

# Postgraduate Diploma Pediatric Digestive Surgery





## Postgraduate Diploma Pediatric Digestive Surgery

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

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

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# 01

# Introduction

Digestive Surgery is the broadest field within Pediatrics, performed by all pediatric surgeons, because unlike other fields such as urology or plastic surgery, digestive pathologies are treated practically on a daily clinical basis. Consequently, the approach to key aspects such as Inflammatory Bowel Disease or Coloproctology becomes of prime necessity for the specialist in the area, requiring regular updating in these areas. This university degree is a response to this situation, compiling the most important clinical and scientific developments in the field. All this in a comfortable and flexible way, since the program format is 100% online, without on-site classes or preset schedules.



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*Examine the most relevant developments in digestive functional tests, hepatobiliary pathology and digestive laparoscopy”*

Diagnosis, as well as prompt treatment and appropriate interventions are key in any type of clinical procedure. This is intensified in the Pediatric Digestive Surgery area, where, for example, when faced with common problems such as cleaning products ingestion, the specialist will require esophageal dilatation and advanced endoscopic techniques.

It is precisely endoscopy and minimally invasive surgery techniques that have created a particularly favorable field of action for specialists in all fields. Therefore, the pediatric surgeon dedicated to the digestive area must also have a certain mastery of robotics and current equipment, as well as enteral and parenteral nutritional assessment.

The present academic program delves precisely into all these aforementioned issues, serving as a reliable way of updating for all specialists in the area interested in Pediatric Digestive Surgery. The syllabus has been prepared by a large teaching team of experts in multiple pediatric surgical fields, providing both a theoretical and practical vision of all the topics covered.

As such, the student will delve into issues such as nutrition in the surgical child, new treatment techniques in intestinal volvulus or biliary tract atresia in a completely online setting. Without having to follow the strictness of a pre-established schedule, the specialist himself will have the freedom to decide at all times to accommodate the teaching load to his own interests.

This **Postgraduate Diploma in Pediatric Digestive 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
- Practical exercises where self-assessment can be used 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



*Get up to date on the approach to patients with Short Bowel Syndrome, the surgical techniques used in the treatment of IBD and the most modern esophageal replacement techniques”*

“

*Access the Virtual Campus whenever you want, as it is available from any device with an internet connection 24 hours a day”*

*Update yourself with the most current technical procedures in Pediatric Digestive Surgery, supported by the clinical practice of the teaching staff.*

*Manage your own study time without the pressure of fixed classes or inflexible schedules.*

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. This will be done with the help of an innovative system of interactive videos made by renowned experts.



# 02 Objectives

One of the main objectives of this Postgraduate Diploma in Pediatric Digestive Surgery is to encourage the specialist's own critical thinking, an issue for which it is essential to access both the most rigorous techniques and the most current scientific postulates. Therefore, the entire syllabus has a distinctively practical approach, with continuous examples and real clinical analysis to adequately contextualize all the knowledge covered.







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*The vast amount of practical examples provided for each topic covered will give you a unique clinical perspective on state-of-the-art Pediatric Digestive Surgery”*



## General Objectives

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- ♦ 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



*The thoroughness with which each topic and module has been detailed will exceed even your highest expectations”*





## Specific Objectives

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### **Module 1. Pediatric Surgery Surgical Patient Management Trauma Robotics in Pediatric Surgery**

- ♦ Generate knowledge in health care bioethics
- ♦ Analyze the most recent advances in laparoscopic and robotic surgery
- ♦ Determine the pre and post-operative nutritional management of the surgical patient
- ♦ Acquire the necessary knowledge to establish the different modes of special, enteral, parenteral and other feeding routes
- ♦ Establish the concept of bioethics Establishment of therapeutic effort limitation and palliative care
- ♦ Review the latest updates in laparoscopic surgery and share initial experiences in the introduction of robotic surgery applied to pediatric surgery, as well as in the fields that it applies

### **Module 2. General and Digestive Pediatric Surgery I**

- ♦ Examine the new techniques and tests available for motility and functional disorders diagnosis
- ♦ Deepen in esophageal functional tests, especially the less common ones such as impedanciometry and esophageal manometry
- ♦ Analyze the treatments with the best results in esophageal replacement
- ♦ Determine the most frequent pathologies with current diagnostic and therapeutic techniques

### **Module 3. General and Digestive Pediatric Surgery II**

- ♦ Determine the main digestive and hepatic pathologies that may present in pediatrics, including inflammatory bowel disease, short bowel syndrome and intestinal transplantation, coloproctology as well as hepatobiliary diseases and liver transplantation
- ♦ Acquire specialized knowledge about IBD and development of the various therapeutic options that can be applied
- ♦ Determine the different causes that can lead to intestinal failure Short bowel syndrome management in all its stages
- ♦ Establish patient management with anorectal malformations or Hirschsprung's disease
- ♦ Analyze the functional tests used in coloproctology, with special emphasis on anorectal manometry and its different indications
- ♦ Examine the most common hepatobiliopancreatic pathology

03

# Course Management

The teaching staff in charge of this Postgraduate Diploma has accumulated outstanding clinical experience in the field of Pediatric Surgery, bringing surgeons together from multiple areas such as minimally invasive surgery, gastroenterology, hepatology and nutrition, among others. In this way, the specialist will obtain not only an updated vision of Pediatric Digestive Surgery, but also the necessary multidisciplinary perspective that is so necessary in the clinical setting today.





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*You will be able to consult their doubts directly with the teaching staff, obtaining a personalized personalized academic experience to their interested”*

## Management



### Dr. Paredes Esteban, Rosa María

- ♦ Head of Service and Director of the Pediatric Surgery Clinical Management Unit of the Reina Sofia Hospital
- ♦ Specialist in Pediatric Surgery at the Reina Sofia Hospital
- ♦ Specialist in Pediatric Surgery at Jaén Medical-Surgical Hospital
- ♦ Responsible for Pediatric Surgery Training at the Reina Sofia Hospital
- ♦ President of the Spanish Society of Pediatric Surgery
- ♦ Coordinator of the Bioethics Commission of the Spanish Society of Pediatric Surgery
- ♦ Coordinator of the Vascular Anomalies Committee of the Reina Sofia University Hospital
- ♦ Coordinator of the Living Donor Transplant Commission (Renal and Hepatic) of Córdoba
- ♦ Doctor of Medicine and Surgery from the University of Granada
- ♦ Graduate in Medicine and Surgery from the University of Granada
- ♦ 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. Álvarez García, Natalia

- ♦ Pediatric Surgery Service Coordinator of Parc Tauli Health Corporation
- ♦ Specialist in Pediatric Surgery at Parc Tauli Health Corporation
- ♦ Resident tutor and full professor at the UAB
- ♦ Doctor of Medicine from the University of Zaragoza
- ♦ Graduate in Medicine from the University of Zaragoza
- ♦ Specialty in Pediatric Surgery at Miguel Servet University Hospital
- ♦ Master's Degree in Bioethics and Law from the University of Barcelona

### Dr. Peláez Mata, David José

- ♦ Specialist in the General Aspects and Neonatal Surgery Unit at Gregorio Marañón University Hospital
- ♦ Specialist in Pediatric Surgery at Albacete University Medical Center
- ♦ Specialist in Pediatric Surgery at the Central de Asturias University Hospital
- ♦ Doctor of Medicine from the University of Oviedo
- ♦ Graduate in Medicine and Surgery from the University of Oviedo
- ♦ Specialty in Pediatric Surgery at the Central de Asturias Hospital



**Dr. Tolín Hernani, María del Mar**

- ◆ Specialist in Gastroenterology, Hepatology, and Nutrition at the Gregorio Marañón Maternal-Child Hospital
- ◆ Specialist in Pediatric Digestive at the Hospital of San Rafael
- ◆ Degree in Medicine from the Complutense University of Madrid
- ◆ Specialty in Pediatrics at the Gregorio Marañón General University Hospital
- ◆ Subspecialty in Pediatric Digestive and Nutrition at the Hospital General Universitario Gregorio Marañón

**Dr. De Diego, Marta**

- ◆ President of the Spanish Society of Pediatric Surgery
- ◆ Head of the Pediatric Surgery Service of the Germans Trias i Pujol Hospital
- ◆ Director of the Continuing Education Program in Pediatric Surgery at the Germans Trias i Pujol Hospital
- ◆ Organizer of the twelfth European Congress of the European Society of Pediatric Surgeons
- ◆ Graduate in Medicine and Surgery from the Central University of Barcelona
- ◆ Specialty in Pediatric Surgery at the Vall d' Hebron Hospital
- ◆ Member of: Board of the Iberoamerican Society of Pediatric Surgery

**Dr. Zelaya Contreras, Luz Emigdia**

- ◆ Pediatric Specialist
- ◆ Specialist in Pediatrics at Hospital Escuela Universitario, Honduran Social Security Institute and Hospital María of Pediatric Specialties
- ◆ Doctor in Social Service in Yarula La Paz
- ◆ Doctor of Medicine and Surgery from the National Autonomous University of Honduras
- ◆ Specialist in Pediatrics from the National Autonomous University of Honduras

**Dr. Ramírez Calazans, Ana**

- ♦ Specialist in Pediatric Surgery at the Reina Sofia Hospital
- ♦ Graduate in Medicine from the University of Malaga
- ♦ Specialty in Pediatric Surgery at the Reina Sofia Hospital

**Dr. Agustín Asensio, Juan Carlos**

- ♦ Head of Pediatric Surgery at Gregorio Marañón University Hospital
- ♦ Head of Pediatric Surgery at the Virgen del Rocío University Hospital
- ♦ Specialist in Pediatric Surgery at La Paz Hospital
- ♦ President of the European Society of Pediatric Endoscopic Surgeons
- ♦ President of the Spanish Society of Laparoscopic and Robotic Surgery
- ♦ Doctor of Medicine and Surgery from the University of Alicante
- ♦ Graduate in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Internships at Cleveland Metropolitan General Hospital, Toronto Children's Hospital, Motol Hospital in Prague and Children's Hospital of Pittsburgh

**Dr. Grijalva Estrada, Ornella**

- ♦ Specialist in Pediatric Urology at the Reina Sofia Hospital
- ♦ Specialist in Pediatric Urology at the La Paz University Hospital
- ♦ Clinical Tutor at Reina Sofia University Hospital
- ♦ Graduate in Medicine from the Central University of Ecuador
- ♦ Master's in Infant Urology from the International University of Andalusia







**Dr. Murcia Pascual, Francisco Javier**

- ◆ Specialist in Pediatric Surgery at Reina Sofia University Hospital of Cordoba
- ◆ Specialist in Pediatric Surgery at San Juan de Dios University Hospital
- ◆ Graduate in Medicine from the Autonomous University of Madrid

**Dr. Pérez Bertólez, Sonia**

- ◆ Consultant in Pediatric Surgery, Neonatal Surgery and Pediatric Urology at Teknon Medical Center
- ◆ Specialist in the Pediatric Urology Section at the Sant Joan de Déu Children's Hospital
- ◆ Specialist in Pediatric Surgery at the Virgen del Rocío Children's Hospital
- ◆ Specialist in Pediatric Surgery at the Toledo Medical Center
- ◆ Doctor of Medicine and Surgery at the University of Malaga
- ◆ Graduate in Medicine and Surgery from the University of Santiago de Compostela
- ◆ Specialty of Pediatric Surgery at the University of Carlos Haya Medical Center
- ◆ Master's Degree in Pediatric Urology
- ◆ Postgraduate Diploma in Pediatric Surgery
- ◆ Fellow of the European Board of Pediatric Surgery

**Dr. Parente Hernández, Alberto**

- ♦ Specialist in Pediatric Surgery at Reina Sofia University Hospital
- ♦ Specialist in Pediatric Surgery at Torrejón University Hospital
- ♦ Specialist in Pediatric Surgery in the Pediatric Urology Section of Gregorio Marañón Children's Hospital
- ♦ Doctor of Medicine from the Complutense University of Madrid
- ♦ Graduate in Medicine from the University of Valladolid
- ♦ Specialist in Pediatric Surgery
- ♦ Master's in Clinical Management and Medical and Health Care Management from Cardenal Herrera University. CEU
- ♦ Master's in Pediatric Urology from the International University of Andalusia
- ♦ Member of: European Society of Pediatric Urology

**Dr. García González, Miriam**

- ♦ Specialist in the Pediatric Urology department of La Coruña University Medical Center
- ♦ Specialist in Pediatric Surgery at the HM Modelo-Belén Hospital
- ♦ Medical students Coordinator of the Pediatric Surgery Service of La Coruña University Medical Center
- ♦ Teaching Collaborator at the University of Santiago de Compostela
- ♦ Doctor of Medicine and Surgery from the University of La Coruña
- ♦ Graduate in Medicine and Surgery from the University of Oviedo
- ♦ Specialist in Pediatric Surgery at La Coruña University Medical Center
- ♦ Master's Degree in Health Care and Research in the Specialty of Clinical Research by the University of La Coruña
- ♦ Master's in Pediatric Urology by the University of Andalusia

**Dr. Granero Cendón, Rocío**

- ♦ Specialist in Pediatric Surgery at the Virgen del Rocío University Hospital
- ♦ Specialist in Pediatric Surgery at the Jaén University Medical Center
- ♦ Specialist in Pediatric Surgery at Reina Sofia University Hospital
- ♦ Graduate in Medicine and Surgery from the University of Santiago de Compostela
- ♦ Specialty in Pediatric Surgery

**Dr. Moya Jiménez, María José**

- ♦ Specialist in Pediatric Surgery at the Virgen del Rocío Hospital
- ♦ Graduate in Medicine and Surgery from the University of Seville
- ♦ Specialist in Pediatric Surgery at the Virgen del Rocío's Hospital
- ♦ Lecturer in a multitude of workshops and courses on Pediatric Surgery

**Dr. Garrido Pérez, José Ignacio**

- ♦ Specialty in Pediatric Surgery at Reina Sofia University Hospital
- ♦ Collaborator and Instructor in a Variety of Medical Courses and Programs
- ♦ Graduate in Medicine and Surgery from the University of Seville
- ♦ Doctor of Medicine and Surgery from the University of Extremadura
- ♦ Specialty in Pediatric Surgery
- ♦ Master's Degree in Molecular, Cellular and Advanced Biotechnology from the University of Cordoba

**Dr. Murcia Zorita, Francisco Javier**

- ♦ Coordinator of the Pediatric Polytrauma Program at La Paz Children's Hospital
- ♦ Member of the Pediatric Liver Transplant Team at La Paz Children's Hospital
- ♦ Member of the Pediatric Digestive Transplant Team at La Paz Children's Hospital

- ♦ Graduate in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Specialist in Pediatric Surgery
- ♦ Professor in Neonatal Surgery and Pediatric Liver Transplant Update Courses

#### **Dr. Bada Bosch, Isabel**

- ♦ Specialist in Pediatric and Minimally Invasive Surgery
- ♦ Specialist at the Children's Hospital and Minimally Invasive Surgery Center of the Federico II University of Naples
- ♦ Teacher of the suture workshop at several conferences of the Spanish Society of Pediatric Emergency Medicine
- ♦ Collaborator in practical teaching at the Public Health and Mother and Child Department of the Complutense University of Madrid
- ♦ Graduate in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Specialty in Pediatric Surgery at the General University Gregorio Marañón Hospital

#### **Dr. Ibarra Rodríguez, María Rosa**

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

#### **Dr. Cadaval Gallardo, Carlos**

- ♦ Specialist in the Pediatric Digestive Surgery Unit at the Virgen del Rocío University Hospital
- ♦ Specialist in the Oncological, Neonatal and Liver Surgery Unit of the Vall d'Hebron University Hospital
- ♦ Specialist in Pediatric Surgery at the Universitari Dexeus Hospital
- ♦ Specialist in Pediatric Surgery at Teknon Medical Center
- ♦ Specialist in Pediatric Surgery at the Hospital of Quirónsalud Barcelona
- ♦ Specialist in Pediatric Surgery at the Maternal-Child Hospital of Badajoz
- ♦ Graduate in Medicine at the University of Extremadura
- ♦ Master's in Pediatric Urology at the International University of Andalusia
- ♦ Master's in Minimally Invasive Surgery in Pediatrics at the CEU Cardenal Herrera University



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

# 04

# Structure and Content

To ensure not only the highest quality but also a smooth and effective academic experience, TECH Global University has used the Relearning methodology in the development of all the contents of this program. This means that the key concepts and most relevant terminology within Pediatric Digestive Surgery are reiterated in a natural and progressive way throughout the syllabus, which in turn means a considerable saving in the hours of study required.





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*You will be able to access a multimedia library with high-quality graphic resources, including videos in detail and numerous analyses of real clinical cases”*

**Module 1. Pediatric Surgery Surgical Patient Management Trauma. Robotics in Pediatric Surgery**

- 1.1. Nutrition in the Surgical Child Assessment of Nutritional Status. Nutritional Requirements Special Nutrition: Enteral and Parenteral
  - 1.1.1. Calculation of Water and Electrolyte Requirements in Pediatrics
  - 1.1.2. Calculation of Caloric Needs in Pediatrics
    - 1.1.2.1. Nutritional Status Assessment
    - 1.1.2.2. Nutritional Requirements
  - 1.1.3. Nutrition in the Surgical Child
  - 1.1.4. Enteral Nutrition
    - 1.1.4.1. Indications and Contraindications
    - 1.1.4.2. Access Routes
    - 1.1.4.3. Routes of Administration
    - 1.1.4.4. Formulas
    - 1.1.4.5. Complications
  - 1.1.5. Parenteral Nutrition
    - 1.1.5.1. Indications and Contraindications
    - 1.1.5.2. Access Routes
    - 1.1.5.3. Composition
    - 1.1.5.4. Production
    - 1.1.5.5. Form of Administration
    - 1.1.5.6. Complications
- 1.2. Ethical Considerations in the Neonate and Pediatric Patient. Child Law
  - 1.2.1. Ethical Considerations in the Neonate and Pediatric Patient
    - 1.2.1.1. Ethics in Pediatric Practice
    - 1.2.1.2. Ethical Considerations in Pediatric Newborn Care
    - 1.2.1.3. Ethics and Clinical Research in Pediatrics
- 1.3. Palliative Care in Pediatric Surgery
  - 1.3.1. Palliative Care in Pediatrics. Ethical Aspects
  - 1.3.2. Bioethics in End-of-life Neonatology
    - 1.3.2.1. Decision-making in Neonatal Intensive Care Units
  - 1.3.3. Complex Chronic Patient
    - 1.3.3.1. Therapeutic Effort Limitation
    - 1.3.3.2. The Surgeon's Role
- 1.4. Child Trauma Evaluation and Initial Care of the Polytraumatized Child
  - 1.4.1. Activation Criteria of the Initial Care Team for the Patient Polytraumatized (PPT)
  - 1.4.2. PPT Patient Care Room Preparation
  - 1.4.3. Staged Clinical Management of the PPT Patient
  - 1.4.4. Patient Transfer
  - 1.4.5. Primary Recognition and Initial Resuscitation
  - 1.4.6. Secondary Recognition
- 1.5. Hepatic, Splenic and Pancreatic Trauma Management in the Pediatric Patient
  - 1.5.1. Abdominal Trauma in Pediatric Patients
  - 1.5.2. Epidemiology
  - 1.5.3. Pediatric Abdomen. Features
  - 1.5.4. Etiopathogenesis and Classification
    - 1.5.4.1. Blunt Abdominal Trauma
      - 1.5.4.1.1. Direct Impact or Abdominal Compression
      - 1.5.4.1.2. Deceleration
  - 1.5.5. Open or Penetrating Abdominal Trauma
    - 1.5.5.1. Firearm
    - 1.5.5.2. Weapons
    - 1.5.5.3. Penetrating Impalement Wounds
  - 1.5.6. Diagnosis
    - 1.5.6.1. Clinical Examination
    - 1.5.6.2. Laboratory Tests
      - 1.5.6.2.1. Blood Count
      - 1.5.6.2.2. Urinalysis
      - 1.5.6.2.3. Biochemistry
      - 1.5.6.2.4. Cross-match Testing
    - 1.5.6.3. Imaging Tests
      - 1.5.6.3.1. Simple Abdominal X-ray
      - 1.5.6.3.2. Abdominal and FAST Ultrasound
      - 1.5.6.3.3. Abdominal CT Scan
    - 1.5.6.4. Peritoneal Lavage-Puncture

- 1.5.7. Treatment
  - 1.5.7.1. Blunt Abdominal Trauma Treatment
    - 1.5.7.1.1. Hemodynamically Stable Patients
    - 1.5.7.1.2. Hemodynamically Unstable Patients
    - 1.5.7.1.3. Conservative Approach in Solid Visceral Lesions
  - 1.5.7.2. Open Abdominal Trauma Treatment
  - 1.5.7.3. Embolization
- 1.5.8. Organ-Specific Injuries
  - 1.5.8.1. Bladder
  - 1.5.8.2. Liver
  - 1.5.8.3. Pancreas
  - 1.5.8.4. Hollow Visceral Injuries
    - 1.5.8.4.1. Stomach
    - 1.5.8.4.2. Duodenum
    - 1.5.8.4.3. Jejunum-ileum
    - 1.5.8.4.4. Large Intestine: Colon, Rectum and Sigmoid
  - 1.5.8.5. Diaphragmatic Injuries
- 1.6. Renal Trauma in Children
  - 1.6.1. Renal Trauma in Children
  - 1.6.2. Imaging Tests
  - 1.6.3. Retrograde Pyelography, Percutaneous Nephrostomy and Perinephric Drainage Indications
  - 1.6.4. Renal Trauma Management
  - 1.6.5. Renal Vascular Injuries
  - 1.6.6. Trauma-Induced Renal Vascular Hypertension
  - 1.6.7. Chronic Post-Traumatic Low Back Pain
  - 1.6.8. Recommendations for Activities in Single-kidney Patients
  - 1.6.9. Disruption of the Pyeloureteral Union in Patients with Previous Hydronephrosis
  - 1.6.10. Urethral Trauma
- 1.7. Vesicourethral and Genital Trauma Management
  - 1.7.1. Bladder Trauma
    - 1.7.1.1. General Aspects
    - 1.7.1.2. Diagnosis
    - 1.7.1.3. Classification and Treatment
  - 1.7.2. Urethral Trauma
    - 1.7.2.1. General Aspects
    - 1.7.2.2. Diagnosis
    - 1.7.2.3. Treatment
    - 1.7.2.4. Complications
  - 1.7.3. Genital Trauma
    - 1.7.3.1. Penile Trauma
    - 1.7.3.2. Scrotal and Testicular Trauma
    - 1.7.3.3. Vulvar Trauma
- 1.8. Major Pediatric Outpatient Surgery
  - 1.8.1. Abdominal Wall Hernia
    - 1.8.1.1. Umbilical Hernia
    - 1.8.1.2. Epigastric Hernia
    - 1.8.1.3. Spiegel
    - 1.8.1.4. Lumbar
  - 1.8.2. Inguinal and Scrotal Region Hernia
    - 1.8.2.1. Direct and Indirect Inguinal Hernia
    - 1.8.2.2. Femoral Hernia
    - 1.8.2.3. Hydrocele
    - 1.8.2.4. Surgical Techniques
    - 1.8.2.5. Complications
  - 1.8.3. Cryptorchidism
  - 1.8.4. Testicular Anorchia

- 1.9. Hypospadias Phimosis
  - 1.9.1. Hypospadias
    - 1.9.1.1. Embryology and Penile Development
    - 1.9.1.2. Epidemiology and Etiology. Risk Factors
    - 1.9.1.3. Hypospadias Anatomy
    - 1.9.1.4. Classification and Clinical Assessment of Hypospadias. Associated Anomalies
    - 1.9.1.5. Treatment
      - 1.9.1.5.1. Reconstruction and Therapeutic Goal Indications
      - 1.9.1.5.2. Pre-operative Hormonal Treatment
      - 1.9.1.5.3. Surgical Defects. Repair in Short Time Staged Reconstruction
    - 1.9.1.6. Other Technical Aspects Bandages. Urinary Diversion
    - 1.9.1.7. Immediate Postoperative Complications
    - 1.9.1.8. Progress and Follow-up
  - 1.9.2. Phimosis
    - 1.9.2.1. Incidence and Epidemiology
    - 1.9.2.2. Definition. Differential Diagnosis. Other Foreskin Alterations
    - 1.9.2.3. Treatment
      - 1.9.2.3.1. Medical Treatment
      - 1.9.2.3.2. Surgical Treatment. Preputialplasty and Circumcision
    - 1.9.2.4. Postoperative Complications and Sequels
- 1.10. Robotic Surgery in Pediatrics
  - 1.10.1. Robotic Systems
  - 1.10.2. Pediatric Procedures
  - 1.10.3. General Technique of Robotic Surgery in Pediatric Urology
  - 1.10.4. Surgical Procedures in Pediatric Urology Classified According to Localization
    - 1.10.4.1. Upper Urinary Tract
    - 1.10.4.2. Pediatric Pelvic Surgery
  - 1.10.5. Surgical Procedures in Pediatric General Surgery
    - 1.10.5.1. Fundoplication
    - 1.10.5.2. Splenectomy
    - 1.10.5.3. Cholecystectomy







## Module 2. General and Digestive Pediatric Surgery I

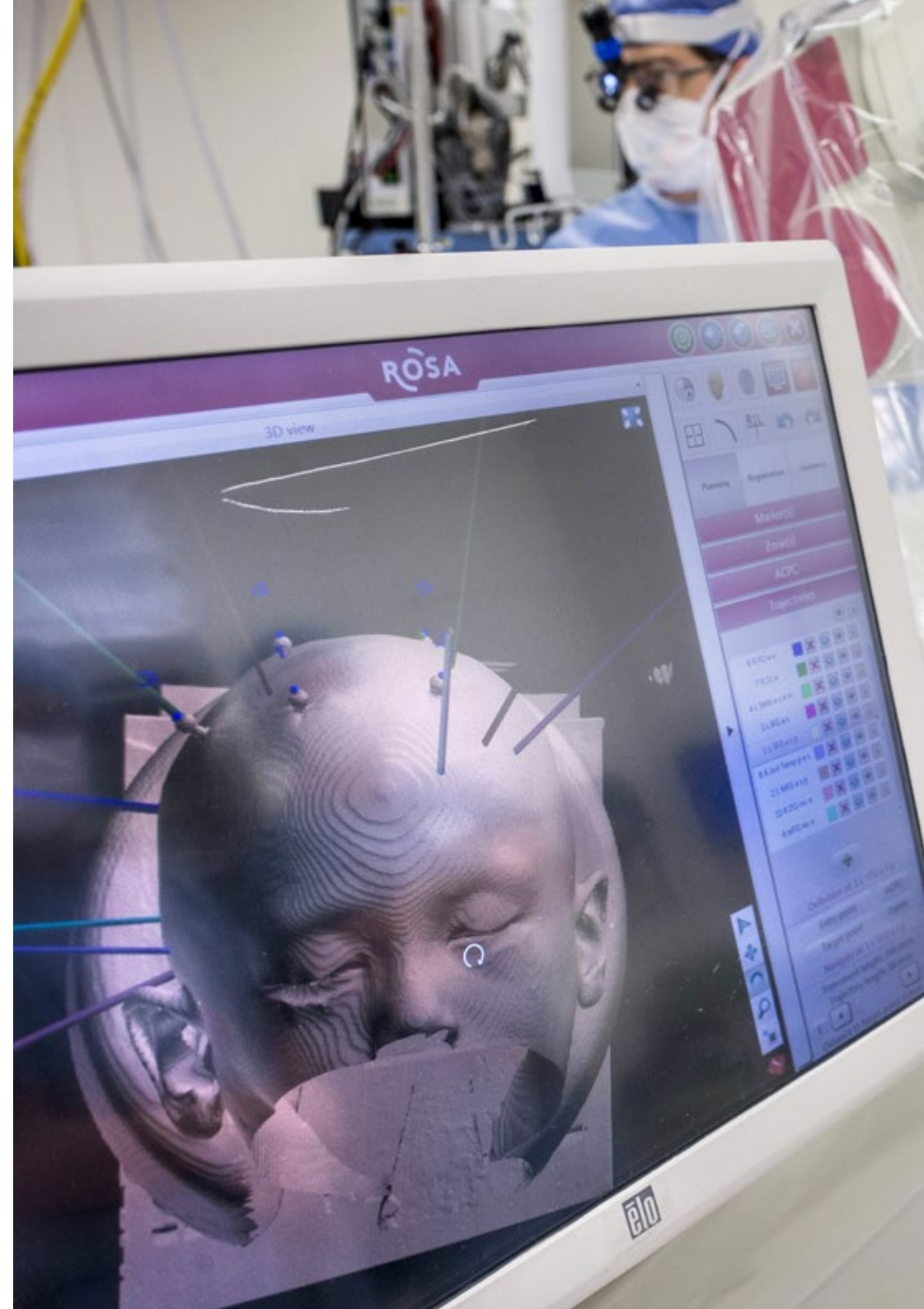
- 2.1. Functional alterations of the esophagus: evaluation methods Functional Tests
  - 2.1.1. Esophageal pHmetry
  - 2.1.2. Esophageal Impedance
  - 2.1.3. Conventional Esophageal Manometry
  - 2.1.4. High-resolution Esophageal Manometry
- 2.2. Gastroesophageal Reflux
  - 2.2.1. Gastroesophageal Reflux
  - 2.2.2. Epidemiology and Pathophysiology
  - 2.2.3. Clinical Presentation
  - 2.2.4. Diagnosis
  - 2.2.5. Treatment
    - 2.2.5.1. Medical Treatment
    - 2.2.5.2. Extraesophageal Manifestations of GERD Treatment
    - 2.2.5.3. Surgical Management
      - 2.2.5.3.1. Fundoplication Types
      - 2.2.5.3.2. Other Surgical Interventions
    - 2.2.5.4. Endoscopic Treatment
  - 2.2.6. Evolution, Complications and Prognosis
- 2.3. Acquired Esophageal Diseases. Esophageal Rupture and Perforation, Caustic Stricture. Endoscopy
  - 2.3.1. Acquired Esophageal Pathology Prevalent in Childhood
  - 2.3.2. Advances in Esophageal Perforation Management
  - 2.3.3. Esophageal Caustic Injuries
    - 2.3.3.1. Diagnostic Methods and Management of Esophageal Caustic Injury
    - 2.3.3.2. Caustic Esophageal Stricture
  - 2.3.4. Peculiarities in Upper Endoscopy in Children
- 2.4. Achalasia and Esophageal Motility Disorders
  - 2.4.1. Epidemiology
  - 2.4.2. Etiology
  - 2.4.3. Pathophysiology
  - 2.4.4. Clinical Characteristics

- 2.4.5. Diagnosis
  - 2.4.5.1. Diagnostic Approach
  - 2.4.5.2. Diagnostic Tests
- 2.4.6. Differential Diagnosis
  - 2.4.6.1. Gastroesophageal Reflux Disease (GERD)
  - 2.4.6.2. Pseudoachalasia
  - 2.4.6.3. Others Esophageal Motility Disorders
- 2.4.7. Types of Achalasia
  - 2.4.7.1. Type I (Classic Achalasia)
  - 2.4.7.2. Type I
  - 2.4.7.3. Type III (Spastic Achalasia)
- 2.4.8. Natural History and Prognosis
- 2.4.9. Treatment
  - 2.4.9.1. Medical Treatment
  - 2.4.9.2. Esophageal Dilations
  - 2.4.9.3. Endoscopic Treatment
  - 2.4.9.4. Surgical Management
- 2.4.10. Evolution, Complications and Prognosis
- 2.5. Esophageal Replacement Techniques and Indications
  - 2.5.1. Indications
    - 2.5.1.1. Esophageal Atresia
    - 2.5.1.2. Peptic Stenosis
    - 2.5.1.3. Caustic Stenosis
    - 2.5.1.4. Others
  - 2.5.2. Ideal Esophageal Substitution Characteristics
  - 2.5.3. Types of Esophageal Replacement
  - 2.5.4. Ascent Routes of the Esophageal Substitute
  - 2.5.5. Ideal Intervention Time
  - 2.5.6. Surgical Techniques
    - 2.5.6.1. Colonic Interposition
    - 2.5.6.2. Esophagoplasty with Gastric Tubes
    - 2.5.6.3. Jejunal Interposition
    - 2.5.6.4. Gastric Interposition
  - 2.5.7. Post-Operative Care
  - 2.5.8. Evolution and Results
- 2.6. Acquired Gastric Pathology
  - 2.6.1. Hypertrophic Pyloric Stenosis
    - 2.6.1.1. Etiology
    - 2.6.1.2. Clinical Manifestations
    - 2.6.1.3. Diagnosis
    - 2.6.1.4. Treatment
  - 2.6.2. Pyloric Atresia
  - 2.6.3. Peptic Ulcer Disease
    - 2.6.3.1. Clinical Manifestations
    - 2.6.3.2. Diagnosis
  - 2.6.4. Gastric Duplication
  - 2.6.5. Gastrointestinal Bleeding
    - 2.6.5.1. Introduction
    - 2.6.5.2. Assessment and Diagnosis
    - 2.6.5.3. Treatment Management
  - 2.6.6. Gastric Volvulus
  - 2.6.7. Foreign Bodies and Bezoar
- 2.7. Intestinal Duplications Meckel's Diverticulum Persistent Omphalomesenteric Duct
  - 2.7.1. Objectives
  - 2.7.2. Intestinal Duplications
    - 2.7.2.1. Epidemiology
    - 2.7.2.2. Embryology, Anatomical Features, Classification and Localization
    - 2.7.2.3. Clinical Presentation
    - 2.7.2.4. Diagnosis
    - 2.7.2.5. Treatment
    - 2.7.2.6. Post-operative Considerations
    - 2.7.2.7. News and Current Interest

- 2.7.3. Meckel's Diverticulum
  - 2.7.3.1. Epidemiology
  - 2.7.3.2. Embryology, Anatomical Features, other Anomalies of the Omphalomesenteric Duct Persistence
  - 2.7.3.3. Clinical Presentation
  - 2.7.3.4. Diagnosis
  - 2.7.3.5. Treatment
  - 2.7.3.6. Post-operative Considerations
- 2.8. Intestinal Volvulus Intussusception Intestinal Malrotation Omentum Torsion
  - 2.8.1. Intestinal Volvulus
    - 2.8.1.1. Epidemiology
    - 2.8.1.2. Clinical Presentation
    - 2.8.1.3. Diagnosis
    - 2.8.1.4. Treatment
  - 2.8.2. Bowel Intussusception
    - 2.8.2.1. Epidemiology
    - 2.8.2.2. Clinical Presentation
    - 2.8.2.3. Diagnosis
    - 2.8.2.4. Treatment
  - 2.8.3. Intestinal Malrotation
    - 2.8.3.1. Epidemiology
    - 2.8.3.2. Clinical Presentation
    - 2.8.3.3. Diagnosis
    - 2.8.3.4. Treatment
  - 2.8.4. Omentum Torsion
    - 2.8.4.1. Epidemiology
    - 2.8.4.2. Clinical Presentation
    - 2.8.4.3. Diagnosis
    - 2.8.4.4. Treatment
- 2.9. Cecal Appendix Pathology Acute Appendicitis, Appendiceal plastron, Carcinoid Tumor Mucocele
  - 2.9.1. Appendix Anatomy
  - 2.9.2. Acute Appendicitis
    - 2.9.2.1. Pathophysiology and Epidemiology
    - 2.9.2.2. Clinical Characteristics
    - 2.9.2.3. Diagnosis
    - 2.9.2.4. Differential Diagnosis
    - 2.9.2.5. Treatment
    - 2.9.2.6. Complications
  - 2.9.3. Carcinoid Tumor
    - 2.9.3.1. Epidemiology
    - 2.9.3.2. Clinical Presentation
    - 2.9.3.3. Diagnosis
    - 2.9.3.4. Treatment
    - 2.9.3.1. Post-operative Considerations
  - 2.9.4. Appendicular Mucocele
    - 2.9.4.1. Epidemiology
    - 2.9.4.2. Clinical Presentation
    - 2.9.4.3. Diagnosis
    - 2.9.4.4. Treatment
    - 2.9.4.5. Post-operative Considerations
- 2.10. Current Status of the Pediatric Abdominal Laparoscopy Digestive Laparoscopy Laparoscopic Techniques in Surgery
  - 2.10.1. Laparoscopic Procedures on Children
    - 2.10.1.1. Abdominal Access
    - 2.10.1.2. Devices and Instruments
  - 2.10.2. Ergonomics in Pediatric Abdominal Laparoscopy
  - 2.10.3. Advances in Pediatric Laparoscopy

### Module 3. General and Digestive Pediatric Surgery II

- 3.1. Pediatric Chronic Inflammatory Bowel Disease
  - 3.1.1. Ulcerative Colitis
    - 3.1.1.1. Epidemiology
    - 3.1.1.2. Etiology
    - 3.1.1.3. Pathological Anatomy
    - 3.1.1.4. Clinical Presentation
    - 3.1.1.5. Diagnosis
    - 3.1.1.6. Medical Treatment
    - 3.1.1.7. Surgical Management
  - 3.1.2. Crohn's Disease
    - 3.1.2.1. Etiology
    - 3.1.2.2. Pathologic Anatomy
    - 3.1.2.3. Clinical Presentation
    - 3.1.2.4. Diagnosis
    - 3.1.2.5. Medical Treatment
    - 3.1.2.6. Surgical Management
  - 3.1.3. Indeterminate Colitis
- 3.2. Short Bowel Syndrome
  - 3.2.1. Causes of Short Bowel Syndrome
  - 3.2.2. Initial Determinants of Intestinal Function
  - 3.2.3. Intestinal Adaptation Process
  - 3.2.4. Clinical Manifestations
  - 3.2.5. Initial Management of the Patient with Short Bowel Syndrome
  - 3.2.6. Autologous Surgical Reconstruction Techniques
- 3.3. Intestinal and Multi-organ Transplant
  - 3.3.1. Intestinal Rehabilitation
  - 3.3.2. Transplant Indications
  - 3.3.3. Surgical Considerations and Transplant Intervention
  - 3.3.4. Immediate Postoperative Complications





- 3.4. Anorectal Atresia and Cloacal Malformations
  - 3.4.1. Anorectal Atresia
    - 3.4.1.1. Embryological Recall
    - 3.4.1.2. Classification
    - 3.4.1.3. Diagnostic Tests
    - 3.4.1.4. Treatment
    - 3.4.1.5. Post-Operative Care
  - 3.4.2. Sewer
    - 3.4.2.1. Embryological Recall
    - 3.4.2.2. Classification
    - 3.4.2.3. Diagnostic Tests
    - 3.4.2.4. Treatment
- 3.5. Hirschsprung's Disease Intestinal Neural Dysplasias and Other Causes of Megacolon Acquired Anorectal Pathology
  - 3.5.1. Hirschsprung's Disease
    - 3.5.1.1. Etiology
    - 3.5.1.2. Clinical Symptoms
    - 3.5.1.3. Diagnosis. Differential Diagnosis
      - 3.5.1.3.1. Abdominal X-ray
      - 3.5.1.3.2. Opaque enema
      - 3.5.1.3.3. Anorectal Manometry
      - 3.5.1.3.4. Rectal Suction Biopsy
    - 3.5.1.4. Physical Examination
    - 3.5.1.5. Treatment
    - 3.5.1.6. Post-surgical Evolution
  - 3.5.2. Intestinal Neural Dysplasias and Other Causes of Megacolon
  - 3.5.3. Acquired Anorectal Pathology
    - 3.5.3.1. Anal Fissure
    - 3.5.3.2. Clinical Symptoms
    - 3.5.3.3. Diagnosis
    - 3.5.3.4. Treatment
  - 3.5.4. Perianal Abscesses and Fistulas
    - 3.5.4.1. Clinical Symptoms
    - 3.5.4.2. Treatment

- 3.6. Digestive Functional Tests Anorectal Manometry New Therapies for Study and Treatment of Incontinence and Constipation
  - 3.6.1. Anorectal Manometry
    - 3.6.1.1. Normal Values
    - 3.6.1.2. Anal Inhibitory Reflex
    - 3.6.1.3. Pressure Gradient of the Anal Canal
    - 3.6.1.4. Rectal Tenderness
    - 3.6.1.5. Voluntary Contraction
    - 3.6.1.6. Defecation Maneuver
  - 3.6.2. Biofeedback
    - 3.6.2.1. Indications
    - 3.6.2.2. Techniques
    - 3.6.2.3. Initial Findings
  - 3.6.3. Posterior Tibial Nerve Stimulation
    - 3.6.3.1. Indications
    - 3.6.3.2. Technique
    - 3.6.3.3. Initial Findings
- 3.7. Splenic and Pancreatic Pathology. Portal Hypertension
  - 3.7.1. Objectives
  - 3.7.2. Splenic Pathology
    - 3.7.2.1. Anatomy
    - 3.7.2.2. Surgical Indication
      - 3.7.2.2.1. Hematologic Pathology
      - 3.7.2.2.2. Splenic Lesions
    - 3.7.2.3. Pre-operative Considerations
    - 3.7.2.4. Surgical Techniques
    - 3.7.2.5. Post-operative Considerations
    - 3.7.2.6. Complications
  - 3.7.3. Pancreatic Pathology
    - 3.7.3.1. Anatomy
    - 3.7.3.2. Surgical Indication
      - 3.7.3.2.1. Congenital Hyperinsulinism
      - 3.7.3.2.2. Pancreatic Pseudocyst
      - 3.7.3.2.3. Pancreatic Tumors
    - 3.7.3.3. Surgical Techniques
    - 3.7.3.4. Complications
  - 3.7.4. Portal Hypertension
    - 3.7.4.1. Portal Hypertension Types
    - 3.7.4.2. Diagnosis
    - 3.7.4.3. Clinical Symptoms
    - 3.7.4.4. Therapy Options
    - 3.7.4.5. Surgical Techniques
    - 3.7.4.6. Prognosis
- 3.8. Hepatobiliary Pathology I. Biliary Tract Atresia. Cholestatic Liver Diseases
  - 3.8.1. Objectives
  - 3.8.2. Causes of Jaundice and Cholestasis in Infants
    - 3.8.2.1. Limy Bile Syndrom
    - 3.8.2.2. Alagille's Syndrome
  - 3.8.3. Biliary Tract Atresia
    - 3.8.3.1. Epidemiology
    - 3.8.3.2. Etiopathogenesis
    - 3.8.3.3. Classification
    - 3.8.3.4. Clinical Presentation
    - 3.8.3.5. Diagnosis. Histopathology
    - 3.8.3.6. Kasai Portoenterostomy
    - 3.8.3.7. Post-operative Considerations
    - 3.8.3.8. Medical Treatment. Adjuvant Therapy
    - 3.8.3.9. Complications
    - 3.8.3.10. Prognosis and Results
    - 3.8.3.11. News and Current Interest



- 3.9. Hepatobiliary Pathology II. Choledochal Cyst Pancreatobiliary Malunion Biliary Lithiasis
  - 3.9.1. Objectives
  - 3.9.2. Choledochal Cyst
    - 3.9.2.1. Classification
    - 3.9.2.2. Clinical Presentation
    - 3.9.2.3. Diagnosis
    - 3.9.2.4. Management and Surgical Techniques
    - 3.9.2.5. Complications
    - 3.9.2.6. Special considerations
    - 3.9.2.7. Caroli's Disease and Choledochoceles
    - 3.9.2.8. Prognosis and Long-Term Results
  - 3.9.3. Pancreatobiliary Malunion
  - 3.9.4. Biliary Lithiasis
    - 3.9.4.1. Stone Types
    - 3.9.4.2. Diagnostic Tests
    - 3.9.4.3. Asymptomatic Cholelithiasis
    - 3.9.4.4. Symptomatic Cholelithiasis
    - 3.9.4.5. Surgical Anatomy
    - 3.9.4.6. Surgical Techniques
- 3.10. Pediatric Liver Transplant Current State
  - 3.10.1. Transplant Indications
  - 3.10.2. Contraindications
  - 3.10.3. Donor Considerations
  - 3.10.4. Preoperative preparation
  - 3.10.5. Transplant Procedure
  - 3.10.6. Immunosuppressive Treatment
  - 3.10.7. Immediate Postoperative Complications
  - 3.10.8. Transplant Evolution

# 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. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, 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 Digestive Surgery guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.







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*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 Diploma in Pediatric Digestive 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.

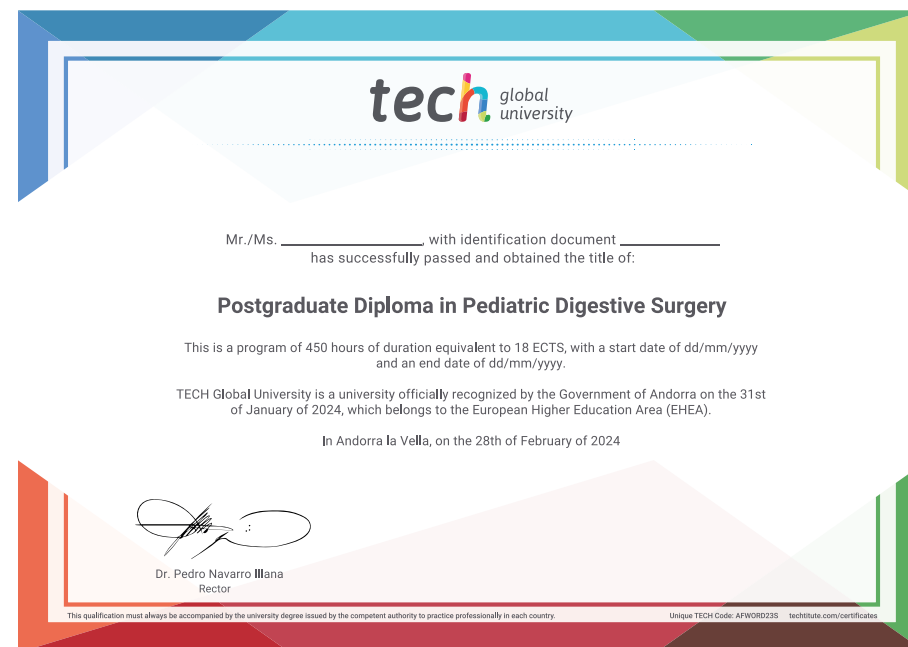
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Pediatric Digestive Surgery**

Modality: **online**

Duration: **6 months**

Accreditation: **18 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.

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



**Postgraduate Diploma**  
Pediatric Digestive  
Surgery

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

# Postgraduate Diploma Pediatric Digestive Surgery

