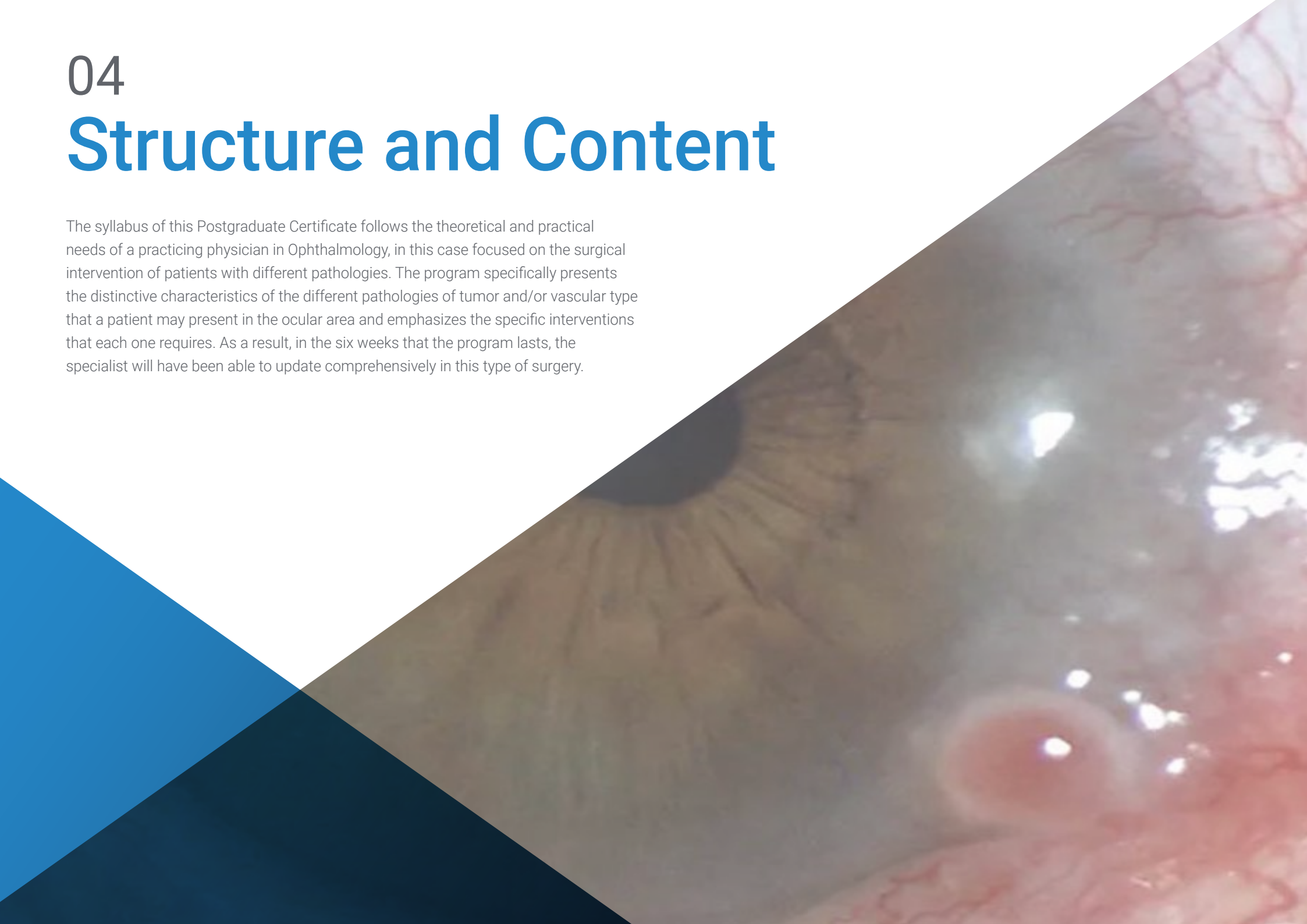
### Dr. Ortiz Pérez, Santiago

- ◆ Clinical fellowship in oculoplastics (Moorfields Eye Hospital)
- ◆ Associate Professor at the University of Granada
- ◆ Researcher at the IBS Granada (Institute of Biomedical Research of Granada)
- ◆ Director of the Ophthalmology Unit, Virgen de las Nieves Hospital, Granada
- ◆ Founding member and current secretary of the Spanish Society of Facial Plastic Surgery (SECPF), member of the Spanish Society of Ocular and Orbital Plastic Surgery (SECPOO), European Society of Ophthalmic Plastic and Reconstructive Surgery (ESOPRS), and Spanish Society of Ophthalmology (SEO)
- ◆ Junior Fellowship in Oculoplastics (The Western Ophthalmic and Chelsea and Westminster Hospital - London)
- ◆ Doctor of Medicine from the University of Barcelona
- ◆ Degree in Medicine and Surgery from the University of Granada
- ◆ Residency in Ophthalmology. Barcelona Clinical Hospital
- ◆ Master in Medical Management and Health Management by the National University of Distance Education (UNED) and the National School of Health

# 04

## Structure and Content

The syllabus of this Postgraduate Certificate follows the theoretical and practical needs of a practicing physician in Ophthalmology, in this case focused on the surgical intervention of patients with different pathologies. The program specifically presents the distinctive characteristics of the different pathologies of tumor and/or vascular type that a patient may present in the ocular area and emphasizes the specific interventions that each one requires. As a result, in the six weeks that the program lasts, the specialist will have been able to update comprehensively in this type of surgery.





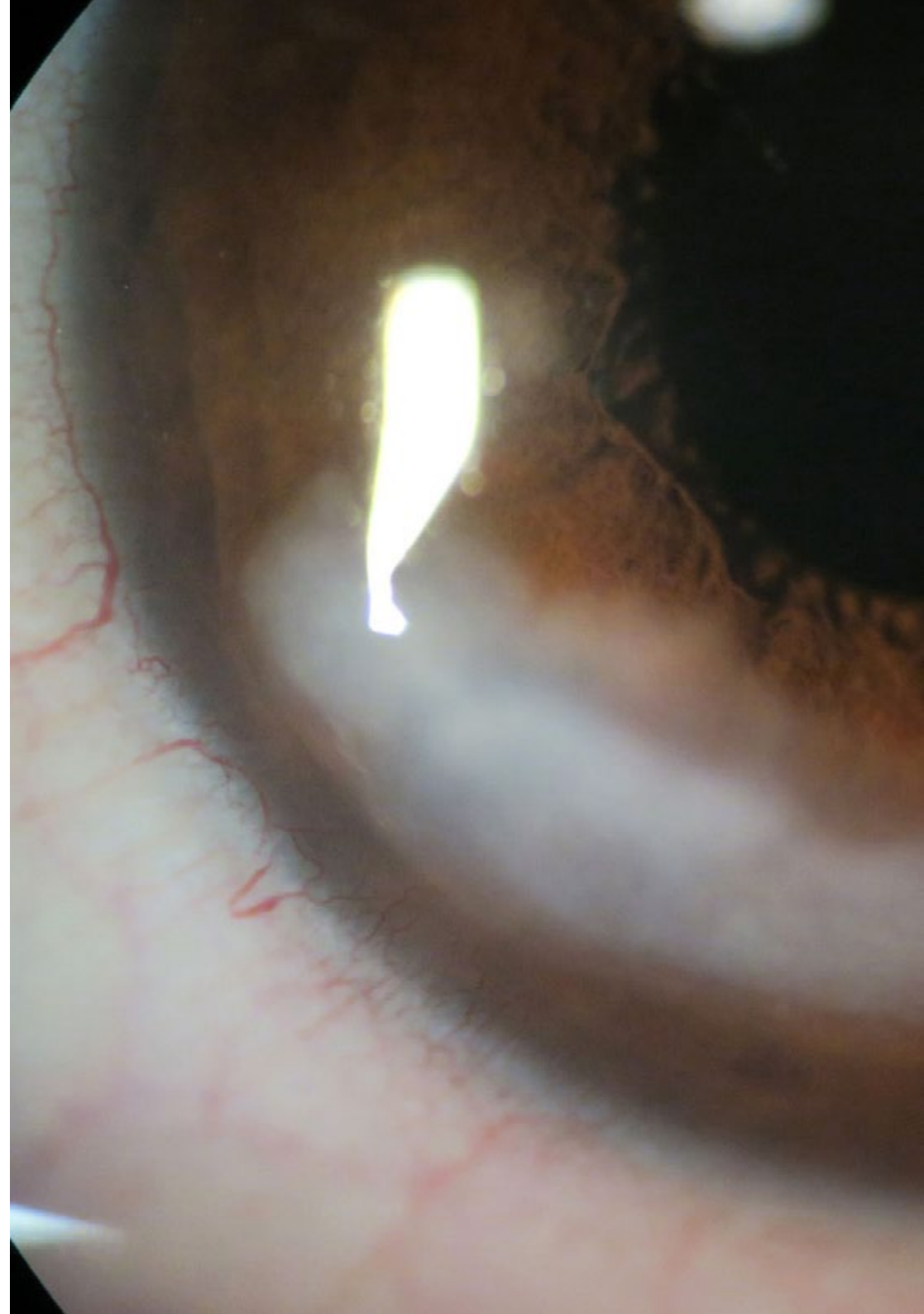


“

*A syllabus designed with rigor and excellence by the best ophthalmologists”*

**Module 1. Tumor and Vascular Pathology. Surgical Approach**

- 1.1. Benign Neoplasms of Vascular Origin
  - 1.1.1. Capillary Hemangioma
  - 1.1.2. Intraosseous Hemangioma
- 1.2. Benign Neoplasms of Neural Origin
  - 1.2.1. Schwannoma
  - 1.2.2. Neurofibroma
  - 1.2.3. Optic Nerve Meningioma
  - 1.2.4. Optic Nerve Glioma
- 1.3. Benign Neoplasms of the Lacrimal Gland
- 1.4. Other Benign Lesions of the Orbit
- 1.5. Primary Malignant Neoplasms: Orbital Lymphoma
- 1.6. Primary Malignant Neoplasms: Orbital Rhabdomyosarcoma
- 1.7. Malignant Neoplasms of Lacrimal Gland
- 1.8. Other Malignant Neoplasms of the Orbit
  - 1.8.1. Extension of Periocular Malignant Tumors
  - 1.8.2. Spread of Intraocular Malignant Tumors
  - 1.8.3. Orbital Metastases
- 1.9. Vascular Malformations of the Orbit
  - 1.9.1. Venous Malformation of the Orbit
  - 1.9.2. Veno- Lymphatic Malformations of the Orbit
  - 1.9.3. Arterio- Venous Malformations of the Orbit
  - 1.9.4. Other Orbital Vascular Malformations
- 1.10. Selection of Surgical Approach. Preoperative and Intraoperative Considerations
  - 1.10.1. Anterior Orbitotomy
  - 1.10.2. Medial Orbitotomy
  - 1.10.3. Lateral Orbitotomy
  - 1.10.4. Other Approaches to the Orbit



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*Ophthalmology never stops advancing, so it demands, on the part of the specialist, an exhaustive update in areas such as the surgical approach to tumor pathologies”.*

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

The Postgraduate Certificate in Orbital Tumor and Vascular Pathology. Surgical Approach to the Orbit 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 in Orbital Tumor and Vascular Pathology. Surgical Approach to the Orbit** 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.

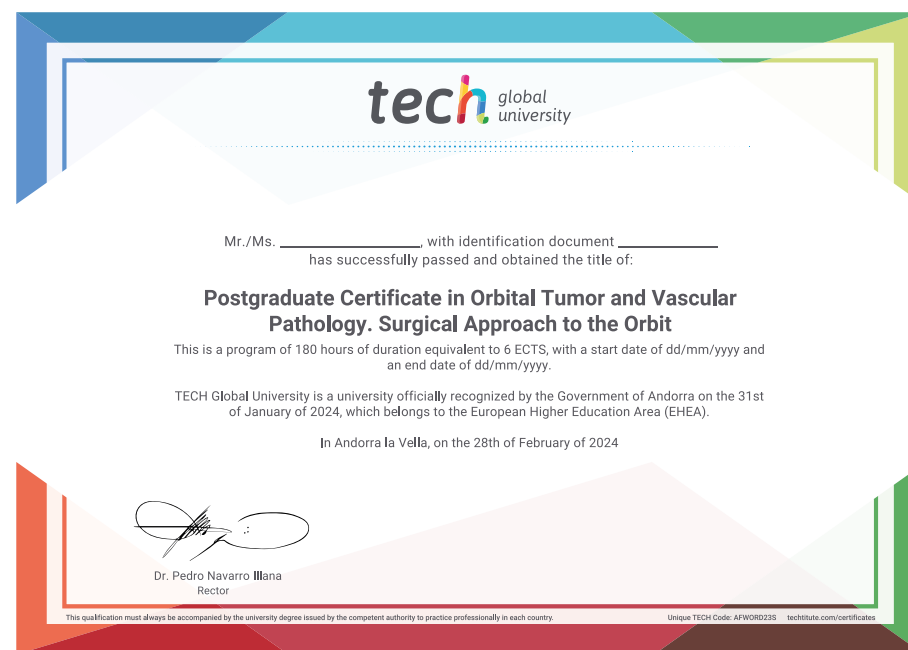
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Orbital Tumor and Vascular Pathology. Surgical Approach to the Orbit**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





**Postgraduate Certificate**  
Orbital Tumor and Vascular  
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