

Postgraduate Certificate

Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital Care





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Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital Care

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 3 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techitute.com/us/medicine/postgraduate-certificate/gastrointestinal-renal-urological-endocrine-emergencies-out-of-hospital-care



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01

Introduction

In the Out-of-Hospital Care context, medical emergencies related to the gastrointestinal, renal and urological, and endocrine systems represent significant challenges for healthcare professionals as they require rapid yet effective interventions. For this reason, specialists must regularly update their knowledge to incorporate the most innovative diagnostic techniques into their practice, improving clinical outcomes and reducing the morbidity and mortality associated with these conditions. Additionally, it is essential for healthcare professionals to have a comprehensive understanding of the appropriate management strategies to address scenarios with limited resources. In this context, TECH offers a revolutionary online university qualification that will thoroughly address the most advanced procedures for managing these emergencies in Out-of-Hospital Care.





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Thanks to this Postgraduate Certificate based on Relearning, you will lead medical teams in handling a variety of Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital Care”

To assist you in this task, TECH presents a pioneering Postgraduate Certificate in Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital Care. Designed by leaders in this field, the academic itinerary will delve into clinical conditions ranging from acute gastroenteritis or urinary tract infections to electrolyte imbalance disorders. In this way, graduates will develop the technical competencies to carry out therapeutic procedures such as abdominal ultrasound interpretation, urinalysis, and even blood tests. As such, experts will optimize the clinical condition of patients in critical situations and significantly improve their recovery prognosis.

Furthermore, the program is delivered in a fully online format, allowing graduates to personalize their study time. Additionally, TECH employs its innovative learning system, Relearning. This approach allows physicians to consolidate the concepts in the syllabus progressively and naturally, without resorting to costly techniques such as traditional memorization. To access the Virtual Campus, all professionals need is an electronic device with internet access. In this way, healthcare professionals will have access to the most up-to-date and comprehensive academic resources on the market. .

This **Postgraduate Certificate in Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital 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 Out-of-Hospital Medical Emergencies
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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



An intensive curriculum that will provide you with the most sophisticated stabilization techniques for managing Urological Emergencies such as acute urinary retention"

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You will explore the management of drug-induced poisoning resulting from endocrinometabolic conditions, including drug-induced hypoglycemia from antidiabetic medications”

The program's teaching staff includes professionals from the field 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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts.

Do you want to enhance your competencies in interpreting rapid diagnostic tests such as electrocardiograms? With this Postgraduate Certificate, you will achieve this in just 90 hours.

TECH's 100% online methodology will allow you to choose the time and place to update your knowledge, without disrupting your professional duties.



02 Objectives

Through this Postgraduate Certificate, healthcare professionals will gain a comprehensive understanding of the most effective diagnostic techniques for managing Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital Care. In line with this, graduates will acquire advanced competencies to perform quick and accurate assessments of patients' clinical status through procedures such as auscultation, abdominal palpation, or urinalysis, among others. As a result, professionals will detect conditions such as intestinal obstructions, severe urinary infections, or hyperglycemic crises. Thanks to this, they will implement the most appropriate therapies to stabilize patients until they reach the hospital setting.



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You will incorporate the most cutting-edge techniques into your daily clinical practice to stabilize patients in severe emergencies, including airway management and drug administration”



General Objectives

- ♦ Analyze the management of multiple victim incidents and disasters
- ♦ Identify diagnostic and therapeutic techniques in emergency situations
- ♦ Explore the principles of pharmacology applied to medical emergencies
- ♦ Examine the most innovative emergency protocols and procedures



You will update your knowledge through educational materials available in formats such as interactive summaries or explanatory videos, which will enhance your academic experience”





Specific Objectives

Module 1. Gastrointestinal Emergencies

- ♦ Assess acute abdominal pain using clinical evaluation techniques and diagnostic tools to identify the underlying cause and determine the appropriate treatment
- ♦ Identify emergencies such as acute gastrointestinal bleeding and vascular disorders, implementing rapid and effective interventions to control blood loss and stabilize the patient
- ♦ Delve into intestinal obstruction and acute gastroenteritis, applying management protocols based on best practices to alleviate symptoms and prevent complications
- ♦ Explore cases of acute pancreatitis, acute biliary pathology, and acute anal pathology, using specific therapeutic approaches for each condition, ensuring comprehensive and effective patient care

Module 2. Renal and Urological Emergencies

- ♦ Identify the main nephrourological emergencies, understanding their clinical manifestations and diagnostic methods for early and effective intervention
- ♦ Address conditions such as renal and excretory system lithiasis and urinary retention, using appropriate techniques to alleviate symptoms and prevent complications
- ♦ Define urinary tract infections and acute renal failure, applying evidence-based treatment protocols to improve the patient's prognosis
- ♦ Analyze cases of hematuria, acute scrotal syndrome, and urethral pathology, implementing specific therapeutic strategies for each condition and ensuring comprehensive and effective care

Module 3. Endocrine and Metabolic Emergencies

- ♦ Delve into glucose metabolism disorders, such as hypoglycemia and diabetic ketoacidosis, applying rapid and effective interventions to stabilize the patient
- ♦ Assess thyroid emergencies, such as thyroid crises and myxedema, using appropriate clinical protocols to control symptoms and prevent complications
- ♦ Evaluate acid-base imbalances, identifying underlying causes and applying specific therapies to restore physiological balance
- ♦ Define fluid and electrolyte imbalances, applying therapeutic strategies to adjust fluid and electrolyte levels, ensuring homeostasis and patient stability

03

Course Management

For the design and delivery of this Postgraduate Certificate, TECH has enlisted the services of a top-tier faculty composed of true experts in the field of Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital Care. These professionals not only stand out for their holistic knowledge in these areas but also have an extensive professional background where they have significantly enhanced the quality of life of numerous patients. In this way, graduates will have access to an immersive experience that will allow them to significantly optimize their daily practice.



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You will have the support of a teaching team composed of leaders in the field of Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital Care”

Management



Dr. Sendra Más, Juan Amaro

- ♦ Attending Physician in the Emergency Department at Vega Baja Hospital. Alicante, Spain
- ♦ Emergency Physician of the Medicalized Emergency Unit (UME 1)
- ♦ Physician in the Medical Emergency Service (SAMU)
- ♦ Helicopter Medicalized Physician
- ♦ Degree in Medicine and Surgery from the University of Alicante
- ♦ Specialist in Family and Community Medicine
- ♦ Accredited Professor for the Spanish Society of Emergency Medicine
- ♦ Member of the Spanish Society of Emergency Medicine

Teachers

Dr. Perales Cano, Raquel

- ♦ Specialist in Family and Community Medicine
- ♦ Primary Care Physician at La Loma Health Center
- ♦ Specialist in the Emergency Department at Vega Baja Hospital
- ♦ Physician of the Medicalized Emergency Unit 1 of the Murcia Health Service
- ♦ SAMU Health Professional

Dr. Gavilán Martín, Cristina

- ♦ Pediatric Emergency Physician at the General University Hospital of Elche
- ♦ Specialist in Family and Community Medicine
- ♦ Doctor of Medicine from the Miguel Hernández University of Elche
- ♦ Degree in Medicine and Surgery from the University of Alicante
- ♦ APLS credential from the American Academy of Pediatrics and the American College of Emergency Physicians
- ♦ Professor in University Master's Programs and Postgraduate Courses.
- ♦ Member of: Spanish Society of Pediatric Emergencies (SEUP)

Dr. Fernández Martínez, María Ángeles

- ♦ Biochemist-Nutritionist-Phytotherapist, Head of the Natural Life Nutrition Center
- ♦ Manager of Parapharmacy, Dermopharmacy, Nutricosmetics, and Phytotherapy
- ♦ Bachelor's degree in Biochemistry from the University of Valencia
- ♦ University Expert in Nutrition, Dietetics, and Dietotherapy
- ♦ Expert in Microbiological Analysis of Food
- ♦ Expert in Prevention and Treatment with Nutrition, Diet, and Cancer
- ♦ Expert in Clinical and Sports Vegetarian Nutrition
- ♦ Specialist in Food Intolerances and Study of the Gut Microbiota
- ♦ Numerous courses in Gut Microbiota, Analytical Methods, and Applications
- ♦ Diploma in Natural and Orthomolecular Medicine
- ♦ Expert in Current Use of Nutricosmetics and Nutraceuticals
- ♦ Expert in Point of Sale Management in Pharmacies and Parapharmacies
- ♦ Member of: Spanish Society of Probiotics and Prebiotics (SEPyP), Spanish Society of Dietetics (SEDCA), Spanish Society of Nutrition (SEÑ)

Dr. López Llames, Aurora

- ♦ Specialist in Otorhinolaryngology
- ♦ Head of the Otorhinolaryngology Department at Torrevieja University Hospital
- ♦ Specialist Physician at Menorca Ib-Salut
- ♦ Otorhinolaryngologist at the Central University Hospital of Asturias
- ♦ Master's in Clinical Management from the Open University of Catalonia
- ♦ Degree in Medicine and Surgery from the University of Oviedo

Dr. Pérez Marín, Estefanía

- ♦ Specialist in Mental Health
- ♦ Specialist in Psychiatry at the General University Hospital of Elche
- ♦ Degree in Medicine and Surgery from the Miguel Hernández University of Elche
- ♦ Expert in Mental Health Emergencies

Dr. Medina Martínez, María Ángeles

- ♦ Medical Director and Co-Founder of Healthy Blue Bits
- ♦ Specialist in Family and Community Medicine, Ministry of Health, Generalitat Valenciana
- ♦ Co-Founder of Toubabs Team
- ♦ Degree in Medicine from the Miguel Hernández University of Elche
- ♦ Postgraduate in Clinical Management from the Open University of Catalonia
- ♦ Postgraduate in Public Health and Community Health from the University of Murcia
- ♦ Member of: ASD (Vocal), SoVaMFIC (President), the Forum of Primary Care Physicians of the Valencian Community

Dr. Zazo Menargues, Juan Manuel

- ♦ Medical Coordinator at El Raval Health Center, Elche
- ♦ Primary Care Physician at San Fermín Health Center
- ♦ Researcher at the Department of Clinical Medicine, CEU Cardenal Herrera University

04

Structure and Content

With this program, physicians will gain a solid understanding of how to approach Gastrointestinal, Renal, and Endocrine Emergencies outside the hospital setting. The curriculum will focus on analyzing the most common conditions in these systems, taking into account aspects such as symptoms, the most appropriate treatments, and potential complications. As such, the syllabus will emphasize the management of acute gastrointestinal bleeding, acute renal failure, and glucose metabolism disorders. In this way, graduates will perform the necessary diagnostic techniques to stabilize patients, including intravenous fluid administration.



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You will be highly qualified to identify and treat emergencies ranging from acute renal failure to nephritic colic”

Module 1. Gastrointestinal Emergencies

- 1.1. Acute Abdominal Pain
- 1.2. Acute Gastrointestinal Hemorrhage and Vascular Disorders
- 1.3. Intestinal Obstruction
- 1.4. Acute Gastroenteritis
- 1.5. Acute Pancreatitis
- 1.6. Acute Biliary Disease
- 1.7. Acute Anal Disease

Module 2. Renal and Urological Emergencies

- 2.1. Renal and Urological Emergencies
- 2.2. Renal and Excretory System Lithiasis
- 2.3. Urinary Retention
- 2.4. Urinary Tract Infections
- 2.5. Acute Renal Failure
- 2.6. Hematuria
- 2.7. Acute Scrotal Syndrome
- 2.8. Urethral Pathology

Module 3. Endocrine and Metabolic Emergencies

- 3.1. Glucose Metabolism Disorders
- 3.2. Thyroid Emergencies
- 3.3. Acid-Base Balance Disorders
- 3.4. Water Balance Disorders
- 3.5. Electrolyte Balance Disorders





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You will experience a significant leap in your career as a physician by incorporating the latest advances in Gastrointestinal, Renal, and Endocrine Emergencies in Out-of-Hospital Care into your practice. Enroll now!”

05 Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

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TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”

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 assess 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.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

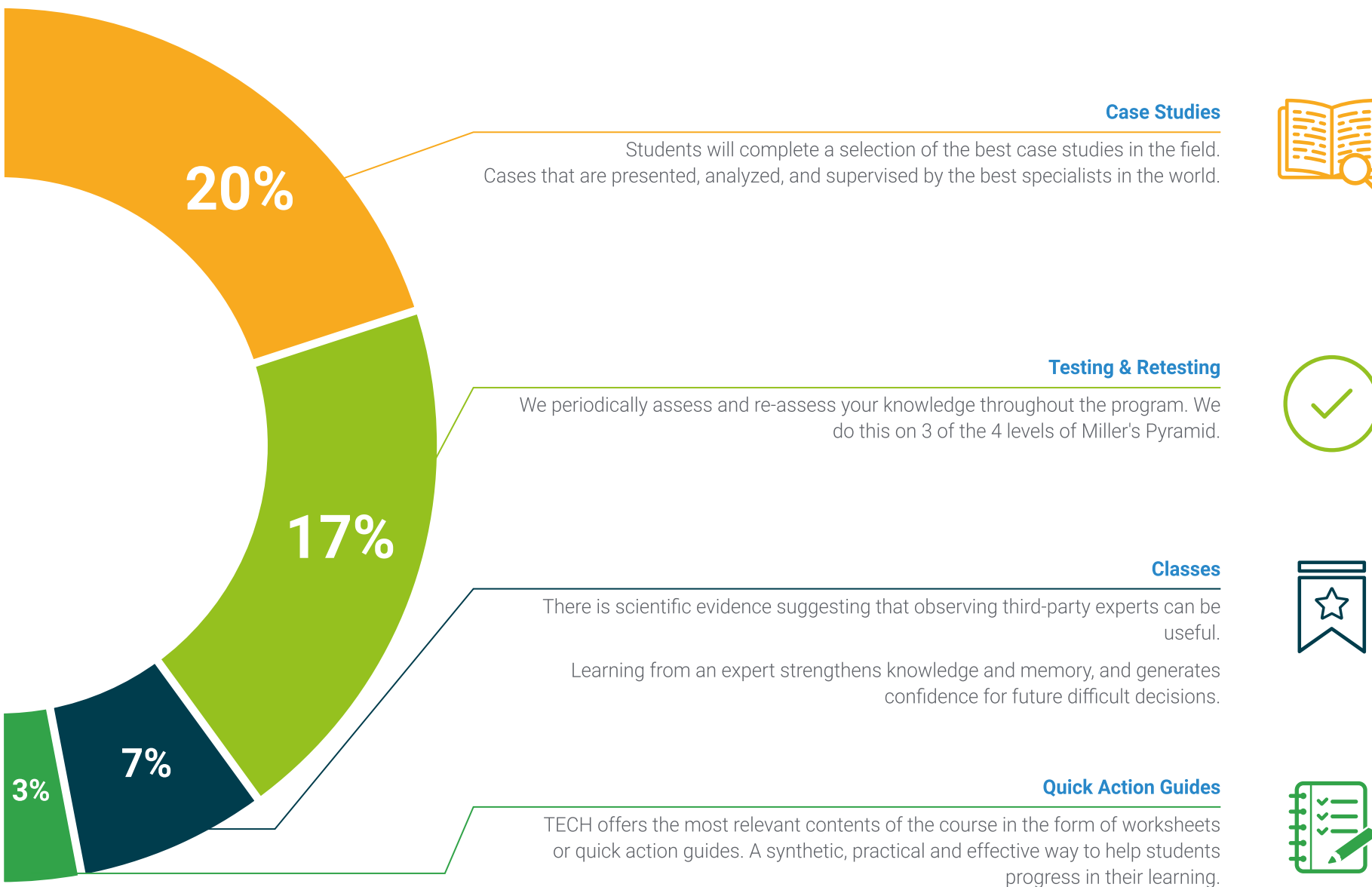
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06 Certificate

This Postgraduate Certificate in Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital Care guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the 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 private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital 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** 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 Gastrointestinal, Renal and Urological, and Endocrine Emergencies in Out-of-Hospital Care**

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