

# Postgraduate Diploma

Thoracoscopy, Cervicoscopy and  
Oncologic, Gonadal and Urologic  
Laparoscopy in Pediatrics





## Postgraduate Diploma

# Thoracoscopy, Cervicoscopy and Oncologic, Gonadal and Urologic Laparoscopy in Pediatrics

Course Modality: **Online**

Duration: **6 months.**

Certificate: **TECH Technological University**

**18 ECTS Credits**

Teaching Hours: **450 h.**

Website: [www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-thoracoscopy-cervicoscopy-oncologic-gonadal-urologic-laparoscopy-pediatrics](http://www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-thoracoscopy-cervicoscopy-oncologic-gonadal-urologic-laparoscopy-pediatrics)

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# 01

# Introduction

Expand your knowledge in thoracoscopy with this prestigious Postgraduate Diploma designed by professionals in the sector. You will develop your skills and knowledge in minimally invasive techniques in pediatric surgery, specializing in Thoracoscopy, Cervicoscopy and Oncologic, Gonadal and Urologic Laparoscopy in Pediatrics.



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*This Postgraduate Diploma is aimed at specialists who want update their knowledge and acquire the latest techniques in Laparoscopy in General Surgery”*

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 Laparoscopy. 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. Focusing on minimally invasive techniques, we will review the part of pediatric surgery that can be diagnosed or treated with Laparoscopy.

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*”

*You will have the latest multimedia tools, designed by experts in Cervicothoracic, Urologic and Gynecologic Laparoscopy, which will favor the speed of assimilation and learning.*

Our teaching staff is composed of medical professionals, practising specialists. In this way we ensure that you can achieve the specialization update we are aiming for. A multidisciplinary team of doctors specialized 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.

*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 laparoscopy.
- ♦ 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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### Module 1. Thoracoscopy - Cervicoscopy

- ♦ Learn and know how to apply the latest developments in thoracoscopy.

### Module 2. Urological Laparoscopy

- ♦ Know transperitoneal and retroperitoneal laparoscopy in depth, and know which route is appropriate for the approach of urological pathologies, taking into account that one or the other is usually used depending on the patient, personal experience or the tendency of each service.
- ♦ Study pediatric urological pathologies and the laparoscopic techniques used to treat them.
- ♦ Learn about pneumovesicoscopy as an alternative for the treatment of some specific urological pathologies

### Module 3. Abdominal Surgery through Single Port

- ♦ Have an in-depth knowledge of laparoscopic surgery, to know which techniques can be performed with it and what are its advantages and limitations This surgery is the maximum expression of laparoscopic minimally invasive surgery and allows different procedures to be performed through it.

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 specialised 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.



04

# 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. Thoracoscopy. Cervicoscopy

- 1.1. Anesthesia for Pediatric Thoracoscopy
- 1.2. Equipment, Material and Bases of Thoracoscopy
- 1.3. Chest I:
  - 1.3.1. Pectus Excavatum Nuss Bar Placement
- 1.4. Chest II:
  - 1.4.1. Pneumothorax
  - 1.4.2. Debridement and Placement of Endothoracic Drainage Empyema
- 1.5. Chest III:
  - 1.5.1. Lobectomy in Children Pulmonary Airway Malformation (CPAM)
  - 1.5.2. Pulmonary Sequestration Congenital Lobar Hyperinsufflation
- 1.6. Chest IV:
  - 1.6.1. Mediastinal Tumors
  - 1.6.2. Esophageal Duplications Bronchogenic Cysts
- 1.7. Chest V:
  - 1.7.1. Pulmonary Biopsy
  - 1.7.2. Removal of Metastases
- 1.8. Chest VI:
  - 1.8.1. Patent Ductus Arteriosus/Vascular Rings
  - 1.8.2. Aortopexy Tracheomalacia
- 1.9. Chest VII:
  - 1.9.1. Palmar Hyperhidrosis
  - 1.9.2. Treatment Thoracoscopic of Chylothorax
- 1.10. Cervicoscopy
  - 1.10.1. Minimally Invasive Thyroid, Parathyroid and Thymus Surgery.

## Module 2. Oncologic Laparoscopy Gonadal Laparoscopy

- 2.1. Laparoscopy in Pediatric Tumors (I)
  - 2.1.1. Laparoscopy for Intra-abdominal Tumor Lesions
- 2.2. Laparoscopy in Pediatric Tumors (II)
  - 2.2.1. Adrenalectomy. Neuroblastoma.
- 2.3. Laparoscopy in Pediatric Tumors (III)
  - 2.3.1. Sacrococcygeal Teratomas
- 2.4. Laparoscopy in Pediatric Tumors (IV)
  - 2.4.1. Ovarian Tumors.
- 2.5. Laparoscopy Testicular(I)
  - 2.5.1. Non-Palpable Testicle Diagnosis and Treatment
- 2.6. Urachal Abnormalities
- 2.7. Laparoscopy Gynaecology(I)
  - 2.7.1. Peripubertal Ovarian Cysts
- 2.8. Laparoscopy Gynecology (II)
  - 2.8.1. Ovarian Torsion
  - 2.8.2. Tubal Pathology
- 2.9. Laparoscopy Gynecology (III)
  - 2.9.1. Uterovaginal Malformations
- 2.10. Laparoscopy Gynecology (IV)
  - 2.10.1. Laparoscopy in Sexual Differentiation Disorders

**Module 3. Urological Laparoscopy**

- 3.1. Upper Urinary Tract I
  - 3.1.1. Renal Annulment Transperitoneal Nephrectomy
  - 3.1.2. Renoureteral Duplication Transperitoneal Heminephrectomy
- 3.2. Upper Urinary Tract II
  - 3.2.1. Retroperitoneal Nephrectomy
  - 3.2.2. Retroperitoneal Heminephrectomy
- 3.3. Upper Urinary Tract III
  - 3.3.1. Pyeloureteral Stenosis (Transperitoneal and Retroperitoneal)
- 3.4. Upper Urinary Tract IV
  - 3.4.1. Retrocaval Ureter
- 3.5. Upper Urinary Tract V. Renal Tumor Surgery
  - 3.5.1. Wilms Tumor
  - 3.5.2. Partial Oncologic Nephrectomy
- 3.6. Lower Urinary Tract I
  - 3.6.1. Extravesical Ureteral Reimplantation.
  - 3.6.2. Bladder Diverticulum
- 3.7. Lower Urinary Tract II
  - 3.7.1. Enterocystoplasty
  - 3.7.2. Bladder Neck Reconstruction
- 3.8. Lower Urinary Tract III
  - 3.8.1. Appendicovesicostomy
- 3.9. Lower Urinary Tract IV
  - 3.9.1. Prostatic and Seminal Pathology
- 3.10. Pneumovesicoscopy
  - 3.10.1. Ureteral Reimplantation.
  - 3.10.2. Bladder Diverticulum
  - 3.10.3. Bladder Neck Surgery

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.



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 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 & 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.



#### 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 Thoracoscopy, Cervicoscopy and Oncologic, Gonadal and Urologic Laparoscopy in Pediatrics: a highly qualified added value for any professional in the field of education”*

This **Postgraduate Diploma in Thoracoscopy, Cervicoscopy and Oncologic, Gonadal and Urologic Laparoscopy in Pediatrics** contains the most complete and up-to-date scientific program on the market.

After passing the assessments, students receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University**.

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

Title: **Postgraduate Diploma in Thoracoscopy, Cervicoscopy and Oncologic, Gonadal and Urologic Laparoscopy in Pediatrics**

ECTS: **18**

Official Number of Hours: **450**



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

future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology **tech** technological university

community commitment

personalized service innovation

knowledge present

online training  
Laparoscopy in Pediatrics

development languages

virtual classroom

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Course Modality: Online

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