

# Postgraduate Certificate

## Management of In-Hospital ACS Patients





## Postgraduate Certificate Management of In-Hospital ACS Patients

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

Website: [www.techtute.com/us/medicine/postgraduate-certificate/management-in-hospital-acs-patients](http://www.techtute.com/us/medicine/postgraduate-certificate/management-in-hospital-acs-patients)

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# 01

# Introduction

The diagnosis of a patient with Acute Coronary Syndrome is a matter of great urgency, so every second is vital. The correct management of these clinical cases during the hospitalization phase is fundamental and specialists must handle all the information fluently, although they must also be aware of the most important and effective new developments in the diagnosis and treatment of patients suffering from this disease. This program addresses precisely the most important and current topics related to this cardiac condition, the latest protocols and techniques and the most relevant concepts related to the applicable drugs. A program distributed in 150 hours of theoretical, practical and additional material with which the physicians will improve their medical skills and that will allow them to be at the forefront of this field.



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*This Postgraduate Certificate has been designed by the best experts in cardiology, practicing physicians who manage, on a daily basis, patients diagnosed with ACS”*

The hospitalization management of ACS patients diagnosed is different depending on the clinical picture. The physician must not only know the protocols for each case, but must also be confident enough to apply them quickly. It should not be forgotten that in cardiac matters every second counts.

In this regard, the importance of reviewing the most relevant information, as well as knowing the latest developments regarding the most effective techniques and treatments, is latent. Therefore, TECH, in its commitment to offer the broadest and most complete education, also includes in its educational offer this Postgraduate Certificate in Management of the In-Hospital ACS Patients.

This program covers from the value of the Coronary Units in the early treatment of complications, to the detailed exploration of the pharmacological application to be implemented in this phase. It also delves into the mechanical complications of ACS, from pump failure to cardiac rupture of the interventricular septum or ventricular free wall. Finally, it also describes the management of cardiogenic shock as the maximum expression of heart failure, both from the medical and mechanical support point of view, including its indications and limitations.

An online program designed by experts in cardiology who will also be available to answer any questions the graduates may have. In addition, they will provide additional material such as real clinical cases, videos in detail prepared by themselves, research articles and complementary readings with which the specialist will be able to obtain a more complete and comprehensive view of the syllabus.

This **Postgraduate Certificate in Management of In-Hospital ACS Patient** 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 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 electronic device with an Internet connection



*Delve into the mechanical complications of ACS can provide you with a broader vision of action and treatment of patients with this heart disease”*

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*A Postgraduate Certificate that will give you extra confidence in your career thanks to the quality and topicality of its content”*

*Delve into the importance of lipid-lowering and anti-anginal drugs.*

*A 100% online program, accessible from any electronic device with an internet connection and available 24 hours a day.*

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



# 02 Objectives

Medicine, like all sciences, is a subject that is constantly evolving and developing. That is why TECH's objective with this program is to compile the most complete and updated information in reference to the Management of In-Hospital ACS Patients. Thus, it will be able to offer the specialists a program with which they will not only be able to get up to date based on the most important scientific developments, but will also be able to broaden their knowledge and implement the most effective concepts in cardiac matters in their daily life.







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*The main objective of TECH is that the specialist finds, in this Postgraduate Certificate, exactly what they were looking for to improve their professional skills”*



## General Objectives

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- ◆ Delve into Acute Coronary Syndrome (ACS) starting with its pathophysiology and its importance as one of the main causes of death in civilized countries
- ◆ Professionalize skills in the assessment and differential diagnosis of chest pain in the emergency department, understanding the value of the different complementary techniques available
- ◆ Adequately classify the patient's initial risk and the most appropriate prehospital treatment and monitor measures in the prehospital phase
- ◆ Internalize reperfusion therapies, their limitations, advantages and protocols, understand the great importance of ischemia time
- ◆ Diagnose and manage the mechanical and arrhythmic complications that can occur in this syndrome
- ◆ Implement appropriate treatment measures during the hospital phase and the value of Coronary Units
- ◆ Develop the value and structure of Cardiac Rehabilitation programs
- ◆ Understand the treatments that have provided value in secondary prevention of these patients





## Specific Objectives

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- ◆ Deepen the knowledge of the usefulness of the Coronary Units in the prevention and early treatment of the complications of NSTEMACS
- ◆ Recognize the antianginal, lipid-lowering and antithrombotic treatment to be implemented in patients with NSTEMACS
- ◆ Understand the most frequent mechanical complication of this entity, CHF, from the mechanistic, treatment and prognostic point of view
- ◆ Identify the rest of the potential mechanical complications (cardiac rupture, VSD and MI) and their incidence, treatment and prognosis

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*Every hour invested in this program will be a step closer to achieving your career goals”*

03

# Course Management

The teaching team in charge of teaching this program not only has extensive professional experience in the field of cardiology, but also has experience in university teaching. These two characteristics make this group the perfect faculty for this program, giving it a realistic and critical character, but close and committed to the graduates. Likewise, their experience in the treatment of ACS patients and their background in the Cardiology Service of different hospitals will allow them to provide the program with a different and unique vision.





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*Reach your educational goals with the best Cardiologists and be guided by their experience on your way to success”*

## Management



### Dr. Botas Rodríguez, Javier

- Head of Cardiology Service, Alcorcón Foundation of the HU
- Director of the Cardiac Catheterization Laboratory at the Alcorcón Foundation.University Hospital
- Director of the Cardiac Catheterization Laboratory at the Alcorcón Foundation.University Hospital
- Associate Professor of Cardiology of the Degree in Medicine at the Rey Juan Carlos University
- Doctorate in Medicine (Magna Cum Laude) from the Faculty of Medicine at the Autonomous University of Madrid
- Residency and specialization in Cardiology at the Gregorio Marañón University Hospital
- Postdoctorate in Interventional Cardiology from Stanford University



## Professors

### Dr. Juárez Fernández, Miriam

- ◆ Cardiology Specialist
- ◆ Facultative Area Specialist of the Coronary Care Unit, Gregorio Marañón University Hospital Madrid
- ◆ Collaborating Doctor of Practical Teaching, Department of Medicine, Complutense University of Madrid
- ◆ Teacher of the Continuing Education Course "Practical Aspects in the Management of Atrial Fibrillation: Clinical Case Discussion"
- ◆ PhD at the Faculty of Medicine from the Complutense University of Madrid
- ◆ Degree in Medicine and Surgery from the Autonomous University of Madrid
- ◆ Speciality in Cardiology at the Gregorio Marañón General University Hospital. Madrid
- ◆ Member of the Spanish Society of Cardiology

# 04

# Structure and Content

This Postgraduate Certificate has been designed based on 2 guidelines: the professional criteria of the teaching team, who, in addition to the theoretical content, has selected the practical and complementary material, and following the guidelines that define the *Relearning* methodology. It is a program in which the most important concepts are reiterated, so that the graduates do not need to invest extra hours memorizing, and which also combines the resolution of real cases with its content, thus favoring that the concepts last longer in their memory.





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*In the Virtual Classroom you will find real clinical cases of ACS patients, as well as complementary readings, research articles and other complementary material that will allow you to expand on each topic”*

**Module 1. NSTEMACS 2. Patient Management in the Hospital. Coronary Unit**

- 1.1. Role of the Coronary Care Unit, the Value of Monitoring and General Early Treatment Measures General Measures
- 1.2. Patient Stratification and Risk Scales
- 1.3. Complementary Laboratory Tests
- 1.4. Lipid-Lowering Drugs and Treatment Goals
- 1.5. Antianginal Drugs in NSTEMACS
- 1.6. Platelet Antiplatelet Aggregation in NSTEMACS
- 1.7. Anticoagulation Indications Anticoagulants
- 1.8. Complications of NSTEMACS: Chronic Heart Failure (CHF)
- 1.9. Complications of NSTEMACS: Cardiogenic Shock, Medical Treatment and Mechanical Support
- 1.10. Mechanical Complications of NSTEMACS: Cardiac Rupture, VSD and MI





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*This Postgraduate Certificate will give you, with total guarantee, everything you need to get up to date in the Management of In-Hospital ACS Patients”*

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.

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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 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 Management of In-Hospital ACS Patients 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 in Management of In-Hospital ACS Patients** 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 Management of In-Hospital ACS Patients**

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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- » Exams: online

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