

# Internship Program Rehabilitation Medicine in Acquired Brain Injury Management



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Internship Program  
Rehabilitation Medicine  
in Acquired Brain Injury  
Management

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# 01 Introduction

The current era is characterized by great advances in Neuroscience, which provides increasingly better solutions to successfully address Acquired Brain Injury. Thus, rehabilitation medicine is currently experiencing a boom, boosted by the latest discoveries in cellular grafts or magnetic stimulation. Therefore, it is necessary for the professional to be updated in this area, so that they have access to the latest techniques and procedures in the rehabilitation area. Y TECH offers you this program of a practical nature, with which you can spend an intensive stay in a center of recognized prestige in this medical discipline, always accompanied by highly reputed specialists from the clinic itself.



*Enjoy an intensive 3-week stay at a leading medical center and update yourself on the latest clinical procedures to grow professionally"*







The increase in the incidence of Acquired Brain Injury (ABI), especially stroke, and its survival make neurorehabilitation and rehabilitation medicine an indispensable element, since stroke is currently the leading cause of disability in many countries. This, together with the population's awareness of the need for specialized professionals, is leading to an increase in the demand for rehabilitation physicians who are capable of applying the best treatments and approaches to these types of conditions.

Thus, it is essential for the professional to handle the most recent advances in the field, so they need to be updated on the subject to be able to act according to the latest scientific evidence. In this way, you will be able to respond to the many current challenges posed by head injuries and their impact on the brain, infectious processes or strokes.

For this reason, TECH proposes a practical way to update the physician's skills, presenting this program that will allow them to obtain, with real patients and in a hospital setting with state-of-the-art resources, the most innovative procedures in this field. In this way, you will be able to make a complete approach to this type of conditions, with the help of the best specialists, and using the latest techniques based on scientific evidence. Thus, in 3 weeks of intensive training in a prestigious clinical center, you will be able to immediately update yourself in this complex medical discipline.

# 02

## Why Study an Internship Program?

In recent years, Rehabilitation Medicine has integrated numerous transformations in its daily processes. As it is such a complex and changing discipline, it is necessary to obtain an immediate update that allows the professional to be aware of all its advances. However, traditional learning methods are neither dynamic nor effective, since the best way to catch up is through practice. And that is precisely what this program offers: a 3-week practical stay in a center of recognized prestige in this clinical area. In this way, the doctor, always accompanied by the institution's experts, will be able to work in a completely real environment where he/she will be able to come into contact with real cases.



*TECH offers you the opportunity to stay in a clinical center of great reputation in the field of Rehabilitation Medicine and DCA. You won't find another option like this that allows you to upgrade in a 100% real-world environment"*

### 1. Updating from the latest technology available

The area of Rehabilitation Medicine applied in the approach to ACD has not only been radically transformed in recent years, but its technology has been changing, introducing state-of-the-art equipment such as magnetic electrostimulation systems. And this Internship Program integrates this new technology into its program, allowing the professional to be updated using state-of-the-art equipment in this discipline.

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

The physician will be able to benefit from the experience of the renowned professionals who will accompany him/her throughout the internship. For that reason, this is one of the strengths of this program: the intensive stay will not only take place in a completely real environment, but will also be guided at all times by specialists from the institution.

### 3. Entering First-Class Clinical Environments

The centers where the professional can carry out his practical stay have been carefully selected by TECH. In this way, the specialist will have guaranteed access to a prestigious clinical environment in the area of Rehabilitation Medicine. By being able to work intensively for 3 weeks in a real environment, the doctor will gain valuable experience for the rest of his or her career.



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

The approach of this program is radically different from other purely theoretical proposals, which are not very dynamic and therefore totally ineffective. Thus, this TECH program is the opposite, by proposing a 100% practical and real experience, which will prepare the professional to apply all the techniques and procedures acquired and perfected to his or her own professional career.

#### 5. Expanding the Boundaries of Knowledge

TECH offers the possibility of doing this Internship Program, not only in national, but also in international centers. This way, the specialist will be able to expand their frontiers and catch up with the best professionals, who practice in first class centers and in different continents. A unique opportunity that only TECH, the largest online university in the world, could offer.



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



# 03 Objectives

The general objective of the Internship Program in Rehabilitation Medicine in the Approach to Acquired Brain Injury is to ensure that the professional updates the diagnostic and therapeutic procedures of the specialty in an exclusively practical way, through a hospital stay designed with clinical and academic rigor, under the guidance of renowned professionals, in a hospital center of the highest scientific quality and technological innovation. In this practical training, the professional will address the main interventions of the specialist, which will allow them to perfect and improve their skills in the medical care of their patients.



## General Objectives

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- ♦ Master the most recent advances in Rehabilitation Medicine in Acquired Brain Injury Management
- ♦ Handle the most advanced technology in the approach to ACD from Rehabilitation Medicine.
- ♦ Know the most accurate and appropriate approaches for each specific case of ACD.







## Specific Objectives

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- ♦ Identify different symptoms and syndromes according to the area affected by the ABI
- ♦ Differentiate cerebellar symptomatology versus basal ganglia symptomatology
- ♦ Distinguish spasticity from other tone disturbances
- ♦ Recognize apraxia and its implications for the patient and for the therapeutic approach
- ♦ Interpret the radiological findings in a CAT scan
- ♦ Interpret the radiological findings in MRI
- ♦ Plan the therapeutic approach according to the findings of the neurological examination and the Rehabilitation Physician
- ♦ Master the examination techniques for the differential diagnosis of the different neurological signs and symptoms
- ♦ Conduct a review of assessment scales and tests
- ♦ Master the writing of Rehabilitation Medicine reports, as well as the interpretation of medical or other specialists' reports to extract relevant information
- ♦ Recognize the implication of the different cognitive domains injured or intact in movement impairment and what implication they have in the medical approach
- ♦ Learn to identify behavioral disorders secondary to ABI in order to refer them to the competent professional and contemplate them in the overall condition of the patient
- ♦ Recognize respiratory complications and know how to approach them from the Rehabilitation Medicine point of view
- ♦ Revise the neurodevelopment normative in order to identify the prognosis in the rehabilitation from the ABI according to the age of the patient
- ♦ Know the specific approach models of pediatric rehabilitative medicine in ABI
- ♦ Review the neurophysiology of consciousness
- ♦ Assess the degree of altered consciousness
- ♦ Identify the appearance of pain in people with altered consciousness
- ♦ Carry out a review of the possible complications in an attempt to avoid them or alleviate them
- ♦ Know the characteristics specific to geriatric patients with ABI
- ♦ Learn to create a rehabilitation program in conjunction with the rest of the team



*After completing this internship you will master the new therapeutic procedures used in Rehabilitation Medicine in Acquired Brain Injury Management"*

# 04 Educational Plan

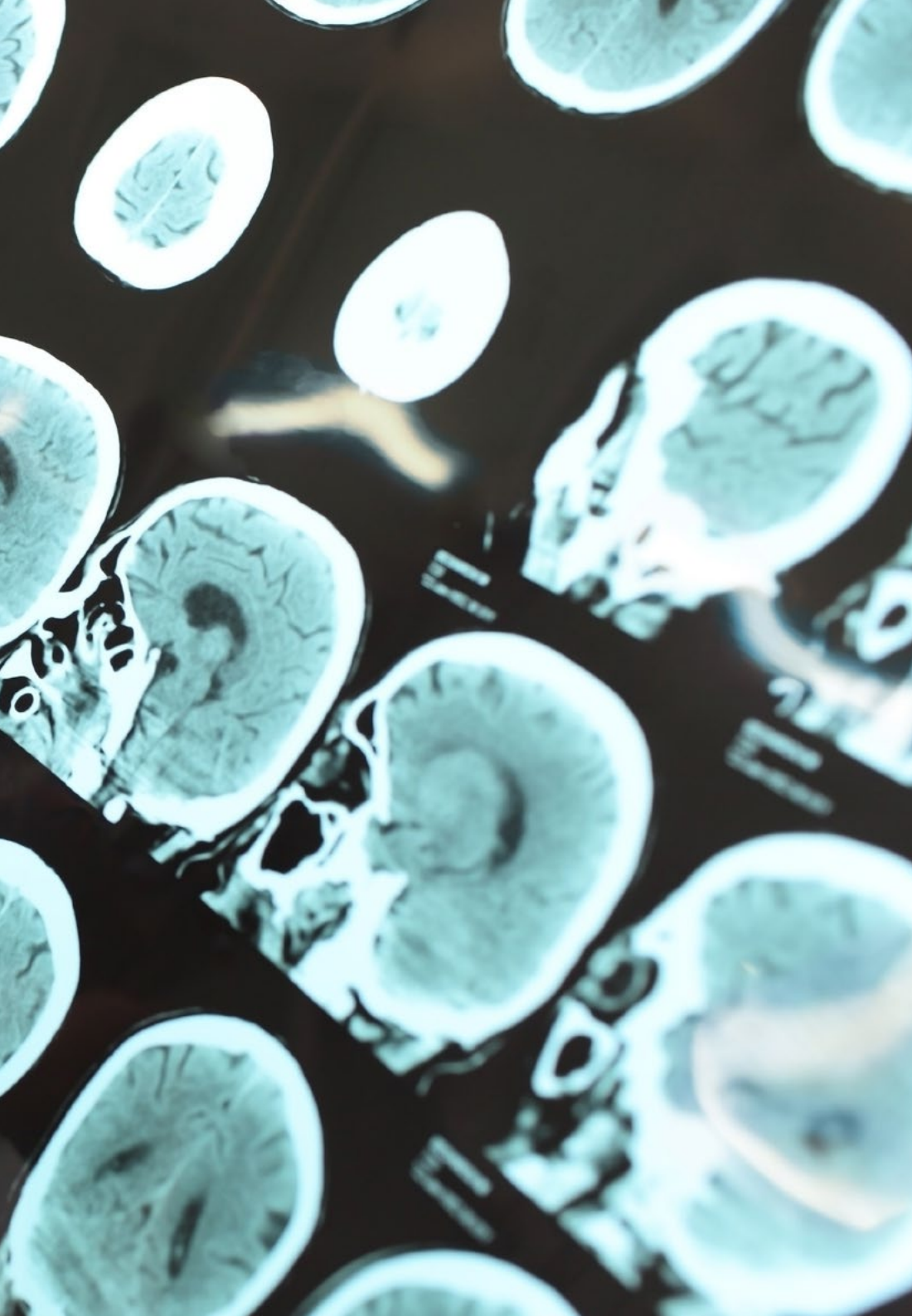
This Internship Program consists of a 3-week stay in a referral hospital center, from Monday to Friday, with 8 consecutive hours of practical training with an attending specialist. This stay will allow you to see real patients alongside a team of professionals of reference in the area of Rehabilitation Medicine in Acquired Brain Injury Management, applying the most innovative diagnostic procedures for each case.

In this training proposal, of a completely practical nature, the activities are aimed at developing and perfecting the competencies necessary for the provision of health care in areas and conditions that require a high level of qualification, and which are oriented towards specific training for the exercise of the activity, in a safe environment for the patient and with high professional performance.

The practical teaching 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 training partners that facilitate teamwork and multidisciplinary integration as transversal competencies for the praxis of Rehabilitation Medicine (learning to be and learning to relate).

The procedures described below will be the basis for the practical part of the training, and their implementation will be subject to the center's own availability and workload, the proposed activities being the following:





Module	Practical Activity
<b>Acquired Brain Injury Diagnosis</b>	Treating patients with ischemia, paying attention to those parts of the brain that are affected
	Receiving patients with TBI, analyzing the contusions and possible appearance of cerebral edema to assess the severity of the damage
	Address brain tumors that may lead to Acquired Brain Damage based on cancer status
	Evaluate the patient's motor control by means of specific techniques of Rehabilitation Medicine
<b>Approach to the problems derived from Acquired Brain Injury</b>	Analyze the possible occurrence of communication difficulties such as aphasia or alexia, as well as speech articulation disorders
	Address hemiplegias and hemiparesis that may result from ACD
	To cover the mental health sphere in the patient with ACD, with special interest in emotional instability, loss of control or depression
	Attend to difficulties arising in the visual capacity such as hemianopsia or diplopia, as well as olfactory difficulties such as hyposmia or auditory difficulties such as fractures of the temporal bone scale
<b>Communication and expectations of the ACD patient</b>	Communicate with the ACD patient by addressing acceptance of the disability as well as ways to find a better quality of life in their home environment
	Advise and orient family members and people affected by ACD on the complications and risks involved
	Work in conjunction with other clinical areas such as physiotherapy or speech therapy in search of a comprehensive recovery
<b>Assessment and intervention techniques in the patient with ACD</b>	Perform and interpret neuroimaging studies
	Perform neurological examination
	Use the assessment scales to later treat the patient in a specific way according to his functional status
	Perform valuation reports
	Treat in acute, subacute and chronic phase in ACD
<b>Addressing complications and DCA in altered states of consciousness</b>	Perform a comprehensive pain assessment
	Recognize and treat associated respiratory complications
	Diagnosing and treating epilepsy
	Recognize and treat musculoskeletal complications, as well as those of spinal cord injury and altered states of consciousness
	Apply the appropriate assessment methods in special cases of ACD, indicating, when necessary, physiotherapy and other multidisciplinary approaches



# 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 training can be given in various prestigious centers in the area of Rehabilitation Medicine. A unique opportunity that allows the professional to continue to grow their career alongside the best specialists in the sector in various reference clinics.



*Take your Internship Program in a prestigious center and put into action everything you have learned from the best professionals in the sector"*





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



Medicine

### ASPAYM Principado de Asturias

Country	City
Spain	Asturias

Address: Av. Roma, 4, 33011 Oviedo, Asturias

National federation dedicated to the physical and mental promotion of patients.

**Related internship programs:**  
Neurological Physiotherapy  
Neurodegenerative Diseases



Medicine

### Hospital Hestia Madrid

Country	City
Spain	Madrid

Address: Carr. Vía de Servicio, km 16, 28049 Madrid

Multidisciplinary clinical center for social-health care

**Related internship programs:**  
- Rehabilitation Medicine in Acquired Brain Injury Management



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  
- Palliative Care



Medicine

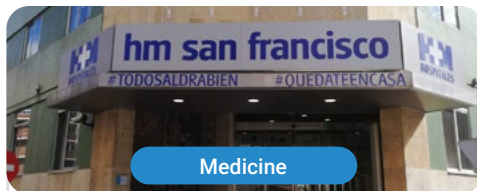
### Hospital Maternidad HM Belén

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  
Trauma Nursing



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 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:**  
- Palliative Care  
- Anaesthesiology and Resuscitation





Medicine

### Hospital HM Torrelodones

Country: Spain  
City: 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: Spain  
City: 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

### Policlínico HM Moraleja

Country: Spain  
City: 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



Medicine

### Policlínico HM Virgen del Val

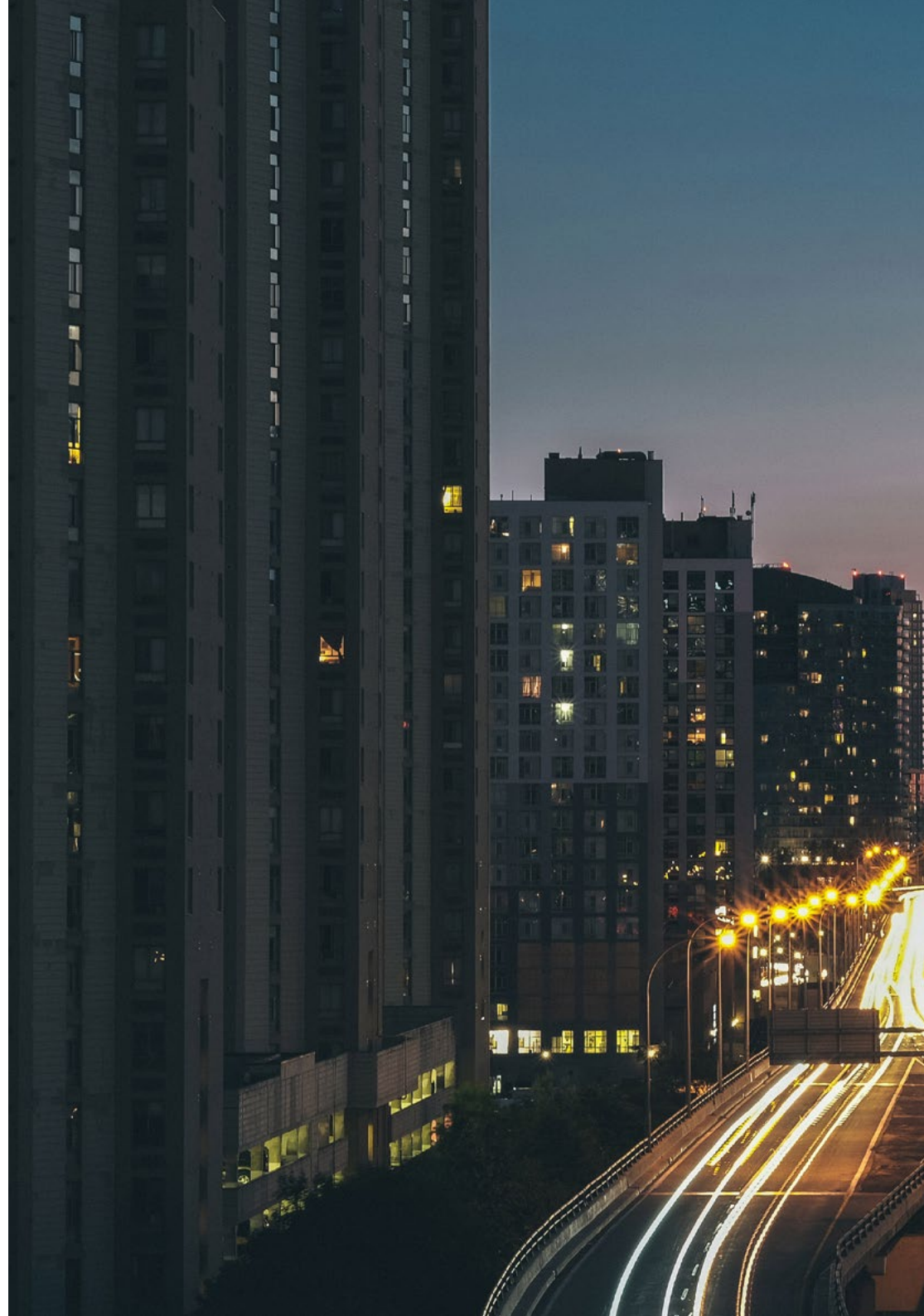
Country: Spain  
City: Madrid

Address: Calle de Zaragoza, 6, 28804, Alcalá de Henares, Madrid

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

**Related internship programs:**

- Diagnosis in Physiotherapy
- Physiotherapy in Early Care







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

### Policlínico HM Las Tablas

Country City  
Spain Madrid

Address: C. de la Sierra de Atapuerca, 5,  
28050, Madrid

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

**Related internship programs:**

- Trauma Nursing
- Diagnosis in Physiotherapy



Medicine

### Policlínico HM Imi Toledo

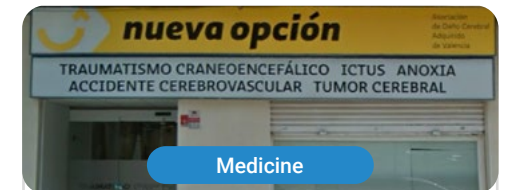
Country City  
Spain Toledo

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



Medicine

### Nueva Opción

Country City  
Spain Valence

Address: Carrer de Greses, 21, bajo,  
46020 Valencia

Association dedicated to the integral treatment of Acquired  
Brain Injury.

**Related internship programs:**

- Physiotherapy in the Approach to Acquired Brain Injury

# 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 educational entity undertakes to take out civil liability insurance to cover any eventuality that may arise during the stay at the internship 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 Rehabilitation Medicine in Acquired Brain Injury Management** 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 diploma issued by TECH will reflect the grade obtained in the test.

Title: **Internship Program in Rehabilitation Medicine in Acquired Brain Injury Management**

Duration: **3 weeks**

Attendance: **Monday to Friday, shifts of 8-hour hours**

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



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Internship Program  
Rehabilitation Medicine  
in Acquired Brain Injury  
Management

# Internship Program Rehabilitation Medicine in Acquired Brain Injury Management

The background of the slide is a composite image. On the right side, there is a close-up of a medical device with several black cables plugged into a panel. On the left side, there is a blurred image of a person lying in a hospital bed, wearing a blue blanket. The overall color scheme is dominated by shades of blue and white, with a diagonal split between the two images.

tech