

# Postgraduate Certificate

## Acute Cardiac Nursing Care





## Postgraduate Certificate Acute Cardiac Nursing Care

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

Website: [www.techtute.com/us/nursing/postgraduate-certificate/acute-cardiac-nursing-care](http://www.techtute.com/us/nursing/postgraduate-certificate/acute-cardiac-nursing-care)

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# 01

# Introduction

The frequency and risk of heart disease have always meant a great effort for the health sector, and it is necessary that the professionals in charge of the care and attention of patients with heart disease can address all the situations of a patient with cardiac pathology in a precise, specialized and up to date manner. This program is focused precisely on acute cardiac care: the different pathologies covered, their causes, patient needs, treatment protocols, etc. All this with an up-to-date and practical vision, provided by specialists in the field. In addition, this program will be taught entirely online, with all the necessary tools for a perfect training of the specialist.





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*Takes advantage of the knowledge and academic resources of a complete and efficient program, carried out by experts in cardiology who have taken into account the particularities of nursing practice in all the contents"*

Acute heart disease is extremely complicated and can have possible vascular or pulmonary effects. The professionals who are prepared to care for patients with these conditions must have a solid theoretical foundation and technical management that will allow them to act both preventively and in emergency situations, and in periods of stabilization and subsequent rehabilitation. All this theoretical knowledge and practical management must be supported by continuous updating in the field, since advances in the care and management of cardiac pathologies are constant.

This Postgraduate Certificate deals in detail with the different cardiac conditions related to the blood vessels of the heart, from cardiogenic shock to ventricular tachyarrhythmias. It also delves into care protocols suitable for the various stages of the patient, be it initial care in patients with suspected ACS, or postoperative care. Therefore, this program covers all the techniques of acute cardiac pathologies developed so far.

The technical and theoretical teaching of specialist professors and the virtual learning tools offered by TECH Global University make this program highly practical for the nurse. With scientific articles, real case reports, audiovisual material and extensive interactive content, the nursing professional facing the course will have access to a wealth of information that will undoubtedly contribute to their work of continuous updating.

This **Postgraduate Certificate in Acute Cardiac Nursing Care** 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 Nursing 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 device with an Internet connection



*Learn about new techniques for the care and attention of cardiac patients in a complete program that combines the most rigorous scientific evidence with the highest level of clinical practice”*

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*Learn all the details about Acute Coronary Syndrome (ACS), its prevention and advances in the care of affected patients in this Postgraduate Certificate"*

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational 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 immersive education programmed to learn in 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 students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Delve into the most efficient work methodology, up-to-date based on the latest scientific postulates, to treat a pulmonary embolism caused by an acute heart disease.*

*Study in a practical, dynamic and efficient way, without the constraints of a predefined academic calendar or face-to-face classes.*



02

# Objectives

This program is designed to effectively achieve technical and theoretical objectives taking into account the latest advances in cardiology. Through this Postgraduate Certificate, students will be able to learn all the details of the medication and instruments used in the care of coronary diseases, particularly in acute heart disease, expanding their clinical knowledge with the most recent scientific discoveries.





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*The best program to update you in all the novelties of the Health Sciences, observing the most efficient nursing methodology put into practice by the teaching team"*



## General Objectives

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- Update knowledge in the treatment and care of patients diagnosed with the main cardiovascular pathologies, including myocardial and pericardial diseases, coronary artery disease and arrhythmias
- Ensure that nurses' knowledge of cardiology is updated and improve their qualification in order to encourage them in their daily work and increase their professional motivation
- Enhance the professionals' ability to make a balanced assessment of the use of health resources in relation to the individual, social and collective benefit that can be derived from such use
- Enable the establishment of communication tools among health professionals within a multidisciplinary team
- Improve the perception of the social role of nursing professionals, as individual agents in a general health care system and of the ethical requirements that this entails





## Specific Objectives

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- ◆ Know the hospital management of the main acute cardiovascular syndromes such as acute coronary syndromes, left and right heart failure, arrhythmias, cardiac arrest, acute aortic syndromes and acute complications of valvular, myocardial and pericardial diseases
- ◆ Obtain the essential knowledge to understand, prevent and manage the most frequent complications and comorbidities in patients with critical cardiac disease (hydroelectrolytic, metabolic, respiratory, renal and infectious)
- ◆ Acquire basic knowledge of the techniques and procedures most commonly used in these patients, such as vascular punctures, hemodynamic monitoring and circulatory support systems, induced hypothermia systems, orotracheal intubation and invasive and non-invasive mechanical ventilation, pericardiocentesis, insertion of pacemakers and other electrical devices, and extrarenal depuration systems, as well as nutritional support and concomitant medication



*Develop your skills and update your knowledge in acute cardiac care"*

03

# Course Management

The faculty that developed this program has extensive academic and work experience, which is available to nursing professionals interested in this field. They are active specialists with all the necessary competencies to help strengthen the practice of health care in day-to-day professional practice. Teachers will be supported by the virtual tools offered by TECH, fully proven online education techniques that make this the ideal program to be up to date in the field.



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*Lean on professionals who have first-hand knowledge of the most relevant acute cardiac conditions, providing you with the key knowledge that you can immediately incorporate into your daily practice"*

## Management



### Ms. Capote Toledo, María Luz

- Coordinator of the Hemodynamics and Arrhythmia Room at the Hospital university Príncipe de Asturias and Hospital university Severo Ochoa
- Supervisor of Heart Failure, Cardiac Rehabilitation, Cardiopulmonary Explorations (Imaging, Ergometry and Holter, and High-Resolution Cardiology Consultations at Clinical Hospital San Carlos in. Madrid
- Supervisor of Hemodynamics and Electrophysiology at San Carlos Clinical Hospital
- Degree in Nursing from the Complutense University of Madrid
- Master's Degree in Health Care Quality, Rey Juan Carlos University in Madrid in collaboration with the Laín Entralgo Agency



# 04

## Structure and Content

The syllabus of this program is carefully organized to cover all the anatomical and procedural details concerning acute heart disease and its care by nurses. This Postgraduate Certificate is divided into ten topics that summarize the latest developments in cardiology and acute conditions as applied to the practice of nursing. A program with a highly practical approach and absolutely functional for today's Nursing Service.





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*A syllabus that will give you the best tools for cardiac care, with the latest developments in acute heart disease”*

## Module 1. Acute Cardiac Care

- 1.1. Initial Management of Patients with Suspected ACS
  - 1.1.1. Patients with Non ST-Elevation Acute Coronary Syndrome
  - 1.1.2. Diagnosis, Risk Stratification and Treatment
  - 1.1.3. Prevention and Management of Complications
  - 1.1.4. Lipid-Lowering Drugs and Other Secondary Prevention Measures
  - 1.1.5. Initial Management of Patients with STEACS
  - 1.1.6. Diagnosis, Risk Stratification and Treatment
  - 1.1.7. Prevention and Management of Complications
  - 1.1.8. Antithrombotic Drugs for ACS
- 1.2. Heart Failure and Pulmonary Edema
  - 1.2.1. Decompensation of Congenital Heart Disease
  - 1.2.2. Pharmacological Treatment of Acute Heart Failure
  - 1.2.3. Non-Invasive and Invasive Ventilation
- 1.3. Cardiogenic Shock
  - 1.3.1. Hemodynamic Monitoring
  - 1.3.2. Mechanical Circulatory Support
- 1.4. Cardiac Arrest
  - 1.4.1. Initial Management of Cardiac Arrest
  - 1.4.2. Neurological Protection and Prognostic Assessment
- 1.5. Arrhythmias
  - 1.5.1. Atrial Fibrillation and Supraventricular Tachyarrhythmias
  - 1.5.2. Ventricular Tachyarrhythmias and ICD Dysfunction
  - 1.5.3. Bradyarrhythmias Pacemaker Implantation. Pacemaker Malfunction
- 1.6. Acute Vascular, Myocardial, Pericardial, and Valvular Syndromes
  - 1.6.1. Acute Aortic Syndromes
  - 1.6.2. Pulmonary Embolism
  - 1.6.3. Acute Pericarditis, Myocarditis, Stress-Induced Cardiomyopathy (Takotsubo Syndrome)
  - 1.6.4. Severe Pericardial Effusion: Cardiac Tamponade Pericardiocentesis
  - 1.6.5. Acute Infectious and Non-Infectious Valvular Disease





- 1.7. General Principles of Cardiovascular Critical Care
  - 1.7.1. Prophylaxis, Nutrition, End-of-Life Support
  - 1.7.2. Postoperative Care after Cardiac Surgery
  - 1.7.3. Acute Respiratory Distress Syndrome
  - 1.7.4. Acute Renal Failure and Renal Support Therapy
- 1.8. Diabetes Management
  - 1.8.1. Blood Glucose Disorders
  - 1.8.2. Electrolyte and Acid-Base Balance Disorders
  - 1.8.3. Bleeding, Anemia and Blood Transfusion
  - 1.8.4. Infectious Complications in Cardiac Intensive Care
- 1.9. Nursing Care in the Different Techniques and Procedures Performed in the Coronary Unit
  - 1.9.1. Nursing Care for Vascular Cannulation
  - 1.9.2. Orotracheal Intubation and Tracheotomy
- 1.10. Accompanying the Terminally Ill Patient in the Coronary Unit

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*Download all the didactic material and gain access to a fundamental reference guide for nursing practice in the care of patients with acute cardiac pathologies”*

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 Nursing School 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. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, 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, in an attempt to recreate the real conditions in professional nursing 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. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



*The nurse 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 175,000 nurses with unprecedented success in all specialities regardless of practical 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 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 really 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.



### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, 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 them as many times as you want.



### 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 Acute Cardiac Nursing Care guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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

This program will allow you to obtain your **Postgraduate Certificate in Acute Cardiac Nursing Care** 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 Acute Cardiac Nursing Care**

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.

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



## Postgraduate Certificate

### Acute Cardiac Nursing Care

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

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