

# Postgraduate Certificate

## Endocrinological Emergencies





## Postgraduate Certificate Endocrinological Emergencies

- » 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/postgraduate-diploma-endocrinological-emergencies](http://www.techtute.com/us/medicine/postgraduate-certificate/postgraduate-diploma-endocrinological-emergencies)

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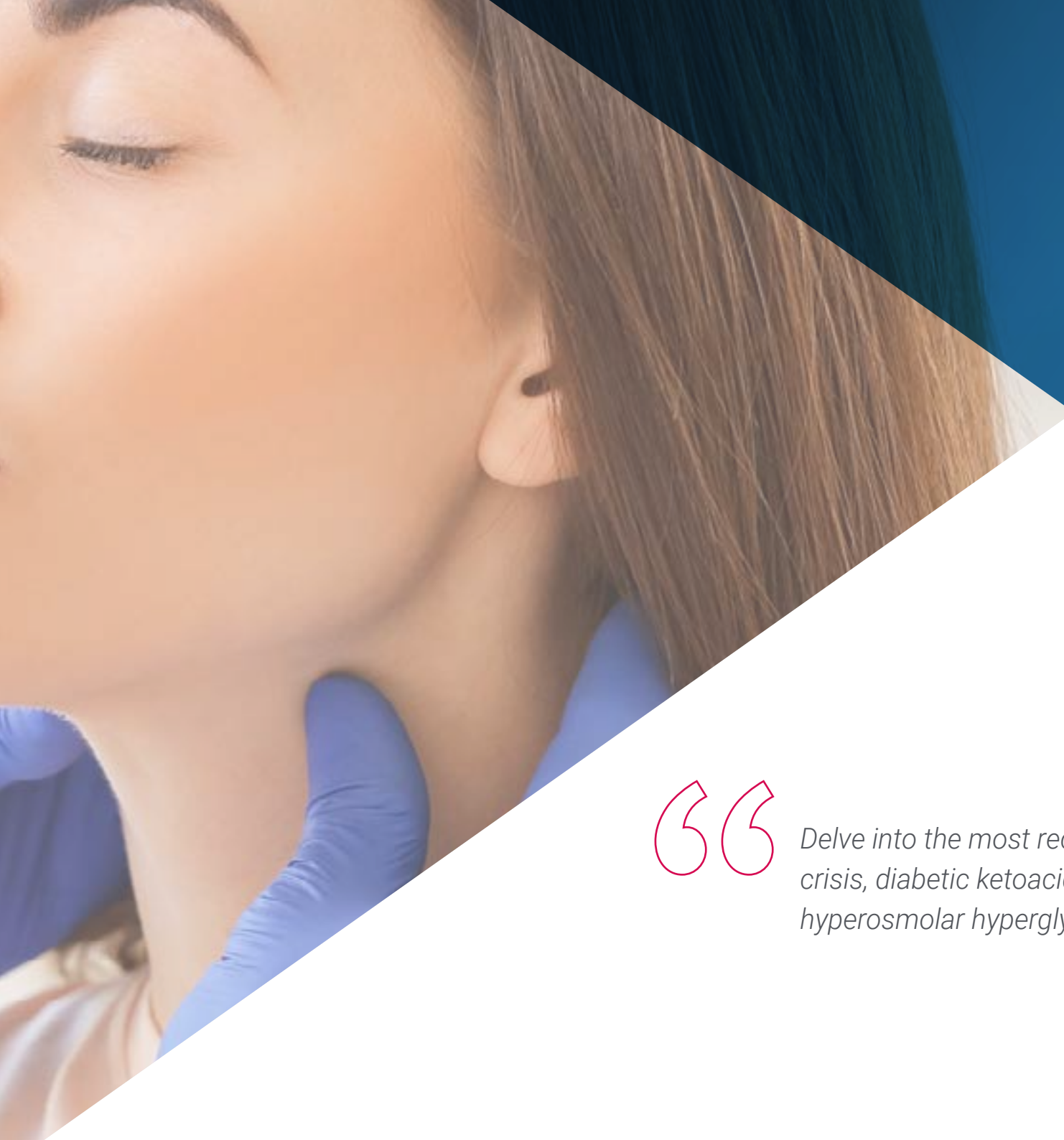
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# 01

# Introduction

Endocrinological emergencies such as acute adrenal insufficiencies or hypercalcemia are a challenge for specialists, who must have the best possible set of tools and knowledge to address them with the best possible praxis. Since these are endocrinological issues of aspecial interest, it is almost imperative for the specialist to keep up to date with the latest postulates and possible treatments. To facilitate this work, TECH has created this complete university program, which covers the most relevant Endocrinological Emergencies, including those affecting the field of pediatrics. The syllabus has been written by an expert faculty in the field, which gives a scientific and practical vision to all the material taught.





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*Delve into the most recent findings on thyrotoxic crisis, diabetic ketoacidosis or non-ketotic hyperosmolar hyperglycemic hyperglycemic crisis”*



Conditions such as hypoglycemia, diabetic ketoacidosis, thyrotoxic crisis or hypocalcemia can be serious if not treated in time, so the specialist must be accurate in diagnosing and treating them. Having access to the latest scientific postulates and the most effective practical theory is a significant advantage. For this reason, TECH has created this program which brings together, in a convenient and accessible way, the main studies on the most relevant Endocrinological Emergencies.

Thanks to the combination of the teaching team's practical knowledge and the most current scientific theory, the didactic material is greatly enriched. It includes real case studies, complementary readings for each topic, detailed videos on the most relevant points and various activities to help contextualize the subject. In this way, the specialist has everything in their hand to be updated in a deep and reliable way in Endocrinological Emergencies.

All this in a completely online format that respects the most demanding personal and professional responsibilities. The entire syllabus is available for download from the first day of the degree, and can be studied from any device with an internet connection. This means that the specialist has total freedom to assume the teaching load, without being tied to fixed schedules or face-to-face classes.

This **Postgraduate Certificate in Endocrinological Emergencies** is the most complete and up-to-date educational program on the market. The most important features include:

- ◆ The development of case studies presented by experts in Endocrinology
- ◆ The graphic, schematic, and eminently 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 for experts and individual reflection work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection

“ Access to the most current scientific postulates on a multitude of Endocrinological Emergencies, including clinical videos for each of them”

“

*You will be updating your knowledge with the largest online academic institution in the world, which provides you with the most useful technological-educational resources”*

*At TECH you choose when, where and how to study, without having to attend classes, because all the material is available from the first day.*

*The quality of all the didactic material is just a sample of all the effort and thoroughness with which the teaching staff has approached all the subjects.*

The program's teaching staff includes professionals from the sector who contribute their work experience to this training 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 training programmed to train 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 student will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02 Objectives

Given that Endocrinological Emergencies are of interest to a large number of specialists, TECH has proposed this Postgraduate Certificate, which combines the latest scientific theory with the practical vision of its faculty. In this way, the specialist is assured that they will have a total and complete update, being able to incorporate the knowledge imparted throughout this program into their daily practice.





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*You will be personally advised by all the teachers of this Postgraduate Certificate, who will be happy to answer all your questions and concerns regarding Endocrinological Emergencies”*



## General Objective

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- ◆ Be able to accurately interpret currently available clinical information and associate it effectively in clinical practice



*Incorporate into your daily practice the most effective and recent practical methods, contrasted by the program's own teachers"*





## Specific Objectives

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- ◆ Know the most frequent causes that occur in the most common endocrine and metabolic emergencies, developing the activities to be carried out with the patient in the situations described in the contents
- ◆ Prioritize the actions to be carried out according to their importance for the patient's life
- ◆ Identify the differential diagnosis in relation to the metabolic and electrolyte alterations of these pathologies
- ◆ Recognize the importance of the evaluation of blood analysis and metabolic values in the detection of related problems

# 03

# Course Management

TECH has given the responsibility of writing this Postgraduate Certificate to a teaching team composed of physicians from different specialties both in the field of hospital emergencies and endocrinology and nutrition itself. Their own experience is a guarantee of the accuracy and adequacy of all topics to the most current real practice. Therefore, the specialist will have access to real clinical cases during the program, which will be of great help in contextualizing the whole subject.







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*You will be sure to receive an effective update with professionals who know Endocrinological Emergencies first hand”*



## International Guest Director

Awarded on multiple occasions for her contribution to the field of Medicine, Dr. Susan Samson is a prestigious physician highly specialized in **Endocrinology, Diabetes** and **Metabolism**. In fact, she has devoted most of her professional career to optimizing the overall well-being of patients with endocrine disorders, ranging from *Diabetes Mellitus* to Hyperthyroidism.

Therefore, she has carried out her duties in health institutions of international reference such as the Mayo Clinic Hospital in the United States. Among her main achievements, she has developed innovative **evaluation methodologies** based on the latest scientific evidence. This has enabled healthcare professionals to design **personalized** and more effective **treatments**, taking into account the specific needs of each user. At the same time, it has implemented various monitoring programs based on emerging technologies such as **Telemedicine** and even **Artificial Intelligence**. Thanks to this, it has enabled **real-time monitoring** of the clinical status of numerous individuals with **chronic diseases** to improve their quality of life.

On the other hand, she has balanced these tasks with her role as **President of the American Association of Clinical Endocrinology**. In this way, she has contributed significantly to the creation of **care protocols** for people with different conditions. She has also collaborated with regulatory agencies to develop **health policies** to address the optimization of care for patients with long-term conditions.

In her commitment to clinical excellence, she has led several **scientific research** projects in areas ranging from addressing **Pituitary Pathologies** or **Acromegaly** to **Cushing's Disease**. Likewise, these findings have driven advances to maximize the quality of care. In this sense, her work has been rewarded in the form of awards, such as the "Rising Star Award" given by the Baylor College of Medicine for her outstanding leadership.



## Dr. Samson, Susan

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- ♦ President of the Department of Endocrinology at Mayo Clinic Hospital in Florida, United States
- ♦ President of the American Association of Clinical Endocrinology
- ♦ Director of the Baylor St. Luke's Pituitary Center in Texas
- ♦ Internship in Endocrinology, Diabetes and Metabolism at Baylor College of Medicine
- ♦ M.D. from Queen's University
- ♦ Doctor of Philosophy with specialization in Molecular Biology, University of Calgary
- ♦ Member of the Royal College of Physicians and Surgeons of Canada

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*Thanks to TECH, you will be able to learn with the best professionals in the world”*

## Management



### **Dr. Gargantilla Madera, Pedro**

- Chief of Internal Medicine Service of El Escorial University Hospital
- Professor of the Francisco de Vitoria University
- Science communicator and regular contributor to various media (RNE, Abc digital, Huftington post, Cinco Noticias)
- Member of the Association of Medical Writers and Artists (ASEMEYA)
- Master's Degree in Clinical Unit Management



## Professors

### Dr. Torres Rodríguez, Enrique

- ◆ Chief of the Emergency Department of the Hospital de El Escorial in Madrid
- ◆ Specialist in Internal Medicine
- ◆ Master's Degree in Healthcare Unit Management

### Dr. Mattei, Isabella

- ◆ Assistant Physician in Endocrinology and Nutrition at the Hospital 12 de Octubre in Madrid and at the Hospital Fundación Jiménez Díaz spending two days a week in general practice
- ◆ Resident Physician in Endocrinology and Nutrition at the 12 de Octubre University Hospital in Madrid
- ◆ Degree in Medicine and Surgery from the University of Florence

### Dr. Albi Rodríguez, Salomé

- ◆ Assistant, Pediatrics Department, 12 de Octubre University Hospital, Madrid
- ◆ University Degree in Medicine and Surgery from the Complutense University of Madrid
- ◆ Doctor in Medicine and Surgery at the Autonomous University of Madrid
- ◆ Specialty of Pediatrics and Specific Areas

# 04

## Structure and Content

The structure and contents of this program have been designed to be as concise and precise as possible for the specialist. This is done not only to help in the study work itself, but also to facilitate the subsequent consultation of all kinds of doubts, making the agenda an excellent reference resource. By using the educational methodology of *relearning*, the specialist will not have to invest excessive hours of study to expand and modernize all their knowledge regarding the most relevant Endocrinological Emergencies.





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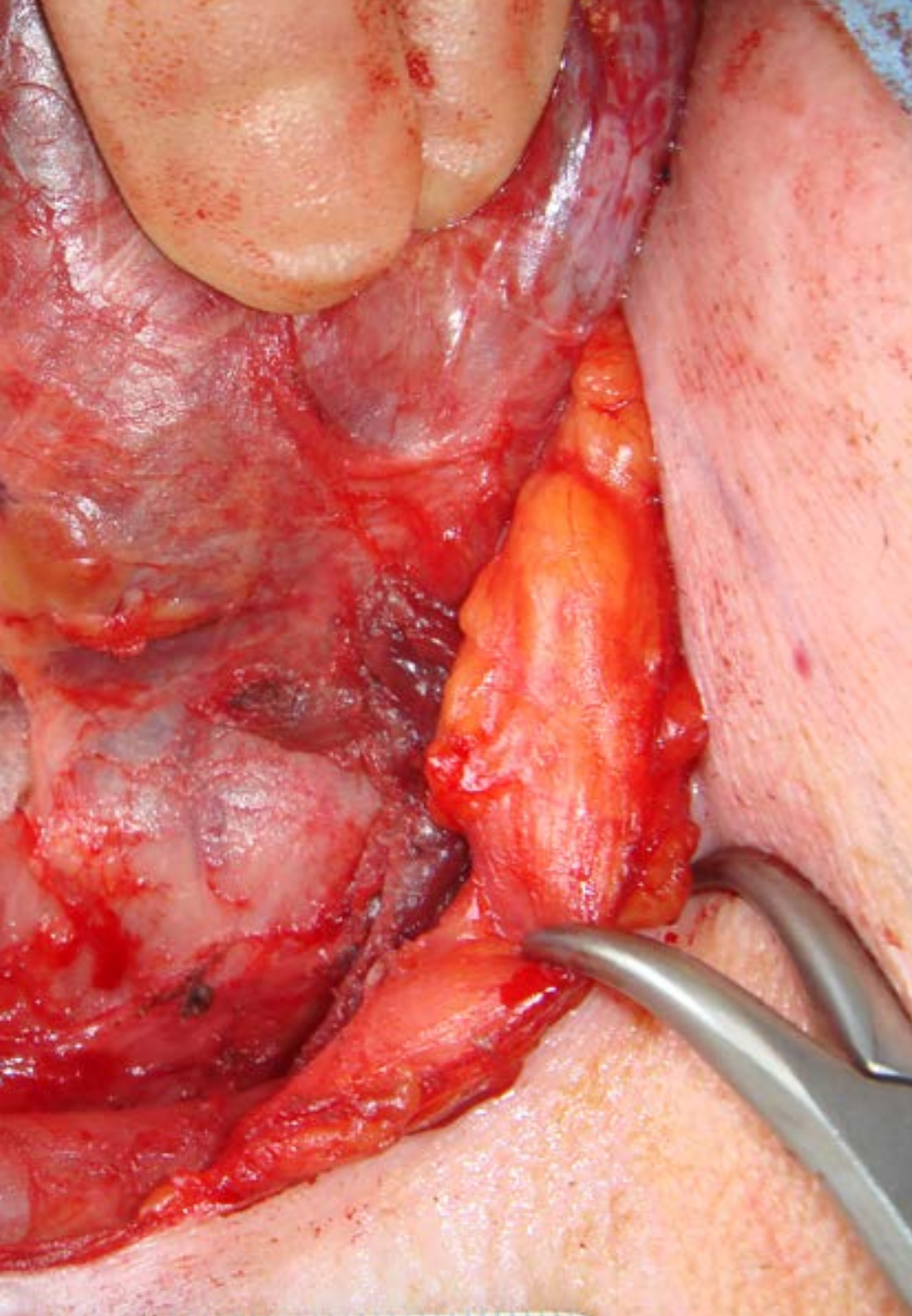
*The virtual classroom will be available 24 hours a day, and you can even download part or all of the syllabus to study it on the device of your choice"*

## Module 1. Endocrinological Emergencies

- 1.1. Thyrotoxic Crisis
- 1.2. Myxedematous Coma
- 1.3. Non-Ketotic Hyperglycemic Hyperosmolar Crisis
- 1.4. Diabetic ketoacidosis
- 1.5. Acute Adrenal Insufficiency
- 1.6. Hypoglycemia
- 1.7. Pituitary Apoplexy
- 1.8. Hypocalcemia
- 1.9. Hypercalcemia
- 1.10. Pediatric Endocrinologic Emergencies







“*All topics are developed in a comprehensive and scientific way, providing you with numerous references, real data and even clinical videos*”

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.*





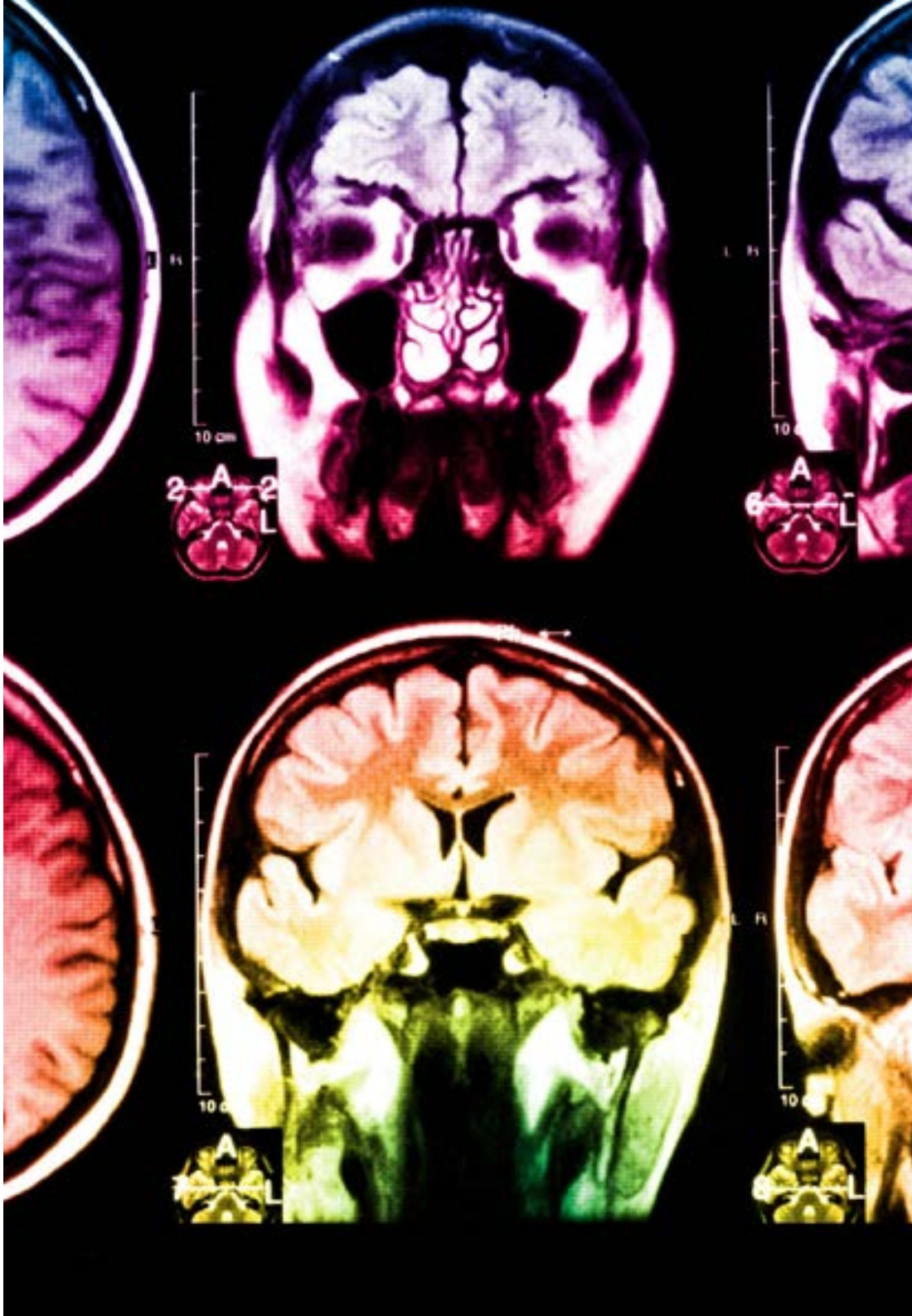
At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

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".

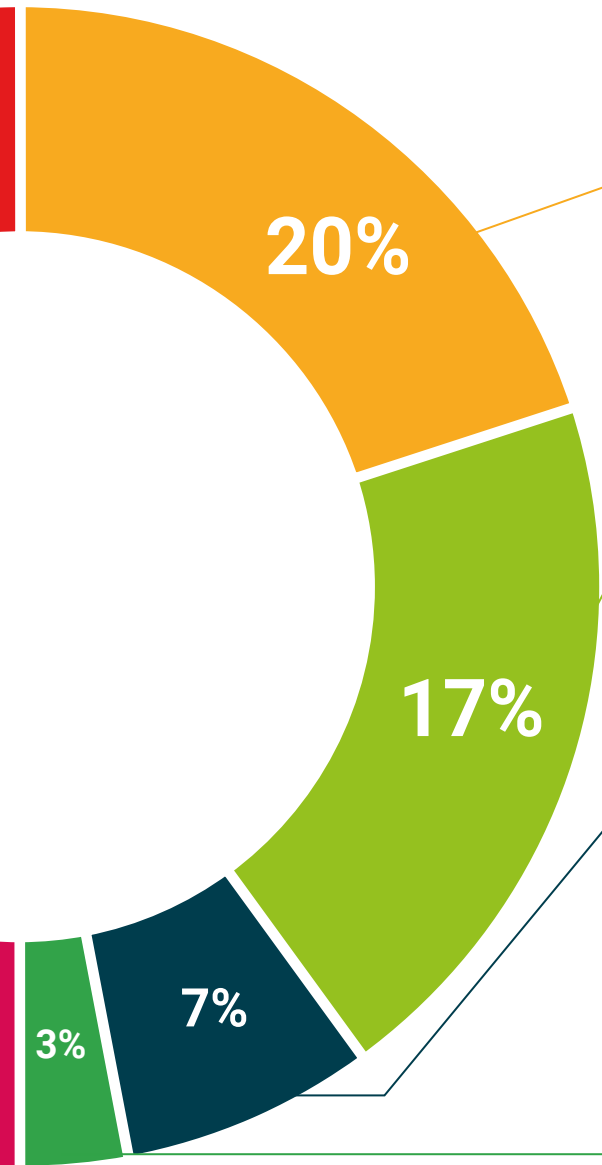


### Additional Reading

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 Endocrinological Emergencies guarantees, 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 Endocrinological Emergencies** 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 Endocrinological Emergencies**

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 quality  
online training  
development languages  
virtual classroom



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