

Postgraduate Diploma Ocular Oncology





Postgraduate Diploma Ocular Oncology

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

Website: www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-ocular-oncology

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01

Introduction

Ocular tumors are rare, but when they appear they can be very aggressive and seriously compromise the patient's vision. For this reason, it is essential for Ophthalmology professionals to be highly prepared to deal with these pathologies in an adequate manner. In fact, this program provides a complete update on the diagnosis and treatment of ocular tumors, ranging from epidemiological aspects and tumorigenesis to complementary tests and treatments used. In addition, the program is taught 100% online with the *Relearning* pedagogical methodology, which allows a faster internalization of concepts.





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*Get updated on the most innovative
medical strategies in Ocular Oncology”*

Ocular Oncology affects a significant part of the world's population. In some cases, these tumors can be life-threatening, so it is essential to have professionals specialized in this field of medicine to detect and treat the disease in a timely and effective manner. In addition, due to the complexity of the diagnosis and treatment of eye tumors, it is important that health professionals working in this field constantly update their knowledge and skills.

Thus, the Postgraduate Diploma in Ocular Oncology is an updating option designed for health professionals to acquire the necessary knowledge to deal with ocular tumors effectively and safely. The qualification is structured in different modules that cover the epidemiological aspects of ocular tumors, the classification of ocular neoplasms, complementary tests, biopsies and the treatments used in Ocular Oncology. Thus, the contents of the Postgraduate Certificate will provide a complete and updated vision of Ocular Oncology, with the aim of being able to apply this knowledge in their daily practice.

In fact, this academic opportunity has a number of features that make it an excellent preparation option for specialists who wish to expand their knowledge in this field. First of all, the program is taught 100% online, which allows students to access the content from anywhere and at any time. In addition, the *Relearning* pedagogical methodology guarantees faster updating, for which the educational materials will remain available 24 hours a day on the Virtual Campus.

This **Postgraduate Diploma in Ocular Oncology** 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 experts in Ocular Oncology
- 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



Time to update you on the epidemiological aspects of ocular tumors”

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*You will be able to handle
Fluorescein Angiography or
Doppler Ultrasonography”*

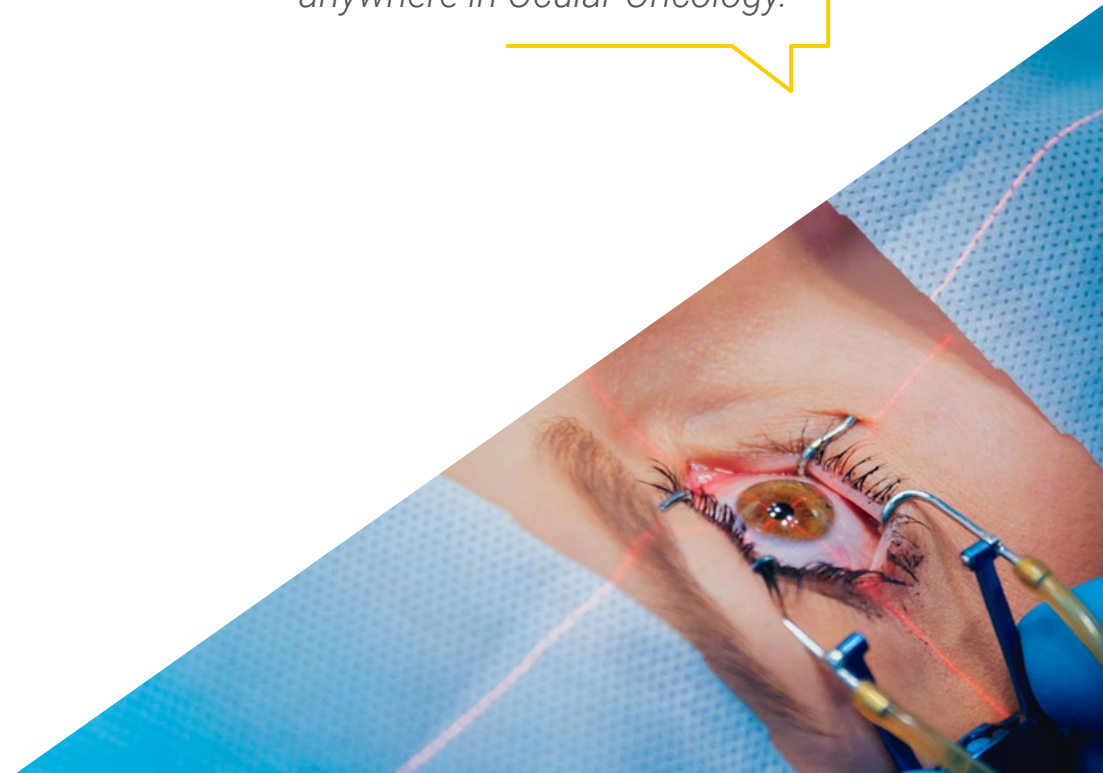
The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide the professionals with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professionals must try to solve the different professional practice situations that are presented throughout the academic course. This will be done with the help of an innovative system of interactive videos made by renowned experts.

*Perfect your performance of
complementary tests through
dynamic videos, interactive
diagrams or case studies.*

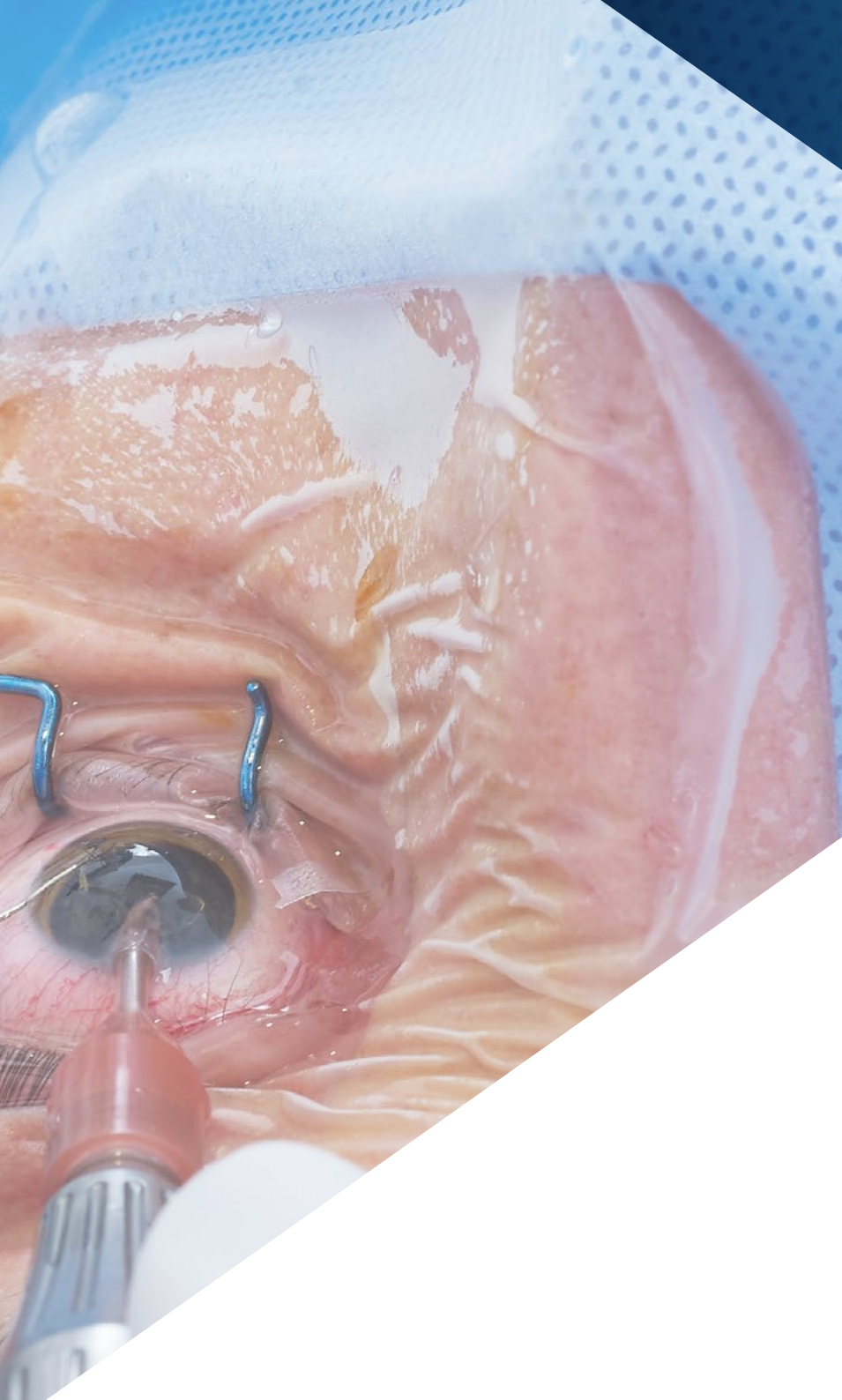
*Take advantage of the opportunity
to update yourself from home or
anywhere in Ocular Oncology.*



02 Objectives

During the course of the 6 months of this program, the ophthalmologist will receive an exhaustive preparation on the different types of tumors from a theoretical-practical perspective. In addition, innovative teaching materials, such as detailed videos and clinical case studies, will provide a more realistic and closer look at the diagnostic methods and therapeutic alternatives available.





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*Achieve the objectives of the program
and launch your professional career in
only 6 months”*



General Objectives

- Update knowledge on the different tumors that can affect the eye and its appendages
- Deepen in the diagnostic-therapeutic approach of ocular neoplasms
- Delve into the main common characteristics of ocular neoplasms
- Deepen in the different tumor lesions that can affect the eyelids, the lacrimal drainage pathway and the orbit
- Investigate the different types of tumors that can be located on the ocular surface, cornea and conjunctiva
- Delve into the most recent research in Oncological Ophthalmology

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This is your opportunity to delve into the types of surgical and non-surgical treatment for successful therapeutic management of ocular surface tumors”





Specific Objectives

Module 1. Ocular Oncology

- Update knowledge on tumor pathology affecting the eyeball and its appendages
- Deepen the knowledge of diagnostic techniques and the different therapeutic possibilities available

Module 2. Palpebral, Tear Duct and Orbital Tumors

- Provide updated descriptive information on tumor pathology affecting the eyelids, lacrimal drainage duct and orbit, including differential diagnosis with neoplastic simulating lesions
- Delve into the different medical-surgical management options for eyelid, lacrimal drainage duct and orbital tumors, including prognosis and possible associated complications

Module 3. Tumors of Ocular Surface and Cornea

- Provide updated information on tumor pathology affecting the eyelids lacrimal , drainage duct and orbit, including differential diagnosis with neoplastic simulating lesions
- Delve into the clinical skills necessary for the correct diagnosis of ocular surface tumors, including the management of complementary tests
- Deepen in the different types of surgical and non-surgical treatment for a correct therapeutic management of ocular surface tumors

03

Course Management

The teaching team of the Postgraduate Diploma in Ocular Oncology is composed of highly qualified and experienced professionals in the field of Ophthalmology and Ocular Oncology. These experts have extensive experience in teaching in these fields, as well as in research and clinical practice. In addition, the team includes ophthalmologists specializing in imaging, pathology and medical oncology. Additionally, students will be able to solve all their doubts through the Virtual Campus.



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*Experts in Ocular Imaging and Oncology
will give you the keys you need to excel
in this area”*

Management



Dr. Garrido Hermosilla, Antonio Manuel

- ♦ Medical Specialist in Ophthalmology
- ♦ Specialist in the Ophthalmology Service of the Virgen Macarena University Hospital
- ♦ Specialist in Oculoplasty-Orbit and Ocular Oncology Units
- ♦ Specialist in National Reference Units (CSUR) for Adult and Childhood Intraocular Tumors
- ♦ Co-coordinator of Andalusian Reference Units (UPRA) for the Integral Management of the Anophthalmic Cavity and for Graves' Orbitopathy
- ♦ Tutor for Ophthalmology Interns



Dr. Relimpio López, María Isabel

- ♦ Coordinator of the Adult Intraocular Tumors Unit at the CSUR of the Hospital Virgen Macarena
- ♦ Specialist Area Physician (FEA) in the Ophthalmology Service at the University Hospital Virgen Macarena (HUVM)
- ♦ Specialist in the Retina and Ocular Oncology Units of the HUVM
- ♦ Coordinator of the National Reference Unit (CSUR) for Adult Intraocular Tumors
- ♦ Specialist in the National Reference Unit (CSUR) for Childhood Intraocular Tumors
- ♦ Ophthalmologist in the European Network ERN-PaedCan for Retinoblastoma
- ♦ PhD in Medicine, University of Seville
- ♦ Clinical Tutor of Ophthalmology, Medical Degree, University of Seville

Professors

Dr. Gessa Sorroche, María

- Ophthalmologist at the Virgen Macarena Hospital
- Medical Specialist in Ophthalmology
- Specialist in the Ophthalmology Service of the University Hospital Virgen Macarena (HUVVM) in the Retina and Ocular Oncology Units and in the National Reference Unit (CSUR) for Adult Intraocular Tumors
- Coordinator of the Andalusian Reference Unit (UPRA) for Boston Keratoprosthesis
- Ophthalmology Clinical Tutor
- PhD in Medicine, University of Seville

Dr. Mataix Albert, Beatriz

- Ophthalmology Specialist, Hospital Quirónsalud Sagrado Corazón, Seville
- Medical Specialist in Ophthalmology
- Specialist in the Ophthalmology Service of the University Hospital Virgen Macarena (HUVVM) in the Retina and Ocular Oncology Units and in the National Reference Unit (CSUR) for Adult Intraocular Tumors
- Coordinator of the Andalusian Reference Unit (UPRA) for the Comprehensive Management of Ocular Surface Tumors
- Ophthalmology Clinical Tutor
- PhD in Medicine, University of Granada

Dr. Soto Sierra, Marina

- Ophthalmologist of the Andalusian Ophthalmologic Institute
- Medical Specialist in Ophthalmology
- Specialist in the Ophthalmology Service of the Virgen Macarena University Hospital in the Uveitis and Ophthalmopediatrics-Strabismus Units
- Ophthalmology Clinical Tutor

Dr. Casanovas Mercadal, Pilar

- Medical Ophthalmology at the Virgen Macarena University Hospital
- Medical Specialist in Allergology and Ophthalmology
- Specialist in the Ophthalmology Department of the Virgen Macarena University Hospital (HUVVM)
- Ophthalmology Clinical Tutor

Dr. Parrilla Vallejo, María

- Ophthalmologist subspecialized in Glaucoma at the Virgen Macarena University Hospital
- Medical Specialist in Ophthalmology
- Area Specialist in the Ophthalmology Service of the Virgen Macarena University Hospital (HUVVM), in the Glaucoma and Ocular Oncology Units, and in the National Reference Unit for Adult Intraocular Tumors
- PhD in Medicine, University of Seville
- Tutor of Ophthalmology Resident Interns (MIR)
- Clinical tutor of Ophthalmology in the Degree of Medicine at the University of Seville

Dr. Ángel Morilla, Francisco

- Medical Specialist in Clinical Ophthalmology
- Specialist in the Ophthalmology Department of the Virgen Macarena University Hospital (HUVVM) in the Oculoplasty-Orbit Unit
- Ophthalmology Clinical Tutor
- Postgraduate Diploma in Ophthalmic Surgery by CEU Cardenal Herrera University
- Postgraduate Diploma in Diagnosis and treatment of ophthalmologic pathology at CEU Cardenal Herrera University
- Postgraduate Diploma in Glaucoma and Ophthalmopediatrics, CEU Cardenal Herrera University
- Postgraduate Diploma in Retina and uveitis, CEU Cardenal Herrera University

Dr. Domínguez Serrano, Francisco de Borja

- ♦ Medical Specialist in Ophthalmology
- ♦ Specialist Area Practitioner (FEA) in the Ophthalmology Service, Virgen Macarena University Hospital (HUVM)
- ♦ Ophthalmologist in the Retina and Ocular Oncology Units of the HUVM
- ♦ Ophthalmologist at the National Reference Unit (CSUR) for Adult Intraocular Tumors
- ♦ Clinical Tutor of Ophthalmology of the Medicine Degree at the University of Seville

Dr. Caro Magdaleno, Manuel

- ♦ Medical Specialist in Ophthalmology of the Virgen Macarena University Hospital
- ♦ Medical Specialist in Ophthalmology
- ♦ Specialist in the Ophthalmology Department of the Virgen Macarena University Hospital (HUVM) of the Cornea-Eye Surface Unit
- ♦ Coordinator of the Andalusian Reference Unit (UPRA) for Confocal Microscopy of the Anterior Pole
- ♦ Member of the of the RICORS Research Network for Inflammatory Diseases of the Instituto de Salud Carlos III
- ♦ Associate Professor in Ophthalmology
- ♦ PhD in Medicine, University of Seville





Dr. Gómez Escobar, Antonio José

- ♦ Medical Specialist in Ophthalmology
- ♦ Medical Specialist in Geriatrics and Ophthalmology
- ♦ Specialist in the Ophthalmology service of the Virgen Macarena University Hospital, for the Macula and Ocular Oncology units, and the National Reference Unit (CSUR) for Adult Intraocular Tumors
- ♦ Ophthalmology Resident Medical Interns (MIR) Tutor
- ♦ Ophthalmology Clinical Tutor

Dr. Díaz Ruiz, María Concepción

- ♦ Medical Ophthalmology at the Virgen Macarena University Hospital
- ♦ Medical Specialist in Ophthalmology
- ♦ Specialist in the Ophthalmology Service of the Virgen Macarena University Hospital (HUVH) , in the Oculoplasty-Orbit and Ocular Oncology Units, and in the National Reference Unit (CSUR) for Adult and Childhood Intraocular Tumors
- ♦ Member of the European Network ERN-PaedCan for Retinoblastoma
- ♦ Co-coordinator of Andalusian Reference Unit (UPRA) for the Integral Management of the Anophthalmic Cavity and the Andalusian Reference Unit (UPRA) for Graves' Orbitopathy
- ♦ Ophthalmology Clinical Tutor

04

Structure and Content

The academic program of this postgraduate course has been carefully designed to provide a rigorous and complete update in the field of Ocular Oncology in a period of only 6 months. All this is contained in a syllabus prepared by experts in this area of Medicine and with high quality didactic material. In this way, graduates can be updated on Ocular Oncology and the latest advances in diagnostic and therapeutic techniques to treat the most common tumors in patients of different ages.





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A syllabus with the most up-to-date strategies to address Palpebral, Tear Duct and Orbital Tumors”

Module 1. Ocular Oncology

- 1.1. Epidemiological Aspects of Ocular Tumors
 - 1.1.1. Definition of Neoplasms
 - 1.1.2. Risk Factors
 - 1.1.3. Epidemiology
- 1.2. Classification of Ocular Neoplasms
 - 1.2.1. According to Main Location
 - 1.2.2. According to Histological Subtype
 - 1.2.3. According to Age
- 1.3. Tumorigenesis
 - 1.3.1. Etiology of Cancer
 - 1.3.2. Immunology
 - 1.3.3. Genetics
- 1.4. Complementary Tests I
 - 1.4.1. Anterior Pole Imaging
 - 1.4.2. Retinography
 - 1.4.3. Wide Field Imaging
- 1.5. Complementary Tests II
 - 1.5.1. Fluorescein Angiography
 - 1.5.2. Indocyanine Green Angiography
 - 1.5.3. Autofluorescence
- 1.6. Complementary Tests III: Optical Coherence Tomography (OCT)
 - 1.6.1. Anterior Pole OCT
 - 1.6.2. Posterior Pole OCT
 - 1.6.3. Angio-OCT
- 1.7. Complementary Tests IV: Ultrasound
 - 1.7.1. Ultrasonic Biomicroscopy (BMU)
 - 1.7.2. Ocular Ultrasonography
 - 1.7.3. *Doppler* Ultrasound
- 1.8. Complementary Tests V: Orbit and Extension Study
 - 1.8.1. Computerized Axial Tomography (CAT)
 - 1.8.2. Positron Emission Tomography (PET) - CT Scan
 - 1.8.3. Magnetic Resonance Imaging (MRI)

- 1.9. Biopsies in Ocular Oncology
 - 1.9.1. Criteria for Taking Biopsies
 - 1.9.2. Technique in Orbit and Ocular Surface Neoplasms.
 - 1.9.3. Technique in Intraocular Neoplasms
- 1.10. Treatments Used in Ocular Oncology
 - 1.10.1. Chemotherapy
 - 1.10.2. Radiotherapy
 - 1.10.3. Surgical Treatments

Module 2. Palpebral, Tear Duct and Orbital Tumors

- 2.1. Benign Palpebral Tumors
 - 2.1.1. Classification
 - 2.1.2. Epidemiology
 - 2.1.3. Clinicopathological Characteristics
- 2.2. Premalignant Palpebral Tumors
 - 2.2.1. Classification
 - 2.2.2. Epidemiology
 - 2.2.3. Clinicopathological Characteristics
- 2.3. Malign Palpebral Tumors
 - 2.3.1. Classification
 - 2.3.2. Epidemiology
 - 2.3.3. Clinicopathological Characteristics
- 2.4. Palpebral Lesions Simulating Neoplasia
 - 2.4.1. Classification
 - 2.4.2. Epidemiology
 - 2.4.3. Clinicopathological Characteristics
- 2.5. Medical-surgical Management of Palpebral Tumors
 - 2.5.1. Medical Treatment
 - 2.5.2. Surgical treatment
 - 2.5.3. Complications
- 2.6. Tear Drainage System Tumors
 - 2.6.1. Benign Tumors
 - 2.6.2. Malignant Tumors
 - 2.6.3. Medical- Surgical Management

- 2.7. Benign Orbital Tumors
 - 2.7.1. Classification
 - 2.7.2. Epidemiology
 - 2.7.3. Clinicopathological Characteristics
- 2.8. Malign Orbital Tumors
 - 2.8.1. Classification
 - 2.8.2. Epidemiology
 - 2.8.3. Clinicopathological Characteristics
- 2.9. Orbital Lesions Simulating Neoplasia
 - 2.9.1. Classification
 - 2.9.2. Epidemiology
 - 2.9.3. Clinicopathological Characteristics
- 2.10. Medical-surgical Management of orbital Tumors
 - 2.10.1. Medical Treatment
 - 2.10.2. Surgical treatment
 - 2.10.3. Complications

Module 3. Tumors of Ocular Surface and Cornea

- 3.1. Anatomy
 - 3.1.1. Anatomy of the Conjunctiva
 - 3.1.2. Vascularization
 - 3.1.3. Innervation
- 3.2. Non-pigmented Tumors I
 - 3.2.1. Squamous Neoplasm of the Ocular Surface (SNOS)
 - 3.2.2. Lymphoid Hyperplasia
 - 3.2.3. Lymphomas
- 3.3. Non-pigmented Tumors II
 - 3.3.1. Dermoid Cysts
 - 3.3.2. Papillomas
 - 3.3.3. Pyogenic Granuloma
- 3.4. Pigmented Tumors I
 - 3.4.1. Nevi
 - 3.4.2. Racial Melanocytosis
 - 3.4.3. Primary Acquired Melanocytosis

- 3.5. Pigmented Tumors II
 - 3.5.1. Secondary Acquired Melanocytosis
 - 3.5.2. Melanoma
 - 3.5.3. Simulating Injuries
- 3.6. Diagnosis I
 - 3.6.1. Slit Lamp Examination
 - 3.6.2. Impression Cytology
 - 3.6.3. Anterior Segment OCT
- 3.7. Diagnosis II
 - 3.7.1. Angio-OCT
 - 3.7.2. Confocal Microscopy
 - 3.7.3. BMU
- 3.8. Medical Treatment
 - 3.8.1. Mitomycin C Eyedrops
 - 3.8.2. 5-fluorouracil Eyedrops
 - 3.8.3. Interferon Eyedrops
- 3.9. Surgical treatment
 - 3.9.1. Biopsy / *non touch* technique
 - 3.9.2. Indications
 - 3.9.3. Contraindications
- 3.10. Prognosis
 - 3.10.1. Complications
 - 3.10.2. Recurrence
 - 3.10.3. Survival



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 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 Diploma in Ocular Oncology guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.





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

This **Postgraduate Diploma in Ocular Oncology** contains the most complete and up-to-date scientific program on the market.

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

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

Title: **Postgraduate Diploma in Ocular Oncology**

Official N° of hours: **450 h.**



*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.



Postgraduate Diploma Ocular Oncology

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

Postgraduate Diploma Ocular Oncology

