

# Postgraduate Certificate Pediatric Oncologic Surgery





## Postgraduate Certificate Pediatric Oncologic Surgery

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

Website: [www.techtute.com/us/medicine/postgraduate-certificate/pediatric-oncologic-surgery](http://www.techtute.com/us/medicine/postgraduate-certificate/pediatric-oncologic-surgery)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 20*

05

Methodology

---

*p. 24*

06

Certificate

---

*p. 32*

# 01

# Introduction

Pediatric Oncologic Surgery is a constantly evolving discipline and it is important for surgeons to be updated in the latest knowledge and techniques. In this sense, this TECH Global University program focuses on providing specialists with innovative and current skills to address the management of pediatric tumors in different anatomical areas. The program covers the latest advances and developments in pediatric oncologic surgery and the importance of multidisciplinary work in patient care. All this, under an online methodology allows the specialist to learn from anywhere and at their own pace, with access to high quality materials and resources.





“

*Get updated in the surgical management of the most common childhood tumors with this complete TECH Postgraduate Certificate”*

The Postgraduate Certificate in Pediatric Oncologic Surgery focuses on providing specialists with the most up-to-date technical and scientific knowledge to address the management of tumors in different anatomical locations in children from newborn to the age of 18 years. This course will cover the advances and developments in pediatric oncologic surgery in the last decades, particularly regarding the improvement in the cure rates of childhood tumors.

Likewise, the importance of multidisciplinary work and the need for pediatric surgeons to acquire specialized skills in the management of pediatric tumors in various anatomical areas, including neck, mediastinum, chest wall, retroperitoneum, solid organs, pelvis, among others, will also be discussed. Students will also learn about the most common tumors in pediatrics, such as nephroblastoma and neuroblastoma, and how survival rates have improved through research and worldwide cooperative studies.

Particularly, special attention will be given to the importance of vascular surgery in pediatric oncologic surgery and how pediatric surgeons must be trained to manage potential operative risks and appropriately address tumors with vascular implications. Students will learn the latest surgical techniques and best practices for patient care in pediatric oncologic surgery.

In summary, the Postgraduate Certificate in Pediatric Oncologic Surgery will provide specialists with up-to-date knowledge and skills to face the challenges presented by the specialty and contribute to the improvement of patient care and quality of life.

This **Postgraduate Certificate in Pediatric Oncologic Surgery** 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 Pediatric Surgery
- ◆ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ◆ The practical exercises where the self-evaluation process can be carried out 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



*You will develop advanced surgical skills for the management of complex tumors in pediatric patients. Don't hesitate and enroll now"*

“

*A rigorous program that addresses the latest developments in burn patients management in a comprehensive way: from the initial and intensive approach to therapeutic options and long-term sequels”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

The design of this program focuses on Problem-Based Learning, in which the professional will have to try to solve the different professional practice situations that will arise throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*In only 6 weeks, you will obtain new tools for the diagnosis and integral treatment of skin and soft tissue lesions to obtain the best aesthetic results.*

*Delivered under the Relearning methodology, this program provides intensive, comprehensive and progressive learning, perfectly compatible with professional and personal life.*



# 02 Objectives

The main objective of the Postgraduate Certificate in Pediatric Oncologic Surgery is to provide specialists with the latest scientific findings in the approach to tumors in different anatomical areas in pediatric patients. The program focuses on the importance of multidisciplinary work in patient care and the need for pediatric surgeons to acquire specialized skills in the management of pediatric tumors. Specialists will be introduced to the most up-to-date information on the most common pediatric tumors, the latest surgical techniques and best practices for patient care in pediatric oncologic surgery.





“

*Entrust your training to TECH and elevate your growth possibilities with the best digital university in the world according to Forbes"*



## General Objectives

---

- ◆ Develop specialized knowledge and current treatments in pediatric surgery
- ◆ Compile the different diagnostic methods, as well as the different therapeutic options, both medical and surgical depending on the pathology
- ◆ Expose the possible associated complications and the prognosis of these diseases
- ◆ Establish the current treatment guidelines for each of the pathologies described



*You will delve into the latest scientific findings for the early diagnosis and appropriate surgical approach to oncologic pathology in children"*





## Specific Objectives

---


- ◆ Generate specialized knowledge on the most frequent solid neoplasms in pediatrics
- ◆ Determine the appropriate diagnostic approach to the different pediatric neoplasms
- ◆ Establish appropriate treatment strategies for each of these tumors
- ◆ Evaluate the main causes of surgical emergencies in pediatric oncology and clarify the surgical indications in these cases
- ◆ Substantiate the basic principles in pediatric oncology
- ◆ Analyze the tumor pathologies that occur in the pediatric age group
- ◆ Update staging and treatment protocols
- ◆ Systematize the surgical approach to tumor pathologies in pediatric age
- ◆ Generate specialized knowledge on the main biopsy techniques in the pediatric oncology patient
- ◆ Familiarize the pediatric surgeon with the diagnosis and surgical treatment of the main pediatric tumors
- ◆ Carry out an update on fertility preservation techniques in the pediatric oncologic patient

03

# Course Management

The teachers of the Postgraduate Certificate in Pediatric Oncologic Surgery are recognized experts in the specialty, with extensive experience and knowledge in the care and treatment of tumors in pediatric patients. They have a solid training and an outstanding professional trajectory in the area of Pediatric Oncologic Surgery, which allows them to provide specialists with high quality information and a practical approach.





“ Thanks to the teaching of a highly experienced faculty and the practical approach of the program, from the very first moment you will be able to apply what you learn to your clinical practice”

## International Guest Director

Dr. Mehul V. Raval is a pediatric surgeon specializing in improving outcomes and quality of care for children requiring surgical interventions. As such, his work has encompassed General Pediatric Surgery, Thoracic Surgery and Surgical Oncology, with expertise in Minimally Invasive Techniques and Neonatal Surgery. In addition, his primary interests include the implementation of enhanced recovery protocols, patient safety and value-based surgical care.

Throughout his career, he has served as Director of Research in the Division of Pediatric Surgery and as Director of the Center for Outcomes Research and Public Health at Ann & Robert H. Lurie Children's Hospital, Chicago. He has also played key roles in surgical quality improvement nationally, collaborating on projects with the Food and Drug Administration (FDA) and the Agency for Healthcare Research and Quality (AHRQ), as well as leading research on the effectiveness of surgical procedures in children's hospitals.

Internationally recognized, he has contributed significantly to the development of the American College of Surgeons National Pediatric Surgical Quality Improvement Program (ACS-NSQIP-P), currently implemented in more than 150 hospitals in the United States. In turn, he has received numerous grants from prestigious organizations, such as the National Institutes of Health (NIH), and has served on several committees of medical organizations, including the American Association for Pediatric Surgery and the American Academy of Pediatrics.

In addition, Mehul V. Raval, M.D., has authored more than 170 peer-reviewed articles and book chapters. In fact, his research ranges from clinical trials to outcome measurement and patient safety. As a surgeon, he has strived to help children recover optimally.



## Dr. Raval, Mehul V.

---

- ♦ Director of Pediatric Surgery at Ann & Robert H. Lurie Children's Hospital, Chicago, United States
- ♦ Director of the Center for Outcomes Research and Public Health at Ann & Robert H. Lurie Children's Hospital
- ♦ Vice Chair of Quality and Safety at Ann & Robert H. Lurie Children's Hospital
- ♦ Chair of the Board of Pediatric Surgery at the Orvar Swenson Foundation
- ♦ Doctor of Medicine, Wake Forest University
- ♦ Master of Science in Clinical Research, Northwestern University
- ♦ B.S. in General Biology from the University of North Carolina
- ♦ Member of:
  - ♦ American Pediatric Surgical Association
  - ♦ American Academy of Pediatrics

“

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

## Management



### Dr. Paredes Esteban, Rosa María

- ♦ Head of Service and Director of the Pediatric Surgery Clinical Management Unit of the university Reina Sofia Hospital of Córdoba
- ♦ Specialist in Pediatric Surgery at Reina Sofia University Hospital of Cordoba
- ♦ Specialist in Pediatric Surgery at Jaén Medical-Surgical Hospital
- ♦ Responsible for Pediatric Surgery Training at the Reina Sofia University Hospital of Córdoba
- ♦ Coordinator of the Bioethics Commission of the Spanish Society of Pediatric Surgery
- ♦ Vice-President of the Ethics Committee of the province of Córdoba
- ♦ Coordinator of the Vascular Anomalies Committee of the Reina Sofia University Hospital of Córdoba
- ♦ Living Donor Transplant Bioethics Committee Coordinator
- ♦ Doctor of Medicine and Surgery from the University of Granada
- ♦ Graduate in Medicine and Surgery from the University of Granada
- ♦ Postgraduate Certificate in Communication with the Pediatric Patient
- ♦ Postgraduate Diploma in Clinical Management
- ♦ University Diploma of Specialization in Quality and Patient Safety in Health Care Institutions
- ♦ University Diploma of Specialization in Bioethics
- ♦ Member of: European Society of Pediatric Endoscopic Surgery, Spanish Society of Pediatric Surgery, Editorial Committee of the Spanish Society of Pediatric Surgery Journal, Scientific Evaluation Committee of the Spanish Society of Pediatric Surgery



## Professors

### Dr. Girón Vallejo, Óscar

- ◆ Head of the Pediatric Oncological Surgery Unit at Clinical University Virgen de la Arrixaca Hospital
- ◆ Specialist in Pediatric Surgery at the Puerta del Mar University Hospital
- ◆ Lead investigator in the group "NK cell-tumor cell interaction model in high-risk neuroblastoma"
- ◆ Specialty in Pediatric Surgery at Virgen de la Arrixaca Clinical University Hospital
- ◆ Doctor of Medicine from the University of Cadiz
- ◆ Graduate in Medicine from the University of Cadiz
- ◆ Fellow in Pediatric Laparoscopic Surgery at the Lapeyronie Center University Hospital
- ◆ Fellow in Pediatric Oncological Surgery at St. Jude Children's Research Hospital
- ◆ Member of: Spanish Society of Pediatric Surgery, Spanish Association of Surgeons, Society of Pediatrics of Southeastern Spain and Spanish Society of Vascular Anomalies

### Dr. Ibarra Rodríguez, María Rosa

- ◆ Pediatric Surgeon of the General Surgery and Pediatric Oncology Department at the Reina Sofia University Hospital
- ◆ Graduate in Medicine and Surgery from the University of Cordoba
- ◆ Master's Degree in Pediatric Urology from the UNIA
- ◆ Master's Degree in Minimally Invasive Surgery by TECH Technological University
- ◆ Internship program at the Tawam Hospital Abu Dhabi, United Arab Emirates
- ◆ Internship program at Memorial Sloan Kettering Cancer Center New York
- ◆ Member of: Association of Pediatric Surgeons of Andalusia (ACPA), Spanish Society of Pediatric Surgery (SECIPE), International Society of Pediatric Oncology (SIOP) and International Society of Pediatric Surgical Oncology (IPSO)

### Dr. Vázquez Rueda, Fernando

- ◆ Head of Pediatric Oncologic Surgery, Reina Sofia University Hospital
- ◆ Associate Professor in Health Sciences in the area of Pediatrics at the Faculty of Medicine and Nursing of the University of Cordoba
- ◆ Senior Researcher at the Maimonides Institute of Biomedical Research of Cordoba (IMIBIC)
- ◆ Doctor of Medicine and Surgery from the University of Extremadura
- ◆ Master's in Public Health and Health Management from the International School of Hospital Management
- ◆ Master's in Laparoscopic Surgery from the University of Cordoba
- ◆ Master's Degree in Molecular Oncology from the Rey Juan Carlos University
- ◆ Certificate by the European Board of Pediatric Surgery
- ◆ Specialist in Pediatric Surgery
- ◆ Specialized in Medicine and Surgery from the University of Seville
- ◆ Graduate in Medicine and Surgery from the University of Seville  
Doctor of Medicine and Surgery from the University of Extremadura
- ◆ Member of the Editorial Committee of Pediatric Surgery, Annals of Pediatrics and Vox Pediatrics
- ◆ Member of the National Commission of Pediatric Surgery
- ◆ Member of the Pediatric Surgery Committee of the Pediatric Society of Western Andalusia and Extremadura

**Dr. Mateos González, María Elena**

- ◆ Coordinator Unit of the of Pediatric Oncology at the university Reina Sofia Hospital
- ◆ Researcher at the Maimonides Institute of Biomedical Research in Cordoba
- ◆ Doctor of Medicine from the Complutense University of Madrid
- ◆ Degree in Medicine from the University of Alcalá, Spain
- ◆ Master's Degree in Pediatric Oncology at the Complutense University of Madrid

**Dr. Molina Mata, María**

- ◆ Specialist in Pediatric Oncological Surgery at the Virgen del Rocío University Hospital
- ◆ Specialist in Pediatric Surgery at the Virgen del Rocío University Hospital
- ◆ Professional Master's Degree in Minimally Invasive Surgery in Pediatrics at CEU Cardenal Herrera University
- ◆ Master's Degree in Pediatric Urology from the International University of Andalusia
- ◆ Graduate in Medicine from the University of Zaragoza





“

*Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice”*

# 04

# Structure and Content

The syllabus of the Postgraduate Certificate in Pediatric Oncologic Surgery covers areas such as the most frequent tumors in pediatrics, advanced surgical techniques and best practices for patient care. The course also focuses on the importance of multidisciplinary work in patient care and covers topics such as preoperative evaluation, intraoperative management and postoperative patient care. On the other hand, the use of advanced technology is addressed, including robotic surgery in the management of pediatric tumors. Students will have the opportunity to deepen in specific topics and acquire practical skills for their professional practice.





“

*A rigorous university program with which you will delve into worldwide research and cooperative studies in pediatric oncologic surgery”*

## Module 1. Pediatric Oncologic Surgery

- 1.1. Tumors in Pediatric Patients
  - 1.1.1. Epidemiology
  - 1.1.2. Etiology
  - 1.1.3. Diagnosis
  - 1.1.4. Tumor Staging
  - 1.1.5. Therapeutic Principles: Surgery, Chemotherapy, Radiotherapy and Immunotherapy
  - 1.1.6. Future Therapies and Challenges
- 1.2. Wilms Tumor. Other Renal Tumors
  - 1.2.1. Wilms Tumor
    - 1.2.1.1. Epidemiology
    - 1.2.1.2. Clinical Symptoms
    - 1.2.1.3. Diagnosis
    - 1.2.1.4. Staging. Umbrella Protocol
    - 1.2.1.5. Treatment
    - 1.2.1.6. Prognosis
  - 1.2.2. Other Renal Tumors
    - 1.2.2.1. Clear Cell Sarcoma
    - 1.2.2.2. Rhabdoid Tumor
    - 1.2.2.3. Renal Cell Carcinoma
    - 1.2.2.4. Congenital Mesoblastic Nephroma
    - 1.2.2.5. Cystic Nephroma
    - 1.2.2.6. Partially Differentiated Cystic Nephroblastoma
- 1.3. Neuroblastoma
  - 1.3.1. Epidemiology
  - 1.3.2. Histopathology and Classification Molecular Biology
  - 1.3.3. Clinical Presentation. Syndromes Associated
  - 1.3.4. Diagnostics: Laboratory and Imaging Techniques
  - 1.3.5. Staging and Risk Group
  - 1.3.6. Multidisciplinary Treatment: Chemotherapy, Surgery, Radiotherapy, Immunotherapy. New Strategies
  - 1.3.7. Response Evaluation
  - 1.3.8. Prognosis
- 1.4. Benign and Malignant Liver Tumors
  - 1.4.1. Diagnosis of Liver Masses
  - 1.4.2. Benign Hepatic Tumors
    - 1.4.2.1. Hepatic Hemangioma in Infancy
    - 1.4.2.2. Mesenchymal Hamartoma
    - 1.4.2.3. Focal Nodular Hyperplasia
    - 1.4.2.4. Adenoma
  - 1.4.3. Malignant Liver Tumors
    - 1.4.3.1. Hepatoblastoma
    - 1.4.3.2. Hepatocellular Carcinoma
    - 1.4.3.3. Hepatic Angiosarcoma
    - 1.4.3.4. Other Hepatic Sarcomas
- 1.5. Pediatric Sarcomas
  - 1.5.1. Initial Classification
  - 1.5.2. Rhabdomyosarcomas
    - 1.5.2.1. Epidemiology
    - 1.5.2.2. Risk Factors
    - 1.5.2.3. Histopathology
    - 1.5.2.4. Clinical Symptoms
    - 1.5.2.5. Diagnosis
    - 1.5.2.6. Staging
    - 1.5.2.7. Treatment
    - 1.5.2.8. Prognosis
  - 1.5.3. Non-rhabdomyosarcoma
    - 1.5.3.1. Synovial Sarcoma
    - 1.5.3.2. Infantile fibrosarcoma
    - 1.5.3.3. Malignant Peripheral Nerve Sheath Tumor, Malignant Schwannoma or Neurofibrosarcoma
    - 1.5.3.4. Dermatofibrosarcoma Protuberans
    - 1.5.3.5. Desmoplastic Small Round Cell Tumor
    - 1.5.3.6. Liposarcomas
    - 1.5.3.7. Leiomyosarcoma
    - 1.5.3.8. Angiosarcoma

- 1.5.3.9. Solitary Fibrous Tumor
- 1.5.3.10. Undifferentiated Soft Tissue Sarcoma
- 1.5.3.11. Inflammatory Myofibroblastic Sarcoma
- 1.5.3.12. Others
- 1.5.4. Bone Sarcomas of Extraosseous Location
- 1.6. Gonadal Tumors
  - 1.6.1. Testicular Tumors
    - 1.6.1.1. Epidemiology
    - 1.6.1.2. Clinical Symptoms
    - 1.6.1.3. Diagnosis
    - 1.6.1.4. Analytical Determinations Tumor Markers
    - 1.6.1.5. Imaging Tests
    - 1.6.1.6. Staging
    - 1.6.1.7. Classification
    - 1.6.1.8. Treatment
    - 1.6.1.9. Prognosis
    - 1.6.1.10. Histopathology
    - 1.6.1.11. Germ Cell Tumors
    - 1.6.1.12. Stromal Tumors
    - 1.6.1.13. Metastatic Tumors
    - 1.6.1.14. Paratesticular Tumors
  - 1.6.2. Ovarian Tumors
    - 1.6.2.1. Epidemiology
    - 1.6.2.2. Clinical Symptoms
    - 1.6.2.3. Diagnosis
    - 1.6.2.4. Analytical Determinations Tumor Markers
    - 1.6.2.5. Imaging Tests
    - 1.6.2.6. Staging
    - 1.6.2.7. Classification
    - 1.6.2.8. Treatment
    - 1.6.2.9. Prognosis
    - 1.6.2.10. Histopathology
    - 1.6.2.11. Mature Teratoma
    - 1.6.2.12. Gonadoblastoma
    - 1.6.2.13. Immature Teratoma
    - 1.6.2.14. Endodermal sinus tumor
    - 1.6.2.15. Choriocarcinoma
    - 1.6.2.16. Embryonal Carcinoma
    - 1.6.2.17. Dysgerminoma
    - 1.6.2.18. Mixed Germ Cell Tumors
- 1.6.3. Fertility Preservation in Pediatric Oncology Patients
  - 1.6.3.1. Gonadotoxic Treatments
  - 1.6.3.2. Chemotherapy
  - 1.6.3.3. Radiotherapy
  - 1.6.3.4. Preservation Techniques
  - 1.6.3.5. Ovarian Suppression
  - 1.6.3.6. Oophoropexy or Ovarian Transposition
  - 1.6.3.7. Ovarian Cryopreservation
- 1.6.4. Combined Technique
- 1.7. Surgical Assistance in Pediatric Hemato-Oncology
  - 1.7.1. Pediatric Hematooncologic Diseases for the Pediatric Surgeon
  - 1.7.2. Biopsies
    - 1.7.2.1. Types
    - 1.7.2.2. Incisional and Excisional Biopsy Techniques
    - 1.7.2.3. Tru-cut
    - 1.7.2.4. Coaxial Needle
    - 1.7.2.5. Ultrasound for Biopsy in Pediatric Oncology
  - 1.7.3. Enteral and Parenteral Nutrition in the Oncology Patient
  - 1.7.4. Vascular Access
    - 1.7.4.1. Classification
    - 1.7.4.2. Ultrasound-guided Placement Technique for Vascular Accesses
  - 1.7.5. Surgical Emergencies in the Immunocompromised Patient: Neutropenic Enterocolitis. Hemorrhagic Cystitis
- 1.8. Bone Tumors
  - 1.8.1. Classification
    - 1.8.1.1. Benign Bone Tumors
      - 1.8.1.1.1. Epidemiology
      - 1.8.1.1.2. Clinical Manifestations

- 1.8.1.1.3. Histological Diagnosis and Classifications
  - 1.8.1.1.3.1. Bone Tumors
  - 1.8.1.1.3.2. Cartilaginous Tumors
  - 1.8.1.1.3.3. Fibrous Tumors
  - 1.8.1.1.3.4. Bone Cysts
- 1.8.1.2. Malignant Bone Tumors
  - 1.8.1.2.1. Introduction
  - 1.8.1.2.2. Ewing Sarcoma
    - 1.8.1.2.2.1. Epidemiology
    - 1.8.1.2.2.2. Clinical Symptoms
    - 1.8.1.2.2.3. Diagnosis
    - 1.8.1.2.2.4. Treatment
    - 1.8.1.2.2.5. Prognosis
  - 1.8.1.2.3. Osteosarcoma
    - 1.8.1.2.3.1. Epidemiology
    - 1.8.1.2.3.2. Clinical Symptoms
    - 1.8.1.2.3.3. Diagnosis
    - 1.8.1.2.3.4. Treatment
    - 1.8.1.2.3.5. Prognosis
- 1.9. Teratoma
  - 1.9.1. Extragonadal Germ Cell Tumors: General Information
  - 1.9.2. Mediastinal Teratomas
  - 1.9.3. Retroperitoneal Teratomas
  - 1.9.4. Sacrococcygeal Teratomas
  - 1.9.5. Other Locations
- 1.10. Endocrine Tumors
  - 1.10.1. Adrenal Gland Tumors: Pheochromocytoma
    - 1.10.1.1. Epidemiology
    - 1.10.1.2. Genetics
    - 1.10.1.3. Presentation and Assessment
    - 1.10.1.4. Treatment
    - 1.10.1.5. Prognosis







- 1.10.2. Thyroid tumors
  - 1.10.2.1. Epidemiology
  - 1.10.2.2. Genetics
  - 1.10.2.3. Clinical Symptoms
  - 1.10.2.4. Diagnosis. Imaging and Cytological
  - 1.10.2.5. Preoperative Endocrinologic Management, Surgical Intervention, Postoperative Management and Adjuvant Treatments
  - 1.10.2.6. Complications
  - 1.10.2.7. Postoperative Staging and Categorization
  - 1.10.2.8. Follow-up According to Staging

“*The program includes new approaches to preoperative evaluation, intraoperative management and postoperative care of pediatric patients*”

05

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, 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 Relearning, 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

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, 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, trying to recreate the real conditions in the physician's professional 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 achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate 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.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This 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, a real revolution with respect to the mere study and analysis of cases.

*Professionals will learn through real cases and by resolving 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 Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*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.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



This program offers the best educational material, prepared with professionals 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.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



#### Interactive Summaries

The TECH team presents 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 and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.







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

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, 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 students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



# 06 Certificate

The Postgraduate Certificate in Pediatric Oncologic Surgery guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



“

*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in Pediatric Oncologic 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 Certificate in Pediatric Oncologic Surgery**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



## Postgraduate Certificate

### Pediatric Oncologic Surgery

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

# Postgraduate Certificate Pediatric Oncological Surgery

