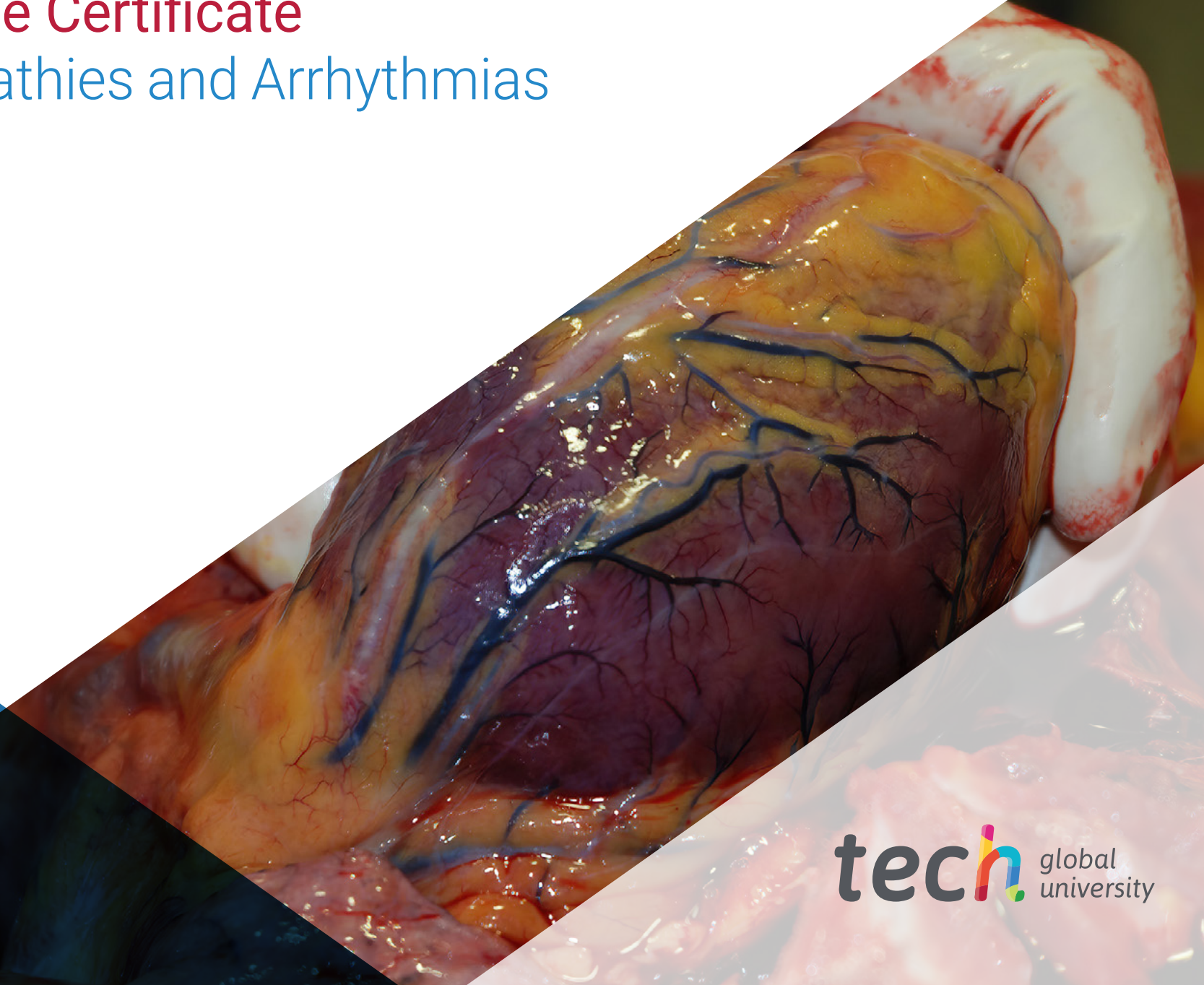


Postgraduate Certificate

Myocardopathies and Arrhythmias





Postgraduate Certificate Myocardopathies and Arrhythmias

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

Website: www.techtute.com/us/medicine/postgraduate-certificate/myocardopathies-arrhythmias

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 18

05

Methodology

p. 22

06

Certificate

p. 30

01

Introduction

The consequences of the different types of cardiomyopathy are varied, from heart failure that can lead to transplantation, to ventricular arrhythmias with a high risk of sudden death. Fortunately, this condition is the subject of much recent research and knowledge of it can help the cardiologist in clinical management. In this context, the following program arises as an opportunity to bring the specialist closer to the latest developments regarding the different types of cardiomyopathies and cardiac amyloidosis. With a modern format, 100% online and endorsed by a group of expert teachers, this program will expand your knowledge and allow you to improve your diagnostic and treatment skills.





“

Thanks to this Postgraduate Certificate you will build a modern and solid perspective on cardiomyopathies that will help you in the clinical management of your patients"

Progress in the knowledge of cardiomyopathies, their types, causes, consequences, treatments and prevention has been very extensive. An example of this is the possibility of limiting the term "Idiopathic" to those in which the myocardium presents a structural problem, something impossible a few years ago. This evolution has led to the development of increasingly sophisticated and effective techniques that allow cardiologists to save thousands of lives every day.

Following this line TECH, in collaboration with the best teaching team composed of experts in cardiac medicine, has brought together in this Postgraduate Certificate the latest developments in cardiomyopathies: clinical trials with a very high effectiveness and the most promising advances in management and treatment. In addition, the program includes a section dedicated exclusively to cardiac Amyloidosis, a pathology that has attracted so much attention in recent years due to its association with cardiac conduction disorders, as well as Atrial Fibrillation and its high risk of embolism.

A journey through this arrhythmia that will allow the specialist to update the most important concepts and learn about the most novel and revolutionary aspects of the sector. TECH not only provides you with quality content, but will also provide you with additional material in multimedia format with which you can continue to specialize in the subject.

The flexibility provided by this online educational program is also favored by the possibility of downloading the content in its entirety from day one, allowing the specialist to consult it from any device and at any time of the day. This is the best opportunity to improve yourself with the best online university in the world.

This **Postgraduate Certificate in Mycardiopathies and Arrhythmias** 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 Cardiology.
- ◆ The 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



In just six weeks you will learn about the most important developments in the sector, allowing you to apply them in your day-to-day life"

“

This program will give you the possibility to deeply understand cardiac Amyloidosis through real clinical cases and high-quality multimedia material"

An online teaching, without schedules or face-to-face classes, perfectly compatible with working life.

You will learn more about the relationship between sudden death and arrhythmogenic cardiomyopathies.

The program includes, in its teaching staff, professionals from the sector who bring to this education the experience of their work, in addition to recognized specialists from prestigious reference societies and universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning. In other words, a simulated environment that will provide immersive education programmed to prepare for real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.



02 Objectives

The most important objective of this Postgraduate Certificate is none other than to provide the specialists with all the necessary tools that will allow them to quickly and easily improve and broaden their knowledge. Through a methodology different from that of other teaching centers, but highly effective, the graduates will be able to complete this program knowing that they have studied the best content, together with an expert teaching staff in Cardiology and that their knowledge is the most advanced and up to date in the field of cardiomyopathies.





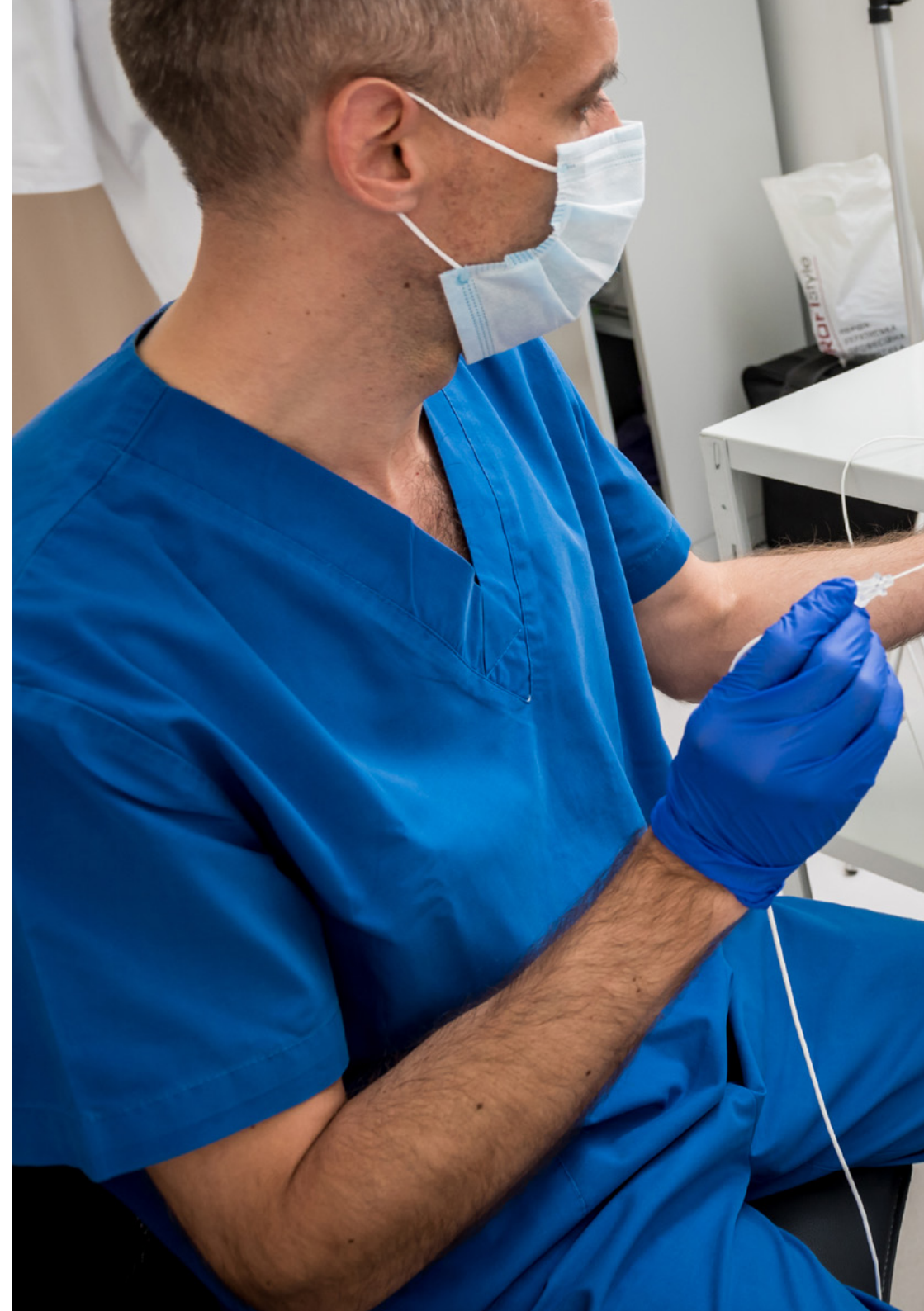
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*TECH provides the tools and content
with which you will reach your goals
in less time than you expect”*



General Objectives

- ◆ Update general knowledge as well as the most innovative aspects of cardiological processes involving cardiac rhythm disorders
- ◆ Delve into the clinical management and indications of the different procedures performed for the diagnosis and treatment of these cardiac conditions
- ◆ Delve into the diagnosis and treatment of arrhythmias based on clinical and electrocardiographic aspects, as well as invasive techniques and electrophysiological studies
- ◆ Broaden knowledge in the operation, monitoring and implantation technique of the main implantable devices used for the treatment of arrhythmias
- ◆ Delve deeper into the problems in cardiac rhythm disorder that can arise across the spectrum of patients
- ◆ Achieve a mastery of the rhythm disorder problems present in the different scenarios faced by the cardiologists in their routine clinical practice





Specific Objectives

- ◆ Review the general aspects of arrhythmias associated with cardiomyopathies
- ◆ Review the characteristics of the most frequent arrhythmias in dilated cardiomyopathy and arrhythmogenic dysplasia
- ◆ Delve into the prevention and management of ventricular arrhythmias, reviewing the indications for ICDs in these pathologies
- ◆ Learn about the role of genetics in this context
- ◆ Review rhythm disorders associated with other less frequent cardiomyopathies

“

Give your career the boost it needs with this Postgraduate Certificate and become an expert in Myocardopathies and Arrhythmias”

03

Course Management

This program is directed, as it could not be otherwise, by a group of specialists in Cardiology, who in addition to dedicating their time to teaching, are actively working in reference hospitals. This provides the Postgraduate Certificate with a realistic vision of the specialty, closer and with a clear component of vocation and quality. Despite being an online program, the graduates will have at their disposal the teaching staff to resolve any questions that may arise during the course of their academic experience with TECH.



A close-up photograph showing a hand with light-colored skin and short, clean nails resting on the forearm of another person. The skin on the arm is fair and has some fine hair. The background is a solid blue color with a subtle pattern of small white dots.

“

You will have daily personalized tutorials that will allow you to share and discuss with our group of experts your feedback on the content"

International Guest Director

Awarded the “Outstanding Patient Experience Award” on multiple occasions for his excellence in patient care, Dr. Konstantinos Aronis has become a prestigious **Cardiac Electrophysiologist**. In this sense, his clinical specialty is based on the **Invasive Management of Arrhythmias** in patients suffering from **Adult Congenital Heart Disease**.

He has developed his professional work in health institutions of international reference, including the **Johns Hopkins Hospital** in Maryland or the **Beth Israel Deaconess Medical Center** in Massachusetts. In this way, he has contributed to optimizing the quality of life of numerous individuals suffering from diseases ranging from **Atrial Fibrillation** or **Ventricular Tachycardia** to **Structural Malformations of the heart**. To do so, he has employed a variety of advanced technological tools such as **Computational Modeling**, **Holder Monitors** and even **Magnetic Resonance Imaging**.

Among his main contributions, he has promoted the **Complex Ablation Program for Congenital Heart Diseases**. This has consisted in the use of **computed tomography** images to create **3D printed models** of hearts with complicated anatomies, which has made it possible to plan medical interventions with greater precision and efficiency. It has also carried out the first **intraoperative excision** for **Atrial Tachycardia**, performing the procedure in real time during cardiac surgery. This innovation made it possible to address cardiac rhythm disturbances that could not be treated conventionally without damaging nearby critical structures.

On the other hand, he balances this work with his role as a **Clinical Researcher** in Cardiac Electrophysiology. In fact, he has published numerous **scientific articles** in high-impact specialized journals. His clinical findings have contributed to the advancement of the knowledge of health professionals in areas such as **Atrial Fibrillation**, **Resynchronization** therapies or personalized **Cardiac Prototypes**.



Dr. Aronis, Konstantinos

- Physician at Johns Hopkins Hospital, Maryland, United States
- Cardiovascular Disease and Clinical Cardiac Electrophysiology Investigator at Johns Hopkins Hospital
- Translational Investigator at Beth Israel Deaconess Medical Center, Massachusetts
- Internal Medicine Residency at Boston University Medical Center, Massachusetts
- Internship in Computational Electrophysiology at the Institute of Computational Medicine at Johns Hopkins Hospital
- Doctorate in Internal Medicine, University of Patras
- Degree in Medical Sciences from the University of Patras
- American College of Cardiology
- American Heart Association
- Heart Rhythm Society

“

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

Management



Dr. Jiménez Sánchez, Diego

- ♦ Assistant specialist in Cardiology at the University Hospital El Escorial
- ♦ Attending Doctor Specialist at Unit of the Puerta De Hierro University Hospital
- ♦ Degree in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Residency in the specialty of Cardiology at the Puerta de Hierro University Hospital
- ♦ Fellowship in electrophysiology at the Arrhythmia Unit of the Puerta de Hierro University Hospital
- ♦ University Master in Diagnostic and Therapeutic Cardiac Electrophysiology at San Pablo CEU University



Dr. Vázquez López-Ibor, Jorge

- ♦ Assistant Cardiology Specialist at University Hospital El Escorial
- ♦ Assistant Cardiology Specialist at the Heart Failure Unit of the Puerta de Hierro Hospital
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Residency in the specialty of Cardiology at the Puerta de Hierro University Hospital
- ♦ Theoretical and practical Master in Critical and Advanced Heart Failure (MICCA) at the Gregorio Marañón Hospital
- ♦ Theoretical and practical training in Cardiovascular Research at the National Center for Cardiovascular Research (CNIC)
- ♦ Fellowship in Advanced Heart Failure, Heart Transplantation and Pulmonary Hypertension at the Puerta de Hierro University Hospital

**Dr. Castro Urda, Víctor**

- ♦ Assistant Specialist in the Arrhythmia Unit of the Cardiology Service of the Puerta de Hierro Hospital
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Residency in the specialty of Cardiology at the Puerta de Hierro University Hospital
- ♦ Internship at the Electrophysiology and Cardiology Department of the Hospital UZ Brussel, Belgium
- ♦ Master's Degree in Diagnostic and Therapeutic Cardiac Electrophysiology at the Complutense University of Madrid

Professors**Dr. Domínguez Rodríguez, Fernando**

- ♦ Assistant Cardiology Specialist at the Heart Failure Unit of the Puerta de Hierro Hospital
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Residency in the specialty of Cardiology at the Puerta de Hierro University Hospital
- ♦ Fellowship in Familial Heart Disease at the Familial Heart Disease Unit of the University Hospital Puerta de Hierro
- ♦ Doctor of Medicine, Cum Laude, Autonomous University of Madrid

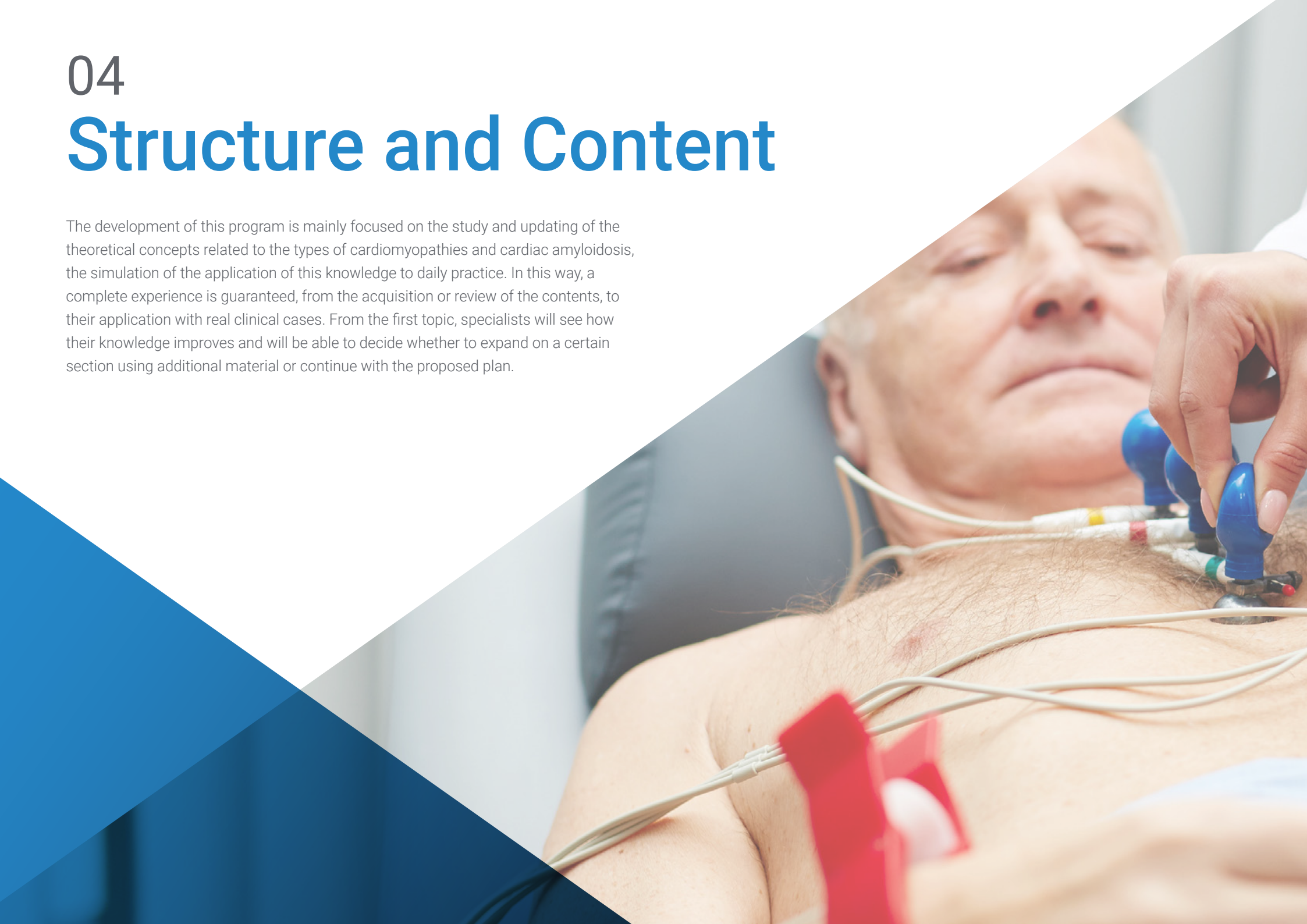
Dr. Vilches Soria, Silvia

- ♦ Associate Specialist at the Family Cardiopathies Unit of the Gregorio Marañón University Hospital
- ♦ Degree in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Residency in the specialty of Cardiology at the Puerta de Hierro University Hospital
- ♦ Fellowship in Familial Heart Disease at the Familial Heart Disease Unit of the University Hospital Puerta de Hierro
- ♦ PhD Candidate in Medicine and Surgery at the Autonomous University of Madrid

04

Structure and Content

The development of this program is mainly focused on the study and updating of the theoretical concepts related to the types of cardiomyopathies and cardiac amyloidosis, the simulation of the application of this knowledge to daily practice. In this way, a complete experience is guaranteed, from the acquisition or review of the contents, to their application with real clinical cases. From the first topic, specialists will see how their knowledge improves and will be able to decide whether to expand on a certain section using additional material or continue with the proposed plan.



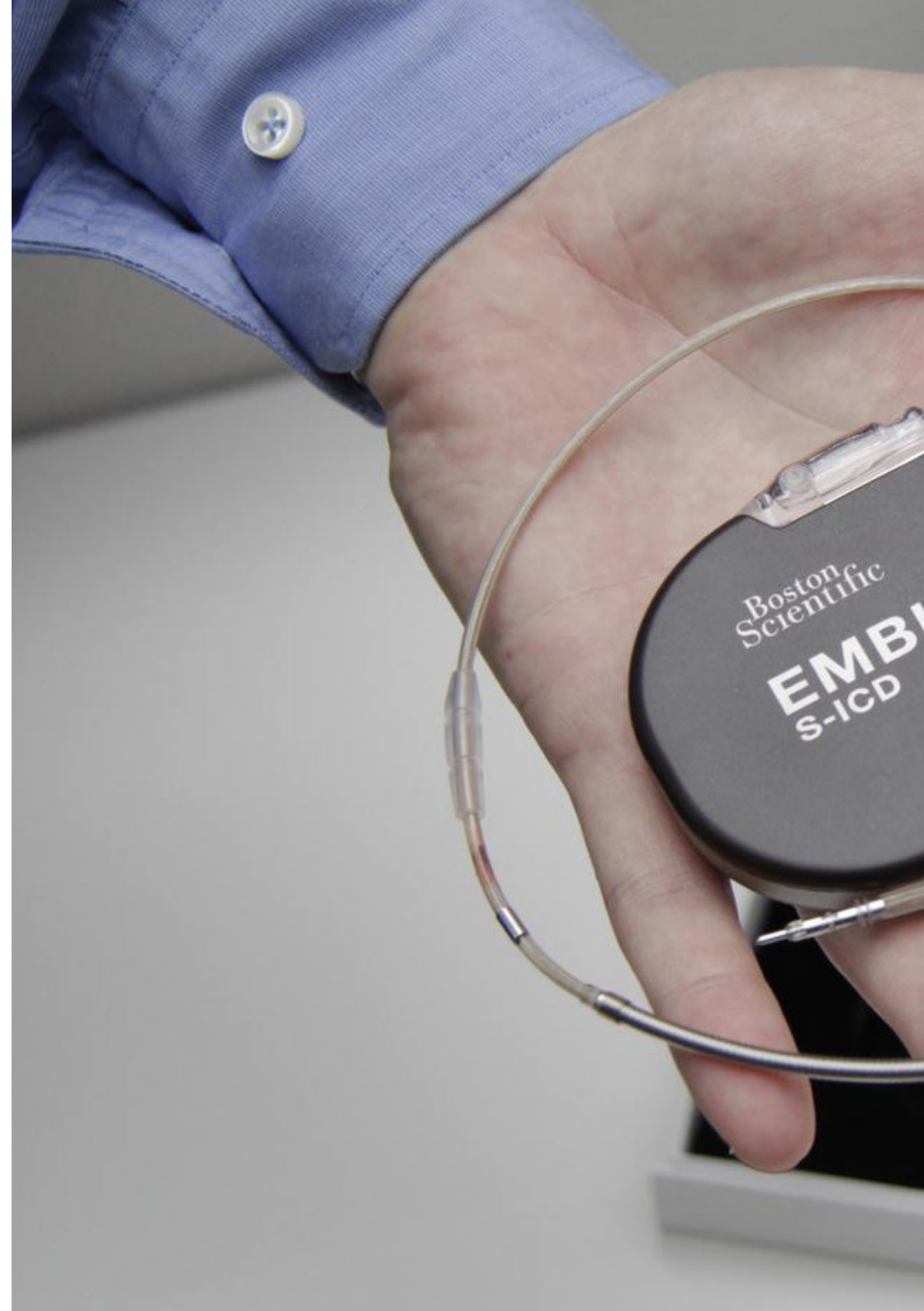


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A curriculum designed by and for cardiologists specializing in cardiomyopathies”

Module 1. Cardiomyopathies and Arrhythmias

- 1.1. Association of Myocardiopathies and Arrhythmias
- 1.2. Dilated Cardiomyopathy
 - 1.2.1. Atrial Arrhythmias
 - 1.2.2. Ventricular Arrhythmias
- 1.3. Prevention of Arrhythmias and Sudden Cardiac Death in Dilated Cardiomyopathy
 - 1.3.1. Indications for ICD
 - 1.3.2. Role of Genetics
- 1.4. Hypertrophic Cardiomyopathy Indications for ICD
 - 1.4.1. Atrial Arrhythmias
 - 1.4.2. Ventricular Arrhythmias
- 1.5. Prevention of Arrhythmias and Sudden Cardiac Death in Hypertrophic Cardiomyopathy
 - 1.5.1. Indications for ICD
- 1.6. Arrhythmogenic Cardiomyopathy
 - 1.6.1. Description
 - 1.6.2. Most Frequent Arrhythmias and Peculiarities in their Management
 - 1.6.3. Prevention of Sudden Death. Indications for ICD
- 1.7. Amyloidosis
 - 1.7.1. Description
 - 1.7.2. Most Frequent Arrhythmic Disorders and Peculiarities in their Management
 - 1.7.3. Indications for MP
- 1.8. Other Cardiomyopathies and their Association with Cardiac Rhythm Disorders
 - 1.8.1. Dystrophies and Neuromuscular Diseases. Indications for ICD and PM
- 1.9. Study of AVB in Young Patients
 - 1.9.1. Diagnostic and Therapeutic Algorithm





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*With a methodology such as
TECH's, expanding your academic
curriculum and professional
quality will be simple and practical"*

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





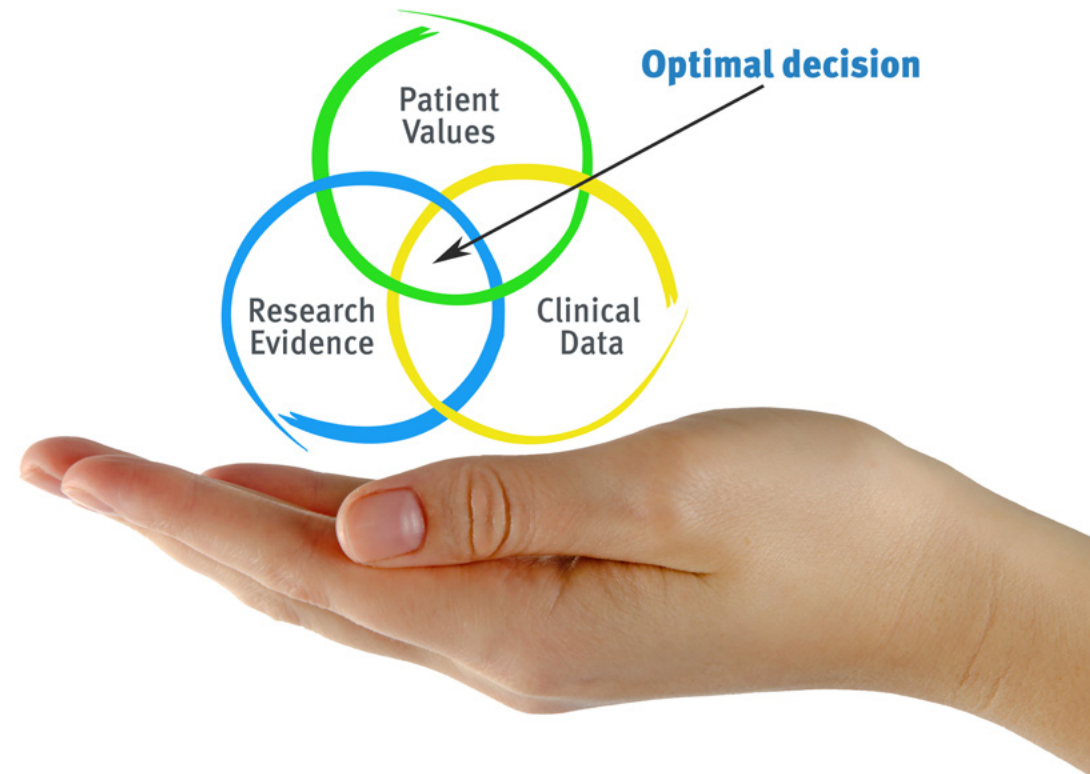
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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

“

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 Myocardopathies and Arrhythmias 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 private qualification will allow you to obtain a **Postgraduate Certificate in Mycardiopathies and Arrhythmias** 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 Mycardiopathies and Arrhythmias**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



*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.



Postgraduate Certificate
Myocardopathies and
Arrhythmias

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

Postgraduate Certificate Myocardopathies and Arrhythmias

