

# Postgraduate Certificate

## Techniques in Pediatric Gastroenterology



## Postgraduate Certificate

### Techniques in Pediatric Gastroenterology

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/medicine/postgraduate-certificate/techniques-pediatric-gastroenterology](http://www.techtitute.com/in/medicine/postgraduate-certificate/techniques-pediatric-gastroenterology)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

The subspecialty of Pediatric Gastroenterology, Hepatology and Nutrition, both for the broad field covered and for the incidence and prevalence of the pathologies included in its body of knowledge, is one of the most demanded by the population, as well as being one of the ones that most develops year after year.





“

*Improve your knowledge through this program, where you will find the best didactic material with real clinical cases. Learn here about the latest advances in the specialty to be able to perform a quality medical practice"*

Given the growing number of publications that are published daily at the international level in the field of study of the specialty, it is difficult to keep up to date in an adequate manner.

The objective of this program is to fill the gap in the market for up-to-date training courses demanded by professionals interested in the field, seeking to make it useful in routine clinical practice and to encourage high-level research in the aspects covered.

Pharmacological advances, advances in diagnostic and monitoring technology, as well as the special development of techniques applied to the specialty, have all led to great transformations that imply the need for up-to-date training at all levels.

Pediatric gastroenterologists, as a central figure in permanent contact with the patient, are the key figure on whom to focus this necessary up-to-date training that will allow them to obtain a better perspective of each individual patient.

With this program, both the pediatrician with special interest in the area and the subspecialist in charge of its development, have the opportunity to complement their knowledge with a detailed and up to date review of the most relevant technological and conceptual advances in the field.

This **Postgraduate Certificate in Techniques in Pediatric Gastroenterology** contains the most complete and up-to-date scientific program on the market. The most important features of the course are:

- ♦ Clinical cases presented by experts in gastrohepatology. The graphic, schematic, and eminently practical contents with which they are created, provide provide scientific and healthcare training on those medical disciplines that are essential to professional practice.
- ♦ The latest diagnostic and therapeutic information on how to approach techniques in pediatric gastroenterology.
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ♦ Special emphasis on test-based medicine and research methodologies in gastrohepatology.
- ♦ 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 in Techniques in Pediatric Gastroenterology, in a practical way and adapted to your needs”*

“

*This Postgraduate Certificate may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge in Techniques in Pediatric Gastroenterology, you will obtain a Postgraduate Certificate qualification from TECH Technological University”*

Forming part of the teaching staff is a group of professionals in the world of gastrohepatology, 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 an immersive training program to train in real situations.

Problem-Based Learning underpins this program design, and the doctor must use it to try and solve the different professional practice situations that arise throughout the course. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of gastrohepatology with extensive teaching experience.

*The Postgraduate Certificate allows training in simulated environments, which provide immersive learning programmed to train in real situations*

*It includes clinical cases to bring the program's content as close as possible to the reality of patient care*



# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the doctor is able to master the latest techniques in pediatric gastroenterology in a practical and rigorous manner.







“

*This program will provide you with the skills to carry out your medical praxis with confidence and will help you to grow both personally and professionally”*



## General Objectives

---

- ♦ Update the knowledge of the pediatrician with special preparation and interest in the field of pediatric gastroenterology.
- ♦ Promote work strategies based on a comprehensive approach to the patient as a standard model for achieving excellent care.
- ♦ Encourage the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online simulation workshops and/or specific training.
- ♦ Encourage professional stimulation through continuous education and research.



## Specific Objectives

---

- ♦ Detail the possible biochemical determinations in blood, urine, feces and sweat related to Pediatric Gastroenterology and their interpretation.
- ♦ Gain in-depth knowledge of an upper and lower gastrointestinal endoscopy in pediatric patients, its technique, applications and findings.
- ♦ Deepen understanding of the pathological anatomy of biopsy specimens, their collection and interpretation.
- ♦ Describe the different exhaled air tests available and their interpretation.
- ♦ Learn the applications of capsuloendoscopy in pediatrics and how to interpret its findings.
- ♦ Explain the applications of endoscopic retrograde cholangiopancreatography.



- ♦ Expand expertise in malabsorption and pancreatic insufficiency studies.
- ♦ Gain in-depth knowledge of the indication and interpretation of the different radiological techniques at the abdominal level.
- ♦ Learn the indications and interpretation of gastrointestinal and hepatobiliary ultrasound.
- ♦ Gain up-to-date knowledge of endorectal ultrasound in pediatrics.
- ♦ Gain up-to-date knowledge on the indications and interpretation of abdominal CT and MRI.
- ♦ Learn about radioisotope studies, their indications and possibilities.
- ♦ Learn how to interpret anorectal and esophageal manometry extensively.
- ♦ Learn how to interpret esophageal pH-metry and impedancemetry extensively.
- ♦ Define possible microbiological studies, indications and interpretation in digestive pathology.
- ♦ Explain new molecular biology techniques and their applications.
- ♦ Describe the indications for exploratory laparoscopy.

*Make the most of the opportunity  
and take the step to get up to  
date on the latest developments  
in Techniques in Pediatric  
Gastroenterology*



03

# Course Management

This program includes highly regarded health professionals in the field of gastroenterology in its teaching staff, who bring the experience of their work to this training.

In addition, renowned specialists, members of prestigious national and international scientific communities, are involved in designing and preparing the program.





“

*Learn about the latest advances in Techniques  
in Pediatric Gastroenterology from leading  
professionals”*

## Management



### Dr. Negre Policarpo, Sergio

- ◆ Degree in Medicine and Surgery
- ◆ PhD in Medicine and Surgery from the University of Valencia
- ◆ MIR Specialist in Pediatrics and its specific areas at the La Fe University Hospital, Valencia. End of Residency Award
- ◆ Head of the Pediatric Gastroenterology and Nutrition Section, Quirónsalud Valencia Hospital, Spain
- ◆ Associate Professor of Pediatrics San Vicente Mártir Catholic University Valencia, Spain
- ◆ Director of doctoral theses and Master's Degree theses
- ◆ University Expert in Organization and Management of Teaching in Health Institutions and Services
- ◆ Expert in Teaching and Digital Skills in Health Sciences
- ◆ Member of the Spanish Society of Pediatric Gastroenterology, Hepatology, and Nutrition
- ◆ Member of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition
- ◆ Member of the Spanish Association of Pediatrics
- ◆ Member of the Valencian Pediatrics Society
- ◆ Head of the Medical R&D Department of Wearables Inteligentes SL.

## Professors

### **Dr. Blesa Baviera, Luis**

- ◆ Degree in Medicine and Surgery
- ◆ Pediatrician.
- ◆ C.S Serrería II. Valencia, Spain

### **González de Caldas Marchal, Rafael**

- ◆ Infant Liver Transplant Program in the Andalusian Health System. Spain

### **Dr. Pereda López, Antonio**

- ◆ Degree in Medicine and Surgery
- ◆ Pediatric Gastroenterology Specialist
- ◆ La Fe Polytechnic and University Hospital. Valencia, Spain

### **Dr. Rodríguez Herrera, Alfonso**

- ◆ Degree in Medicine and Surgery
- ◆ Pediatric Gastroenterology Specialist
- ◆ Hispalense Institute of Pediatrics Pablo de Olavide University Seville, España

### **Dr. Quiles Catalá, Amparo**

- ◆ Degree in Medicine and Surgery
- ◆ Pediatric Gastroenterology Specialist
- ◆ Quironsalud Hospital, Valencia, Spain

### **Dr. Ynga Durand, Mario Alberto**

- ◆ Medical specialist in Allergology and Clinical Immunology
- ◆ Pediatrician
- ◆ National Polytechnic Institute
- ◆ Mexican Academy of Pediatrics
- ◆ Professor of the National Program for the Prevention of Chronic Degenerative Diseases



# 04

# Structure and Content

The structure of the contents has been designed by a team of professionals who recognize the implications of training in daily praxis in Techniques in Pediatric Gastroenterology, aware of the relevance of current training to treat patients with gastrohepatological pathologies and who are committed to quality teaching using new educational technologies.





“

*This Postgraduate Certificate in Techniques in Pediatric Gastroenterology contains the most complete and up-to-date scientific program on the market”*

## Module 1. Techniques in Pediatric Gastroenterology

- 1.1. Nutritional Assessment
  - 1.1.1. Nutritional Assessment Techniques
  - 1.1.2. Nutrition Applied to Digestive Pathology
- 1.2. Biochemical Determinations in Blood, Urine, Feces and Sweat
  - 1.2.1. Laboratory Studies in Pediatric Gastroenterology
- 1.3. Digestive Endoscopy. Esophago-Gastroscopy and Colonoscopy in Pediatrics
  - 1.3.1. Indications for Gastrointestinal Endoscopy
  - 1.3.2. Technique and Atlas of Findings
- 1.4. Biopsies
  - 1.4.1. Anatomic Pathology in Pediatric Gastroenterology
  - 1.4.2. Special Techniques
- 1.5. Exhaled Air Test
  - 1.5.1. Lactose Exhaled Air Test
  - 1.5.2. Fructose Exhaled Air Test
  - 1.5.3. Other Exhaled Air Tests
- 1.6. Capsuloendoscopy in Pediatrics
  - 1.6.1. Indications and Techniques in Pediatrics
  - 1.6.2. Atlas of Findings
- 1.7. Endoscopic Retrograde Cholangiopancreatography
  - 1.7.1. Indications and Techniques in Pediatrics
- 1.8. Malabsorption and Pancreatic Insufficiency Studies
  - 1.8.1. Indications and Interpretation of the Technique
- 1.9. Gastrointestinal Tract Radiology
  - 1.9.1. Indications and Interpretation of the Technique
  - 1.9.2. Atlas of Radiology in Gastrointestinal Pathology
- 1.10. Gastrointestinal and Hepatobiliary Ultrasound
  - 1.10.1. Indications and Technique
  - 1.10.2. Atlas of Ultrasound in Gastrointestinal Pathology



- 1.11. Endorectal Ultrasound in Pediatrics
  - 1.11.1. Indications and Technique
- 1.12. Abdominal Computed Tomography and MRI in Pediatric Gastroenterology
  - 1.12.1. Indications and Technique
  - 1.12.2. Atlas of CT and MRI in Gastrointestinal Pathology
- 1.13. Radioisotope Studies
  - 1.13.1. Indications and Interpretation
- 1.14. Anorectal and Esophageal Manometry
  - 1.14.1. Anorectal Manometry Indications and Interpretation
  - 1.14.2. Esophageal Manometry Indications and Interpretation
- 1.15. PH-metry and Esophageal Impedance Measurement
  - 1.15.1. Esophageal Manometry Indications and Interpretation
  - 1.15.2. Esophageal Manometry Indications and Interpretation
- 1.16. Microbiological Studies
  - 1.16.1. Indications for Microbiological Studies and Interpretation
  - 1.16.2. Main Findings and Interpretation Based on Pathology
- 1.17. Molecular Biology Techniques
  - 1.17.1. Indications and Interpretation
- 1.18. Exploratory laparoscopy:
  - 1.18.1. Indications for Techniques and interpretation



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



05

# Methodology

This training program 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.



“

*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 we use the Case Method

In a given 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. Specialists learn better, faster, and more sustainably over time.

*With TECH you can 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 potential 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 professional medical practice.

“

*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 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 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.



## 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 physician 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 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. 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 the teaching materials are specifically created for the course, by specialists who teach on 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.



#### Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All 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.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Re-Testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory and generates confidence in our future difficult decisions.



#### Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



# 06 Certificate

The **Postgraduate Certificate in Techniques in Pediatric Gastroenterology** guarantees you, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate issued by **TECH Technological University**.



“

*Successfully complete this training and receive your certificate without the hassle of travel or paperwork”*

This Postgraduate Certificate in Techniques in Pediatric Gastroenterology contains the most complete and up-to-date scientific program on the market.

After students have passed the evaluations, they will receive their corresponding Postgraduate Certificate issued by TECH Technological University via tracked delivery\*.

The certificate issued by TECH Technological University will specify the qualification obtained through the course, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: Postgraduate Certificate in Techniques in Pediatric Gastroenterology

ECTS: 10

Official Number of Hours: 250



\*Apostille Convention. In the event that the student wishes to have their paper certificate Apostilled, TECH EDUCATION will make the necessary arrangements to obtain it at an additional cost of €140 plus shipping costs of the Apostilled certificate.

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



## Postgraduate Certificate

Techniques  
in Pediatric  
Gastroenterology

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Certificate Techniques in Pediatric Gastroenterology

