

# Internship Program

## Infectious Diseases in the Emergency Department



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Internship Program  
Infectious Diseases in the  
Emergency Department

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# 01 Introduction

The appearance of new pharmacological treatments together with the greater scientific evidence existing on numerous Infectious Diseases requires, on the part of the professional, an update of this discipline. In addition, there are other risks such as the generation of microbial resistance derived from the abuse of antibiotics. These dangers are accentuated in the Emergency Department, which requires a rapid response from the specialist. For this reason, TECH has created this program that offers a 100% on-site internship in a prestigious clinical center and with the best specialists in this type of pathology. These internships will allow the physician to develop in a real clinical environment where they will be able to apply the most advanced procedures of this discipline.

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*Incorporate into your daily practice the most relevant advances in diagnostic and therapeutic techniques in Infectious Diseases”*







The global healthcare landscape has undergone a major transformation following the pandemic caused by COVID-19. A before and after that has highlighted the relevance of the medical professionals themselves and the urgent need to be aware of the most effective diagnostic techniques and treatments. All this always taking into account the features of the Infectious Disease and those of the patient themselves.

A reality that has also favored the study of infectious pathologies and the awareness of the importance of research into emerging infectious diseases. A wide range of cases that the emergency professional faces every day.

For this reason, TECH has designed a program that meets the real needs of specialists and takes them for 3 weeks in a first level hospital center in the field of care for patients with different clinical cases related to infectious pathologies.

An ideal environment to be able to update their knowledge with top level professionals, who are part of the health space selected by this institution in a meticulous way. In this way, the physician will have the guarantee of being able to update their skills on Infectious Diseases in the Emergency Department in a demanding professional environment, under the highest scientific rigor and using the latest procedures for the approach of this type of pathologies.

# 02

## Why Study an Internship Program?

In this program, TECH moves away from the pure theoretical framework, to introduce the professional directly into the clinical practice with real patients, where they will be able to check in a first-level hospital center, which are the methods and procedures of study, analysis and treatment of Infectious Diseases in the Emergency Department. With this idea in mind, this institution has designed an academic product that breaks with traditional schemes, in order to provide a direct response to the updating needs of specialists. Therefore, during 3 intensive weeks, they will be integrated in a multidisciplinary work team, where they will be able to observe in situ, the diagnostic and therapeutic techniques used in patients with infectious pathologies. A unique opportunity that not only revolutionizes traditional pedagogical concepts, but also puts the specialist at the center of the equation to enhance their knowledge in this field.

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*TECH is the only university that gives you the opportunity to improve your skills in the care of infectious pathologies in a prestigious hospital center”*

### 1. Updating from the latest technology available

New technologies have helped in the detection of Infectious Diseases, while improving the devices used both in the laboratory and in the Emergency Department. For this reason, and with the aim of bringing the medical professional closer to these technical advances, TECH has created this Internship Program, where the specialist will be able to learn about these advances in a cutting-edge clinical environment.

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

During this practical updating process, the professional will not be alone, as they will be accompanied by multidisciplinary specialists in Infectious Diseases throughout the 3 weeks of the program. This is an endorsement for the physician who seeks to obtain an update next to the best experts in this field, incorporating the procedures and methods used for both diagnosis and treatment of the various infectious pathologies into their daily practice.

### 3. Entering First-Class Clinical Environments

TECH carefully selects all available centers for Internship Programs. Thanks to this, the specialist will have guaranteed access to a prestigious clinical environment in the area of Infectious Diseases in the Emergency Department. Therefore, they will be able to obtain a much more direct and real vision of the demanding, rigorous and precise work used by professionals to care for different types of patients, who present infectious pathologies, sometimes of particular severity.



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

With this program TECH goes a step further in the academic panorama by offering an experience of 120 hours of professional practice in a unique healthcare environment. This way, in an intensive format, the physician will find the necessary time to improve their skills in the care of patients with infectious pathologies and apply this up-to-date knowledge in their day-to-day practice.

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

The professionals who will be immersed in this Internship Program will do it together with specialists who work in first class hospitals and who have a wide experience in Infectious Diseases. In addition, they will have access to a healthcare space of great national and international importance, which will give them the possibility of opening their field of action in the care of patients with various infectious pathologies. A unique opportunity that only TECH can offer.



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



# 03

## Objectives

The main goal of this Internship Program is that the professional achieves in just 3 weeks, the update of their knowledge on the different methodologies and procedures for the approach of infectious pathologies. An objective that will be possible to achieve thanks to the tutoring they will have from the best specialists in this field.



### General Objectives

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- ♦ Master the latest techniques used to discern the selection of an antimicrobial according to the type of host and other extrinsic or environmental factors
- ♦ Incorporate the most effective methods, approaches and clinical analyses in Infectious Diseases into daily work
- ♦ Increase the diagnostic capabilities of emergency professionals treating patients with Infectious Diseases







## Specific Objectives

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- ◆ Apply the techniques available for emergency diagnoses
- ◆ Interpret analytical interpretation of different types of samples
- ◆ Apply isolation protocols, if necessary
- ◆ Act in case of epidemiological outbreaks
- ◆ Assess the patient's febrile symptomatology
- ◆ Use antimicrobials in patients with Infectious Disease
- ◆ Manage fever in patients with iatrogenic immunosuppression
- ◆ Utilize innovative diagnostic techniques and effective treatments for ENT, head and neck infections
- ◆ Identify severe emergencies in patients in special situations
- ◆ Act efficiently in the diagnosis of infectious pathology in pediatric patients



*This Internship Program will give you a real vision of the diagnostic techniques to be performed in the emergency laboratory”*



# 04

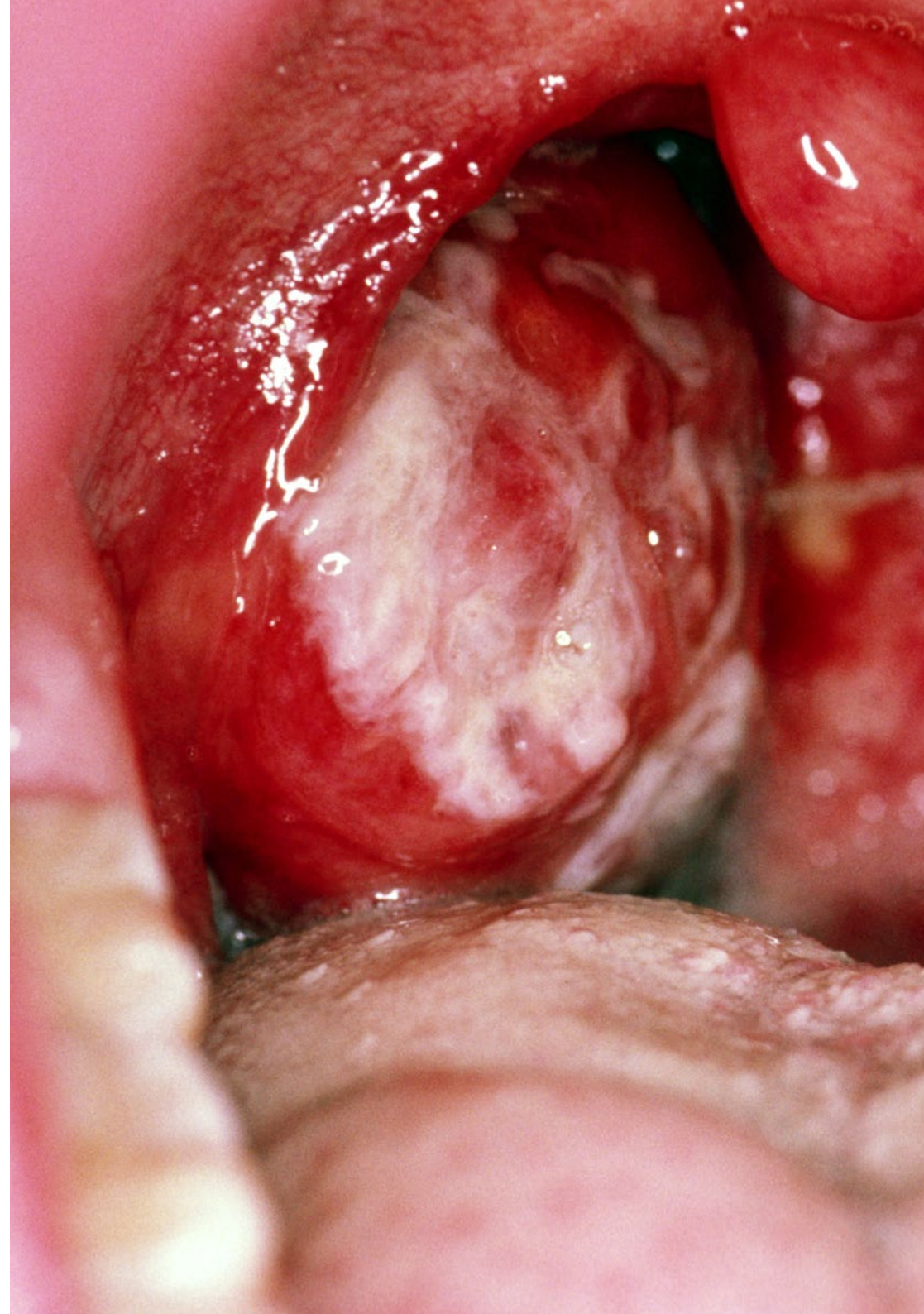
## Educational Plan

The Internship Program in Infectious Diseases in the Emergency Department consists of a 3-week stay in a prestigious center, from Monday to Friday with 8 consecutive hours of work with the best specialists in this field. Therefore, during this period, the professional will be able to treat real patients alongside a team whose day-to-day work is focused on the application of the most effective and innovative diagnostic and therapeutic techniques.

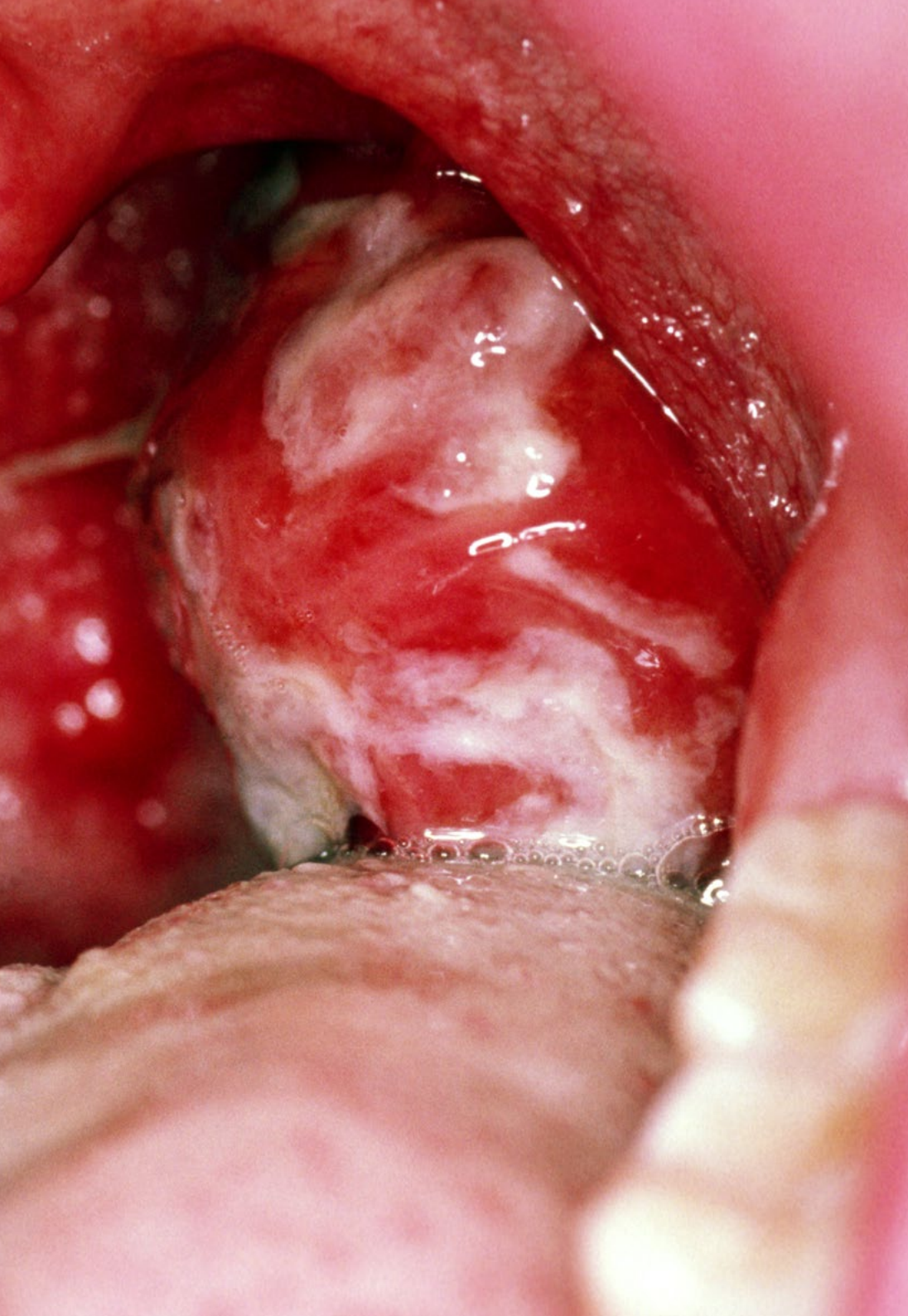
In this completely practical Internship Program, the activities are aimed at developing and perfecting the skills necessary to provide healthcare care in areas and conditions that require highly qualified professionals, and are oriented towards specific expertise for practicing the activity, in a safe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

TECH offers in this way, a unique experience, where it transforms a first-class hospital center into an ideal teaching environment for the improvement and enhancement of the skills of medical professionals. An environment where the latest scientific advances in Infectious Diseases will be applied, always under the supervision of a specialist from this center and the guidance of a teacher assigned by this academic institution.

The student will actively participate by performing activities and procedures related to each area of competence (learning to learn and learning to do), with the support of multidisciplinary integration as transversal competencies for the medical practice (learning to be and learning to relate to others).







The procedures described below will form the basis of the practical part of the training, 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:

Module	Practical Activity
<b>Detection of Infectious Diseases in the Emergency Department</b>	Assess the patient's pathology and establish the necessary complementary tests to identify and treat the infectious pathology
	Apply existing protocols, if necessary, in the event of an epidemiological outbreak
	Collaborate in the application of intravenous antibiotics in patients with bacterial meningitis
	Support in the clinical management of patients with bacteremia, sepsis and septic shock
<b>Management of Patients with Fever in Special Situations</b>	Establish the relationship of fever with the presence of exanthema and lymphadenopathy
	Measure the existence of fever and hematologic changes in special situations
	Approach the fever in the patient with recent surgery
	Manage surgical wound infection
<b>Management of the Pediatric Patient with an Infectious Disease</b>	Examine the patient with febrile syndromes and exanthemata
	Apply the most appropriate antimicrobial treatment for Encephalitis and Meningitis
	Perform specific diagnostic tests for patients presenting with CSF shunt infections
	Diagnose and treat patients presenting with acute pericarditis using the latest techniques
<b>Approach to Patients with Coronavirus in the Emergency Department</b>	Apply the latest protocols in the care of patients with coronavirus
	Perform immediate diagnostic tests in patients suspected of having coronavirus
	Prescribe the most effective treatments according to the variant of coronavirus and patient characteristics
	Assess the morbidity of coronavirus infections



05

# Where Can I Do the Internship Program?

With the aim of offering a quality update available to everybody, TECH has made a rigorous selection of hospitals to which the professional will have access in this Internship Program. In this way, this institution provides prestigious health centers, which have in their teams with real experts in Infectious Diseases.


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*This Internship Program will allow you to enhance your skills for the management of serious and emerging infectious pathologies”*





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



**Medicine.**

### Hospital HM Modelo

Country	City
Spain	La Coruña

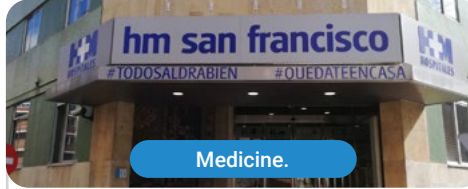
Address: Rúa Virrey Osorio, 30, 15011, A Coruña

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

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**Related internship programs:**

- Anaesthesiology and Resuscitation
- Palliative Care



**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.

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**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.

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**Related internship programs:**

- Update on Psychiatric Treatment in Minor Patients



**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.

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**Related internship programs:**

- Palliative Care
- 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.

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**Related internship programs:**

- Palliative Care
- Aesthetic Medicine



**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.

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**Related internship programs:**

- Aesthetic Medicine
- Clinical Nutrition in 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 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





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*Take advantage of this opportunity to surround yourself with expert professionals and learn from their work methodology”*



# 06

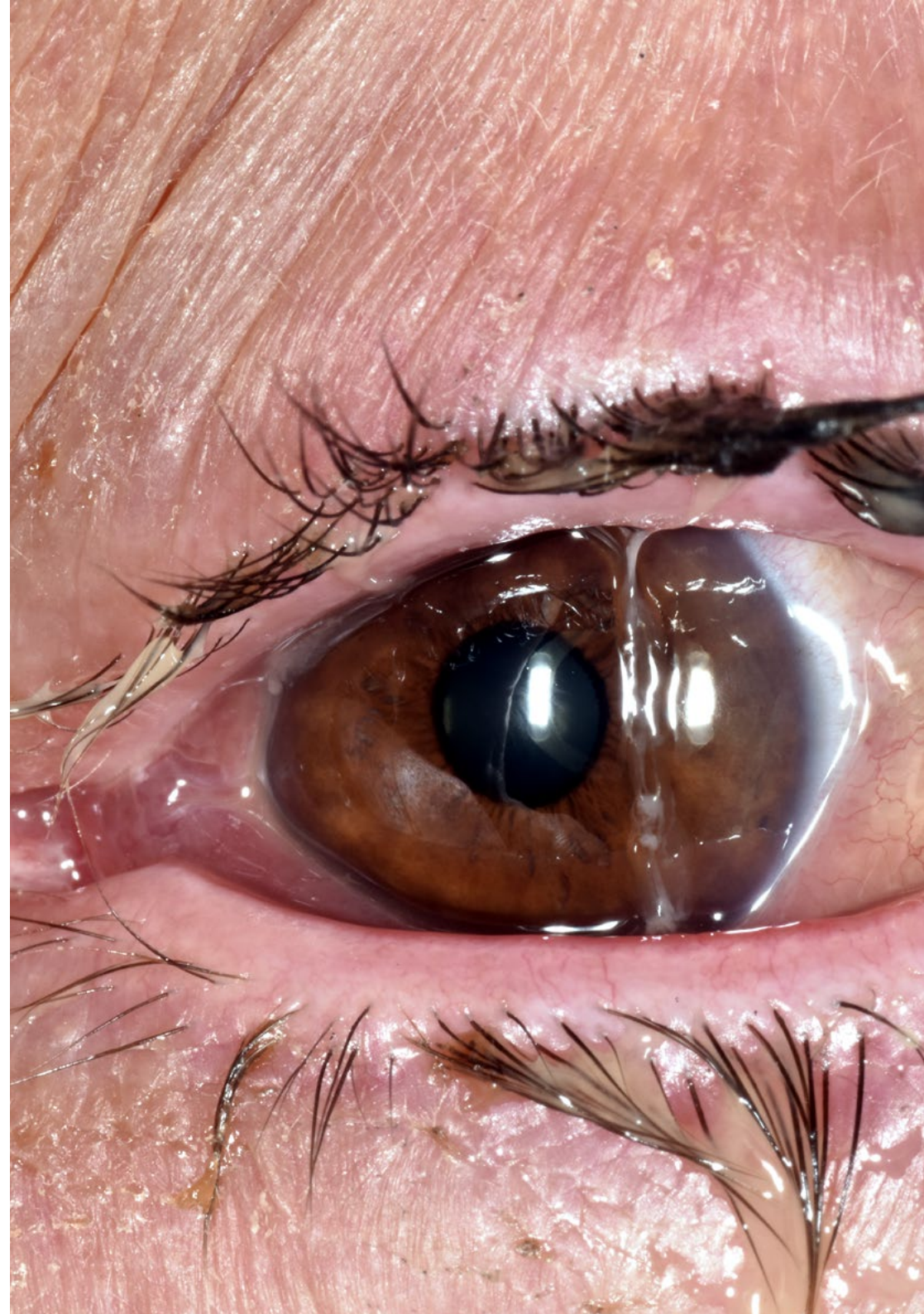
## General Conditions

### 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. This 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 practical 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 Infectious Diseases in the Emergency Department** contains the most complete and up-to-date program in the professional and academic landscape.

After the student has passed the evaluations, they will receive their corresponding Internship Program 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 Infectious Diseases in the Emergency Department**

Duration: **3 weeks**

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

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



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Infectious Diseases in the  
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# Internship Program

## Infectious Diseases in the Emergency Department

