Postgraduate Certificate
Retinoblastoma

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Postgraduate Certificate
Retinoblastoma

- 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/retinoblastoma

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01

Introduction

Retinoblastoma is a highly curable childhood eye cancer if diagnosed early, but it can lead to blindness and even death if not treated properly. Due to the complexity of the issue and the importance of early diagnosis, it is necessary to have highly trained professionals in the field. Given this, TECH has provided a program focused on Retinoblastoma, this offers specialized training in epidemiology, genetics, diagnosis, treatment and monitoring of the disease. All this, with an innovative teaching methodology and a 100% online platform, which gives the students the necessary flexibility for students to organize their academic resources autonomously, allowing them to study from anywhere and at any time.

Thanks to this Postgraduate Certificate in Retinoblastoma you will obtain in a few weeks the most advanced update in diagnostic and therapeutic procedures in Retinoblastoma"

Retinoblastoma is a malignant ocular tumor that occurs mainly in childhood and is considered one of the most frequent tumors in the pediatric age. Due to its complexity in terms of diagnosis and treatment, it is necessary that health professionals have specialized information in this area. That is why TECH presents the Postgraduate Certificatem in Retinoblastoma, which seeks to deepen the knowledge of this type of ocular tumor and its treatment. This, taking into account that, at present, the disease represents an important challenge for health professionals, especially for ophthalmologists and pediatric oncologists.

Due to the rarity of the tumor, the necessary expertise for its diagnosis and adequate treatment is not always available. For this reason, TECH comprehensively addresses the subject, so that specialists can be updated and offer optimal treatment to patients. Within the program, participants will be able to deepen their knowledge of the epidemiology, genetics, clinical and diagnostic aspects of the disease, as well as the different therapeutic options available, including chemoreduction, consolidation and enucleation. In addition, relevant topics such as therapeutic response, follow-up and possible complications that may occur will be addressed.

The course will be taught 100% online with a theoretical-practical methodology based on the resolution of clinical case studies and the specification of materials such as videos and downloadable materials. Renowned specialists in the field will participate and share their experience and knowledge with the participants. Likewise, the program will provide the students with the availability of time and resources, so that they can complete the different topics of the module whenever they wish.

This **Postgraduate Certificate in Retinoblastoma** 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 medical experts focused on Retinoblastoma
- 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

Become an expert in Retinoblastoma thanks to this Postgraduate Certificate! Discover the secrets of this disease and learn to identify its characteristics and forms of presentation"

An academic option that will lead you to implement the best strategies to address both therapeutic response and a good follow-up"

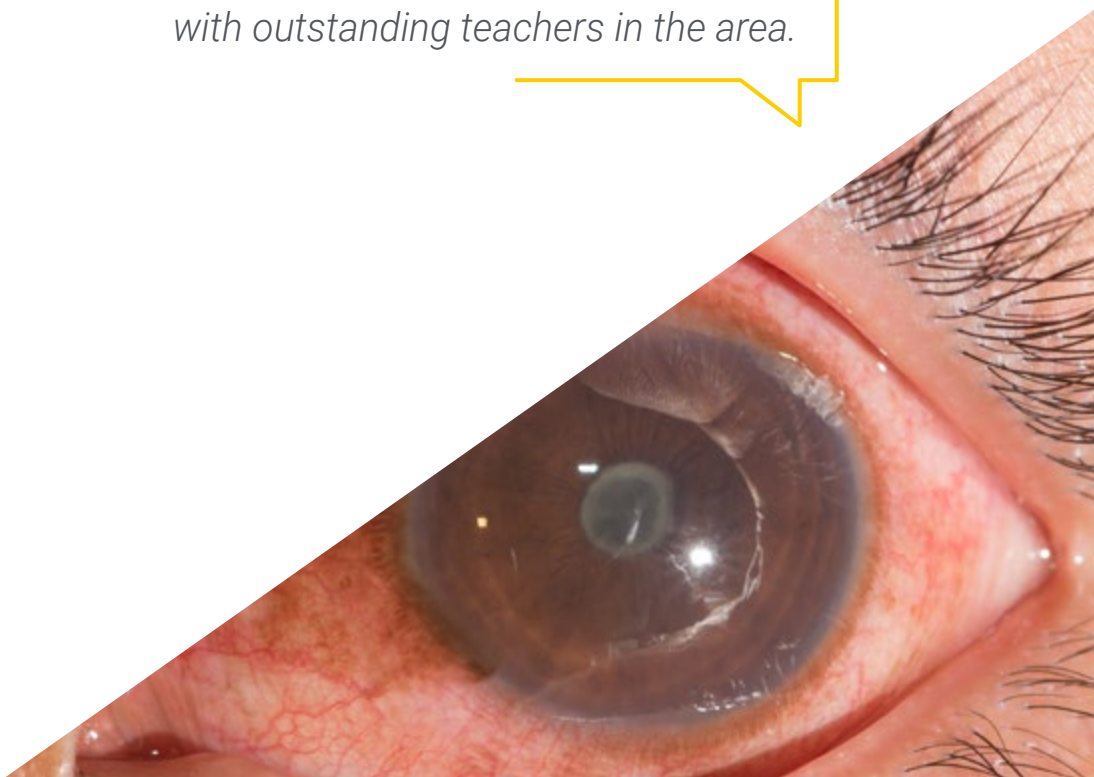
Become an expert in Retinoblastoma with this Postgraduate Certificate. Learn from highly qualified teachers with extensive experience in the area.

Do you want to deepen your knowledge in Retinoblastoma? This Postgraduate Certificate is for you! You will discover the characteristics and forms of presentation of Retinoblastoma with outstanding teachers in the area.

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.



02

Objectives

TECH aims to provide students with a complete and updated training on Retinoblastoma, to achieve this has managed to create an appropriate agenda that delves into its characteristics and forms of presentation, and offering the necessary tools for differential diagnosis with other clinical pictures. In addition, the program seeks to make students aware of the different therapeutic approaches available and know how to apply them effectively in the management of patients with Retinoblastoma. As a result at the end of the program, students acquire a solid and updated knowledge about this disease, so that they can develop a quality clinical practice and contribute to the advancement of the field of ophthalmology.

Thanks to this Postgraduate Certificate you will develop skills to identify the different forms of presentation of Retinoblastoma, knowing its symptoms and clinical signs"

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

Specific Objectives

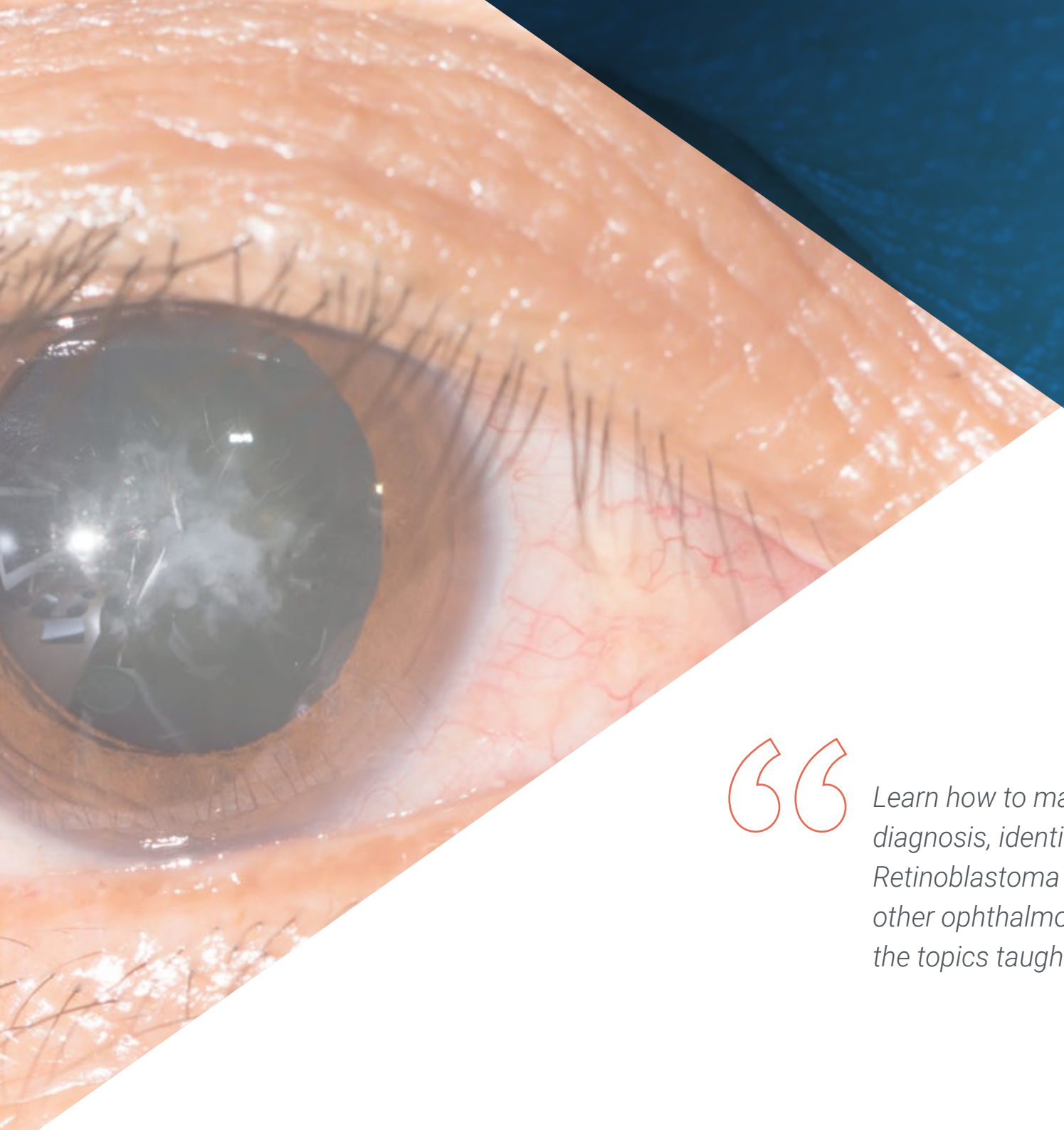
- Further in the knowledge of Retinoblastoma
- Identify the characteristics and forms of presentation of Retinoblastoma
- Offer the tools to be able to make the differential diagnosis with other conditions
- Describe the therapeutic management of patients with Retinoblastoma

Acquire skills for the interpretation of complementary tests, such as Magnetic Resonance Imaging (MRI), which allow a complete systemic evaluation of patients with Retinoblastoma"

03

Course Management

At TECH, the choice of teachers is one of the most important aspects to ensure the quality of the education provided. Therefore, the institution makes sure to have the best professionals in each subject area. In the case of Retinoblastoma, the selected professors have extensive experience in the diagnosis and treatment of this disease, as well as in the research of its causes and possible treatments. In addition, they are required to have solid academic training and a proven ability to transmit their knowledge clearly and effectively to students. This ensures quality education and lays the foundation for a solid and successful professional education in the field of ophthalmology.



Learn how to make an accurate differential diagnosis, identifying the characteristics of Retinoblastoma and differentiating it from other ophthalmologic conditions thanks to the topics taught in this program"

International Guest Director

Dr. Arun Singh is a true international eminence in Ophthalmic Oncology, a field to which he has dedicated more than three decades of his professional career. His career has been focused on research and treatment of eyelid and conjunctival tumors. He has also delved into pathologies such as Retinoblastoma and Uveal Melanoma.

For his exceptional clinical career, this expert has been recognized by both the Royal College of Ophthalmologists in the United Kingdom and the American Board of Ophthalmology in the United States. In addition, he has received a Career Achievement Award. These distinctions, which underline his excellence, are also endorsed by his prolific scientific work, with more than 160 articles in journals of high academic impact.

Another of his important contributions to this medical specialty has been the book Clinical Ophthalmic Oncology, considered an essential reference text for experts and professionals in training. His work as Editor of the prestigious British Journal of Ophthalmology is also noteworthy.

His excellent healthcare praxis has allowed him to take on challenges such as leading the Department of Ophthalmic Oncology at the Cleveland Clinic in Ohio, USA. From that position he has dedicated extensive efforts to the study of other ocular pathologies and, in turn, collaborates with the Pediatric Program of Uncommon Cancers and Blood Diseases.

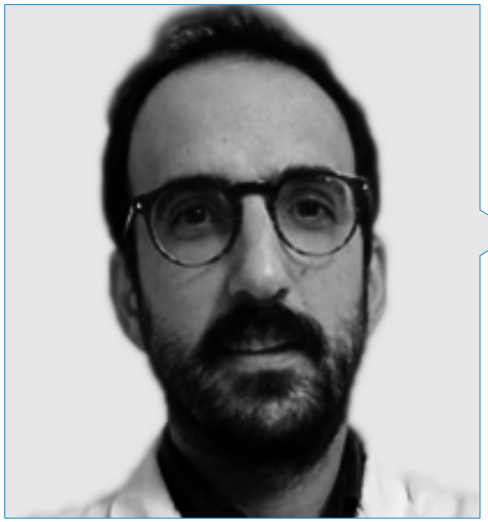
As for his training, Dr. Singh began his medical education in India, at the Jawaharlal Institute and Mandras University. Subsequently, he developed internships and fellowships at the University of Florida, as well as completed his internship at St. Luke's Hospital in Bethlehem. He completed his specialization in Ocular Oncology at Wills Eye Hospital in Philadelphia. He has also been linked to highly reputable international organizations such as the Association for Research in Vision and Ophthalmology.

Dr. Singh, Arun

- Director, Department of Ophthalmic Oncology, Cleveland Clinic, Ohio, USA
- Editor of the British Journal of Ophthalmology
- Editor of the academic book Clinical Ophthalmic Oncology
- Specialist in Ophthalmology from the University of Florida
- Internships at Watford General and St. Luke's Hospitals, Watford, Florida
- Graduate of Medicine and Surgery from the Jawaharlal Institute and the University of Mandras
- Member of: International Association for Research in Vision and Ophthalmology, International Society of Ocular Oncology, American Academy of Ophthalmology ,Royal College of Ophthalmologists of London, UK , Royal College of Surgeons of Edinburgh, UK

Thanks to TECH, you will be able to learn with the best professionals in the world"

Management

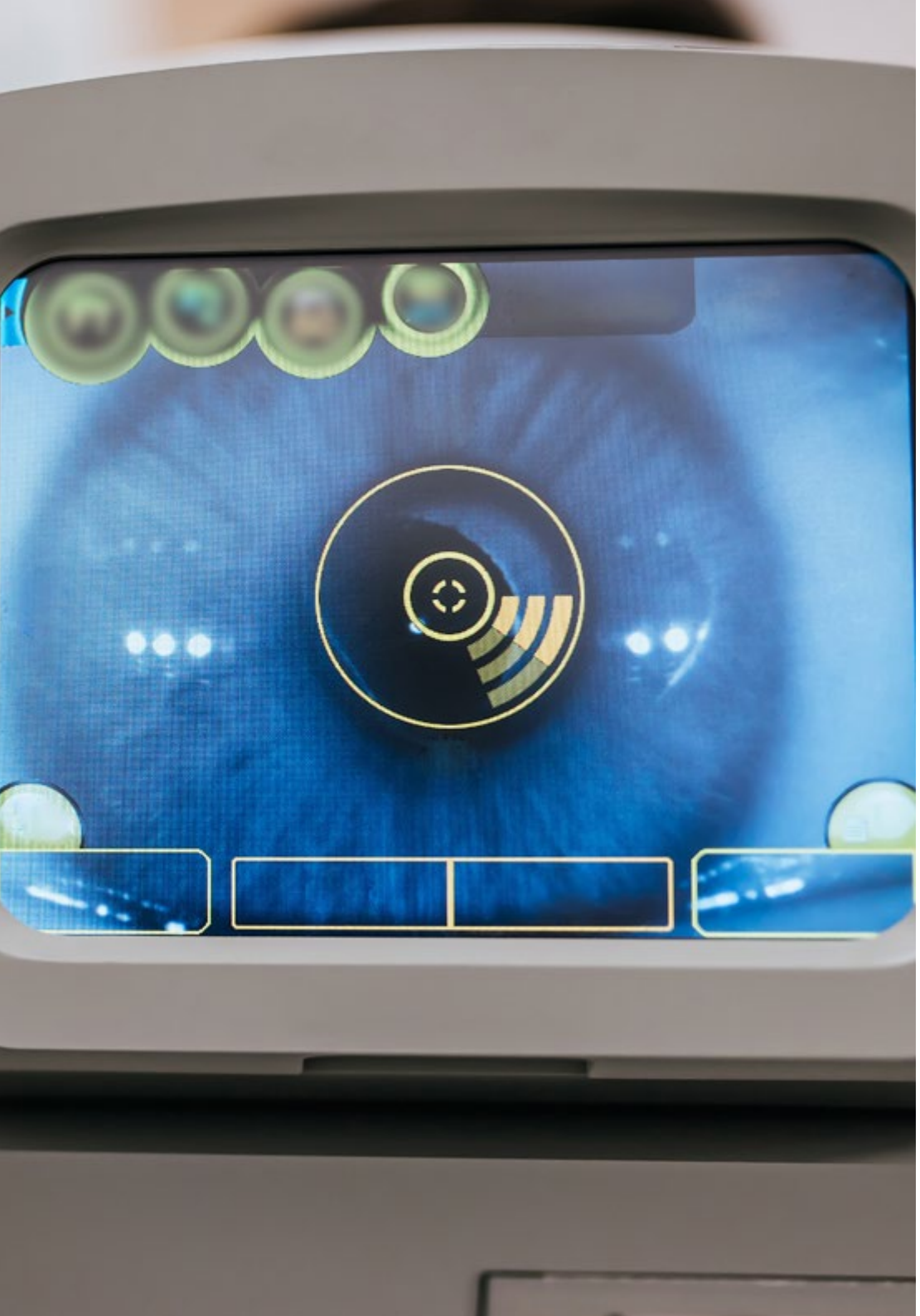


Dr. Garrido Hermosilla, Antonio Manuel

- 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. Espejo Arjona, Francisco

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

Dr. López Domínguez, Mireia

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

Dr. Lledó de Villar, María Leticia

- Ophthalmologist at the Virgen Macarena University Hospital
- Medical Specialist in Ophthalmology
- Specialist in the Ophthalmology Department of the Virgen Macarena University Hospital (HUVM)
- PhD in Medicine, University of Seville
- Ophthalmology Clinical Tutor

Dr. Infante Cossío, Mónica

- Specialist in Ophthalmology at Virgen Macarena University Hospital
- Medical Specialist in Ophthalmology
- Specialist in the Ophthalmology Department of the Virgen Macarena University Hospital (HUVM)
- Associate Professor in Ophthalmology
- PhD in Medicine, University of Seville

04

Structure and Content

The structure of the Postgraduate Certificate in Retinoblastoma is organized in a module that addresses the most relevant aspects of this ocular disease. Among the topics covered are the epidemiology, genetics, clinical and diagnosis of Retinoblastoma, as well as the available treatments and the possible complications derived from them. In addition, TECH's pedagogical methodology, Relearning and the easy access that students will have to organize academic resources are fundamental aspects of this program, which is taught 100% online. In conclusion, students will be able to acquire knowledge and skills for the diagnosis and treatment of Retinoblastoma through a virtual platform, with access to didactic material and interactive activities to reinforce their learning.

Broaden your working horizons and specialize your career in the area of ophthalmology, learning about one of the most relevant and complex pathologies of the specialty"

Module 1. Retinoblastoma

1.1. Epidemiology
- 1.1.1. Introduction
- 1.1.2. Incidence
- 1.1.3. Prevalence
- 1.1.4. Predisposing Factors

1.2. Genetics
- 1.2.1. Rb Gene
- 1.2.2. Genetic Presentations
- 1.2.3. Genetic Tests
- 1.2.4. Genetic Counseling

1.3. Clinical Symptoms
- 1.3.1. Symptoms and Signs
- 1.3.2. Growth Patterns
- 1.3.3. Intraocular Seedings

1.4. Extraocular Involvement
- 1.4.1. Trilateral Retinoblastoma
- 1.4.2. Metastatic Retinoblastoma
- 1.4.3. Second Tumors

1.5. Diagnosis
- 1.5.1. Clinical Examination
- 1.5.2. Complementary Tests
- 1.5.3. Systemic Evaluation and Nuclear Magnetic Resonance Imaging (MRI)
- 1.5.4. Differential Diagnosis
- 1.5.5. Classification

1.6. Treatment.I: Chemoreduction
- 1.6.1. Treatment Objectives
- 1.6.2. Systemic Chemotherapy
- 1.6.3. Intra-arterial Chemotherapy
- 1.6.4. Other Chemotherapy Modalities

1.7. Treatment II: Consolidation and Enucleation
  1.7.1. Cryotherapy, Hyperthermia and Photocoagulation
  1.7.2. Brachytherapy
  1.7.3. Enucleation
1.8. Therapeutic Response and Follow-up
  1.8.1. Patterns of Tumor Regression
  1.8.2. Ophthalmologic Follow-up
  1.8.3. Oncologic Follow-up
1.9. Complications
  1.9.1. Complications Derived from Systemic Treatment
  1.9.2. Complications Derived from the Ocular Treatment
  1.9.3. Other complications
1.10. Visual Development of the Child with Retinoblastoma
  1.10.1. Evaluation of the Visual Function of a Child with Retinoblastoma at Diagnosis
  1.10.2. Sensory and Motor Exploration
  1.10.3. Ophthalmologic Management

Get trained in one of the most challenging and exciting areas of ophthalmology, with a 100% online program that allows you to organize your academic resources according to your needs and time availability"

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.

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:

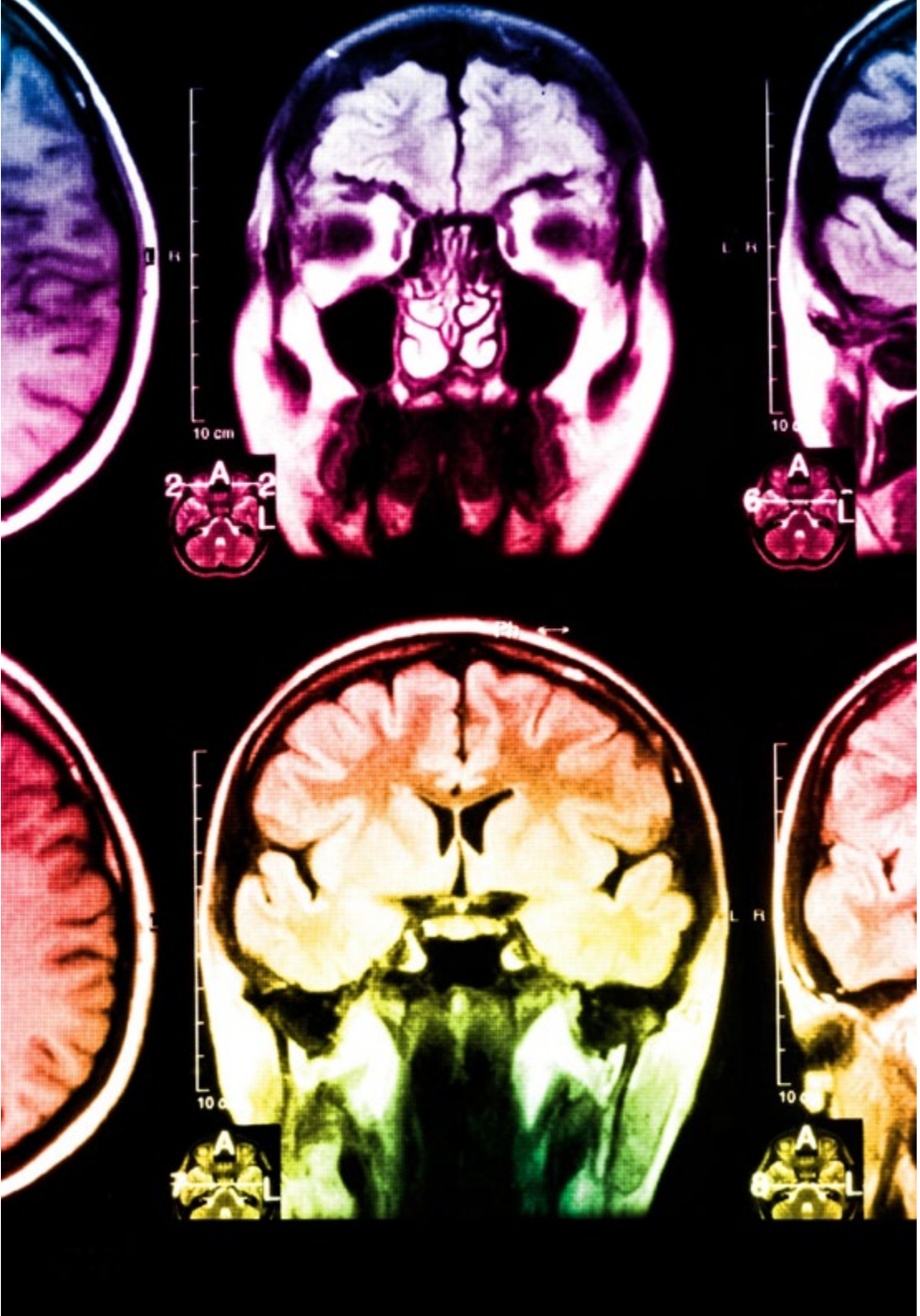
1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better 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.

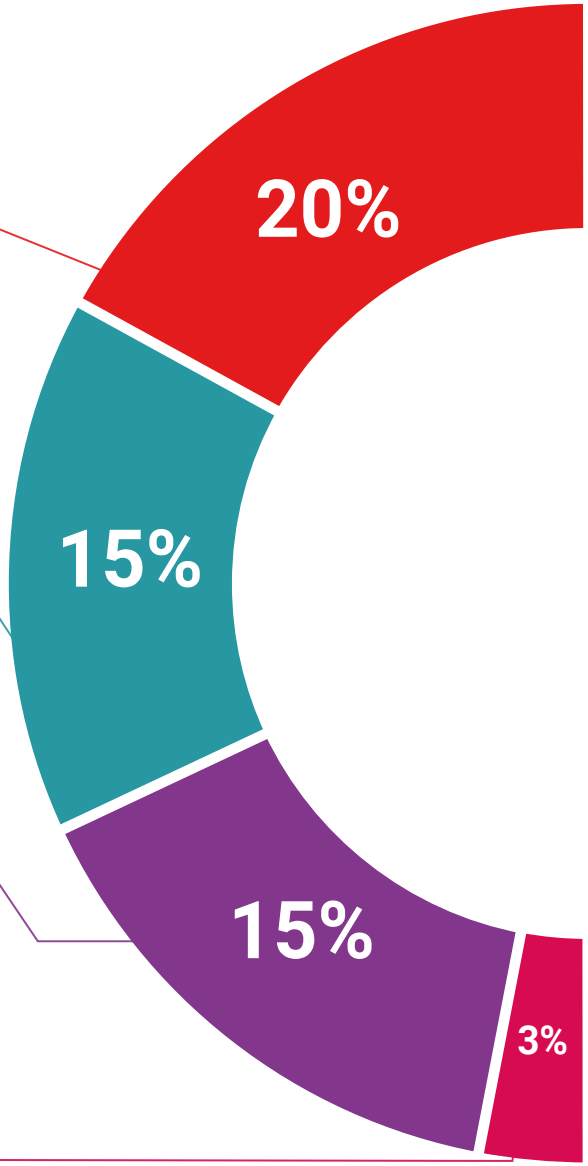
Interactive Summaries

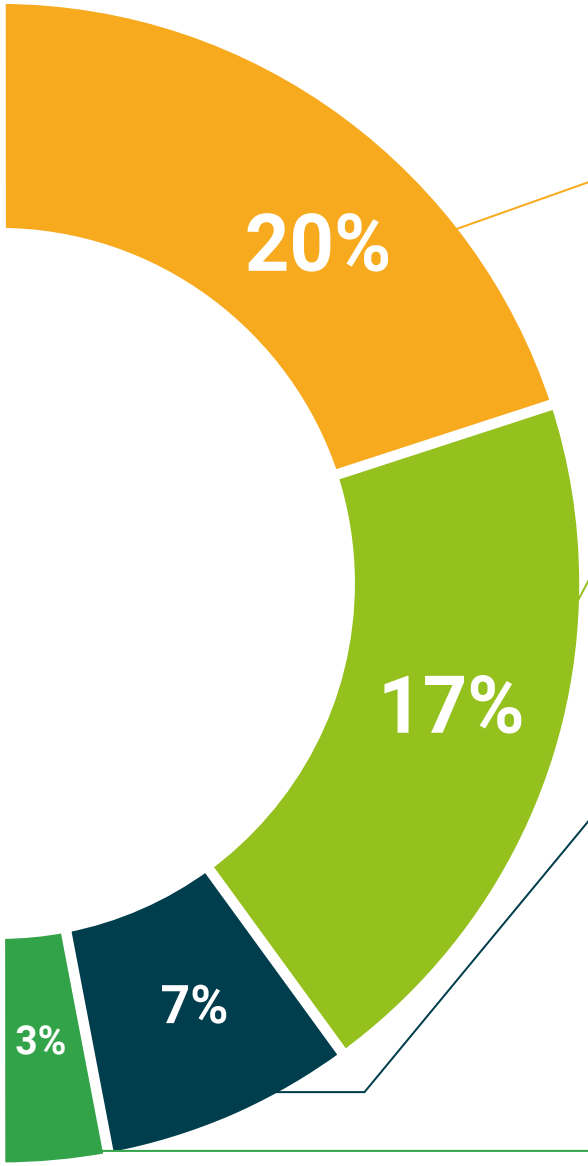
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

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 Retinoblastoma** 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 Retinoblastoma**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**


tech global university

Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Postgraduate Certificate in Retinoblastoma

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Rector

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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