

# Postgraduate Certificate Clinical Manifestations of Acute Coronary Syndrome



## Postgraduate Certificate Clinical Manifestations of Acute Coronary Syndrome

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

Website: [www.techtute.com/us/medicine/postgraduate-certificate/clinical-manifestations-acute-coronary-syndrome](http://www.techtute.com/us/medicine/postgraduate-certificate/clinical-manifestations-acute-coronary-syndrome)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

Coronary artery disease can present itself in various forms, differentiating between chronic and acute syndromes. Once diagnosed, the physician must act on the basis of the appropriate recommendations and treatments for each clinical case. This program offers you the opportunity to update your knowledge in the management of the different Manifestations of Acute Coronary Syndrome and to be up to date in the latest concepts related to complementary tests and treatments. Thanks to its 100% online format, the graduates will be able to access the virtual classroom whenever they wish, where they will find all the syllabus from the first day and a lot of complementary material with which they will be able to continue learning in the different concepts.



A close-up photograph of several white ECG leads with blue and green markings, connected to blue spherical electrodes. The background is a blurred clinical setting. The image is partially obscured by a large blue diagonal graphic element.

“

*A 100% online program with which to learn about the latest aspects of Acute Coronary Syndrome, its classification and the most up-to-date information on how to manage the patient suffering from it”*

Acute coronary syndrome can be classified into different manifestations from an operational and patient management point of view. The frequency with which this heart disease occurs in the population makes it part of the daily routine of specialists, not only in cardiology, but also in primary care and emergency medicine. For this reason, physicians must be constantly reviewing the most modern research with the most effective results, in order to be able to offer their patients a more complete and promising diagnosis.

In response to this demand, the Postgraduate Certificate in Clinical Manifestations of Acute Coronary Syndrome was created. This is a comprehensive program designed by experts with extensive proven experience in dealing with cardiac pathologies and aimed at medical practitioners who wish to keep up to date with the latest developments in this field.

This program covers the forms of presentation of coronary artery disease, as well as the operational classification of ACS based on the electrocardiogram and its pathophysiology and correlation with pathological anatomy. In addition, he will also go into unstable and variant angina and its characteristics, as well as complementary laboratory diagnostic tests, with emphasis on chest radiography. Finally, it will delve into the stratification of thrombotic and hemorrhagic risk to conclude with vasospasm provocation tests, their treatment and prognosis.

A 100% online program, endorsed by TECH, the largest online university in the world, which includes the most modern scientific postulates. The graduates will be able to continue with their working life while investing in the most complete and up-to-date educational program of the moment and in which he will find, from the beginning of the Postgraduate Certificate, a variety of additional material with which to continue expanding their knowledge.

This **Postgraduate Certificate in Clinical Manifestations of Acute Coronary Syndrome** 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 variant angina and coronary vasospasm as a cause of ACS, thanks to this program"*

“

*The syllabus provides all the necessary information that will allow the specialist to be up to date on the latest developments in the operational classification of ACS based on the electrocardiogram”*

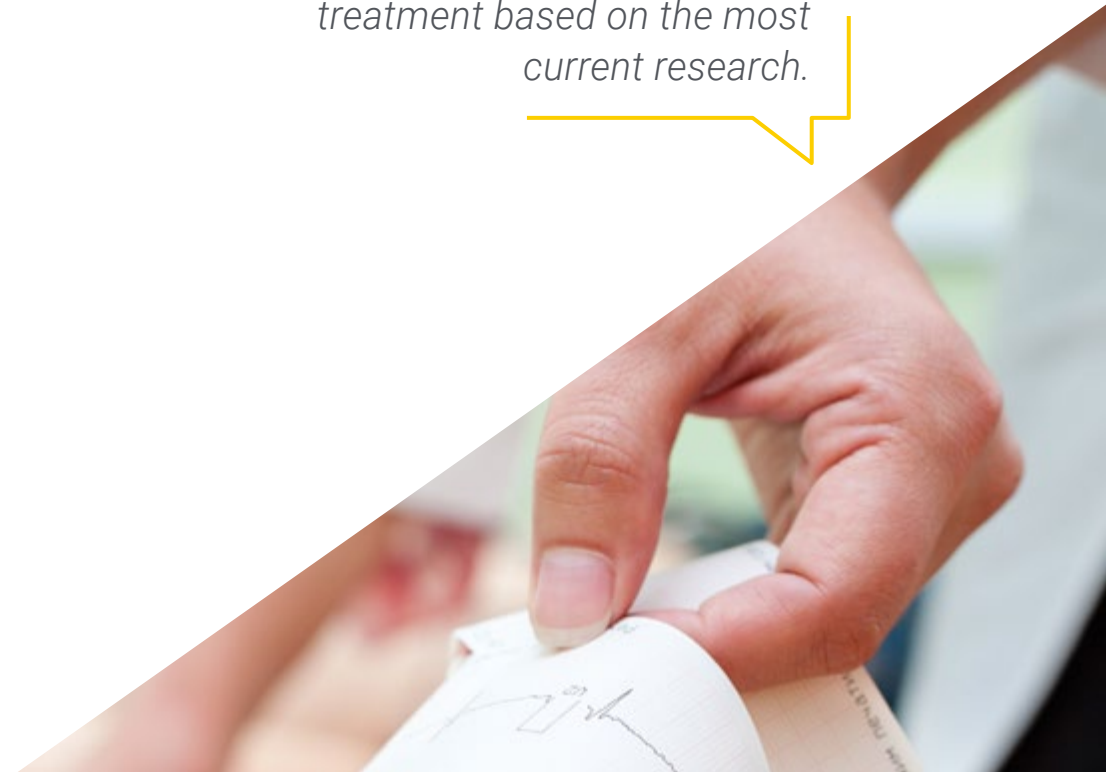
The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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 student will be assisted by an innovative interactive video system created by renowned experts.

*You will have access to real clinical cases and detailed videos on each point of the syllabus.*

*You will recognize techniques to stratify patients by thrombotic and hemorrhagic risk and be able to individualize their treatment based on the most current research.*



# 02 Objectives

The objective of this program is to guide the specialists and provide them with all the tools they need to be up to date in the field of Clinical Manifestations of Acute Coronary Syndrome. In this way, they will learn all the latest developments in this field, allowing them to implement new techniques and treatments in their daily work. That is why the graduates will find in this Postgraduate Certificate the most up-to-date and complete syllabus, as well as a variety of complementary material that will give them access to a deeper and more specialized knowledge of the main areas of interest of this program.







“

*In less than 6 weeks you will see that the objectives you set at the beginning of the Postgraduate Certificate have been achieved and you will want to go further”*

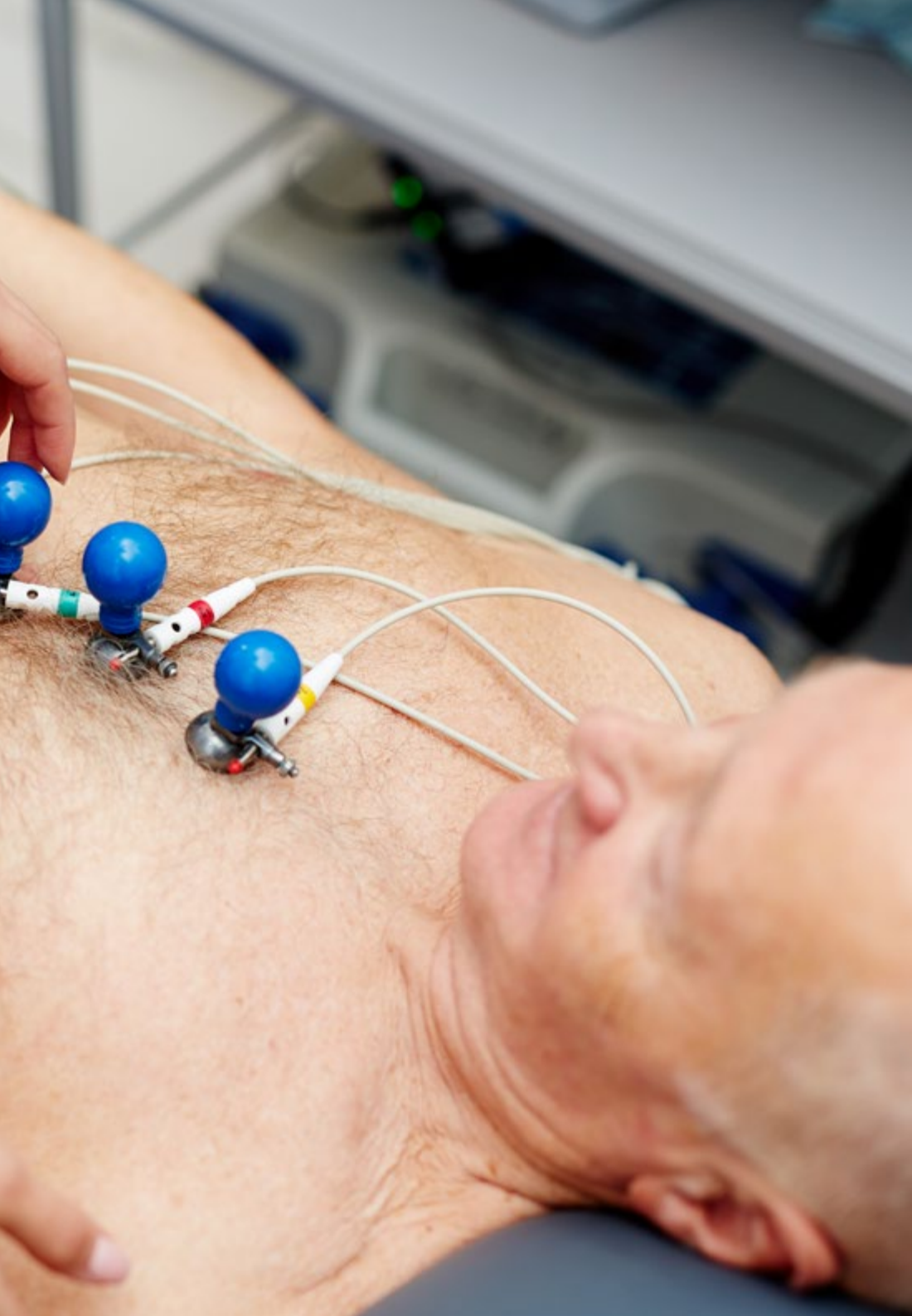


## General Objectives

---

- ♦ Develop an in-depth knowledge of 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

---

- ◆ Recognize the various clinical manifestations of coronary artery disease
- ◆ Classify acute coronary syndromes and their reasons
- ◆ Adapt the epidemiology and the different clinical presentations of Non-ST Segment Elevation ACS (NSTEMI)
- ◆ Delve into the different electrocardiographic manifestations of NSTEMI
- ◆ Stratify patients by thrombotic and hemorrhagic risk to individualize their treatment
- ◆ Delve into variant angina and coronary vasospasm as a cause of ACS

“

*TECH's objective with all its program is that the specialists finish the Postgraduate Certificate knowing with certainty that they have invested in the best program on the market”*

# 03

## Course Management

The teaching group that makes up this Postgraduate Certificate has extensive professional experience in the different areas of cardiology. In addition, their teaching experience, added to their work experience, qualifies them as a very good faculty. The human quality that defines these professionals is also an important aspect and in their commitment to offer the most complete and beneficial teaching for the specialists, they include the possibility of requesting individualized tutorials in which the graduates can share with them the questions they considers.



“

*The teaching team has designed this Postgraduate Certificate based on their own experience in cardiology and following the quality guidelines set by TECH”*

## Management



### Dr. Botas Rodríguez, Javier

- ♦ Head of Cardiology Service, Alcorcón Foundation University Hospital
- ♦ 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. Vaqueriza Cubillo, David

- ♦ FEA of Clinical Cardiology and Multidisciplinary Unit of Heart Failure, Hospital Infanta Leonor Madrid
- ♦ Specialist of the Cardiology Unit, Beata María Ana de Jesús Hospital Madrid
- ♦ Degree in Medicine from the Complutense University of Madrid
- ♦ Resident in Cardiology at 12 de Octubre University Hospital. Madrid
- ♦ Online Master's Degree in Cardiology "Professor in Cardiology" by the Miguel Hernández University. Valence



# 04

## Structure and Content

The entire content of this Postgraduate Certificate has been extracted from the most reliable and updated sources, with the guarantee that the specialist, by choosing this program, will be accessing the best content on clinical manifestations of Acute Coronary Syndrome. In addition, the practical nature that can be provided by an active teaching staff in cardiology medicine is guaranteed and makes this program a unique opportunity to update knowledge and to be up to date with the best professionals.





“

*This syllabus will allow you to go at your own pace, without stress and with the guarantee that upon completion you will get up to date on the Clinical Manifestations of Acute Coronary Syndrome”*

**Module 1. Clinical Presentation of Coronary Syndromes and Classification**  
NSTEMACS 1. Epidemiology. Pathophysiology and Classification

- 1.1. Forms of presentation of coronary artery disease: chronic and acute coronary syndromes
- 1.2. Operational Classification of ACS Based on ECG, Non-ST Segment Elevation ACS Epidemiology
- 1.3. Pathophysiology and Correlation with Anatomic Pathology
- 1.4. Unstable Angina and Non-Q AMI, Clinical Features
- 1.5. ECG and Non-ST Segment Elevation ACS
- 1.6. Complementary Diagnostic Laboratory Tests and RXT in Non-ST Segment Elevation ACS
- 1.7. Risk Stratification, Thrombotic Risk Scales
- 1.8. Risk Stratification, Hemorrhagic Risk Scales
- 1.9. Variant Angina and Coronary Vasospasm Clinical Features
- 1.10. Vospasm Provocation Tests Treatment and Prognosis of Vasospasm





“

*The best content, the most qualified teachers and the world's largest TECH Tech University can only lead you to success”*

# 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.



“

*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 Clinical Manifestations of Acute Coronary Syndrome 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 Postgraduate Certificate without having to travel or fill out laborious paperwork"*

This program will allow you to obtain your **Postgraduate Certificate in Clinical Manifestations of Acute Coronary Syndrome** 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 Clinical Manifestations of Acute Coronary Syndrome**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

personalized service innovation

knowledge present quality

online training

development languages

virtual classroom

**tech** global  
university

## Postgraduate Certificate Clinical Manifestations of Acute Coronary Syndrome

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

# Postgraduate Certificate Clinical Manifestations of Acute Coronary Syndrome

