

# Postgraduate Certificate

## Dental Care in the Cardiovascular Patient





## Postgraduate Certificate Dental Care in the Cardiovascular Patient

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

Website: [www.techtute.com/us/dentistry/postgraduate-certificate/dental-care-cardiovascular-patient](http://www.techtute.com/us/dentistry/postgraduate-certificate/dental-care-cardiovascular-patient)

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# 01

# Introduction

Dental care is crucial in cardiovascular patients because of the close relationship between oral health and cardiovascular health. Because of this, it is essential that patients with cardiovascular disease receive regular dental care to prevent and treat periodontal disease and other infections. For this reason, TECH has designed a degree that allows students to maximize their knowledge on aspects such as the Elements of the Cardiovascular System, Heart Failure, Risk Factors or Arterial Hypertension, among others. All this, thanks to a 100% online modality and with the most dynamic and practical multimedia materials in the academic market.



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*Acquire new competencies and skills  
on Cardiovascular Patient Management,  
quickly and in a 100% online modality"*

Dental care is crucial to patients' cardiovascular health. Prevention and treatment of periodontal disease and other oral infections are essential to minimize systemic inflammation and reduce the risk of cardiovascular disease. Such patients require special precautions during dental procedures to minimize the risk of complications.

For this reason, TECH has designed a Diploma in Dental Care in the Cardiovascular Patient with the aim of providing students with the necessary skills to be able to perform their work as specialists as efficiently as possible. Thus, during this program, topics such as Antibiotic Prophylaxis Guidelines, Detection of the Hypertensive Patient, Arrhythmia or Oral Complications are addressed.

All this, through a 100% online modality that allows students to organize their schedules and studies, combining them with their other work and interests. In addition, this degree has the most complete theoretical and practical materials on the market, which facilitates the student's study process and allows them to achieve their goals efficiently.

This **Postgraduate Certificate in Dental Care in the Cardiovascular Patients** 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 experts in Dental Attention in the Cardiovascular Patient
- ◆ The graphic, schematic and practical contents of the program provide Sports and practical information on those disciplines that are essential for professional practice.
- ◆ Practical exercises where self-assessment can be used 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 Dental Care in the Cardiovascular Patient with total freedom to organize your schedule and studies"*

“

*Access all the content on Ischemic Cardiopathy and Sinus or Ectopic Rhythm from any device with internet connection”*

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 professional 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 professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*Delve into the essential aspects of the Production Mechanisms of Arrhythmias, from the comfort of your home and with your Tablet, computer or cell phone.*

*Achieve professional success in one of the most promising areas of Dentistry, thanks to TECH and the most innovative didactic materials.*

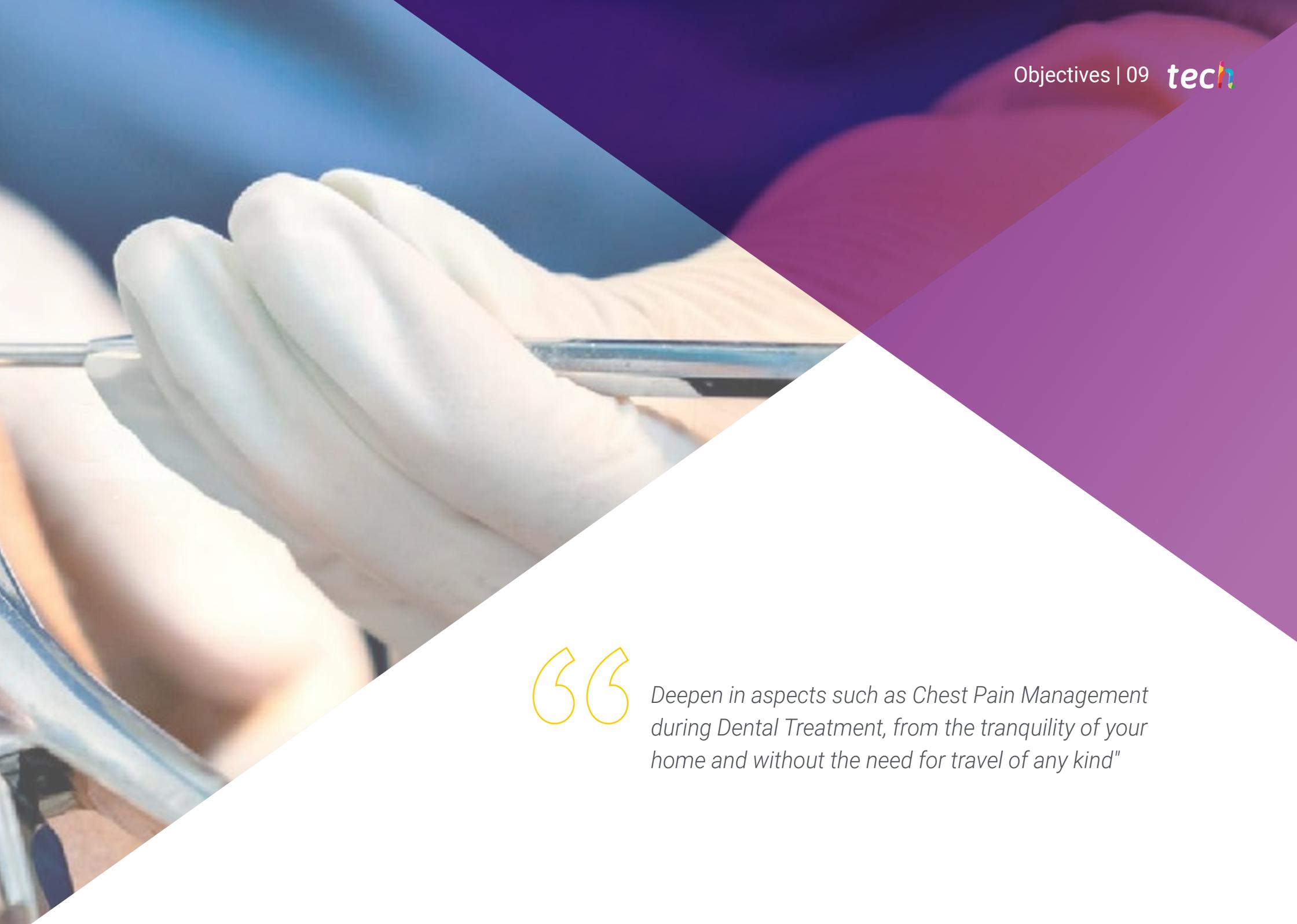


# 02

# Objectives

The final objective of this Postgraduate Certificate in Dental Care in the Cardiovascular the Cardiovascular Patient is that the student acquires a precise update of their knowledge in this area. An update that will allow the student to perform their work with the highest possible quality and efficiency. All this, thanks to TECH and a 100% online modality that gives total freedom of organization and schedules to the student.





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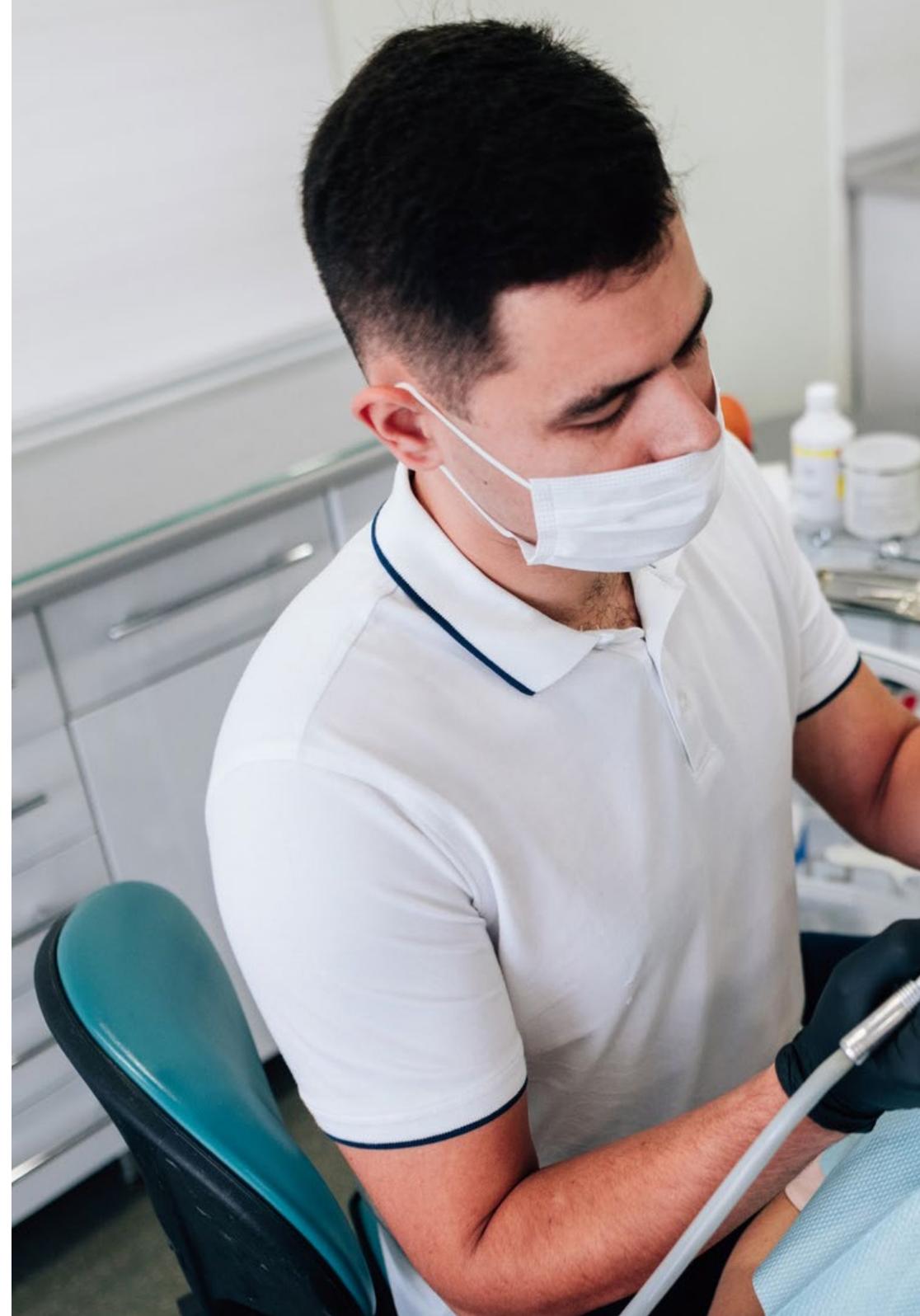
*Deepen in aspects such as Chest Pain Management during Dental Treatment, from the tranquility of your home and without the need for travel of any kind"*



## General Objectives

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- Update knowledge on the identification of pathologies that may affect the normal development of dental treatment
- Analyze pathologies that may hinder dental treatment
- Define the pharmacological guidelines for patients
- Define and analyze the basic and advanced aspects that define the actions to be taken in case of the main urgent and emergent conditions in a dental office
- Address the most common medical complications in patients
- Provide updated recommendations based on scientific evidence for an adequate dental approach to patients
- Identify the main Oral characteristics of Patients
- Update knowledge on the medical conditions and medication necessary
- Deepen in the main complications derived from the different medical pathologies
- Delve into the possible interactions derived from the medical pathology in the dental setting





## Specific Objectives

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- ◆ Identify the medical complications associated with cardiovascular pathologies and their treatment
- ◆ Present a protocol for dental care in patients with Heart Failure
- ◆ Expose a protocol for dental management in patients with ischemic heart disease
- ◆ Guideline a protocol for dental management in patients with Cardiac Arrhythmias disease
- ◆ Establish a protocol for dental management in patients with arterial hypertension
- ◆ Present a protocol for dental management in patients at risk of bacterial endocarditis
- ◆ Propose a protocol for the medical-dental management of possible emergencies that we may have with patients with cardiovascular pathology in the dental office



*Reach your most demanding goals and achieve a successful position, thanks to a unique program with the most complete theoretical and practical materials in the academic market"*

03

# Course Management

TECH Technological University has selected professionals specialized in Odontology as part of this teaching staff, who have been in charge of the design of the most advanced contents. Thus, students will learn from the best the keys to their professional development in a field that adapts to new technologies and the latest advances in the market.





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*The teaching team selected for this program has outstanding experience in Dental Care in the Cardiovascular Patient, so they will be able to prepare you to face the most demanding challenges"*

## Management



### Dr. Gil Montoya, José Antonio

- ◆ General Dentist in private practice Coordinator of the Doctoral Program in Clinical Medicine and Public Health of the University of Granada
- ◆ Director of the Stomatology Department of the University of Granada
- ◆ Head Teacher of Dentistry in Special Patients at the University of Granada
- ◆ Gerodontology Professor at the University of Granada
- ◆ Invited professor of online Masters in Special Patients and Gerodontology
- ◆ Degree in Dentistry from the University of Granada
- ◆ PhD in Dentistry from the University of Granada
- ◆ Master's Degree in Social Gerontology from the University of Granada
- ◆ Master in Health Research Methodology by the Andalusian School of Public Health



## Professors

### Dr. Federico Martínez López

- ◆ Head of the Murcia Floridablanca Oral Health Unit
- ◆ Dentist in private clinic
- ◆ Collaborating Professor in Special Patients and Gerodontology at the University of Murcia
- ◆ PhD in Medicine and Surgery from the University of Murcia
- ◆ Degree in Medicine and Surgery, Autonomous University of Barcelona, Teaching Unit in Vall Hebron
- ◆ Degree in Odontology from the University of Seville
- ◆ Master's of Special Patients from the University of Murcia

# 04

## Structure and Content

The structure and all the didactic resources of this curriculum have been designed by the renowned professionals that make up TECH's team of experts in this area of Odontology. These specialists have used their extensive experience and their most advanced knowledge to create practical and completely updated contents. All this, based on the most efficient teaching methodology, TECH's Relearning.



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*Expand your knowledge of care of patients, thanks to the Didactics most innovative materials and a wide variety of additional content available on the Virtual Campus"*

## Module 1. Dental Care in Patients with Cardiovascular Pathology

- 1.1. Cardiovascular System
  - 1.1.1. Components of the Cardiovascular System
  - 1.1.2. Physiology
  - 1.1.3. Regulatory Mechanisms
- 1.2. Heart Failure
  - 1.2.1. Heart Failure Concept
  - 1.2.2. Types
  - 1.2.3. Compensating mechanisms
  - 1.2.4. Etiopathogenesis of Heart Failure
  - 1.2.5. Classification
  - 1.2.6. Treatment
- 1.3. Heart failure: clinical and dental management
  - 1.3.1. Clinical signs and symptoms
  - 1.3.2. Oral complications
  - 1.3.3. Dental Management Protocols
- 1.4. Ischemic Heart Disease
  - 1.4.1. Ischaemic heart disease. Concept
  - 1.4.2. Etiopathogenesis
  - 1.4.3. Risk Factors
  - 1.4.4. Clinical signs and symptoms
  - 1.4.5. Diagnosis and Treatment
- 1.5. Ischemic heart disease: dental management
  - 1.5.1. Potential problems
  - 1.5.2. Dental management: action protocol
  - 1.5.3. Management of Chest Pain during dental treatment
  - 1.5.4. Management of patients with pacemakers
- 1.6. Cardiac Arrhythmias
  - 1.6.1. Cardiac Electrophysiology
  - 1.6.2. Arrhythmia concept
  - 1.6.3. Sinus rhythm and ectopic rhythm
  - 1.6.4. Production Mechanisms of Arrhythmias
  - 1.6.5. Classification





- 1.7. Heart Arrhythmias: clinical and dental management
  - 1.7.1. Clinical Symptoms
  - 1.7.2. Diagnostic
  - 1.7.3. Classification
  - 1.7.4. Dental management of patients with arrhythmias
- 1.8. Arterial Hypertension
  - 1.8.1. High Blood Pressure Concept
  - 1.8.2. Etiopathogenesis
  - 1.8.3. Classification
  - 1.8.4. Treatment
  - 1.8.5. Detection of hypertensive patients
- 1.9. Arterial hypertension: dental management
  - 1.9.1. Treatment algorithm for hypertensive patients
  - 1.9.2. Dental Management
  - 1.9.3. Management of hypertensive crisis during dental treatment
- 1.10. Bacterial Endocarditis
  - 1.10.1. Endocarditis Concept
  - 1.10.2. Guidelines of Antibiotic Prophylaxis
  - 1.10.3. Prophylaxis according to cardiac conditions
  - 1.10.4. Prophylaxis according to dental procedures



*Thanks to the most efficient teaching methodology, TECH Relearning, you will be able to acquire new knowledge in a precise and natural way, without spending too much time studying"*

# 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.





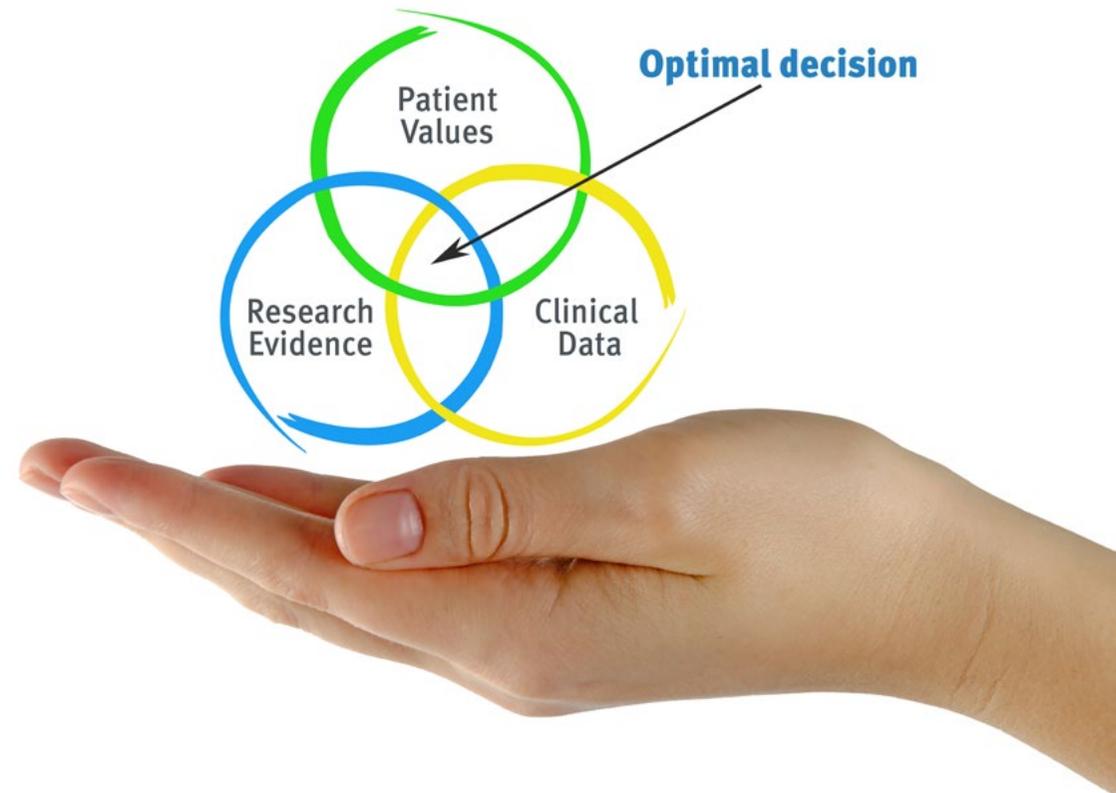
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

In a given situation, what should a professional do? 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 dentist's professional 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. Dentists who follow this method not only grasp concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their 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.

*The student 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 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 we have trained more than 115,000 dentists with unprecedented success, in all specialties regardless of the workload. 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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.



### Educational Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances, and to the forefront of 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

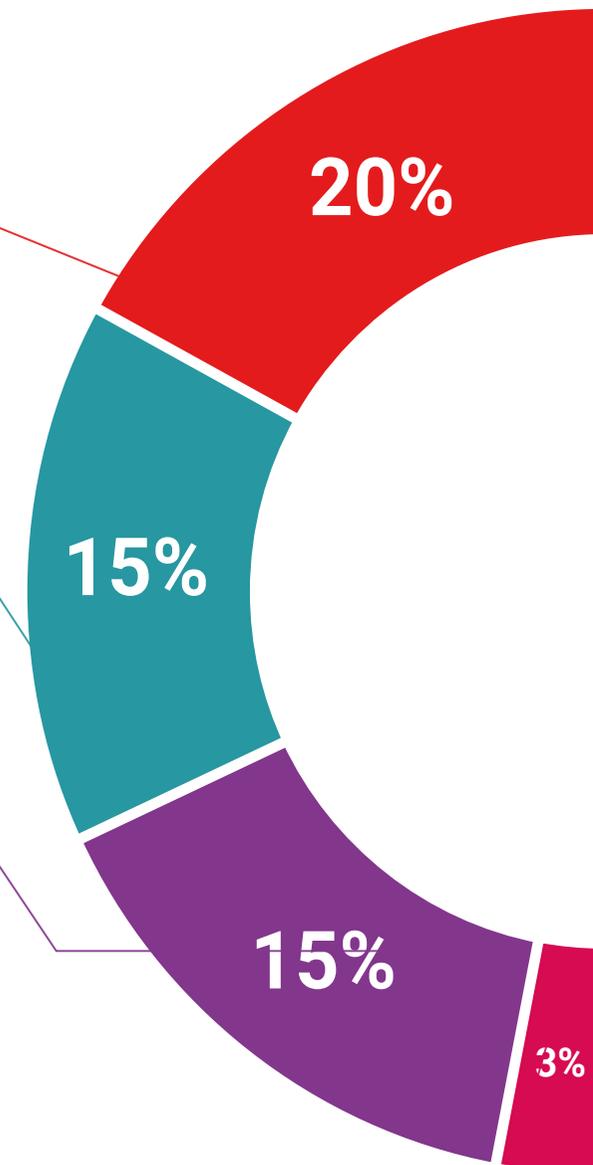
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

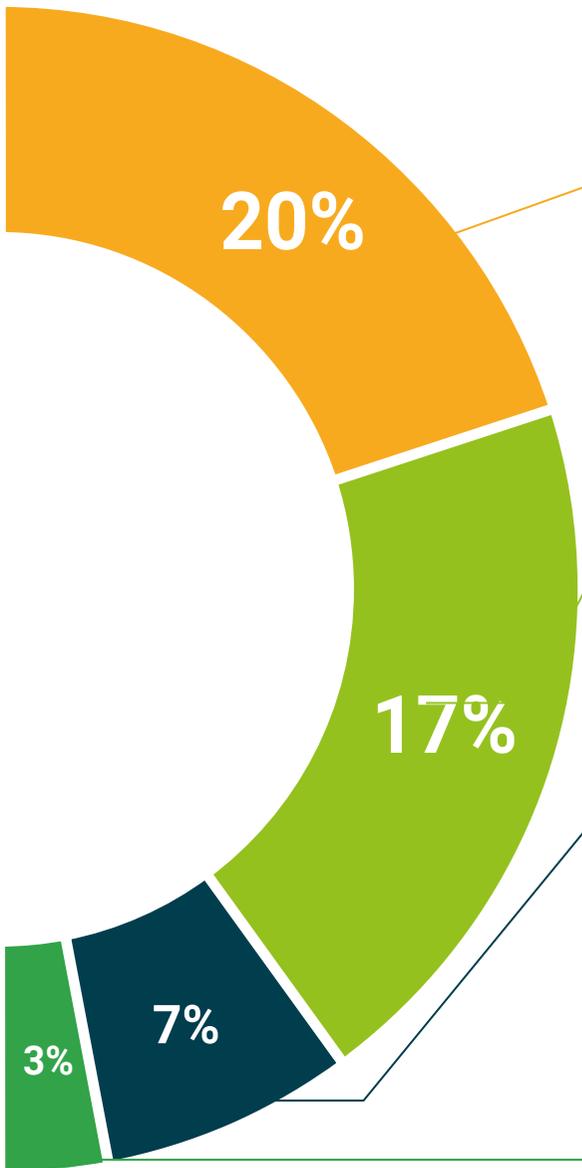
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### 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 suggesting that observing third-party experts can be useful.

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 Dental Care in the Cardiovascular Patient guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This **Postgraduate Certificate Dental Care in the Cardiovascular Patient** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate Dental Care in the Cardiovascular Patient**

Official N° of Hours: **150 h.**



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

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present quality  
development languages  
virtual classroom



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