

Internship Program Hospital Pediatrics



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Internship Program
Hospital Pediatrics

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

In recent years, Hospital Pediatrics have evolved thanks to the development of numerous clinical trials and the application of new technologies. As a result, there have been procedures and clinical devices that are more focused on the anatomy of children and adolescents. Therefore, pediatricians must stay up-to-date continuously on all these advancements. With TECH, specialists will receive highly practical training on all these aspects through a 3-week intensive and immersive in-person program. In this learning modality, professionals will be placed in a prestigious health institution where they will have access to the best health resources and a team of highly experienced experts with extensive backgrounds in this medical discipline.



Up to date your practical skills according to the latest scientific criteria for specialized care of hospitalized pediatric patients”





Over the last few decades, medical sciences have focused their attention on seeking specific healthcare procedures for children and adolescents in a hospital environment. An example of this is the ongoing research into the effectiveness or contraindications of certain medicine administration routes. Based on these analyses, therapeutic algorithms have been updated, providing valuable recommendations on the use of intramuscular, rectal, or oral drugs.

Additionally, new health technologies are better adapted to pediatric anatomy, offering more personalized and precise ultrasound tools. To manage all these devices and treatment protocols, the physician must possess exceptional training. However, most educational programs in this regard have a heavy theoretical load and overlook the essential development of practical skills.

To address these deficiencies, TECH has designed an innovative academic approach. This certificate is 100% in-person and immersive. In it, the doctor will spend 3 weeks at a prestigious international health institution equipped with state-of-the-art technological resources. From there, the professional will gain holistic mastery over their use and implement the most innovative action protocols in the field of Hospital Pediatric.

Furthermore, they will maintain a direct working relationship with leading experts in the health discipline. Alongside them, they will analyze real cases with various pathologies and actively participate in the process to choose the best therapeutic protocol to follow. The specialist will also be supported by an adjunct tutor of prestige and extensive clinical capabilities. This academic figure will help them meet educational objectives by introducing new activities and up-to-date dynamics throughout the Internship Program period. Upon completing this intensive program, the graduate will be ready to practice a quality praxis, adjusted to the latest criteria and innovations in this health field.

02

Why Study an Internship Program?

With scientific and technological advancements, the approach to pediatric health issues has evolved considerably, giving rise to new diagnostic and treatment algorithms. In order to keep specialists up to date on these developments in a practical and intensive manner, TECH provides this innovative study program. In this program, the doctor will spend 3 weeks at a prestigious health institution equipped with the most modern technological resources to excel in this specialty. They will also have the guidance of leading experts and personalized support from a renowned adjunct tutor.



With TECH, you will explore the latest criteria regarding rapid sequence intubation, advanced pediatric cardiopulmonary resuscitation, and action protocols in the event of convulsive status”

1. Updating from the Latest Technology Available

In recent years, Hospital Pediatric has benefited from the evolution of medical technologies for addressing pediatric patients with different pathologies that require hospitalization or intensive care. To stay up to date on these criteria, specialists require programs that are much more focused on the practical management of these devices and their work protocols. TECH provides this knowledge in a presence-based, intensive, and immersive manner through this excellent Internship Program.

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

Throughout this program, doctors will receive guidance from prestigious experts. With them, they will analyze and discuss the most up-to-date protocols for managing pediatric patients with various pathologies. Additionally, the specialist will have the support of an adjunct tutor who will oversee their progress and incorporate new tasks of varying complexity into the updating process.

3. Entering First-Class Clinical Environments

Following a meticulous selection process, TECH has confirmed the inclusion of centers with the highest prestige and modern medical technologies for this Internship Program. The expertise of each center's staff has also played a significant role in the selection process. In this way, it will be easier to ensure that the specialist develops new competencies in the most advanced clinical environments.



4. Putting the acquired knowledge into daily practice from the very first moment

In the academic market, where programs with a heavy theoretical load are prevalent, TECH's Internship Program represents a powerful alternative. In this academic format, doctors will have access from the very beginning to a top-level hospital environment where they will put into practice the latest procedures for real patient care using state-of-the-art medical technology.

5. Expanding the Boundaries of Knowledge

TECH wants to up to date its graduates based on international criteria in Hospital Pediatric with the greatest latency. Therefore, it has coordinated this Internship Program in centers located in different geographic regions. This way, the specialist can choose the institution that best suits their location and personal growth interests.



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

03

Objectives

The objective of this program is for the specialist to achieve a holistic update of their practical skills for the hospital management of pediatric patients with different pathologies. This intensive and immersive in-person academic modality is ideal because it provides doctors with knowledge directly through the on-site analysis of real cases.



General Objectives

- Master the latest techniques and knowledge in modern hospital pediatrics
- Become highly fluent in pediatric patient management, ensuring maximum quality and safety during the process
- Develop exemplary skills to provide high quality care, ensuring patient safety and always up-to-date with the latest scientific evidence
- Obtain an update in the medical field of Hospital Pediatrics



Specific Objectives

- Delve into the different hospital practices regarding initial child management in life-threatening situations due to acute hemodynamic, respiratory and/or neurological involvement
- Dominate the rapid intubation sequence and advanced cardiopulmonary resuscitation in children according to the latest ILCOR 2021 recommendations and the algorithm of action in case of convulsive status
- Practical diagnosis and therapy management for children disconnected from the environment
- Examine the allergic reactions and anaphylaxis, oxygen therapy, fluid therapy, ECG, analgesia and sedation, and an introduction to thoracic ultrasound
- Analyze the most frequent infectious pathologies through new algorithms and protocols, as well as traveler and immigrant infections and new emerging viruses
- Assess chronic respiratory pathologies of frequent hospitalization such as bronchopulmonary dysplasia, interstitial lung disease, cystic fibrosis, patients with neuromuscular pathology
- Exhibit the latest diagnosis and monitoring procedures and new therapies
- Delve into clinical cases and different algorithms in the diagnosis, management and up-to-date therapeutic measures of different pathologies, some very frequent such as abdominal pain and gastroesophageal reflux, and other emerging ones such as eosinophilic esophagitis and biliary lithiasis
- Up to date knowledge about inflammatory bowel disease and hepatic dysfunction, which require a high diagnostic suspicion, since they can cause, if detection is delayed, important complications causing a deterioration in the quality of life of these patients

- ♦ Develop the diagnostic approach and practical aspects of antiepileptic drugs, as well as the diagnostic approach to hypotonic infant and the most frequent processes such as headache, or acute conditions such as ataxia, pediatric stroke, or demyelinating diseases, among others
 - ♦ Discover new diagnostic modalities in pediatric cardiology: strain echocardiography, transesophageal echocardiography, among others
 - ♦ Apply a differential diagnosis approach to suspected cardiac pathology in newborns and the keys to early diagnosis and initial stabilization treatment
 - ♦ Up to date practical skills related to the clinical approach to heart disease given current regulations, as well as cardiac flow obstruction pictures, the key ideas behind arrhythmias detection, pathologies acquired in childhood, and suspected heart failure in infants and children and new challenges
 - ♦ Delve into nutritional assessment and the most frequent alterations observed during hospitalization, early diagnosis and therapeutic lines
 - ♦ Adopt a critical attitude toward new trends in diet and the possible deficiencies they can generate
 - ♦ Provide an overview of the most frequent pathologies found in hospital admissions through clinical cases, delving in hematuria-proteinuria, nephrotic syndrome and acute renal damage, arterial hypertension and renal lithiasis, which are becoming more and more common
 - ♦ Bring new diagnostic and therapeutic algorithms to the nephrological area
- ♦ Approach oncologic emergencies and the differential diagnosis of adenomegaly, hepatosplenomegaly and macrophage activity syndrome
 - ♦ Know the indications for transfusions and anticoagulation
 - ♦ Interpret skin lesions and apparent lethal episodes
 - ♦ Manage pediatric intensive care, palliative care, maltreatment and sexual abuse
 - ♦ Master standard procedures and new technologies
 - ♦ Implement mental health care and pediatric patient safety in the pediatric hospital environment



This Internship Program is all you need to incorporate the use of modern pediatric monitoring equipment into your daily practice in the hospital setting”

04

Educational Plan

This TECH Internship Program dedicates 3 weeks to intensive and immersive in-person updates for physicians who already have experience in Hospital Pediatric. During this program, specialists will enhance their skills in a health facility equipped with the latest technologies and where the most innovative procedures for the intensive care of children and adolescents are applied.

In this completely practical Internship Program, the activities are aimed at developing and perfecting the skills necessary to provide healthcare in areas and conditions that require highly qualified professionals, and are oriented towards specific expertise for practicing the activity, in a safe environment for the patient and a high level of professional performance.

Furthermore, during this practical learning process, health professionals will work closely with experts who have a proven track record in this field. This allows them to engage in first person discussions about the management of real cases based on the latest scientific evidence. Additionally, an assigned tutor will oversee their progress and provide the graduate with a personalized guide to help them expand their competencies quickly and flexibly.

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 trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for medical praxis (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
New Technologies in the Diagnosis of Pathologies Addressed by Hospital Pediatric	Identify the causes of Encephalitis, Sepsis, or fever without focus in neonates and infants through Lumbar Puncture
	Place pleural drainage tubes using Thoracentesis techniques to obtain air or fluid for diagnostic analysis
	Introduce a needle into the abdominal cavity for Paracentesis, capable of targeting discomforts like chronic Ascites based on clinical deterioration
New strategies in the intrahospital management of pediatric critical patient	Apply different ultrasound techniques to identify different health complications in children and adolescents, including diseases such as Sinusitis and Otitis
	Implement the rapid sequence intubation and advanced cardiopulmonary resuscitation in children, according to the latest updated ILCOR recommendations
	Execute the algorithm of action in the event of convulsive status in children and adolescents
	Perform various continuous monitoring procedures, including Pulse Oximetry and Capnography
Latest Trends in Pediatric Pharmacology	Extract synovial fluid for therapeutic purposes in musculoskeletal pathologies through arthrocentesis
	Reduce inaccuracies in medication prescriptions for the pediatric population through Therapeutic Drug Monitoring
	Prescribe the rectal route of medication administration for pediatric patients who have difficulty absorbing drugs by other route
	Develop therapeutic protocols for intramuscular route, taking into account the advantages and disadvantages of this strategy due to the relatively low blood flow and low muscle mass in younger children
The latest approaches to cardiovascular, respiratory, and neurological diseases in Pediatrics	Consider the changes in intestinal and gastric flora and biliary function caused by specific medications in children before oral administration
	Apply therapeutic techniques for fluid extraction in children with signs of cardiac flow obstruction
	Perform surgical interventions on children or adolescents with clear symptoms and a diagnosis of epileptic pathology
	Use Monoclonal antibodies against the respiratory syncytial virus responsible for Bronchopulmonary Dysplasia, in addition to other combined therapies such as nutritional supplements and fluid restriction, and diuretics

05 Where Can I Do the Internship Program?

TECH aims for all its graduates to have an excellent preparation for the practice of Hospital Pediatric. Therefore, through this pioneering study modality, it offers them the opportunity to participate in an intensive in-person program in a highest level hospital institution. These institutions, located in various locations, are equipped with state-of-the-art medical technologies and have a prestigious team of experts. From these human and material resources, specialists will receive the best internship program in accordance with international standards, keeping them up to date with the latest developments in the health field.



Enroll in this Practical Internship Program and complete 3 weeks of rigorous, intensive, and demanding learning at an internationally renowned hospital center”





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



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 Rosaleda

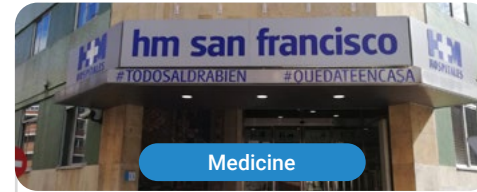
Country	City
Spain	La Coruña

Address: Rúa de Santiago León de Caracas, 1, 15701, Santiago de Compostela, A Coruña

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

Related internship programs:

- Hair Transplantation
- Orthodontics and Dentofacial Orthopedics



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:

- Update on Psychiatric Treatment in Minor Patients



Medicine

Hospital HM Montepríncipe

Country	City
Spain	Madrid

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

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

Related internship programs:

- Palliative Care
- 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
- Palliative Care



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
- Palliative Care



Medicine

Hospital HM Nuevo Belén

Country	City
Spain	Madrid

Address: Calle José Silva, 7, 28043, Madrid

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

Related internship programs:

- General and Digestive System Surgery
- Clinical Nutrition in 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:

- Palliative Care
- 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



Medicine

Policlínico HM Cruz Verde

Country	City
Spain	Madrid

Address: Plaza de la Cruz Verde, 1-3, 28807, Alcalá de Henares, Madrid

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

Related internship programs:

- Advanced Clinical Podiatry
- Optical Technologies and Clinical Optometry



Medicine

Policlínico HM Moraleja

Country	City
Spain	Madrid

Address: P.º de Alcobendas, 10, 28109, Alcobendas, Madrid

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

Related internship programs:

- Rehabilitation Medicine in Acquired Brain Injury Management





Policlínico HM Sanchinarro

Country: Spain City: Madrid

Address: Av. de Manoteras, 10,
28050, Madrid

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

Related internship programs:
-Hospital Pediatrics



Policlínico HM Imi Toledo

Country: Spain City: Toledo

Address: Av. de Irlanda, 21, 45005, Toledo

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

Related internship programs:
- Electrotherapy in Rehabilitation Medicine
- Hair Transplantation

06

General Conditions

Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees 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 training 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 Hospital Pediatrics** contains the most complete and up-to-date program in the professional and academic landscape.

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

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

Title: **Internship Program in Hospital Pediatrics**

Duration: **3 weeks**

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

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



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