Postgraduate Certificate

Latest Advances in Amblyopia Management

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Postgraduate Certificate

Latest Advances in Amblyopia Management

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

Website: www.techtitute.com/us/medicine/postgraduate-certificate/latest-advances-amblyopia-management

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01

Introduction

Amblyopias are among the main causes of decreased vision in the general population. These appear as an alteration in the development of vision at an early age, affecting not only visual acuity, but also many visual functions. The importance of detecting amblyopia lies in the fact that, if they are not treated, and the sooner the better, they will continue to affect visual function throughout life.

The latest advances in the area of optical technologies and clinical optometry compiled in a highly efficient Postgraduate Certificate that will optimize your effort with the best results"

Amblyopia is caused by the presence of amblyogenic factors (refractive errors, strabismus, deprivation or a combination of factors). Knowledge of the causes and factors in amblyipea is essential to detect them and thus prevent its development or treat it when present.

Continuous training in the latest optometric technologies and treatments is essential in professional updating, preparing to take on jobs that are increasingly integrated into the healthcare system, both public and private.

The Postgraduate Certificate in Latest Advances in Amblyopia Management covers the main fields of action for optometrists, always with the highest level of updating and with a first class teaching staff. The study plan has been designed from the perspective and experience of experts highly specialized in their modules, and immersed in the clinical world, which has led us to know the current and future training challenges.

This Postgraduate Certificate has been clearly and robustly directed to the clinical field, preparing students to develop in this field with extensive theoretical and practical knowledge in optometry.

Students will follow modules, each of them structured in 10 topics. Each topic consists of a theoretical introduction, explanations by the professor, activities, etc., in such a way that learning becomes an enjoyable journey to high-level knowledge in Optical Instrumentation and Clinical Optometry.

In conclusion, this Postgraduate Certificate provides professionals with the theoretical and clinical knowledge necessary to address any of the specialties within Optics and Optometry, as well as opening the door to clinical research.

This **Postgraduate Certificate in Latest Advances in Amblyopia Management** is the most complete and up-to-date scientific program on the market. The most important features of the program include:

- More than 100 clinical cases presented by experts in the different specialities
- 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.
- Developments in the Latest Advances in Amblyopia Management.
- The presentation of hands-on workshops on procedures, diagnostic and therapeutic techniques
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- 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

Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate"

This Postgraduate Certificate in the Latest Advances in Amblyopia Management will help you keep up to date in order to provide comprehensive quality care to patients"

All the necessary methodology for non-specialist medical professionals in the field of clinical optometry, in a specific and concrete Postgraduate Certificate.

We have the best didactic material, an innovative methodology and a 100% online training, which will facilitate your study.

The teaching staff includes professionals from the field of Amblyopia Management, who bring their experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive training experience designed to train for real-life situations.

This program is designed around Problem Based Learning, where the medical professional must try to solve the different professional practice situations that arise during the course. For this purpose, the specialist will be assisted by an innovative interactive video system created by renowned and experienced experts in treating patients in children with extensive experience.

02

Objectives

This Postgraduate Certificate is designed to achieve an effective update of physician knowledge, in order to provide quality care based on the latest scientific evidence that guarantees pediatric patient safety.

If you are looking for success in your profession, we can help you achieve it. We offer you the most complete training on Optical Technologies and Clinical Optometry"

General Objectives

Know the type of visual examination required by an amblyopic patient and the most advanced techniques in their treatment, updating their educational background in order to apply it directly in their daily clinical practice.

Acquire the necessary knowledge to offer quality practice, providing your patients with expert and effective care"

Specific Objectives

- Know in depth the types and characteristics of amblyopia
- Know in depth the visual alterations that occur in the different types of amblyopia
- Learn the visual examination protocol to be performed for the detection and follow-up of amblyopia.
- Present the results of the latest studies on amblyopia.
- Know in depth the treatment protocol to be followed with scientific basis
- Broaden the participant's professional projection, being able to evaluate, diagnose and treat patients with amblyopia, who are currently neglected at times by optometrists.

03

Course Management

The program's teaching staff includes leading experts in Amblyopia Management, who bring the experience of their work to this training. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.

Leading professionals in the field have come together to teach you the latest advances in Amblyopia Management"

Management

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- Postgraduate Diploma in Statistics Applied to Health Sciences
- Optometrist at Clínica Baviera in Palma de Mallorca

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- Doctor of Optometry. University of Houston College of Optometry. Texas, USA 1990-1994.
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04

Structure and Content

The content structure has been designed by a team of professionals who recognize the implications of training in medical practice for Amblyopia Management, who are aware of the current relevance of specialization to be able to treat pediatric patients with urgent pathology, and who are committed to quality teaching through new educational technologies.

This Postgraduate Certificate in the Latest Advances in Amblyopia Management will help you keep up to date in order to provide comprehensive quality care to patients"

Module 1. Latest Advances in the Management of Amblyopia

1.1. General Information
- 1.1.1. Visual Acuity Development
- 1.1.2. Critical Period Vs Plasticity

1.2. Definition

1.3. Types of Amblyopia
- 1.3.1. Refractive Amblyopia
- 1.3.2. Strabismic Amblyopia
- 1.3.3. Deprivation Amblyopia
- 1.3.4. Combination Amblyopia

1.4. Visual Alterations
- 1.4.1. Visual Acuity
- 1.4.2. Contrast Sensitivity
- 1.4.3. Accommodation System
- 1.4.4. Ocular Motility
- 1.4.5. Spatial Localization (Spatial Uncertainty and Distortions)
- 1.4.6. Stacking Effect
- 1.4.7. Suppression and Stereopsis
- 1.4.8. Reading Performance
- 1.4.9. Visuomotor Tasks
- 1.4.10. Neurological Activity and Pupillary Reaction
- 1.4.11. Anatomical Changes

1.5. Visual Acuity
- 1.5.1. Contrast Sensitivity
- 1.5.2. Accommodation System
- 1.5.3. Ocular Motility
- 1.5.4. Spatial Localization (Spatial Uncertainty and Distortions)
- 1.5.5. Stacking Effect
- 1.5.6. Suppression and Stereopsis
- 1.5.7. Reading Performance
- 1.5.8. Visuomotor Tasks
- 1.5.9. Neurological Activity and Pupillary Reaction
- 1.5.10. Anatomical Changes

1.6. Inclusion and Exclusion Assessment and Diagnosis
- 1.6.1. Visual Acuity Evaluation
- 1.6.2. Refractive Status Evaluation
- 1.6.3. Binocular System Evaluation
- 1.6.4. Accommodating System Evaluation
- 1.6.5. Ocular Motility Assessment
- 1.6.6. Ocular Health Assessment

1.7. Refractive Status Correction Treatment Latest Studies
- 1.7.1. Optical Correction to Prescribe
- 1.7.2. Time Required for Effect
- 1.7.3. Effectiveness

1.8. Treatment With Occlusion and Pharmacological Penalty Latest Studies
- 1.8.1. Occlusion
  - 1.8.1.1. Types of Occlusion
  - 1.8.1.2. Occlusion Time
  - 1.8.1.3. Effectiveness
- 1.8.2. Pharmacological Penalty
  - 1.8.2.1. Atropine Dosage
  - 1.8.2.2. Effectiveness
  - 1.8.2.2. Comparison of Treatment With Occlusion Vs Pharmacological Penalty
  - 1.8.2.3. Treatment Compliance
  - 1.8.2.4. Treatment Regression

1.8.3. Treatment With Visual Therapy Latest Studies
- 1.8.3.1. Advantages and Inconveniences
- 1.8.3.2. Monocular Activities
- 1.8.3.3. Near and Far Vision Activities
- 1.8.3.4. Antisuppressive Techniques and Binocular Therapy

1.8.4. Other Current and Future Treatments
- 1.8.4.1. Pharmacological Treatment
- 1.8.4.2. Acupuncture
- 1.8.4.3. Other Future Treatments

1.8.5. Comprehensive Management of the Amblyopia Patient
- 1.8.5.1. Action Protocol
- 1.8.5.2. Follow-up Evaluation
- 1.8.5.3. Check-up Calendar

A unique, key, and decisive training experience to boost your professional development"

05

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career"

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.
The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

"At TECH you will NOT have live classes (which you might not be able to attend)"

The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

> *TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"*

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.

Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.

A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.

> *The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"*

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 assess 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.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

As such, the best educational materials, thoroughly prepared, will be available in this program:

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.

Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.

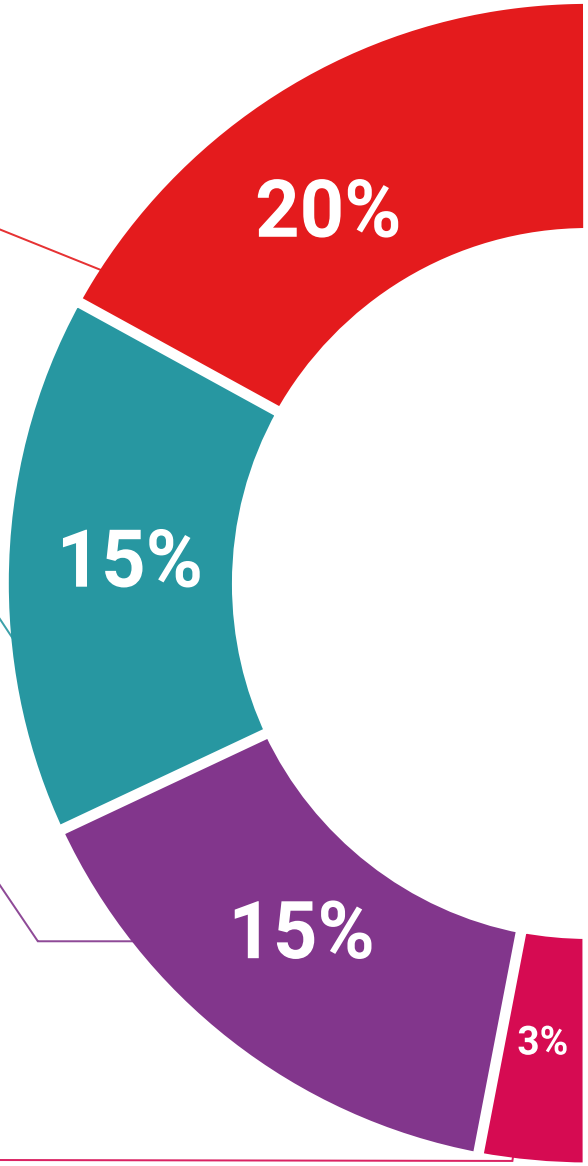
Interactive Summaries

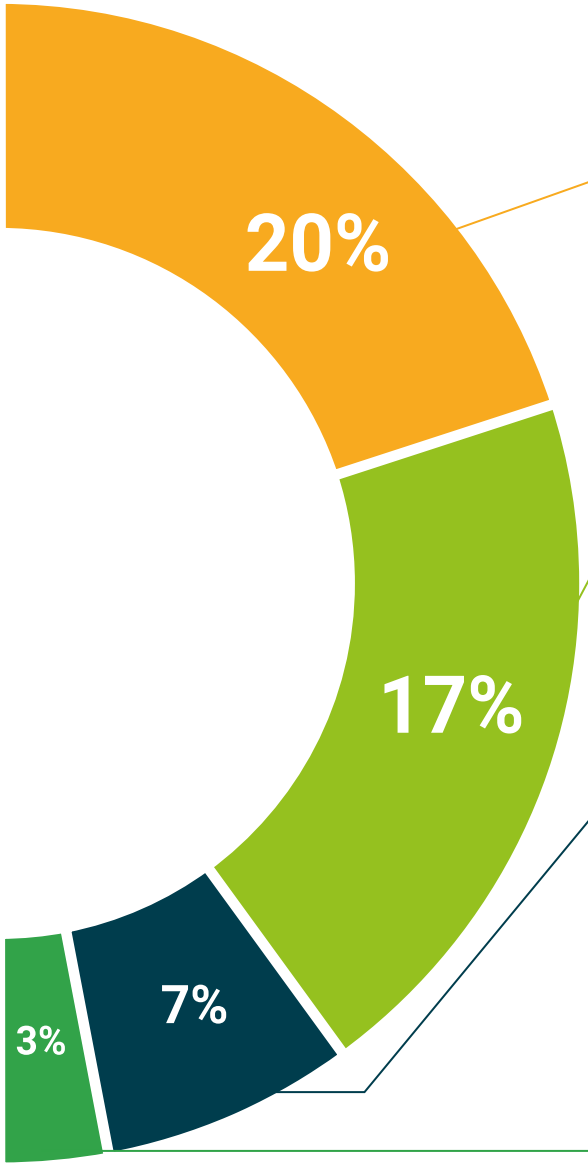
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content 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 education.





Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

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 for 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 the Latest Advances in Amblyopia Management guarantees, in addition to the most rigorous and up-to-date training, access to a qualification issued by TECH Global University.

Successfully complete this training and receive your university degree without travel or laborious paperwork"

This private qualification will allow you to obtain a **Postgraduate Certificate in Latest Advances in Amblyopia Management** 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** private qualification 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 Latest Advances in Amblyopia Management**

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 Latest Advances in Amblyopia Management

This is a private qualification 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
Dean

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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