

Internship Program

Hepatology



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Internship Program
Hepatology

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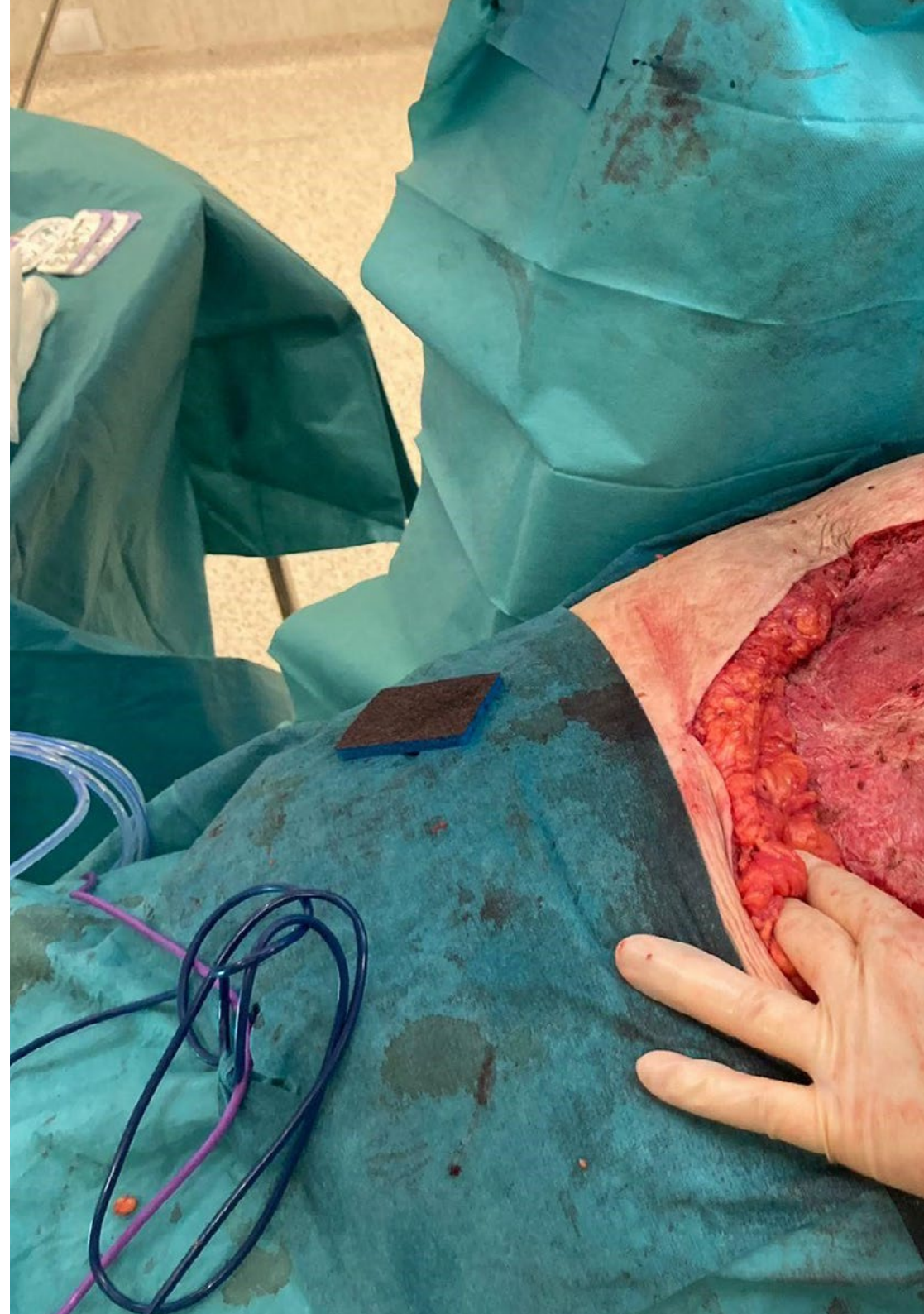
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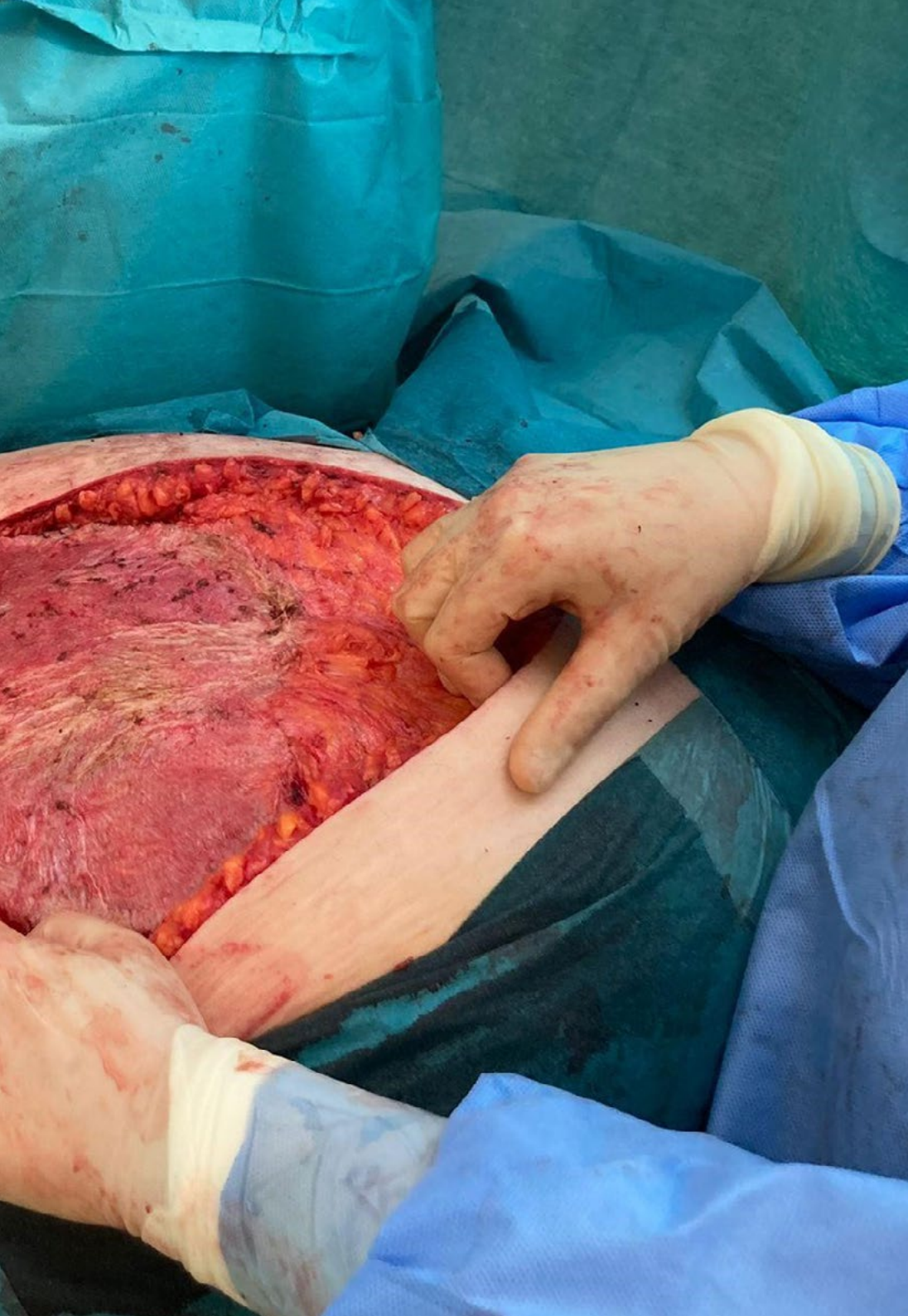
01 Introduction

Advances in the field of Hepatology require permanent updating and the broadest applied knowledge, which allows professionals to efficiently incorporate new diagnostic and approach techniques. New ways of intervention that modify the evolution and prognosis of patients. In this scenario, TECH offers a program consisting of a practical stay in a prestigious center, where you will be able to update your technical and diagnostic knowledge with the best specialists in this area. An excellent opportunity to keep abreast of scientific progress in the care and management of the hepatologic patient, from the best experts.



Incorporate into your daily practice the most relevant advances in the area of Hepatology thanks to a distinctive, unique and effective hands-on experience"





Hepatology is of great relevance if we take into account that one out of every three people in the world is exposed to the hepatitis B or C virus, being one of the priority diseases in the Millennium Development Goals of the World Health Organization. In view of this reality, scientific research has driven the improvement of both diagnostic and therapeutic techniques.

These advances require specialists to keep their knowledge constantly updated. This is why this Internship Program was created. An innovative pedagogical program, which goes into the direct and current application of techniques and procedures in a real healthcare scenario. Thus, the professional who enters this program will have access to a clinical center of reference in Hepatology. In this environment you will be able, together with specialists in this area, to test the techniques, tools and methodologies used in the approach to the hepatological patient.

A 3-week stay, where you will work in a specialized environment, which will allow you to learn first-hand about the state-of-the-art equipment used, as well as the different procedures applied to care for patients whose disease is at different stages. An excellent opportunity to keep abreast of progress in Hepatology in a professional and eminently practical environment.

02

Why Study an Internship Program?

TECH in this program has gone a step further in graduate education, and has created an Internship Program unique in the academic landscape. A stay in a prestigious health center with specialized professionals is a unique option for professionals who wish to update their knowledge in an intensive period. Thus, during 3 weeks they will be able to work in a real environment, attending patients through the latest procedures and techniques. All this will also allow them to integrate these methodologies into their daily practice and thus enhance their competencies and skills in the area of Hepatology.



TECH is the only university that offers you the possibility of getting into real clinical environments, together with excellent professionals specialized in Hepatology"

1. Updating from the latest technology available

The area of Hepatology has evolved in recent years, thanks to advances in diagnostic equipment (CT, ultrasound, MRI). This has contributed to more accurate detection of the disease and more effective therapeutic measures. That is why, in this program, TECH seeks that the medical professional obtains the most advanced and current practical knowledge, applying the latest technology available in this health area.

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

During the development of this practical stay, the professional will not be alone, since they will have a specialist who will tutor them, so that they can successfully achieve his/her updating objectives. In this way, you will be able to see real patients in a state-of-the-art environment, which will allow you to integrate the different techniques and the most effective approach in Hepatology.

3. Entering First-Class Clinical Environments

For all Internship Programs, TECH carries out a rigorous selection of all clinical centers. This is a guarantee for the professional who seeks to be up to date in the area of Hepatology, through the best specialists. In this way, you will also be able to see what day-to-day life is like in an area of work that has undergone great technological advances in recent years, as well as in treatments for patients with liver problems.



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

Currently, there is a wide range of educational programs that offer theoretical content, but very few that are adapted to the daily needs of professionals. In view of this reality, TECH has created this practical format, which allows updating the specialist's theoretical concepts, renewing them and also showing the new techniques and processes carried out in an excellent healthcare environment. All this, in addition, from the beginning of the 3 weeks of practical stay.

5. Expanding the Boundaries of Knowledge

TECH has created this Internship Program, not only to offer an update of knowledge, but also to provide methodological and technical innovations applied in the area of Hepatology. In this way, the professional will be able to integrate them and perform their specialty in health environments of the highest level in the area of Hepatology. A unique opportunity to take a step further in this specialization.

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

03

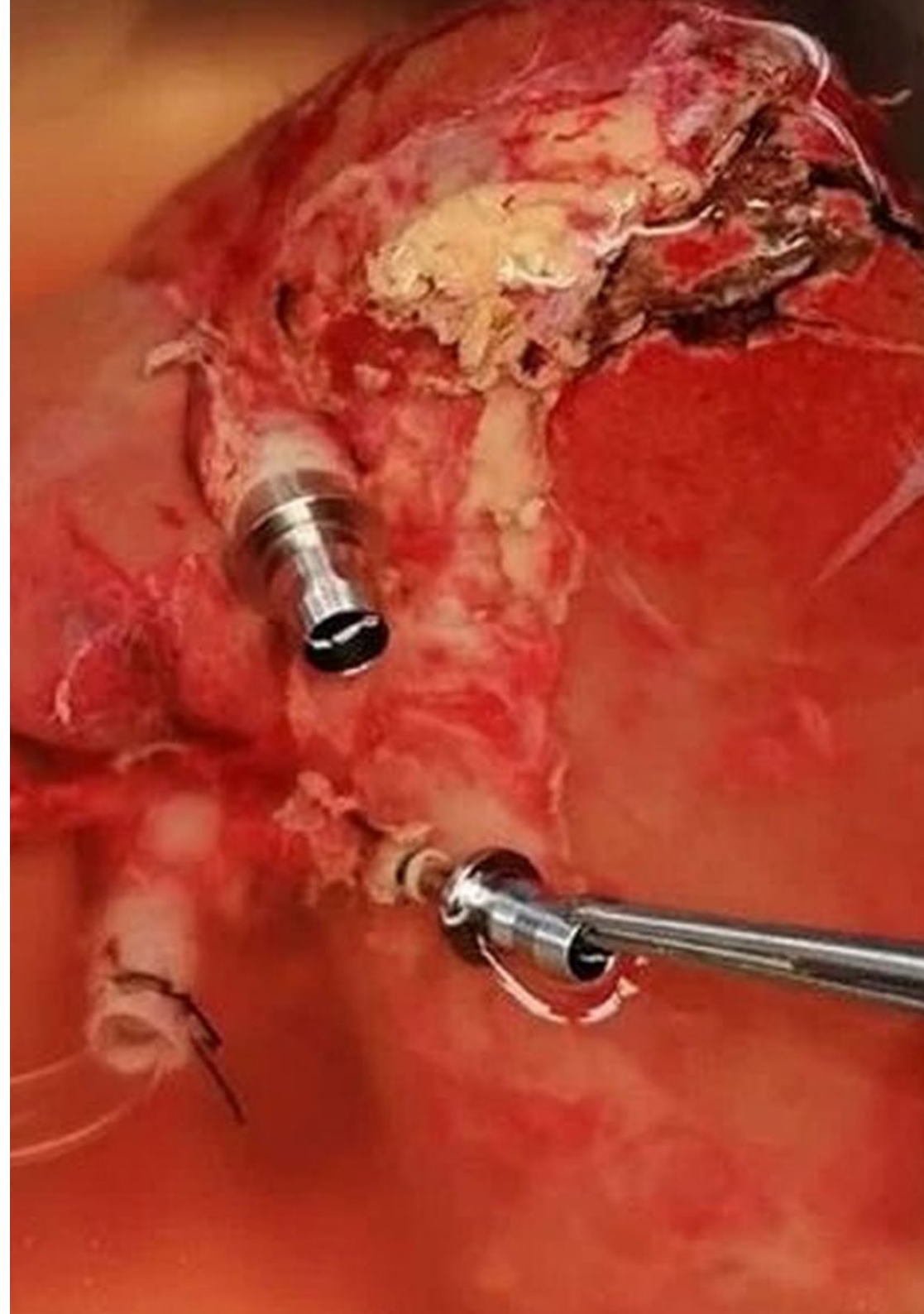
Objectives

The general objective of the Internship Program in Hepatology 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 him to improve and enhance his skills in the medical care of patients.



General Objectives

- Master the latest techniques, modern scientific postulates and application of cutting-edge technologies in Hepatology treatments
- Incorporate the most effective methods, approaches and clinical analyses into daily work, backed by a team of prestigious experts in the field of Hepatology
- To know the specific approach to patients with chronic hepatitis who are undergoing antiviral treatment





Specific Objectives

- ♦ Identify the updated diagnostic criteria for liver diseases, and develop a correct differential diagnosis strategy
- ♦ Establish the pathogenic basis of liver diseases, incorporating the latest advances in the field of study
- ♦ Apply the treatment plan for the most prevalent acute and chronic liver diseases
- ♦ Describe the principles for selecting liver transplant candidates, the surgical basis of transplantation, immunosuppressive drugs, and the short and long-term management of the liver transplant patient
- ♦ Define the rationale, indications, limitations, and cost-effectiveness of diagnostic tests used in Hepatology
- ♦ Highlight the impact of the immune system on liver disease
- ♦ Explain how to manage patients with chronic hepatitis undergoing antiviral treatment
- ♦ Identify the main childhood liver diseases
- ♦ Address the diagnosis and treatment of the main hepatic diseases during pregnancy
- ♦ Develop a correct differential diagnosis strategy for liver diseases
- ♦ Address the imaging diagnosis of cirrhosis, portal hypertension, and hepatic vascular disease
- ♦ Use the clinical utility of MRI cholangiography
- ♦ Use the main laboratory techniques used in basic research
- ♦ Interpret the alteration of liver function tests in primary care
- ♦ Address the coordinated management of liver transplant patients in Primary Care
- ♦ Describe the pathogenic basis of viral hepatitis, its diagnosis, and treatment
- ♦ Establish the pathogenic basis of autoimmune liver disease, diagnostic criteria, and treatment
- ♦ Use the different useful imaging techniques in the diagnosis of the main cholestatic diseases and the current treatment options
- ♦ Recognize the clinical manifestations, diagnosis, and treatment of metabolic liver diseases
- ♦ Recognize the clinical manifestations, diagnosis, and treatment management of systemic diseases that involve the liver
- ♦ Characterize the natural history of liver cirrhosis its clinical and hemodynamic manifestations
- ♦ Address how to manage the complications of liver cirrhosis: ascites, infections, esophageal variceal bleeding, and hepatic encephalopathy
- ♦ Identify the main problems associated with portal hypertension, as well as the diagnosis and possible treatments
- ♦ Use hepatocellular carcinoma preventive strategies, staging and therapeutics
- ♦ Address the endoscopic management of neoplastic complications in the hepatopancreaticobiliary area
- ♦ Describe the epidemiology of hepatocarcinoma and its risk factors
- ♦ Apply the curative treatments for intermediate and advanced hepatocarcinoma
- ♦ Practice the surgical treatment options in the most frequent liver diseases and evaluate the risks and benefits
- ♦ Inform about the most frequent childhood liver problems and how they are treated
- ♦ Apply the principles for selecting candidates for pediatric liver transplantation and the short and long-term management of the patient

04

Educational Plan

The Internship Program of this program in Hepatology consists of a practical stay in a prestigious clinical center, lasting 3 weeks, 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 leading specialists in the field of hepatology, applying the most innovative diagnostic procedures and planning the latest generation of therapy for each pathology.

During this period, the professional will be able to see firsthand the different methodologies used for patient management depending on the severity of their disease. You will also be in an environment, which will allow you to be up to date on the most effective treatments for patients, who may have special characteristics. A current vision, but which will also provide you with a vision of the future on the approach to tumors, taking into account the latest scientific advances in this area.

In this training proposal, completely practical in 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 an environment of patient safety and 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 heart of the digital culture of its professionals. This is a new way of understanding and integrating health processes, making it the ideal teaching scenario for this innovative experience in the improvement of the physicians professional competencies for the 21st century.

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 the professors and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for medicine Analysis (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:



Train in an institution that can offer you all these possibilities, with an innovative academic program and a human team capable of developing you to the maximum"



Module	Practical Activity
Diagnostic and research methods in Hepatology	Participate in the performance of liver biopsies
	Perform diagnostic imaging of liver problems by ultrasound, CT and MRI
	Perform basic and advanced endoscopy in hepatic pathology
	Assessment of hepatic fibrosis by non-invasive methods
	Use of PCR and microarray techniques in the diagnosis and follow-up of liver pathologies
	Apply immunocytochemistry procedures in the diagnosis of liver diseases
Diagnostic procedures and management and treatment of viral hepatitis	Follow the most updated clinical protocols in the approach to viral hepatitis
	Diagnose, by liver biopsy, the degree of fibrosis activity in hepatitis
	Carry out the specific approach to Hepatitis in special populations: pregnancy, patients with cirrhosis or liver transplantation
	Management of HCV-HIV co-infection after hepatitis
Techniques for approaching liver cirrhosis	Recognize, through the use of prognostic models, the clinical manifestations of cirrhosis
	To evaluate the evolution of liver cirrhosis, based on laboratory blood tests, looking for signs of deficiency in the functioning of the liver (excess bilirubin) and kidneys (creatinine values)
	Perform MRE elastography to identify liver stiffening
	Indicate the use of recommended and dangerous drugs in liver cirrhosis
	Diagnose and treat portal hypertension, as well as Ascites and Hepatorenal Syndrome
	Treating esophageal bleeding due to varicose veins
Liver transplantation techniques and approach to hepatocellular carcinoma and other tumors	Diagnosis by blood tests, imaging tests (MRI and CT) and liver biopsy of hepatocarcinoma, liver metastases and cholangiocarcinoma
	Apply radiofrequency ablation, cryoablation and microwave ablation methods in hepatocarcinoma
	Manage neoplastic complications of the hepatopancreaticobiliary area by means of endoscopic techniques
	Participate in the surgical intervention of liver transplantation and assess the subsequent condition of the patient, addressing the immediate and mediate complications of this surgery
	Perform endoscopic treatment of biliary complications in liver transplantation

05 Where Can I Do the Internship Program?

To ensure that the updating process is the best possible, TECH proposes the realization of this on-site stay in a prestigious center that can provide the doctor with the latest advances in the field of Hepatology. For this purpose, it has made a careful selection of clinical centers, where the professional will be able to apply the techniques and diagnostic methods, with equipment that are at the clinical forefront.



Take your practical training in a leading clinical center in the area of Hepatology and enhance your technical diagnostic skills"





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
- 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 Rosaleda

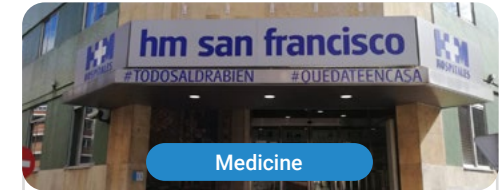
Country City
Spain La Coruña

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
- 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 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:

- 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 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 Distrito Telefónica

Country City
Spain Madrid

Address: Ronda de la Comunicación, 28050, Madrid

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

Related internship programs:

- Optical Technologies and Clinical Optometry
- General and Digestive System Surgery



Medicine

Policlínico HM Gabinete Velázquez

Country City
Spain Madrid

Address: C. de Jorge Juan, 19, 1° 28001, Madrid

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

Related internship programs:

- Clinical Nutrition in Medicine
- Aesthetic Plastic Surgery



Medicine

Policlínico HM Sanchinarro

Country City
Spain Madrid

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

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

Related internship programs:

- Gynecological Care for Midwives
- Nursing in the Digestive Tract Department



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

Sanatorio Central Banda

Country	City
Argentina	Santiago del Estero

Address: Amadeo Jacques N° 175 4300,
La Banda , Santiago del Estero

Clinical center for comprehensive inpatient and surgical care

Related internship programs:

- Hepatology
- Primary Care Clinical Ultrasound



Medicine

Grupo Gamma

Country	City
Argentina	Santa Fe

Address: Entre Ríos 330, Rosario, Santa Fe

Polyclinic specialized in various medical specialties

Related internship programs:

- Update in Anesthesiology and Resuscitation
- Gynecologic Oncology





Medicine

Hospital Italiano La Plata

Country	City
Argentina	Buenos Aires

Address: Av. 51 N° 1725 e/ 29 y 30 La Plata,
Buenos Aires

Non-profit Community Center
of specialized clinical care

Related internship programs:

- Advanced Emergency Medicine
- Gynecologic Oncology

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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 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 Hepatology** 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 Hepatology**

Duration: **3 weeks**

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

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





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