

# Internship Program Pediatric Emergencies



tech



**tech**

Internship Program  
Pediatric Emergencies

# Index

01

Introduction

---

*p. 4*

02

Why Study an Internship Program?

---

*p. 6*

03

Objectives

---

*p. 8*

04

Educational Plan

---

*p. 10*

05

Where Can I Do the Internship Program?

---

*p. 12*

06

General Conditions

---

*p. 16*

07

Certificate

---

*p. 18*

# 01 Introduction

For the medical professional it is of utmost importance to know the systematized action plans that must be developed in cases of emergencies that occur in child patients. Acquiring this knowledge in a practical way is the most efficient way to achieve it, acquiring the necessary agility and accuracy in decision making essential in this area of work. To do this, working with a multidisciplinary team in a hospital equipped with the most advanced protocols, techniques and technologies of the moment, is the most intensive, direct and efficient way to integrate knowledge and grow in real practical capacity. For this reason, TECH has designed this academic space 100% practical in situ, where the professional will be able to act in a specialized way with real patients and together with a multidisciplinary team that will accompany them throughout 3 weeks in a clinical center of their choice.



*Incorporate into your daily clinical practice the most advanced approach methods to treat pediatric patients in the Emergency Department with this 100% practical program"*





Like other medical specialties and subspecialties, pediatric emergencies have reached a development of very high specialization in recent years. Physicians working in pediatric emergency care services must be able to provide comprehensive initial care to pediatric patients, increasingly accurate and safe.

For this reason knowledge must be constantly updated through programs aimed at reinforcing their functions, both in recognizing and initially resolving the emergency, and in focusing, orienting and correctly directing situations in the face of pathologies that can be urgent.

The update of the pediatric emergency department physician should include the updating of diagnostic and therapeutic techniques as airway management, peripheral and central line approach or immobilization of trauma and burn patients, to ensure rapid and safe care in all pediatric ages. In addition, it should include organizational aspects of pediatric emergency services and the provision of personnel and material, with emphasis on their differential characteristics.

This Internship Program offers physicians the possibility to undergo an updated Practical Training on Pediatric Emergencies, establishing the keys for the care of critically ill patients and the approach to the different diagnostic and treatment techniques for emergency care in the pediatric age group.

In this way, after 3 weeks, you will be able to respond adequately to the evolution of scientific and technological knowledge, and to the evolution of your field of action in the different health systems, through adequate specialization.

# 02

## Why Study an Internship Program?

Constant and quality updating is essential for the medical specialist, regardless of the area they work in. Therefore, TECH in its interest to offer a wide range of programs of interest to professionals and useful for both society and the current labor market has designed this academic space of 100% practical character where the professional will share a series of activities in an avant-garde environment and reference for the care of patients in the area of Pediatric Emergencies. These will be related to common pediatric and neonatal advanced cardiovascular support or different special situations that arise in the emergency area with pediatric patients. In this way, you will incorporate the latest findings of the sector to perfect your technique and professional profile.



*This exclusive TECH program opens the doors to the most reputable hospital centers in different locations around the world"*

### 1. Updating from the Latest Technology Available

In order to effectively care for pediatric patients in the emergency department of a hospital center, new approaches and updated techniques must be used to be even more efficient. Mastering the resources and equipment currently available in specialized clinical centers is essential to expand talent and demonstrate human and professional capabilities in the most unlikely cases that may arise.

### 2. Gaining In-depth Knowledge from the Experience of Top Specialists

By taking this program, the professional will be in contact with the most specialized human team in the health area. They will also have a designated tutor who will show them the entire process and provide them with the necessary support. Therefore, you will see and attend real patients in a complex context in the Pediatric Emergency area, incorporating in your daily practice the most effective procedures and approaches currently implemented.

### 3. Entering First-Class Clinical Environments

In order to guarantee access to a prestigious clinical environment where you will be able to experience the day-to-day work of a quality area, always applying the latest scientific evidence in its work methodology, TECH has chosen the best hospitals. In this way, the specialist will put into practice the knowledge regarding Pediatric Emergencies in a specific and updated way.



#### **4. Putting the Acquired Knowledge into Daily Practice from the Very First Moment**

This innovative program, updated according to the latest scientific evidence on advances in Pediatric Emergency Medicine, offers the professional a 100% practical academic space, which will allow him/her to be in charge of procedures with state-of-the-art equipment, taking it to the professional practice during 3 weeks in a specialized center in a national or international environment.

#### **5. Expanding the Boundaries of Knowledge**

Fulfilling the goal of educating millions of professionals around the world regardless of geographical boundaries, TECH continues to innovate with this cutting-edge 100% practical program. To this end, it has established agreements with hospitals in different locations where the specialist will be able to expand its borders and get up to date on the approach to Pediatric Emergencies, with the best experts practicing in prestigious clinical settings.



*You will have full practical immersion at the center of your choice"*

# 03 Objectives

The general objective of this program is to ensure that the professional updates the diagnostic and therapeutic procedures in an exclusively practical way, through a hospital internship designed with clinical and educational rigor, under the guidance of renowned professionals in a hospital center of the highest scientific quality and technological innovation.



## General Objectives

---

- ♦ Provide emergency care to improve the child's prognosis and family care
- ♦ Master the latest techniques, modern scientific postulates and application of cutting-edge technologies in Pediatric Emergencies
- ♦ Develop advanced procedures in pediatric patients attending the Clinical Emergency Department





## Specific Objectives

---

- ♦ Identify the different elements of the equipment in the pediatric emergency department
- ♦ Identify the signs and symptoms of the main apparently lethal syndromes and recognize critically ill children
- ♦ Update the latest recommendations for the performance of basic and advanced cardiopulmonary resuscitation maneuvers and complete upper airway clearance of a foreign body
- ♦ Review the different routes of drug administration and their indication in each case
- ♦ Establish Capnography and Pulse Oximetry procedures, and review indications for oxygen therapy in pediatric patients according to the latest scientific evidence
- ♦ Identify the main aspects of pediatric airway establishment, rapid intubation sequence, difficult airway and new facilitator devices
- ♦ Establish the phases, characteristics and development of the sedoanalgesia procedure
- ♦ Incorporate intraosseous puncture as a frequently used technique in pediatric emergency departments
- ♦ Review the protocols for dealing with infant deaths
- ♦ Describe the main signs and symptoms of cardiac pathologies, arrhythmias, syncope, heart failure and congenital heart disease
- ♦ Incorporate frequently used techniques in the diagnosis and treatment of cardiac pathologies, such as rapid ECG reading, electrical cardioversion for the management of tachyarrhythmias and cardiac defibrillation
- ♦ Describe the procedures for the management of asthmatic children and chronic cough, and the different diagnostic and therapeutic techniques such as airway aspiration, thoracentesis and placement of the pleural tube, forced spirometry and bronchodynamic test
- ♦ Incorporate into medical practice the priorities of evaluation and treatment of the traumatized child and the characteristics of pediatric patients
- ♦ Analyze the specific action protocols by age for pediatric patients with a fever
- ♦ Establish the correlation between the different types of brain damage and their clinical manifestations
- ♦ Learn about the protocol for the care of abused children
- ♦ Increase the ability to manage the acutely intoxicated child or adolescent
- ♦ Determine the management procedures for children with anaphylactic reactions and their severity, clinical manifestations and diagnostic procedures
- ♦ Describe the main signs and symptoms of pathologies of neurological etiology in children
- ♦ Review procedures for lumbar puncture and ventriculoperitoneal shunt puncture techniques
- ♦ Determine the latest developments in the management of celiac disease in children and other pathologies

# 04

## Educational Plan

The Internship Program in Pediatric Emergencies consists of a practical stay of 3 weeks duration, from Monday to Friday with 8 consecutive hours of practical learning at the side of an attending specialist. This stay will allow you to see real patients alongside a team of leading specialists in the area of Pediatric Emergencies, applying the most innovative diagnostic procedures and planning the latest generation of therapy for each pathology.

In this program proposal, completely practical in nature, the activities are aimed at developing and perfecting the skills necessary for the provision of healthcare in areas and conditions that require a high level of qualification, and which are oriented to the specific specialization for the exercise of the activity, in a safe environment for the patient and a high professional performance.

It is undoubtedly an opportunity to learn by working in the innovative hospital of the future, where real-time health monitoring of patients is at the center of the digital culture of its professionals. This is a new way of understanding and integrating health processes, and makes this program a unique experience for the achievement of new professional and personal goals.

The practical education will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of teachers and other fellow learners that facilitate teamwork and multidisciplinary integration as transversal competencies for the Clinical Analysis practice (learning to be and learning to relate).

The procedures described below will form the basis of the practical part of the internship, and their implementation is subject to both the suitability of the patients and the availability of the center and its workload, with the proposed activities being as follows:



*Receive specialized education in an institution that can offer you all these possibilities, with an innovative academic program and a human team that will help you develop your full potential"*



Module	Practical Activity
<b>Advanced Support in Pediatric Patients with Cardiac Emergencies</b>	Perform and read echocardiograms and electrocardiograms in children.
	Perform cardiorespiratory resuscitation care of the child in need of pediatric advanced life support
	Participate in vital signs readings in pediatric patients with cardiac emergencies
	Cannulate superficial, deep and intraosseous veins to treat cardiac emergencies
<b>Approach to the Pediatric Patient with Trauma and Osteoarticular Injuries</b>	Apply mobilization and immobilization techniques for the traumatized child, as well as their transfer
	Participate in the management of infections of bones and joints
	Interpret imaging tests in the severely injured child
	Apply the protocols of action indicated in the polytraumatized pediatric patient
	Guide home care techniques
Apply actions for the prevention of child abuse in families	
<b>Invasive Techniques in Critically Ill Pediatric Patients</b>	Cannulation of superficial veins to treat dehydration, as well as deep veins or intraosseous pathways for other applications
	Perform bladder catheterization, lumbar puncture and other emergency medical procedures
	Indicate and participate in the performance of radiological examinations: US, TUS, UCM, UD
	Remove foreign bodies in accessible orifices
<b>Attention of Special Situations in Pediatric Emergencies</b>	Administer medications in pediatric age
	Practice emergency psychiatry and recognize child abuse
	Indicate and assess respiratory clinical manifestations. Signs and Symptoms Severity Scales Oxygenation indices
	Perform clinical neurological examination in the emergency department and in the critically ill child
	Attend acute abdominal pain. Participate in the management of pediatric digestive endoscopy and other necessary tests
	Assess and deal with Endocrine-Metabolic Emergencies and apply specific treatment and care plans
	Diagnose and treat bacterial and viral infections in pediatrics
	Manage ophthalmologic emergencies and perform ocular and nasal lavage, ocular occlusion and others

# 05 Where Can I Do the Internship Program?

In its maxim of offering quality education within the reach of most people, TECH has decided to broaden the academic horizons so that this program can be taught in various centers around the country and internationally. A unique opportunity that allows the professional to continue to grow their career alongside the best specialists in the sector in various reference clinics.



*TECH puts at your disposal the most specialized clinical centers to update your daily clinical practice in Pediatric Emergencies"*





The student will be able to do this program at the following centers:



Medicine

### Hospital HM Modelo

Country	City
Spain	La Coruña

Address: Rúa Virrey Osorio, 30, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Spine Surgery



Medicine

### Hospital Maternidad HM Belén

Country	City
Spain	La Coruña

Address: R. Filantropía, 3, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Update in Assisted Reproduction
- Hospitals and Health Services Management



Medicine

### Hospital HM San Francisco

Country	City
Spain	León

Address: C. Marqueses de San Isidro, 11, 24004, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Nursing in the Traumatology Department



Medicine

### Hospital HM Regla

Country	City
Spain	León

Address: Calle Cardenal Landázuri, 2, 24003, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Psychiatric Treatments Update in Minor Patients



Medicine

### Hospital HM Nou Delfos

Country	City
Spain	Barcelona

Address: Avinguda de Vallcarca, 151, 08023, Barcelona

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Aesthetic Medicine
- Clinical Nutrition in Medicine



Medicine

### Hospital HM Madrid

Country	City
Spain	Madrid

Address: Pl. del Conde del Valle de Súchil, 16, 28015, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Clinical Analysis
- Anaesthesiology and Resuscitation



Medicine

### Hospital HM Montepíncipe

Country	City
Spain	Madrid

Address: Av. de Montepíncipe, 25, 28660, Boadilla del Monte, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Child Orthopedics
- Aesthetic Medicine



Medicine

### Hospital HM Torrelodones

Country	City
Spain	Madrid

Address: Av. Castillo Olivares, s/n, 28250, Torrelodones, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Hospital Pediatrics



Medicine

### Hospital HM Sanchinarro

Country	City
Spain	Madrid

Address: Calle de Oña, 10, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Sleep Medicine



Medicine

### Hospital HM Puerta del Sur

Country	City
Spain	Madrid

Address: Av. Carlos V, 70, 28938, Móstoles, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Pediatric Emergencies
- Clinical Ophthalmology



Medicine

### Hospital HM Vallés

Country	City
Spain	Madrid

Address: Calle Santiago, 14, 28801, Alcalá de Henares, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Gynecologic Oncology
- Clinical Ophthalmology





### Instituto Médico Agüero

Country: Argentina  
City: Buenos Aires

Address: Azul 1831, B1708 Morón, Provincia de Buenos Aires, Argentina

Multidisciplinary Medical Institute with more than 35 years of experience.

**Related internship programs:**  
Pediatric Emergencies



### Sanatorios de la Trinidad

Country: Argentina  
City: Buenos Aires

Address: Av. Rivadavia 13280, Ramos Mejía, Provincia de Buenos Aires, Argentina

Health consortium of integrated clinics

**Related internship programs:**  
Pediatric Emergencies

# 06

## General Conditions

### Civil Liability Insurance

This institution's main concern is to guarantee the safety of the learners and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical learning period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.



## General Conditions of the Internship Program

The general terms and conditions of the internship agreement for the program are as follows:

**1. TUTOR:** During the Internship Program, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor, whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic

**2. DURATION:** The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements

**3. ABSENCE:** If the students does not show up on the start date of the Internship Program, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor

**4. CERTIFICATION:** Professionals who pass the Internship Program will receive a certificate accrediting their stay at the center

**5. EMPLOYMENT RELATIONSHIP:** The Internship Program shall not constitute an employment relationship of any kind

**6. PRIOR EDUCATION:** Some centers may require a certificate of prior education for the Internship Program. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed

**7. DOES NOT INCLUDE:** The Internship Program will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case

# 07 Certificate

This **Internship Program in Pediatric Emergencies** contains the most complete and up-to-date program on the professional and academic scene.

After the student has passed the assessments, they will receive their corresponding Internship Program certificate issued by TECH Technological University via tracked delivery\*.

The diploma issued by TECH will reflect the grade obtained in the test.

Title: **Internship Program in Pediatric Emergencies**

Duration: **3 weeks**

Attendance: **Monday to Friday, 8-hour consecutive shifts**

Total Hours: **120 h. of professional practice**



**tech**

Internship Program  
Pediatric Emergencies

# Internship Program Pediatric Emergencies



tech