



## Postgraduate Diploma

Intraocular Tumors in Adults

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

We b site: www.techtitute.com/in/medicine/postgraduate-diploma/postgraduate-diploma-intraocular-tumors-adults

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### tech 06 | Introduction

Intraocular Tumors can affect different parts of the eye, such as the iris, choroid, retina and ciliary body. In addition, they may present in different forms, from pigmented lesions to vascular tumors. Effectively dealing with such tumors in adults requires a detailed and up-to-date knowledge of the available diagnostic techniques and treatments, as well as a thorough understanding of the biology of these tumors and their clinical behavior.

It is in this context that the Postgraduate Diploma in Intraocular Tumors in Adults is presented, a preparation program designed to provide Ophthalmology professionals with a valuable update in this field. The program addresses the main aspects of Ocular Oncology, including epidemiology, risk factors, diagnostic techniques and treatments for the most frequent Intraocular Tumors in adult patients.

In addition, this academic opportunity is presented completely online, allowing students to access the contents from anywhere and at any time, adapting their pace of study to their personal and professional needs. In addition, the pedagogical methodology of Relearning is used, which promotes active and collaborative learning based on a directed reiteration of ideas through dynamic resources such as interactive diagrams, videos in detail or case studies.

This **Postgraduate Diploma in Intraocular Tumors in Adults** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical cases presented by experts in Intraocular Tumors in Adults
- 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



Launch your career as an ophthalmologist by incorporating into your work methodologies the latest advances in treating Intraocular Tumors"



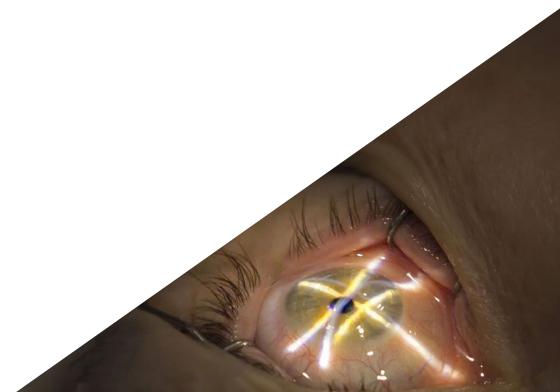
The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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.

Undergo case studies in which you will test your skills in the treatment of pigmented fundus lesions.

You will have everything you need to treat Intraocular Lymphoma with guarantees.







### tech 10 | Objectives

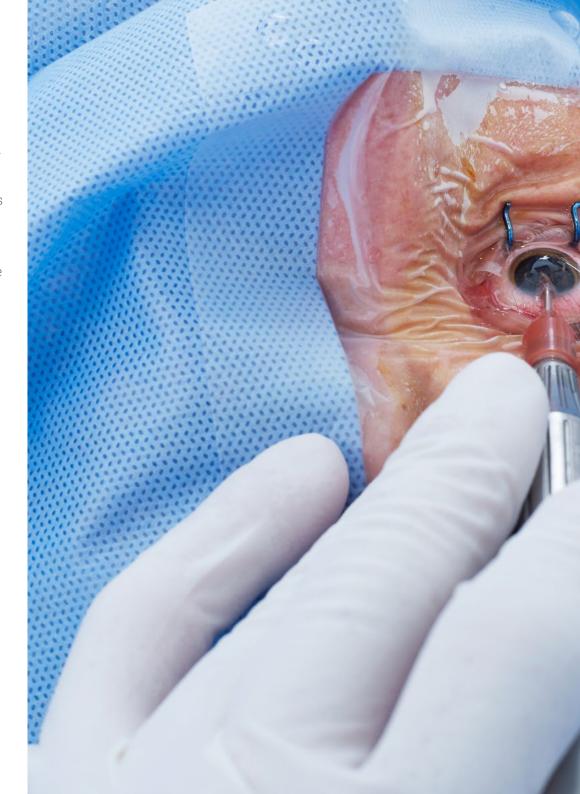


### **General Objectives**

- 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



Perform highly accurate differential diagnosis for the early detection of Retinoblastoma with this Postgraduate Diploma"









### 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. Intraocular Tumors in Adults

- Provide the most up-to-date knowledge about adult intraocular tumors, including their diagnostic-therapeutic approach
- Offer a therapeutic approach and prognostic information to the adult patient with an intraocular tumor

### Module 3. Retinoblastoma

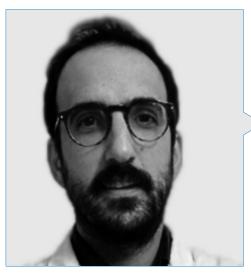
- Further in the knowledge of Retinoblastoma
- Identify the characteristics and forms of presentation of Retinoblastoma
- Offer the tools to be able to make the differential diagnosis with other conditions
- Describe the therapeutic management of patients with Retinoblastoma





### tech 14 | Course Management

### 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. 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. 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. 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 (HUVM), 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. Gómez Escobar, Antonio José

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- 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
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- Ophthalmology Clinical Tutor

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- Member of the European Network ERN-PaedCan for Retinoblastoma
- Ophthalmology Tutor

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- Clinical Tutor of Ophthalmology in Medical Degree

### tech 16 | Course Management

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- Head of Service and Director of the Clinical Management Unit of the Virgen Macarena University Hospital
- Medical Specialist in Ophthalmology
- Specialist in the Ophthalmology Service of the Virgen Macarena University Hospital (HUVM)
- Coordinator of the Andalusian Reference Unit (UPRA) for Rare Eye Diseases
- Coordinator of the HUVM Node of the RICORS Research Network for Inflammatory Diseases of the Instituto de Salud Carlos III
- PhD in Medicine, University of Valladolid

### Dr. Espejo Arjona, Francisco

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- Coordinator of the National Reference Unit (CSUR) for Childhood Intraocular Tumors
- Member of the European Network ERN-PaedCan for Retinoblastoma
- Ophthalmology Clinical Tutor
- PhD in Medicine, University of Seville

### Dr. López Domínguez, Mireia

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- Medical Specialist in Ophthalmology
- Specialist in the Ophthalmology service of the University Hospital Virgen Macarena (HUVM) in the Ophthalmopediatrics-Strabismus and Ocular Oncology units, and in the National Reference Unit (CSUR) for Intraocular Tumors of Childhood
- Ophthalmology Clinical Tutor
- Master in Pediatric Ophthalmology at the Hospital Sant Joan de Déu
- Member of the European Network ERN-PaedCan for Retinoblastoma

### Dr. Fernández-Teijeiro Álvarez, Ana

- Section Chief of the Pediatric Oncohematology Unit of the Virgen Macarena University Hospital
- Medical Specialist in Pediatrics
- Specialist in the Pediatrics Department of the Virgen Macarena University Hospital (HUVM)
- HUVM Node Coordinator European Network ERN-PaedCan Retinoblastoma Network
- President of the Spanish Society of Hematology and Oncology Emergencies(SEHOP)
- Pediatrics Resident Medical Interns (MIR) Mentor
- Pediatrics Clinical Tutor
- PhD in Medicine from the University of the Basque Country





### Dr. Torres García, Francisco Javier

- Medical Specialist in Ophthalmology
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- Member of the European Network ERN-PaedCan for Retinoblastoma
- Ophthalmology Clinical Tutor

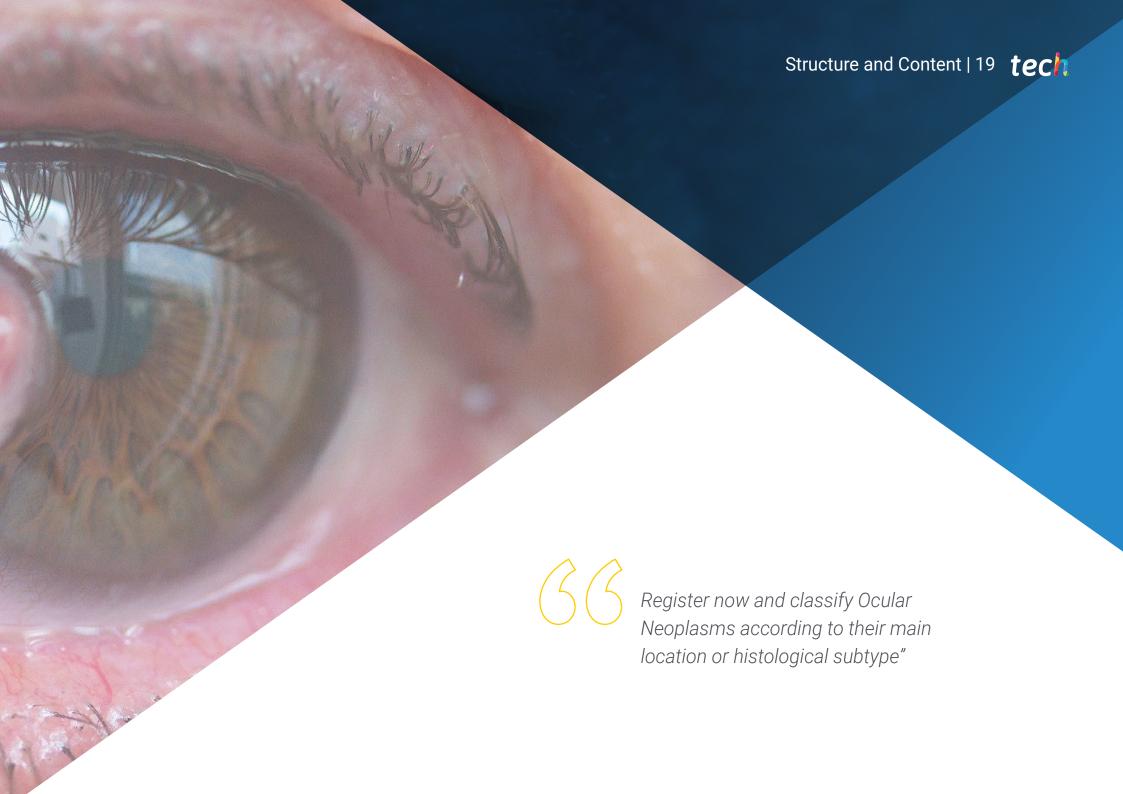
### Dr. Lledó de Villar, María Leticia

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- Ophthalmology Clinical Tutor

### Dr. Infante Cossío, Mónica

- Specialist in Ophthalmology at Virgen Macarena University Hospital
- Medical Specialist in Ophthalmology
- Specialist in the Ophthalmology Service at the Virgen Macarena University Hospital (HUVM) for the Ophthalmopediatrics and Strabismus Unit
- Associate Professor in Ophthalmology
- PhD in Medicine, University of Seville





### tech 20 | Structure and Content

### 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. Tumorogenesis
  - 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



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- 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. Intraocular Tumors in Adults

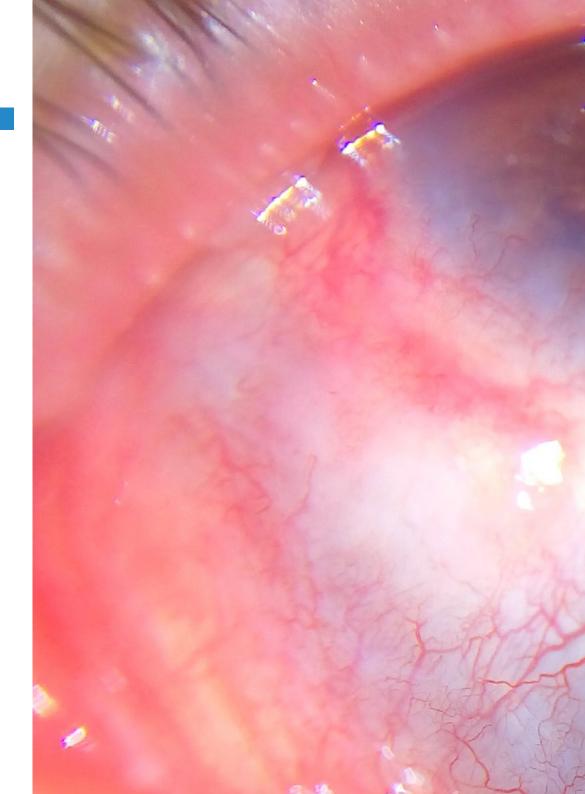
- 2.1. Pigmented Non-tumorous Lesions of the Ocular Fundus
  - 2.1.1. Congenital Hypertrophy of the Retinal Pigment Epithelium
  - 2.1.2. Acquired Hypertrophy of the Retinal Pigment Epithelium
  - 2.1.3. Hyperplasia of the Retinal Pigment Epithelium
- 2.2. Pigmented Lesions of the Fundus
  - 2.2.1. Choroidal Nevus
  - 2.2.2. Melanocytoma
  - 2.2.3. Combined Hamartoma of the Retina and Retinal Pigment Epithelium
  - 2.2.4. Simple Congenital Hamartoma of the Retinal Pigment Epithelium
- 2.3. Suspicious Choroidal Nevus vs. Small Choroidal Melanoma
  - 2.3.1. Definition
  - 2.3.2. Risk Factors for Transformation
  - 2.3.3. Treatment

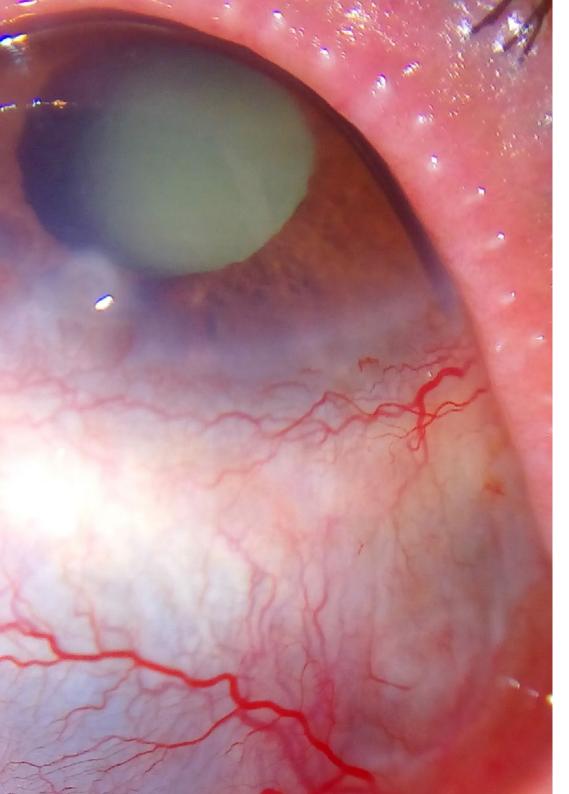
- 2.4. Choroidal Melanoma
  - 2.4.1. Epidemiology
  - 2.4.2. Risk Factors
  - 2.4.3. Prognostic Biomarkers
  - 2.4.4. Diagnostic Techniques
- 2.5. Choroidal Melanoma: Treatment
  - 2.5.1. Brachytherapy and Radiation Retinopathy
  - 2.5.2. Endoresection
  - 2.5.3. Enucleation
- 2.6. Melanoma of the Iris and Ciliary Body
  - 2.6.1. Diagnostic Techniques: BMU
  - 2.6.2. Differential Diagnosis
  - 2.6.3. Treatment
- 2.7. Intraocular Lymphoma
  - 2.7.1. Primary Vitreoretinal Lymphoma
  - 2.7.2. Primary Uveal Lymphoma and Primary Choroidal Lymphoma
  - 2.7.3. Secondary Choroidal Lymphoma
- 2.8. Choroidal Vascular Tumors
  - 2.8.1. Diffuse Choroidal Hemangioma and Sturge-Weber Syndrome
  - 2.8.2. Circumscribed Choroidal Hemangioma
  - 2.8.3. Treatment of Circumscribed Choroidal Hemangioma
- 2.9. Retinal Vascular Tumors
  - 2.9.1. Hemangioblastoma or Retinal Capillary Hemangioma
  - 2.9.2. Retinal Cavernous Hemangioma
  - 2.9.3. Racemose Hemangioma or Arterio-venous Malformations
  - 2.9.4. Vasoproliferative Tumor
- 2.10. Non-pigmented Choroidal tumors
  - 2.10.1. Choroidal Osteoma
  - 2.10.2. Choroidal Metastasis

### tech 22 | Structure and Content

### Module 3. Retinoblastoma

- 3.1. Epidemiology
  - 3.1.1. Introduction
  - 3.1.2. Incidence
  - 3.1.3. Prevalence
  - 3.1.4. Predisposing Factors
- 3.2. Genetics
  - 3.2.1. Rb Gene
  - 3.2.2. Genetic Presentations
  - 3.2.3. Genetic Tests
  - 3.2.4. Genetic Counseling
- 3.3. Clinical Symptoms
  - 3.3.1. Symptoms and Signs
  - 3.3.2. Growth Patterns
  - 3.3.3. Intraocular Seedings
- 3.4. Extraocular Involvement
  - 3.4.1. Trilateral Retinoblastoma
  - 3.4.2. Metastatic Retinoblastoma
  - 3.4.3. Second Tumors
- 3.5. Diagnosis
  - 3.5.1. Clinical Examination
  - 3.5.2. Complementary Tests
  - 3.5.3. Systemic Evaluation and Nuclear Magnetic Resonance Imaging (MRI)
  - 3.5.4. Differential Diagnosis
  - 3.5.5. Classification
- 3.6. Treatment.I: Chemoreduction
  - 3.6.1. Treatment Objectives
  - 3.6.2. Systemic Chemotherapy
  - 3.6.3. Intra-arterial Chemotherapy
  - 3.6.4. Other Chemotherapy Modalities





### Structure and Content | 23 tech

- 3.7. Treatment II: Consolidation and Enucleation
  - 3.7.1. Cryotherapy, Hyperthermia and Photocoagulation
  - 3.7.2. Brachytherapy
  - 3.7.3. Enucleation
- 3.8. Therapeutic Response and Follow-up
  - 3.8.1. Patterns of Tumor Regression
  - 3.8.2. Ophthalmologic Follow-up
  - 3.8.3. Oncologic Follow-up
- 3.9. Complications
  - 3.9.1. Complications Derived from Systemic Treatment
  - 3.9.2. Complications Derived from the Ocular Treatment
  - 3.9.3. Other complications
- 3.10. Visual Development of the Child with Retinoblastoma
  - 3.10.1. Evaluation of the Visual Function of a Child with Retinoblastoma at Diagnosis
  - 3.10.2. Sensory and Motor Exploration
  - 3.10.3. Ophthalmologic Management



You'll only need a PC or Tablet to access the most up-to-date and comprehensive view of Adult Intraocular Tumors you'll find in the academic marketplace"





### tech 26 | Methodology

#### 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.



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:

- 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.



### Methodology | 29 tech

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.









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This **Postgraduate Diploma in Intraocular Tumors in Adults** 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 certificate 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 Intraocular Tumors in Adults**Official N° of Hours: **450 h**.



<sup>\*</sup>Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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

