

# Postgraduate Certificate

## Rare Diseases in Emergency Services





## Postgraduate Certificate Rare Diseases in Emergency Services

- » 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/rare-diseases-emergency-services](http://www.techtute.com/us/medicine/postgraduate-certificate/rare-diseases-emergency-services)

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# 01

# Introduction

The Emergency Department is a hospital and outpatient department that, on a daily basis, deals with diverse cases that require special treatments. This is why emergency physicians must be prepared to optimally manage the procedures required to respond to each and every one of these cases. In this sense, one of the challenges faced by physicians is treating patients who have a previously diagnosed rare disease or those suspected of having one. To minimize this, the program covers the general knowledge required to correctly diagnose and treat patients with this type of disease in full detail.





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*With this Postgraduate Certificate, you will learn the work methods used with patients who have a rare disease in the emergency room, adapting to their own characteristics and applying the correct treatment in each case”*

Although so-called rare diseases affect a small percentage of the population, physicians of all types must be aware of them and know how to properly deal with them. This is even more true in the case of emergency physicians, since they can never be sure of the type of patient requiring their services, so acquiring transversal skills that allow them to treat or diagnose a rare disease is very important in their professional practice.

Being fully aware of this, the teaching team at TECH, made up of high-level physicians, has designed this very complete program, which aims to teach emergency medicine professionals to acquire general and epidemiological knowledge of rare diseases that will enable physicians to work successfully and channel the treatment of their patients.

Likewise, during the course, participants will also be provided with the necessary knowledge that will enable them to sharpen their senses and suspect with a high probability rate cases where a rare disease may have gone undiagnosed. In this sense, the program will cover the most common symptoms and signs and the most effective diagnostic methods to identify with certainty whether the patient has a rare disease.

Moreover, throughout the program, special emphasis will be placed on rare diseases such as hereditary angioedema, congenital coagulopathies or porphyria, among others, with the aim of teaching emergency physicians to diagnose and treat these diseases from the emergency department.

All this knowledge in the field of rare diseases will provide emergency medical professionals with a series of invaluable skills for daily work and will turn them into prestigious professionals in the field. They will also allow them to maximize their professional results, thus becoming much more efficient physicians, able to treat patients of all kinds.

It should be noted that this is an online program, so students do not have to commute or adhere to fixed schedules. On the contrary, this specialization is totally flexible, so students only need a computer or mobile device with an Internet connection to be able to take this Postgraduate Certificate at their own accord, so they can balance it with the rest of their daily obligations.

This **Postgraduate Certificate in Rare Diseases in Emergency Services** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ Numerous practical cases presented in form of *In Focus* videos and clinical videos made by experts in Emergency Medicine
- ♦ 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 activity presentations on procedures and techniques
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ Action protocols and clinical practice guidelines which cover the most important latest developments in this specialist area
- ♦ All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Its special emphasis on evidence-based medicine and research methodologies in dealing with patients requiring Emergency services
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*With this program, you will learn how to correctly work on cases where the patient is suspected to have a rare disease”*

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*This Postgraduate Certificate will undoubtedly make you a much more competent and sought-after professional in the field of emergency medicine. Don't wait any longer to be among the best in the field”*

The program's teaching staff includes medical professionals, who bring their experience to this program, as well as renowned specialists from leading scientific communities 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 specialization 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 throughout the program. For that purpose, students will be assisted by an innovative, interactive video system created by renowned and extensively experienced experts in nutritional counseling in the healthy population.

*TECH offers you the most complete, up-to-date, and current program with a single objective: To aid in your professional growth.*

*You are just one click away from taking your professional career to the next level. Start studying at TECH today and discover a new world of possibilities.*



# 02 Objectives

TECH has one goal: to educate the most competent professionals in the field of emergency medicine and, therefore, the most sought after. To this end, it makes use of a very complete content bank designed in multimedia formats and adapted to the current student needs. Likewise, TECH assures students that, by training here, they will have access to the most reputable professionals in the field, who pour their years of practical experience into this specialization program. In short, the perfect union of professionals, syllabus and content make it possible for this University to optimally train the best physicians in the area.







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*Start to grow as an emergency physician with the most complete and updated program available”*



## General Objective

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- The program provides a body of general and specific knowledge that will allow physicians to learn to work correctly with patients who come to the Emergency Department diagnosed with a rare disease. It will also provide students with the necessary skills to act in cases where the patient is suspected of suffering from a pathology of this type. All this will make you a much better qualified and specialized professional.



*If your goal is to give a boost to your career and fulfill your professional objectives, then do not hesitate, this program is for you"*





## Specific Objectives

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- ◆ Acquire general and epidemiological knowledge of rare diseases
- ◆ Review the reasons for patient consultation in the emergency department in cases of known Rare Diseases
- ◆ Delve into the knowledge that enables a high index of suspicion of rare diseases and their most frequent causes in consultation
- ◆ Delve deeper into the general knowledge, diagnosis and emergency treatment of hereditary angioedema
- ◆ Delve into the general knowledge, diagnosis and emergency treatment of congenital coagulopathies
- ◆ Study the general knowledge, diagnosis and emergency treatment of porphyria in more detail
- ◆ Acquire general knowledge, diagnosis and emergency treatment of other rare diseases

# 04

# Course Management

The design and creation of the theoretical and multimedia materials has been carried out by a team of leading professionals in the area of emergency medicine, who carry out their professional activity in the main hospitals in the country. They will be in charge of educating students, transferring all their practical experience so they are able to efficiently manage cases where patients have been diagnosed with a rare disease or where the medical professional suspects the present of one of them.



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*The best University has best professionals. Don't miss the opportunity to study with the best"*

## International Guest Director

Dr. Ugo Ezenkwele is an eminent expert in the field of emergency medicine and managerial leadership in healthcare. His extensive experience in healthcare is coupled with his clinical and academic management skills. In this regard, his deep medical knowledge has led him to become **Head of Emergency Medicine at Mount Sinai Queens**. With his arrival in the position, innovative programs such as the ED Observation Unit, ED Geriatric Certification, Telemedicine, Emergency Management and Disaster Preparedness were launched to improve performance and patient experience.

In 2021, Dr. Ezenkwele received recognition for his outstanding work with the Crains New York award for Notable Black Leader and Executive. He has also earned numerous prestigious recognitions such as the **Vituity Award in Executive Leadership**, the National Medical Association's Service Excellence Award and the Visionary Educator Award from the Academic Society of Emergency Medicine.

His excellent management skills have led him to assume leadership roles in major medical organizations, serving as **president of the National Medical Association's Section of Emergency Medicine** and **vice president of the Society for Academic Emergency Medicine's Academy of Diversity and Inclusion in Emergency Medicine**. In both positions, he worked to implement policy changes with the goal of positively impacting the next generation of physician leaders and the communities they serve. In addition, he is an advisor to the American College of Emergency Physicians (ACEP) and an oral examiner for the American Board of Emergency Medicine (ABEM), responsibilities that demonstrate his commitment to continuous improvement in medical practice and his dedication to training skilled physicians.



## Dr. Ezenkwele, Ugo

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- Head of the Department of Emergency Medicine at Mount Sinai Queens, Astoria
- Attending Physician at Woodhull Medical and Mental Health Center an NYU Langone Affiliate Hospital
- Vice Chair of Emergency Medicine at Woodhull Medical and Mental Health Center an NYU Langone Affiliate Hospital
- Physician Liaison for Clinical Faculty Recruitment - NYULMC Clinical Affairs Department
- M.D. from Johns Hopkins University
- MPH International Health Johns Hopkins University
- BS in Biology Johns Hopkins University
- Vituity Wes Curry Award for Executive Leadership
- Crains New York Business Notable Black Leader & Health Executive
- Excellence in Leadership - Woodhull Medical and Mental Health Center
- National Medical Association's Emergency Medicine Section Leadership Award
- National Medical Association Excellence in Service Award (2013 and 2014)
- President of the American College of Emergency Physicians (ACEP) Diversity, Equity and Inclusion Committee
- ABEM Oral Board Examiner

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*You will have access to a library of multimedia resources 7 days a week, 24 hours a day”*

## Management



### Dr. Torres Santos-Olmo, Rosario María

- ♦ Area Specialist in the Adult Emergency Department at La Paz Hospital, Madrid
- ♦ Degree in Medicine and Surgery
- ♦ PhD in Medicine and Surgery
- ♦ Specialist in Family and Community Medicine
- ♦ Master's Degree in Palliative Care and Supportive Neoplastic Patients Care
- ♦ Life Support Instructor (BLS, ALS, ILS, ATLS)
- ♦ Master's Degree in Palliative Care and Supportive Neoplastic Patient Care
- ♦ Master's Degree in Patient Safety and Health Risk Management.
- ♦ Clinical Collaborator at the Autonomous University of Madrid



### Dr. Rivera Núñez, María Angélica

- ♦ Assistant Coordinator in the Emergency Department at La Paz University Hospital, Madrid
- ♦ Surgeon at Universidad de Chile, Santiago de Chile
- ♦ Doctorate in Medicine and Surgery, Autonomous University of Madrid
- ♦ Specialist in Internal Medicine from the Catholic Pontificia University, Chile
- ♦ Certificate in Emergency Medicine
- ♦ Specialist Physician in Emergency Medicine at La Paz University Hospital, Madrid



## Professors

### Dr. Cancelliere, Nataly

- ♦ HULP Emergency Department Specialist in
- ♦ Doctorate in Medicine from the Autonomous University Madrid
- ♦ Specialist in Ophthalmology at University Hospital La Paz
- ♦ Master's Degree in Emergency Medicine, SEMES

### Dr. González Viñolis, Manuel

- ♦ HULP Emergency Department Attendant
- ♦ Degree in Medicine and Surgery from La Laguna University
- ♦ Master's Degree in Clinical Unit Management from the University of Murcia

### Dr. Martínez Zarza, Ana María

- ♦ Quality and Teaching Coordinator in the HULP Emergency Department
- ♦ Graduate in Medicine and Surgery from the University of Valladolid
- ♦ PhD in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Master's Degree in Medical and Clinical Management from the National University of Distance Education, Spain
- ♦ Medical - Surgical Emergencies Expert
- ♦ HULP Emergency Department Attending Physician

### Dr. Maroun Eid, Charbel

- ♦ Attending Emergency Physician at HULP
- ♦ Degree in Medicine and Surgery from Gallegos Rómulo University
- ♦ Master's Degree in Cardiovascular Risk Prevention from Alcalá University

### Dr. Martín Quirós, Alejandro

- ♦ HULP Emergency Department Attending Physician
- ♦ Degree in Medicine and Surgery from the University of Cadiz
- ♦ PhD from Universidad Autónoma de Madrid within the Program in Medicine

### Dr. Mayayo Alvira, Rosa

- ♦ Head of the Toxicology Unit in the HULP Emergency Department
- ♦ Degree in Medicine from Rovira i Virgili University
- ♦ HULP Emergency Department Attending Physician

### Mr. Rubio Bolivar, Javier

- ♦ HULP Simulation Technician
- ♦ CEASEC Simulation Technician

# 05

## Structure and Content

The structure of the curriculum has been specially designed by a team of medical professionals, who are fully aware of the importance of university studies in hospital and out-of-hospital emergencies, especially in the area of comprehensive service management. This team, aware of the relevance and timeliness of training, and committed to quality teaching through the use of innovative formats, has created this educational program specially designed for physicians to learn how to successfully manage cases that come to the emergency department with previously diagnosed rare diseases or where there is suspicion of one of them.





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*A comprehensive teaching program, structured in well-developed teaching units, oriented towards efficient and swift learning”*

**Module 1.** Rare Diseases in Epidemiology Emergencies and Rare Disease Problem Magnitude

- 1.1. Epidemiology and Rare Disease Problem Magnitude
- 1.2. Rare Diseases in Emergency Service Consultations
- 1.3. Hereditary Angioedema
- 1.4. Congenital Coagulopathies
- 1.5. Porphyrrias
- 1.6. Other Rare Diseases
- 1.7. Implementing Emergency Protocols. Current Situation
- 1.8. Useful Computer Applications for Emergency Physicians
- 1.9. Integration of Rare Disease Associations into the Emergency Department





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*Welcome, you are just one click away from taking your professional career to the next level. Don't let this opportunity slip away”*

06

# 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

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*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 adapted in 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 Rare Diseases in Emergency Services 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 Rare Diseases in Emergency Services** 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 Rare Diseases in Emergency Services**

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 languages  
virtual classroom



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