

Postgraduate Certificate

Retinal, Choroid, and Vitreous Tumor Pathology





Postgraduate Certificate Retinal, Choroid, and Vitreous Tumor Pathology

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 5 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/retinal-choroid-vitreous-tumour-pathology

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01

Introduction

Acquire superior training in retinal, choroid, and vitreous tumor pathology and face these cases in your practice with total safety, making early and accurate diagnoses with which you can perform quick interventions on your patients to improve their visual health. For this purpose, we offer you this complete academic program developed by leading experts in the field.





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A unique study opportunity with which to increase your training in the field of ophthalmology”

Units for the comprehensive treatment of tumors in ophthalmology are very scarce and, therefore, this has an impact on the training of new professionals. In order to improve their training, at TECH we have designed this Postgraduate Certificate, which delves into the ways of exploring tumors and goes through the possible differential diagnoses that may occur. Thus, from retinoblastoma in childhood, vascular tumors, phakomatosis, metastases, and other retinal tumors are analyzed in detail.

In addition, choroidal tumors, with choroidal melanoma in the lead, are discussed in depth, so that the visualization of an intraocular mass by the student is no longer a source of stress, but a source of interest.

Choroidal melanomas are studied comprehensively, with the detail of brachytherapy, which is paramount in their treatment at present. On some occasions, both surgery and enucleation are mandatory. Genetics, likewise, has become a fundamental factor in knowing the patient's vital prognosis, an issue that is also detailed in this program, along with other important pathologies that can be found in the ophthalmologist's office.

The training program has a teaching staff specialized in ocular pathology and surgery, and who contribute both their practical experience of their day to day in private practice, as well as their long experience of teaching at national and international level. In addition, it has the advantage of being a 100% online training, so the student can decide from where to study and at what time. This way, you will be able to flexibly self-direct your study hours.

This Postgraduate Certificate in Retinal, Choroid, and Vitreous Tumor Pathology contains the most complete and updated educational program in the market. The most important features of the program include:

- ◆ The development of clinical cases presented by experts in ocular pathology and surgery.
- ◆ The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- ◆ The presentation of practical workshops on procedures and techniques.
- ◆ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ◆ Action protocols and clinical practice guidelines, where the most important novelties in the specialty are disseminated.
- ◆ Theoretical lessons, questions to the expert, discussion forums on controversial topics and individual reflection papers.
- ◆ Special emphasis on evidence-based medicine and research methodologies.
- ◆ The availability of access to the contents from any fixed or portable device with Internet connection.



This Postgraduate Certificate is the best option you can find to increase your knowledge in ocular disease and give a plus to your professional career"

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This Postgraduate Certificate is the best investment you can make in a training to update your knowledge in age-related macular degeneration"

It includes in its teaching staff a team of medical professionals, who bring to this training the experience of their work, in addition to recognized specialists belonging to scientific societies of reference.

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 an immersive training experience designed to train for real-life situations.

The design of this program focuses on Problem Based Learning, by means of which the professional will have to try to solve the different situations of professional practice that will arise throughout the academic Postgraduate Certificate. For this purpose, you will have the help of an innovative interactive video system developed by renowned experts in age-related macular degeneration, with extensive teaching experience.

This university 100% online course allow you to study from anywhere in the world. All you need is a computer or mobile device with an internet connection.

Our innovative teaching methodology will allow you to study as if you were dealing with real cases, and therefore increasing your training.



02 Objectives

The Postgraduate Diploma in Retinal, Choroid, and Vitreous Tumor Pathology is oriented to facilitate the performance of the professional dedicated to health with the latest advances and newest treatments in the sector.





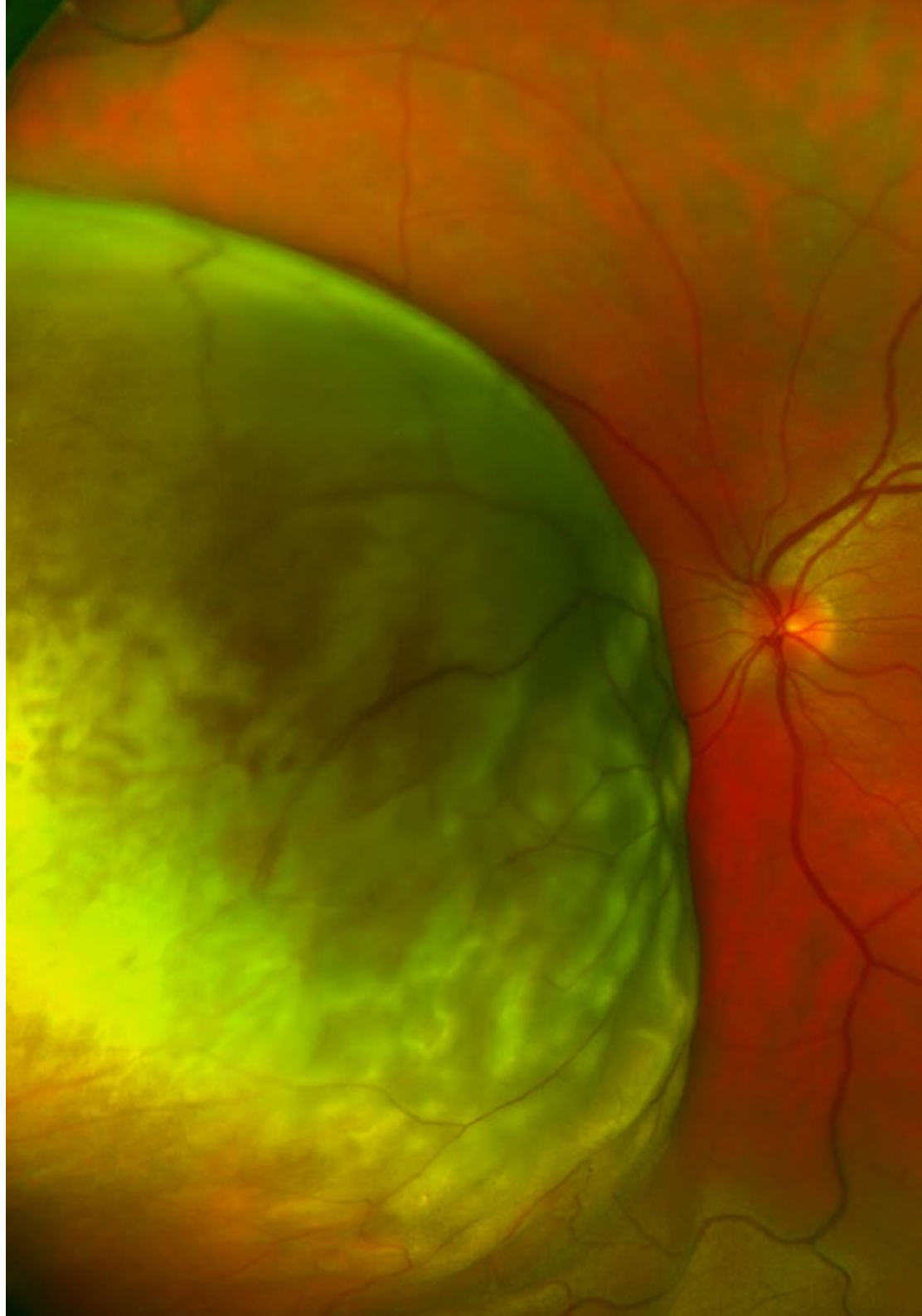
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This training will create a sense of confidence in daily practice and help you to grow professionally”



General Objectives

- ◆ Broaden knowledge of the full extent of retinal, choroid, and vitreous tumor pathology.





Specific Objectives

- ◆ Gain in-depth knowledge about retinal tumors, such as retinoblastoma.
- ◆ Learn about cavernous and racemose hemangioma.
- ◆ Learn more about capillary hemangioblastoma and Von Hippel-Lindau disease.
- ◆ Study tuberous sclerosis and retinal phacomatosis.
- ◆ Know retinal metastases; retinal involvement of paraneoplastic syndromes; melanocytoma; benign congenital hypertrophy of the pigment epithelium; pigment epithelium and retinal hamartoma; choroidal tumors, nevus, melanoma and choroidal metastases; choroidal osteoma; choroidal circumscribed hemangioma; and hematologic tumors.



Our goal is to achieve academic excellence and to help you achieve it too"

03

Course Management

The creation of the materials has been carried out by a team of leading professionals in ophthalmology, who perform their professional activity in the main hospitals in the country, transferring to the program the experience gained in their jobs throughout their careers.





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The best professionals in this area have joined forces to offer you the most specialised and up-to-date knowledge in the field"

Management



Dr. Armadá Maresca, Félix

- ♦ Head of Ophthalmology Service, La Paz University Hospital, Madrid.
- ♦ Doctor of Medicine. Autonomous University of Madrid.
- ♦ Degree in Medicine. Alcalá de Henares University.
- ♦ Director of the Department of Ophthalmology at the San Francisco de Asís University Hospital in Madrid.
- ♦ Certified Ophthalmic Photographer, University of Wisconsin, Madison, USA.
- ♦ The Chalfont Project, Chalfont St Giles, HP8 4XU United Kingdom. Year 2002
- ♦ ESADE - Course in Strategic Management of Clinical Services. 2011.
- ♦ IESE - VISIONA course, clinical management in ophthalmology. 2020.
- ♦ Professor of Medicine at the Alfonso X el sabio University.
- ♦ Lecturer in the Master "Expert in Health Management in Ophthalmology" of the Ministry of Health of the Community of Madrid. 2020.
- ♦ Member of the Madrid Society of Ophthalmology.
- ♦ External Collaborator of Several Companies in the Medical Sector.



Professors

Dr. Asencio Durán, Mónica

- ◆ Ophthalmologist at the Ramón y Cajal University Hospital, on secondment at the La Paz University Hospital.
- ◆ Private Ophthalmologist at “La Paloma” clinic.
- ◆ Speciality in Medical and Surgical Retina, sub-speciality Intraocular Tumours. Cataract surgery. Ocular Pathology in Adults and Children
- ◆ Doctor from the Autonomous University of Madrid
- ◆ Degree in Medicine and Surgery from the University of Alcalá de Henares
- ◆ Specialist in Ophthalmology at University Hospital “La Paz”

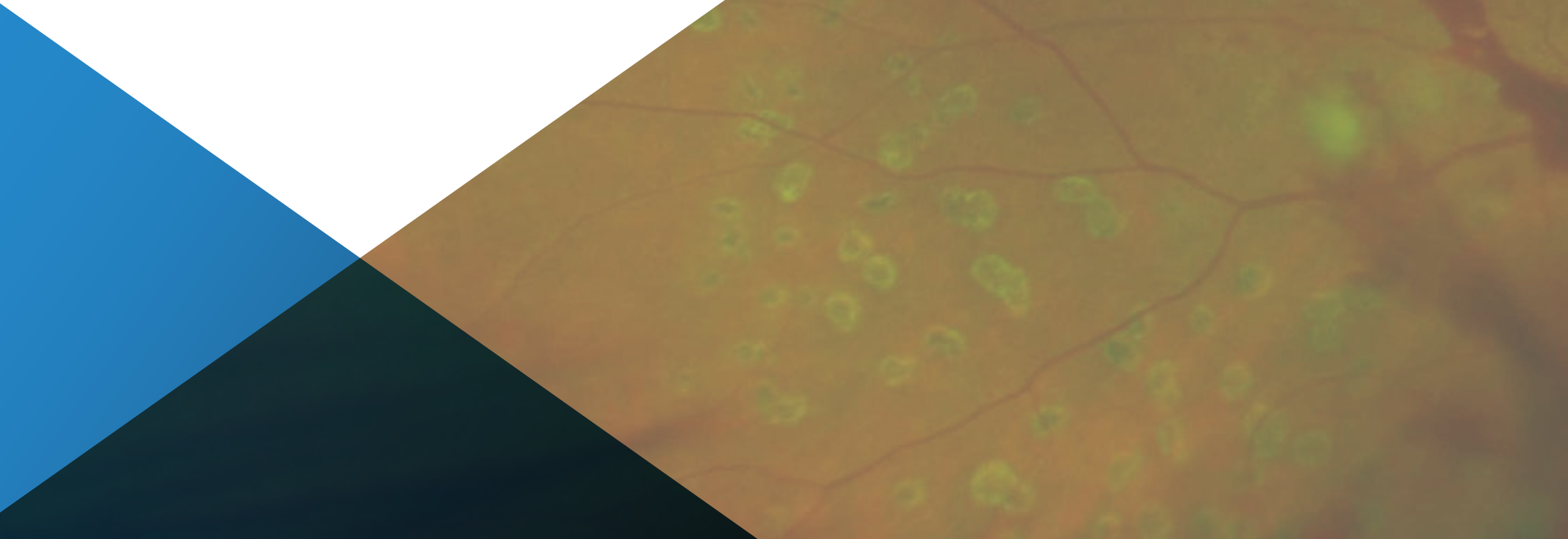


Take the step of training with the best professionals on the current scene. You will gain a competitive advantage in your profession"

04

Structure and Content

The structure of the syllabus has been designed by a team of professionals who are knowledgeable regarding the implications of medical training in the approach to patients, aware of the relevance of current training and committed to quality teaching through new educational technologies.



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This Postgraduate Diploma contains the most complete and up-to-date scientific program on the market”

Module 1. Tumour Pathology of the Retina, Choroid, and Vitreous.

- 1.1. Retinoblastoma.
 - 1.1.1. Definition.
 - 1.1.2. Genetics of Retinoblastoma.
 - 1.1.3. Retinoblastoma Disease. Histopathology.
 - 1.1.4. Presentation, Diagnosis and Exploration, Imaging Techniques for Children.
 - 1.1.5. Differential Diagnosis.
 - 1.1.6. Classification
 - 1.1.7. Retinoblastoma Treatment.
 - 1.1.7.1. Chemotherapy / Chemoreduction / Intra-arterials.
 - 1.1.7.2. Thermotherapy
 - 1.1.7.3. Photocoagulation.
 - 1.1.7.4. Cryotherapy
 - 1.1.7.5. Brachytherapy.
 - 1.1.7.6. External Radiotherapy.
 - 1.1.7.7. Enucleation.
 - 1.1.7.8. Extraocular Retinoblastoma.
 - 1.1.8. Regression Patterns.
 - 1.1.9. Visual Rehabilitation and Prognosis.
- 1.2. Cavernous Hemangioma and Racemose Hemangioma.
 - 1.2.1. Definition.
 - 1.2.2. Clinical Presentation.
 - 1.2.3. Prognosis.
 - 1.2.4. Diagnosis and Histology.
 - 1.2.5. Treatment.
- 1.3. Retinal Capillary Hemangioblastoma and Von Hippel-Lindau Lindau Disease.
 - 1.3.1. Definition.
 - 1.3.2. Clinical Presentation.
 - 1.3.3. Diagnostic Methods.
 - 1.3.4. Differential Diagnosis.
 - 1.3.5. Treatment.
 - 1.3.6. Complications.
 - 1.3.7. Results
- 1.4. Tuberous Sclerosis and its Ophthalmological Pathology.
 - 1.4.1. Definition.
 - 1.4.2. Systemic Manifestations.
 - 1.4.3. Ocular Manifestations
 - 1.4.4. Genetic Studies.
- 1.5. Phacomatosis.
 - 1.5.1. Definition.
 - 1.5.2. Definition of Hamartoma, Choristoma.
 - 1.5.3. Neurofibromatosis (von Recklinghausen Syndrome).
 - 1.5.4. Encephalofacial Hemangiomatosis (Sturge-Weber Syndrome).
 - 1.5.5. Hemangiomatosis Racemose (Wyburn-Mason Syndrome).
 - 1.5.6. Retinal Cavernous Hemangiomatosis.
 - 1.5.7. Phacomatosis Vascular Pigment.
 - 1.5.8. Oculo-dermal Melanocytosis.
 - 1.5.9. Other Phacomatoses.
- 1.6. Retinal Metastases.
 - 1.6.1. Definition.
 - 1.6.2. Systemic Study Following the Finding of a Possible Metastasis.
 - 1.6.3. Eye Study.
 - 1.6.4. Treatment.
- 1.7. Distant Effects of Cancer in the Retina. Paraneoplastic Syndromes
 - 1.7.1. Definition.
 - 1.7.2. Cancer-associated Retinopathy Syndrome.
 - 1.7.3. MAR Cutaneous Melanoma-Associated Retinopathy Syndrome.
 - 1.7.4. Treatment of Paraneoplastic Retinopathies.
 - 1.7.5. Bilateral Diffuse Uveal Melanocytic Diffuse Melanocytic Proliferation.
- 1.8. Melanocytoma of the Optic Nerve.
 - 1.8.1. Definition.
 - 1.8.2. Clinical Findings of Optic Nerve Melanocytoma.
 - 1.8.3. Pathology and Pathogenesis.
 - 1.8.4. Exploration and Diagnostic Approach.
 - 1.8.5. Treatment.

- 1.9. Congenital Hypertrophy of Pigmented Epithelium.
 - 1.9.1. Definition.
 - 1.9.2. Epidemiology and Demography.
 - 1.9.3. Clinical Findings and Classification.
 - 1.9.4. Differential Diagnosis.
- 1.10. Combined Pigment Epithelium and Retinal Hamartoma.
 - 1.10.1. Definition.
 - 1.10.2. Epidemiology.
 - 1.10.3. Clinical Manifestations
 - 1.10.4. Examination in Consultation, Diagnosis.
 - 1.10.5. Differential Diagnosis.
 - 1.10.6. Clinical Course.
 - 1.10.7. Etiology and Pathology.
 - 1.10.8. Histopathology.
 - 1.10.9. Treatment.
- 1.11. Choroidal Nevus.
 - 1.11.1. Definition and Prevalence.
 - 1.11.2. Choroidal Nevus and Systemic Disease.
 - 1.11.3. Histopathology.
 - 1.11.4. Clinical Findings in Consultation.
 - 1.11.5. Differential Diagnosis.
 - 1.11.6. Natural History of Choroidal Nevus.
 - 1.11.7. Observation and Monitoring of Choroidal Nevi.
- 1.12. Choroidal Melanoma.
 - 1.12.1. Epidemiology.
 - 1.12.2. Prognosis and Natural History of Uveal Melanoma.
 - 1.12.3. Molecular Genetics of Choroidal Melanoma.
 - 1.12.4. Pathology of Choroidal Melanoma.
 - 1.12.5. Management and Treatment of Choroidal Melanoma.
 - 1.12.5.1. Enucleation.
 - 1.12.5.2. Brachytherapy for Choroidal Melanoma.
 - 1.12.5.3. Endoresection by Vitrectomy of Choroidal Melanoma.
 - 1.12.5.4. Abexternal Resection of Choroidal Melanoma.
 - 1.12.6.5. Laser in Choroid Treatment, Transpupillary Thermotherapy.
 - 1.12.7.6. Photodynamic Therapy for the Treatment of Uveal Melanoma.
- 1.13. Choroidal Metastases.
 - 1.13.1. Definition.
 - 1.13.2. Incidence and Epidemiology.
 - 1.13.3. Clinical Findings and Exploration.
 - 1.13.4. Differential Diagnosis.
 - 1.13.5. Pathology and Pathogenesis.
 - 1.13.6. Treatment.
 - 1.13.7. Prognosis.
- 1.14. Choroidal Osteoma.
 - 1.14.1. Definition and Epidemiology.
 - 1.14.2. Clinical Findings and Exploration.
 - 1.14.3. Differential Diagnosis.
 - 1.14.4. Pathology and Pathogenesis.
 - 1.14.5. Diagnostic Approach.
 - 1.14.6. Treatment.
 - 1.14.7. Prognosis.
- 1.15. Circumscribed Choroidal Hemangioma.
 - 1.15.1. Definition.
 - 1.15.2. Clinical Presentation.
 - 1.15.3. Diagnostic Methods, AFG, ICG, Ocular Ultrasound, CT and MRI, OCT.
 - 1.15.4. Treatment.
- 1.16. Diffuse Choroidal Hemangioma.
 - 1.16.1. Definition.
 - 1.16.2. Clinical Presentation.
 - 1.16.3. Diffuse Choroidal Hemangioma.
 - 1.16.4. Treatment.
- 1.17. Uveal Tumours.
 - 1.17.1. Ciliary Body Epithelial Tumours. Acquired and Congenital.
 - 1.17.2. Leukemias and Lymphomas. Primary Vitreous Retinal Lymphoma.

05

Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning.***

This teaching system is used 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 Re-learning, 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

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can 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 potential 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 professional medical 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 grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on 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.



Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.



The physician will learn through real cases and by solving 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.



Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



06 Certificate

The Postgraduate Certificate in Retinal, Choroid, and Vitreous Tumor Pathology guarantees you, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate issued by TECH Global University.



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Add to your CV a Postgraduate Certificate in Retinal, Choroid, and Vitreous Tumor Pathology and become a highly competitive professional"

This program will allow you to obtain your **Postgraduate Certificate in Retinal, Choroid, and Vitreous Tumor Pathology** 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 Retinal, Choroid, and Vitreous Tumor Pathology**

Modality: **online**

Duration: **6 weeks**

Accreditation: **5 ECTS**





Postgraduate Certificate
Retinal, Choroid, and Vitreous
Tumor Pathology

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 5 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Retinal, Choroid, and Vitreous Tumor Pathology

