

# Postgraduate Certificate

## Pediatric Digestive and Endocrinometabolic Emergencies for Nursing





## Postgraduate Certificate

### Pediatric Digestive and Endocrinometabolic Emergencies for Nursing

- » Modality: online
- » Duration: 8 weeks
- » Certificate: TECH Global University
- » Credits: 8 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-certificate/pediatric-digestive-endocrinometabolic-emergencies-nursing](http://www.techtute.com/us/nursing/postgraduate-certificate/pediatric-digestive-endocrinometabolic-emergencies-nursing)

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# 01

# Introduction

This Postgraduate Certificate contains the latest advances in nursing procedures for pediatric digestive and endocrinometabolic pathologies, in order to guarantee a good professional practice and improve the prognosis of the child who comes to the emergency department. Through this program you will be able to update your knowledge in a practical way and based on the latest scientific evidence to care for the urgent pediatric patient.





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*This Postgraduate Certificate addresses the main advances in nursing interventions in digestive and endocrinological pathology, to reduce the sequelae and improve the child's prognosis. Learn to identify critical situations in the pediatric patient by updating your knowledge in pediatric emergencies"*

Basic and advanced knowledge of the techniques to treat urgent pathologies of digestive and endocrinometabolic etiology in pediatric patients is vital to guarantee care and avoid the appearance of serious sequelae in the child.

Undoubtedly, it is necessary for the nursing professional to maintain a constant updating of knowledge on digestive emergencies and the management of the child in the emergency situation due to severe endocrinometabolic disorders, in order to provide appropriate care and interventions, always based on the latest scientific evidence.

The Postgraduate Certificate includes the latest trends on the organization of a pediatric emergency department, the process of triage of patients according to their severity, and the need for the management of specific techniques to address digestive and endocrinological pathologies that can compromise the health of pediatric patients.

The **Postgraduate Certificate in Pediatric Digestive and Endocrinometabolic Emergencies for Nursing** contains the most complete and updated scientific program on the market. The most important features of the Postgraduate Certificate are:

- Clinical cases presented by experts in the different specialties. The graphic, schematic, and eminently practical contents with which they are created, provide scientific and healthcare information on those medical disciplines that are essential to professional practice.
- Update on the techniques performed in pediatric patients with digestive and endocrinometabolic pathology in the emergency department by the nursing professional.
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- All of this will be complemented by 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



*Update your knowledge through the Postgraduate Certificate on Pediatric Digestive and Endocrinometabolic Emergencies for Nursing in a practical way and adapted to your needs"*

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*This Postgraduate Certificate may be the best investment you can make when choosing an updated program for two reasons: in addition to updating your knowledge in Pediatric Digestive and Endocrinometabolic Emergencies for Nursing you will obtain a Postgraduate Certificate from TECH Global University”*

Forming part of the teaching staff is a group of professionals in the world of pediatric emergencies who bring to this course their work experience, as well as a group of renowned specialists, recognised by esteemed scientific communities.

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 program to train in real situations.

The design of the program is based on Problem-Based Learning, by means of which the nursing professional must try to solve the different professional practice situations that arise throughout the program. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of pediatric infections with extensive teaching experience.

*This program offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations*

*It includes clinical cases to bring the program as close as possible to the reality of care in nursing*



# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the nursing professional can master in a practical and rigorous way the interventions and techniques in the emergencies in pediatric patients, in order to provide quality care.





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*This updated program will provide you with the skills to act safely in the performance of nursing practice, which will help you grow personally and professionally”*



## General Objective

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- ♦ Update the nursing professional on the different techniques and procedures in the management of children with accidental injuries in the pediatric emergency department, in order to guarantee early recovery and avoid the appearance of serious sequelae



## Specific Objectives

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- ♦ Define the equipment required by the Pediatric Emergency Department (PED), its differential characteristics, infrastructure and necessary material
- ♦ Explain the basis of triage in the Pediatric Emergency Department, as well as its classification systems
- ♦ Describe involved in the transport of the critically ill pediatric patient and how both in-hospital and outof-hospital transport is performed
- ♦ Identify the causes of infant feeding refusal
- ♦ Differentiate the different types of acute abdominal pain, as well as the different etiologies according to pediatric age and their differential diagnosis
- ♦ Update the procedures for the most frequent gastrointestinal pathologies in pediatrics
- ♦ Evaluate the different types of dehydration and their management
- ♦ Review the main characteristics of celiac disease and its management in the PED
- ♦ Update knowledge about gastroesophageal reflux and its management in the PED
- ♦ Apply the hygienic-dietary measures for the management of constipation as well as the criteria for its identification and treatment





- ♦ Classify the different types of hepatitis that can be identified in a PED
- ♦ Describe the signs and symptoms of jaundice as well as its management
- ♦ Analyze the technique of gastric catheterization
- ♦ Review the management of the child with an ostomy
- ♦ Update the procedures for dealing with a decompensated pediatric diabetic patient (hypoglycemia, hyperglycemia and diabetic ketoacidosis).
- ♦ Distinguish between the different types of electrolyte disturbances in a PED
- ♦ Identify adrenal insufficiency and its integral approach in a PED

*Take advantage of the opportunity  
and take the step to get up-to-date on  
the latest developments in Pediatric  
Digestive and Endocrinometabolic  
Emergencies for Nursing*



03

# Course Management

This program includes in its teaching staff health professionals of recognized prestige, who develop their functions in the field of pediatric emergencies, and who pour into this updated program the experience of their work. In addition, recognized specialist members of leading national and international scientific societies participate in its design and preparation.





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*Learn from reference professionals, the latest advances in nursing procedures in Pediatric Digestive and Endocrinometabolic Emergencies for Nursing"*



## International Guest Director

Dr. Todd Florin is a recognized Pediatric Emergency Physician and clinical epidemiologist, expert in Lower Respiratory Tract Infections in children, especially in the field of Bronchiolitis and Pneumonia. In addition, at international level, he is a leader in the use of biomarkers and predictive analysis to improve the diagnosis and treatment of these conditions.

In this way, he has served as Director of Research in Emergency Medicine at the Ann & Robert H. Lurie Children's Hospital in Chicago. In addition, at the same hospital, he has directed the Grainger Research Program in Pediatric Emergency Medicine, where he has led key projects, such as the CARPE DIEM study (Catalyzing Ambulatory Research in Pneumonia Etiology and Diagnostic Innovations in Emergency Medicine), a pioneering investigation of community-acquired pneumonia, as well as other global studies, such as PERN, focused on understanding the severity of pneumonia and the impact of COVID-19 in children.

Dr. Todd Florin has also received numerous awards for his outstanding medical and research work, including the Young Investigator Award from the Academic Pediatric Association, and has been recognized for his research leadership and mentorship at renowned institutions such as Cincinnati Children's Hospital Medical Center. His vision of combining translational science with clinical care has driven significant advances in the management of Pediatric Respiratory Infections.

In fact, his work has been endorsed by prestigious institutions such as the National Heart, Lung and Blood Institute and the National Institute of Allergy and Infectious Diseases. In addition, his focus on Precision Medicine has transformed the way Respiratory Infections in children are managed, contributing to the reduction of unnecessary antibiotic use.



## Dr. Florin, Todd

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- Director of Emergency Medicine Research, Ann & Robert H. Lurie Children's Hospital, Chicago, United States.
  - Chief of the Grainger Research Program in Pediatric Emergency Medicine at Ann & Robert H. Lurie Children's Hospital
  - Assistant Physician, Division of Emergency Medicine, Ann & Robert H. Lurie Children's Hospital
  - Principal Investigator of the Catalyzing Ambulatory Research in Pneumonia Etiology and Diagnostic Innovations in Emergency Medicine Study (CARPE DIEM)
  - Director of Strategy and Operations at the Society for Pediatric Research
  - Specialist in Pediatric Emergency Medicine at the Children's Hospital of Philadelphia
  - Doctor of Medicine from the University of Rochester
  - Master's Degree in Clinical Epidemiology from the University of Pennsylvania
  - B.A. in Music from the University of Rochester
  - Young Investigator Award from the Academic Pediatric Association
- Member of: Academic Pediatric Association, American Academy of Pediatrics, Pediatric Infectious Diseases Society, Society for Academic Emergency Medicine, Society for Pediatric Research



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

## Management



### Ms. Roldán del Amo, Adela

- ♦ University Diploma in Nursing. University School of Nursing Nuestra Señora de los Desamparados of Valencia.
- ♦ Specialist Nurse in Pediatric Nursing
- ♦ Pediatric Nurse in the Pediatric Hospitalization Unit 9 de Octubre NISA Hospital
- ♦ University Professor in: Diploma in Neonatal Nursing and Neonatal Intensive Care CEU – Cardenal Herrera University Moncada. Valencia
- ♦ University Professor in: First Aid, Cardiopulmonary Resuscitation and Emergency Situations CEU- ardenal Herrera University. Moncada. Valencia

## Professors

### Ms. Alfaro Ramírez, Concepción

- ♦ Diploma in Nursing. Catholic University of Valencia (UCV)
- ♦ Specialist Nurse in Pediatric Nursing
- ♦ Pediatric Emergency Services Supervisor 9 de Octubre Hospital NISA Valencia
- ♦ University Professor in: Diploma in Neonatal Nursing and Neonatal Intensive Care CEU– Cardenal Herrera University. Moncada. Valencia
- ♦ Professor in Child Nutrition Course at Nisa Hospitals Foundation

### Ms. Antón García, Gema

- ♦ University Diploma in Nursing (D.U.E.). Alicante University School of Nursing
- ♦ Obstetrics Nurse in Elche University General Hospital (Alicante). Clinical Practice Tutor
- ♦ Professional experience in childbirth and neonatology

**Ms. Balboa Navarro, Ana**

- ♦ Emergency Nurse the General Hospital of Elche (Alicante)
- ♦ Specialist Nurse in Pediatric Nursing
- ♦ Master's Degree in Nursing Sciences
- ♦ Instructor of Basic Life Support and Advanced Cardiovascular Life Support at the Spanish Society of Emergency Medicine and American Heart Association (SEMES-AHA)
- ♦ Pediatric and neonatal CPR instructor with the Spanish Group of Pediatric and Neonatal CPR
- ♦ Advanced Provider of "International Trauma Life Support" of SEMES-ITLS
- ♦ APLS credential (American Academy of Pediatrics and American College of Emergency Physicians)
- ♦ Professional teaching experience in University Masters and Postgraduate Courses

**Ms. López Ruiz, María Amparo**

- ♦ Degree in Medicine and Surgery. University of Valencia
- ♦ Pediatric Services 9 de Octubre NISA Hospital. Valencia
- ♦ Postgraduate course director: Diploma in Neonatal Nursing and Neonatal Intensive Care at CEU Cardenal Herrera– Moncada University (Valencia) and NISA Hospitals Foundation (Valencia)

**Ms. Lospitao Gómez, Sara**

- ♦ Nurse, Intensive Care Medicine Department, Fuenlabrada University Hospital, Madrid
- ♦ Cardiac Surgery Post-Surgical Intensive Care Unit (PCU) 12 de Octubre Hospital
- ♦ Coronary Intensive Care Unit 12 de Octubre Hospital
- ♦ Master's Degree in Critical Care Rey Juan Carlos University I
- ♦ Collaborating researcher in the multicenter study entitled

**D. Mora Rivero, Jorge**

- ♦ Degree in Nursing from the University of Alicante
- ♦ Master's Degree in Nursing Sciences
- ♦ Emergency Nurse at the General University Hospital of Elche (Alicante, Spain)  
Clinical Practice Tutor
- ♦ Professional teaching experience in University Masters and Postgraduate Courses
- ♦ Postgraduate Diploma in Primary Care Emergencies
- ♦ Degree in Emergency Medical Transportation (SAMU)

04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of training in daily nursing practice in the care of children in emergency situations, aware of the relevance of current training able to act in front of the patient and committed to quality teaching through new educational technologies.





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*The Postgraduate Certificate in Pediatric Digestive and Endocrinometabolic Emergencies for Nursing , contains the most complete and updated scientific program on the market”*

## Module 1. Nursing Care in Digestive Emergencies

- 1.1. Acute Abdominal Pain
- 1.2. Gastrointestinal Disorders
- 1.3. Acute Dehydration
  - 1.3.1. Isonatremic Dehydration
  - 1.3.2. Hyponatremic Dehydration
  - 1.3.3. Hypernatremic Dehydration
- 1.4. Acid-base Balance Disorders
  - 1.4.1. Metabolic Acidosis Respiratory Acidosis
  - 1.4.2. Metabolic Alkalosis Respiratory Alkalosis
- 1.5. Coeliac Disease.
  - 1.5.1. Diagnostic Algorithm
  - 1.5.2. Pediatric Dentistry
- 1.6. Gastroesophageal Reflux (GER)
- 1.7. Constipation
- 1.8. Hepatitis
  - 1.8.1. HAV, HBV, HCV, HDV, HEV
  - 1.8.2. Autoimmune hepatitis
- 1.9. Gastrointestinal Bleeding
- 1.10. The Infant with Food Refusal
- 1.11. Jaundice
- 1.12. Gastric Probing.
- 1.13. Management the Child with an Ostomy

## Module 2. Nursing Care in Endocrinometabolic Emergencies

- 2.1. Emergencies in the Diabetic Patient
- 2.2. Hydroelectrolytic Alterations
- 2.3. Adrenal Insufficiency





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*A unique, key, and decisive  
training experience to boost your  
professional development”*

# 05 Methodology

This training provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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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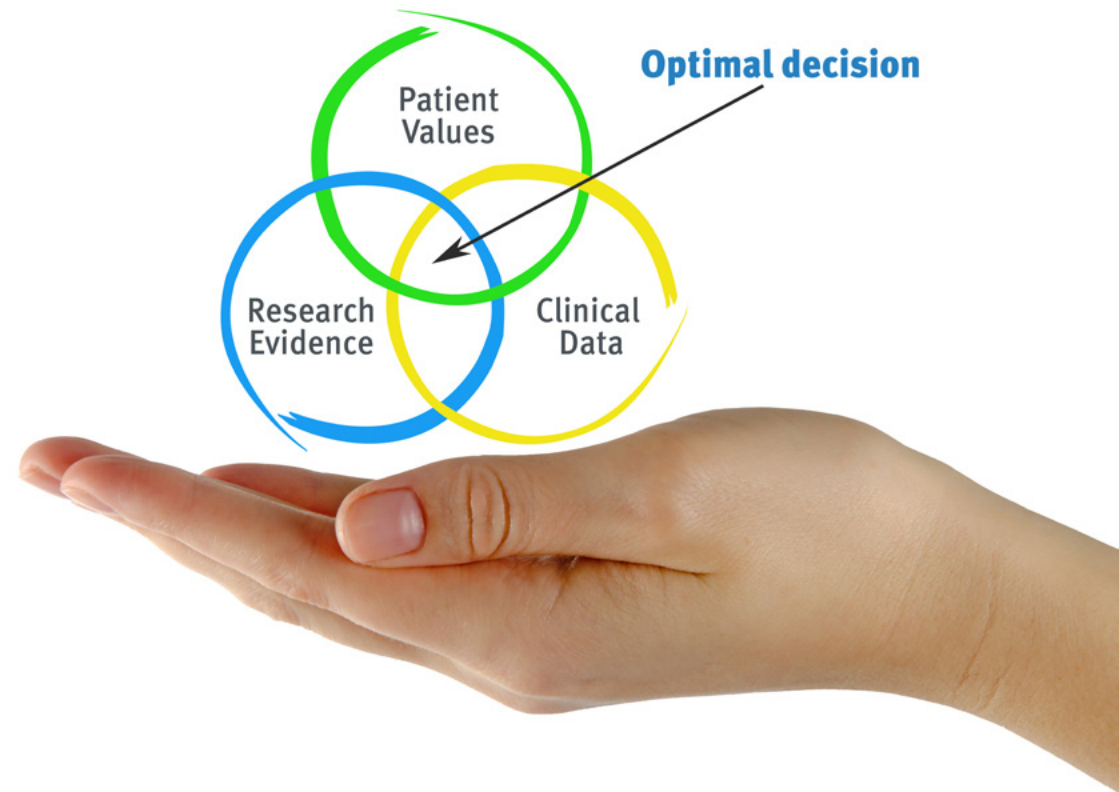
*Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*



## At TECH Nursing School we use the Case Method

In a given clinical situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant 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. 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, 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 university program.



## Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 175,000 nurses with unprecedented success, in all specialties regardless of from the workload. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this program you will have access to the best educational material, prepared with you 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.

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.



#### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current nursing procedures and techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



#### Interactive Summaries

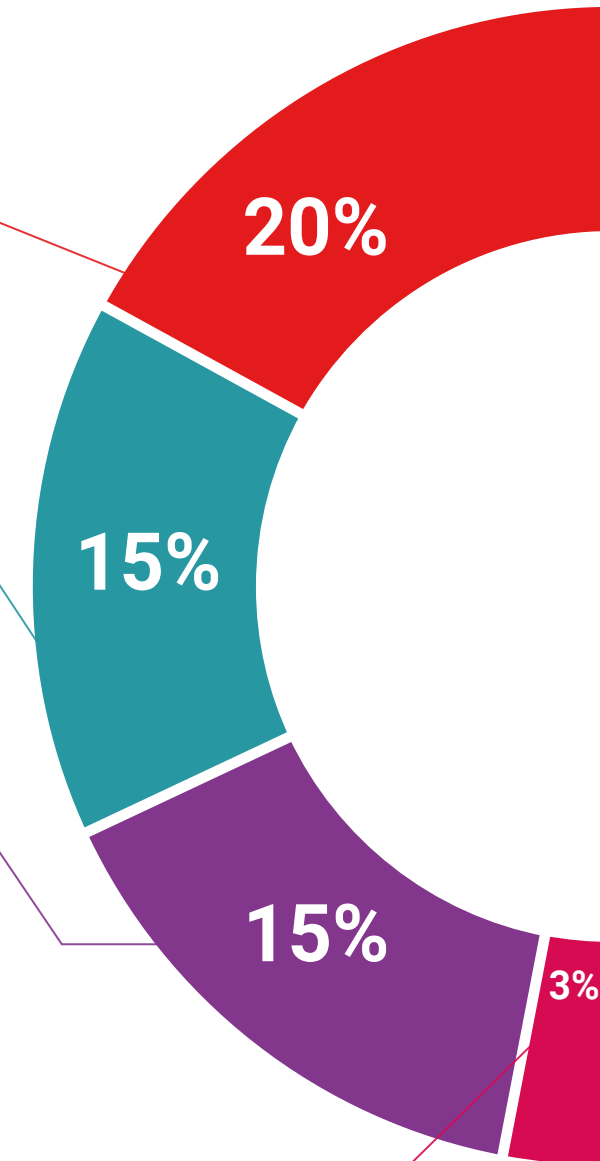
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".

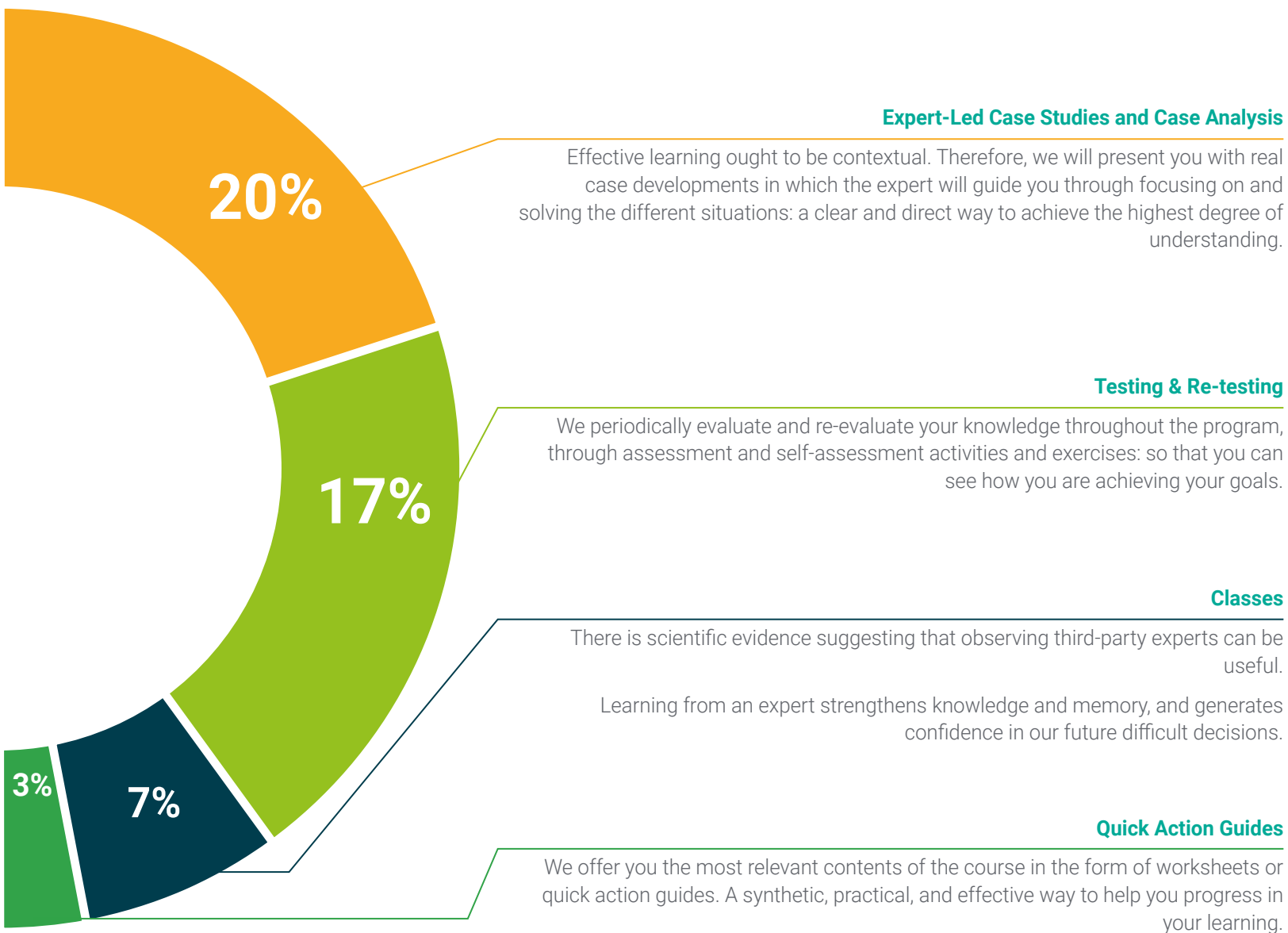


#### Additional Reading

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







# 06 Certificate

The Postgraduate Certificate in Pediatric Digestive and Endocrinometabolic Emergencies for Nursing guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH Global University.



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*Successfully complete this training and receive your diploma without travel or laborious paperwork”*



This program will allow you to obtain your **Postgraduate Certificate in Pediatric Digestive and Endocrinometabolic Emergencies for Nursing** 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 Pediatric Digestive and Endocrinometabolic Emergencies for Nursing**

Modality: **online**

Duration: **8 weeks**

Accreditation: **8 ECTS**





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and Endocrinometabolic  
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