

# Postgraduate Diploma

## Endoscopy of the Airway, Digestive and Genitourinary Tract in Pediatric Surgery





## Postgraduate Diploma Endoscopy of the Airway, Digestive and Genitourinary Tract in Pediatric Surgery

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-endoscopy-airway-digestive-genitourinary-tract-pediatric-surgery](http://www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-endoscopy-airway-digestive-genitourinary-tract-pediatric-surgery)

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01

# Introduction

Update your training in Endoscopy of the Airway, Digestive and Genitourinary Tract, with this prestigious course prepared by renowned professionals, who have deposited all their knowledge and experience in the realization of this intensive training. You will learn the latest trends and endoscopic techniques used today in pediatric patient surgery.





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*This Postgraduate Diploma is aimed at specialists who want update their knowledge and acquire the latest techniques in Endoscopy in Pediatric Surgery"*

Comprehensive training in minimally invasive techniques is not acquired in the undergraduate or postgraduate teaching programs of the different surgical specialties.

In addition to requiring in-depth knowledge of these techniques this apprenticeship requires a specific theoretical and practical program. The offer of these techniques to patients by hospitals is a seal of quality in health care. Nowadays, the parents of patients who are familiar with the latest technologies demand professionals who master them and can treat their children with minimally invasive techniques such as endoscopy. They can diagnose and treat many of the surgical pathologies of pediatric patients.

Therefore, it is reasonable to promote the training of professionals in this discipline, whose teaching is not regulated, having to resort to postgraduate training that includes different professional experts in this field as teachers.

In this Postgraduate Diploma, the majority of endoscopic techniques used today in the pediatric patient will be studied in depth. Airway, digestive and urinary tract endoscopy will be studied in depth. Focusing on minimally invasive techniques, we will review the part of pediatric surgery that can be diagnosed or treated with them.

And in order to guarantee all of the above we will have the best experts in the field who will contribute their personal experience and present the latest trends in each of their fields.

This course contains the most complete and up-to-date scientific program on the market. The most important features:

- ♦ Latest technology in online teaching software.
- ♦ Highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand.
- ♦ Practical cases presented by practising experts.
- ♦ State-of-the-art interactive video systems.
- ♦ Teaching supported by telepractice.
- ♦ Continuous updating and recycling systems.
- ♦ Self-regulating learning: full compatibility with other occupations.
- ♦ Practical exercises for self-evaluation and learning verification.
- ♦ Support groups and educational synergies: questions to the expert, debate and knowledge forums.
- ♦ Communication with the teacher and individual reflection work.
- ♦ Content that is accessible from any fixed or portable device with an Internet connection.
- ♦ Supplementary documentation databases are permanently available, even after the course.



*Improve the quality of care for your patients with this highly scientifically rigorous training"*

“ *Apply the latest trends in Minimally Invasive Surgery in the daily practice of your profession*”

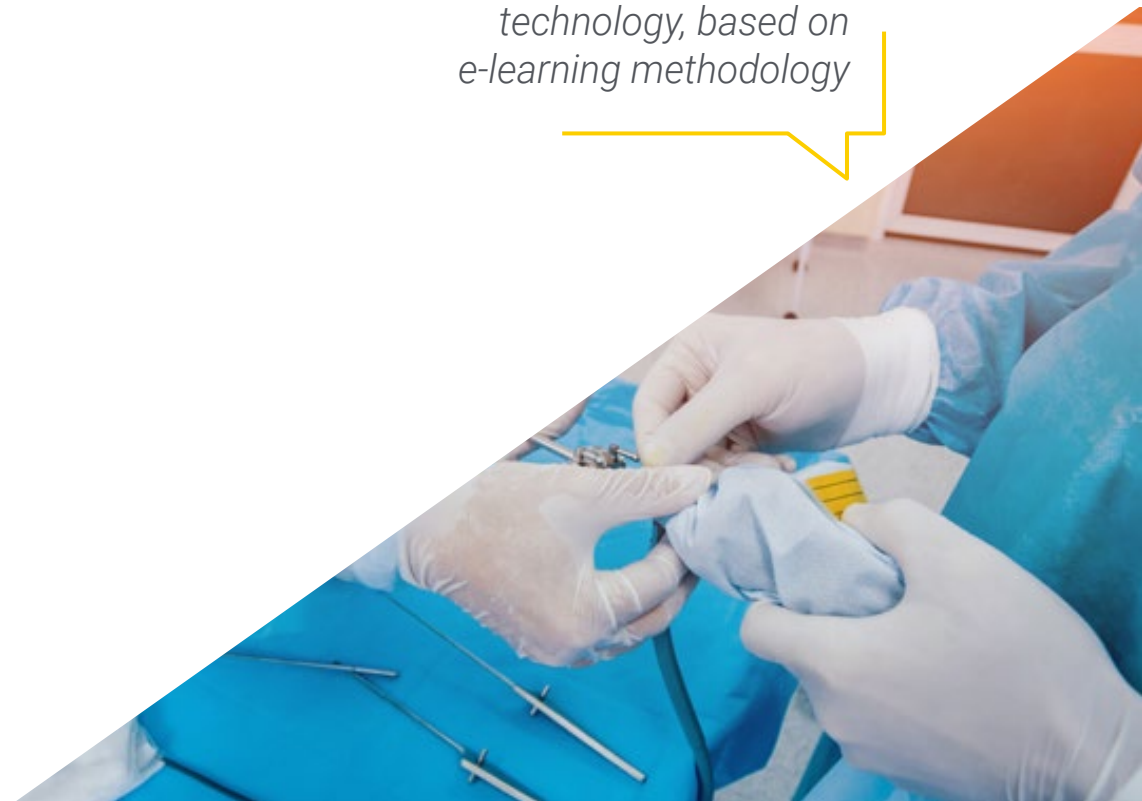
Our teaching staff is composed of medical professionals, practising specialists. In this way we ensure that you can achieve the training update we are aiming for. A multidisciplinary team of doctors with training and experienced in different environments, who will develop the theoretical knowledge in an efficient way, but, above all, will bring their practical knowledge derived from their own experience to this course: one of the differential qualities of this course.

The efficiency of the methodological design of this master's degree, enhances the student's understanding of the subject. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your training.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice: with the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

*You will have the latest multimedia tools, designed by experts in Endoscopy in Pediatric Surgery, which will favor the speed of assimilation and learning*

*This program uses the latest advances in educational technology, based on e-learning methodology*



# 02 Objectives

This Postgraduate Diploma will provide students with the theory and practice necessary to approach with ease and confidence pediatric surgical pathologies susceptible to treatment using minimally invasive techniques, thus benefiting child patients.







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*Our objective is to train highly qualified professionals for work experience”*



## General Objectives

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- Complement the training of specialists in pediatric surgery with special interest in a minimally invasive technique: pediatric endoscopy.
- Adequately prepare these professionals to face with guarantee and quality the different pediatric pathologies that can be addressed through these access routes
- Enable students to offer professional assistance supported by an accredited teaching program.





## Specific Objectives

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- ◆ Know the instrumentation necessary to perform rigid and flexible bronchoscopy in the pediatric patient
- ◆ Study the pathology susceptible to treatment by this route and the endoscopic techniques that are applied for its treatment.
- ◆ Describe Digestive Endoscopy as a Diagnostic and Therapeutic Method in the Treatment of Pediatric Digestive Tract Pathology.
- ◆ Provide knowledge of the therapeutic techniques used in esophagogastroscopy and colonoscopy.
- ◆ Learn to handle the urological endoscopic instruments, in order to diagnose and treat many of the urological pathologies by cystoscopy and ureterorenoscopy.
- ◆ Learn how to correctly perform the procedures of pathologies of the renoureteral system that are managed endoscopically.
- ◆ Know the genitourinary malformations that require endoscopic exploration and treatment.

03

# Course Management

For our master's degree to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record in the field of education. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.





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*An impressive teaching staff, made up of professionals from different areas of expertise, will be your teachers during your training: a unique opportunity not to be missed”*

## Management



### Dr. Cabezalí Barbancho, Daniel

- Specialist in Pediatric Surgery.
- Specialist Area Physician (FEA) of the Pediatric Surgery Service, Urology Section, 12 de Octubre Hospital Madrid
- Doctor of Medicine and Surgery, from the Complutense University of Madrid.

## Main Collaborators

### Dr. Cano Novillo, Indalecio

- ♦ Specialist in Pediatric Surgery.
- ♦ Specialist Area Physician (FEA) of the Pediatric Surgery Service, General Surgery Section, Hospital 12 Octubre Madrid.
- ♦ Head of the Pediatric Surgery at Sanitas La Zarzuela Hospital.

### Dr. Gómez Fraile, Andrés

- ♦ Specialist in Pediatric Surgery.
- ♦ Head of the Pediatric Surgery at 12 de Octubre Hospital.
- ♦ Doctor of Medicine and Surgery, from the Complutense University of Madrid.

### Dr. Pacheco Sánchez, Juan Antón

- ♦ Specialist in Pediatric Surgery.
- ♦ Facultative Area Specialist (FAS) in Pediatric Surgery General Surgery at 12 de Octubre Hospital Madrid
- ♦ Doctor of Medicine and Surgery, from the Complutense University of Madrid.



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# Structure and Content

The structure of the contents has been designed by a team of expert surgeons, which includes all the updates in spine pathologies.







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*This Postgraduate Diploma has a quality program adapted to the latest trends in the field of spine surgery”*

## Module 1. Airway Endoscopy

- 1.1. Exploration of the Airway in the Otorhinolaryngological Practice:
- 1.2. Bronchoscopy.
  - 1.2.1. Equipment and Instrumentation in Rigid and Flexible Bronchoscopy
  - 1.2.2. Indications of Rigid and Flexible Bronchoscopy
  - 1.2.3. Sedation and Anesthesia in Pediatric Bronchoscopy
- 1.3. Diagnostic Procedures I:
  - 1.3.1. Bronchoalveolar Lavage
  - 1.3.2. Total Lung Lavage
- 1.4. Diagnostic Procedures II:
  - 1.4.1. Endobronchial and Transbronchial Biopsy
  - 1.4.2. EBUS (Ultrasound-Guided Biopsy)
  - 1.4.3. Bronchoscopy and Study of Swallowing
- 1.5. Therapeutic Procedures I:
  - 1.5.1. Extraction of Foreign Bodies
  - 1.5.2. Pneumatic Dilation
  - 1.5.3. Placement of Stents in the Airway
- 1.6. Therapeutic Procedures II:
  - 1.6.1. Laser Procedures
  - 1.6.2. Cryotherapy
  - 1.6.3. Other Techniques: Endobronchial Valves, Sealants and Drug Application.
  - 1.6.4. Technique Complications
- 1.7. Specific Laryngeal Pathologies I:
  - 1.7.1. Laryngomalacia
  - 1.7.2. Laryngeal Paralysis.
  - 1.7.3. Laryngeal Stenosis
- 1.8. Specific Laryngeal Pathologies II:
  - 1.8.1. Laryngeal Tumors and Cysts
  - 1.8.2. Other Less Frequent Pathologies: Clefting.
- 1.9. Specific Tracheobronchial Pathologies I:
  - 1.9.1. Tracheal/Bronchial Stenosis: Congenital and Acquired
  - 1.9.2. Tracheobronchomalacia: Primary and Secondary
- 1.10. Specific Tracheobronchial Pathologies II:

- 1.10.1. Tumours
- 1.10.2. The Tracheotomized Patient: Care
- 1.10.3. Other Less Frequent Pathologies: Clefting, Granuloma

## Module 2. Endoscopy Via Digestive Tract

- 2.1. Team, Instrumentation and Pre-Procedure Patient Preparation
- 2.2. Sedation and Anesthesia for Digestive Endoscopic Procedures With Children
- 2.3. Oesophageal I
  - 2.3.1. Oesophageal stricture. Achalasia Esophageal Dilatation and Endoluminal Prostheses
  - 2.3.2. Extraction of Foreign Bodies from the Oesophageal
- 2.4. Oesophageal II
  - 2.4.1. Esophageal Varices Ligation of Varicose Veins
- 2.5. Caustic Injuries
- 2.6. Stomach I
  - 2.6.1. Percutaneous Gastrostomy
  - 2.6.2. Anti-Reflux Surgical Techniques
- 2.7. Stomach II
  - 2.7.1. Gastric Lesions Excision
  - 2.7.2. Gastric Foreign Bodies Bezoars
- 2.8. Pyloro-Duodenal Pathology
  - 2.8.1. Pyloric Stenosis
  - 2.8.2. Duodenal Stenosis and Duodenal Cysts
- 2.9. Colon I
  - 2.9.1. Colonoscopy Rectal Stenosis
  - 2.9.2. Ulcerative Colitis
  - 2.9.3. Colorectal Polyps
- 2.10. Colon II
  - 2.10.1. Chromoendoscopy
  - 2.10.2. Capsuloendoscopy



### Module 3. Genitourinary Endoscopy

- 3.1. Equipment. Cystoscopes and Ureterorenoscopes
- 3.2. Instrumentation Material Guides
- 3.3. Upper Urinary Tract I
  - 3.3.1. Retrograde Intrarenal Surgery
  - 3.3.2. Pyeloureteral Stenosis Anterograde and Retrograde Dilatation and Endopyelotomy
- 3.4. Lower Urinary Tract I
  - 3.4.1. Ureteral Stenosis Ureteral Traumatism Urethrotomy.
  - 3.4.2. Urethra Valves Urethral Diverticula
- 3.5. Lower Urinary Tract II
  - 3.5.1. Ureteral Vesic Reflux. Injection of Material at the Ureterovesical Junction
- 3.6. Lower Urinary Tract III
  - 3.6.1. Cystoscopy Bladder Masses
- 3.7. Lower Urinary Tract IV
  - 3.7.1. Congenital Obstructive Megaureter Dilatation of the Ureterovesical Junction
  - 3.7.2. Bladder Diverticulum Ureterocele
- 3.8. Lower Urinary Tract V
  - 3.8.1. Bladder Neck Surgery.
  - 3.8.2. Bladder Dysfunction Botox Injection
- 3.9. Lithiasis.
  - 3.9.1. Ureteral Lithiasis Ureterorenoscopy
  - 3.9.2. Nephrolithiasis. Percutaneous Nephrolithotomy
  - 3.9.3. Bladder Lithiasis Special Situations: Enterocystoplasties and Ducts
- 3.10. Gynecological Pathology I
  - 3.10.1. Urogenital Sinus Cloaca
- 3.11. Gynecological Pathology
  - 3.11.1. Vaginal Malformations.

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.



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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 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.

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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 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.



Throughout the training, 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 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.



### Techniques and clinical procedures on video

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

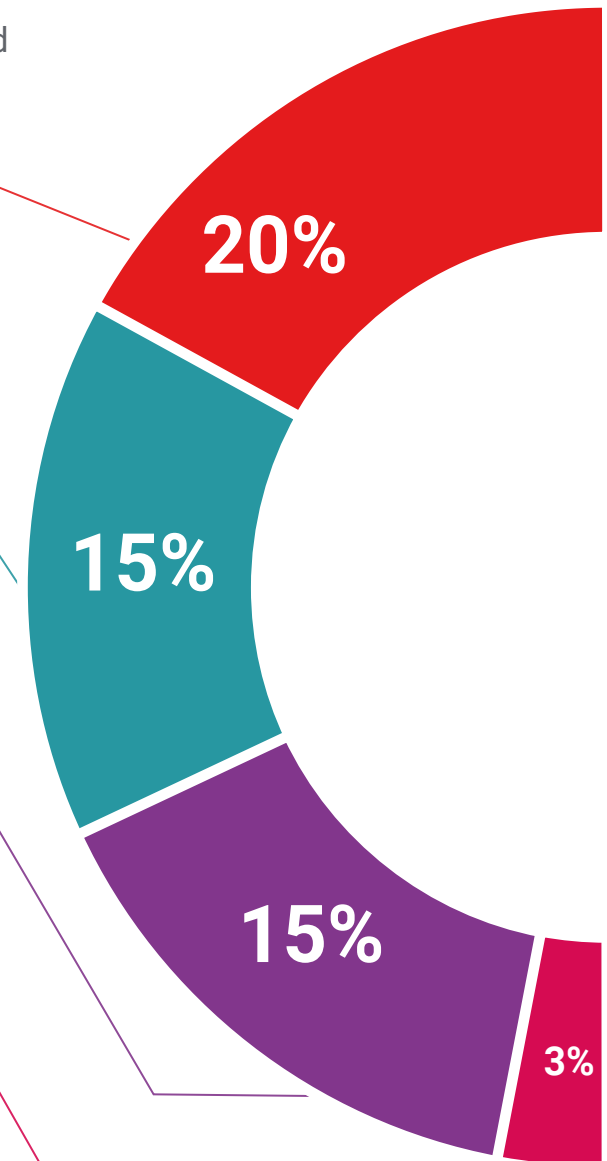
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge. This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".

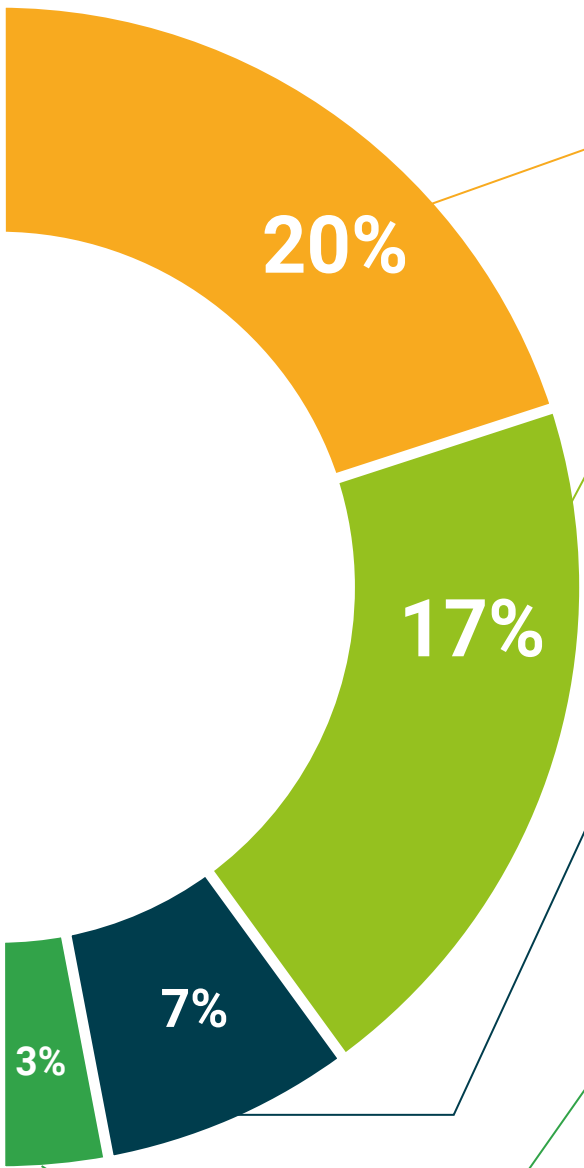


### Additional Reading

By participating in this course you will have access to a virtual library where you will be able to complement and keep your training up-to-date with the latest articles on the subject, consensus documents, international guidelines...

An invaluable resource that you will be able to use even when you finish your course with us.





### 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 & Retesting

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.



### Learning from an expert

Observing an expert performing a task is the most effective way of learning. It is called Learning from an expert: a proven way to reinforce knowledge and recall what has been learned. For this reason, we include this type of learning in our course 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

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.



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*Include in your training a Professional Diploma in Endoscopy of the Airway, Digestive and Genitourinary Tract in Pediatric Surgery: a highly qualified added value for any professional in the field of education"*

This program will allow you to obtain your **Postgraduate Diploma in Airway, Digestive and Genitourinary Tract Endoscopy in Pediatric Surgery** 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.

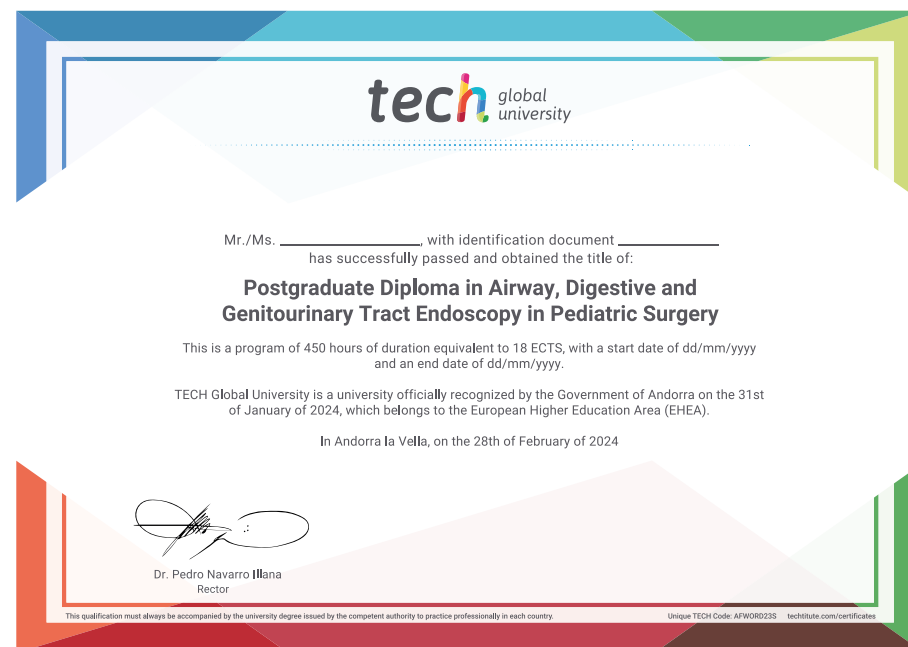
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Airway, Digestive and Genitourinary Tract Endoscopy in Pediatric Surgery**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**



future

health

confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

**tech** global university

personalized service innovation

knowledge present  
online training  
development language  
virtual classroom

**Postgraduate Diploma**  
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