





Internship Program
Diabetes

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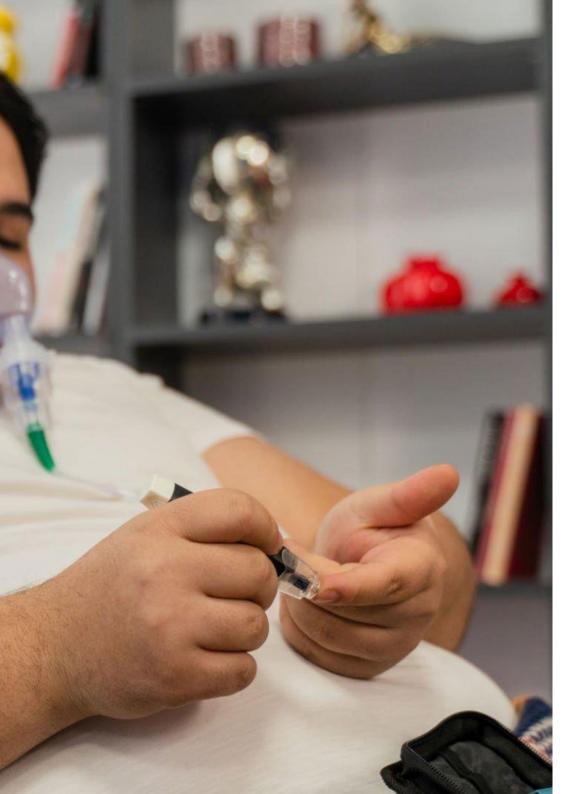
## 01 Introduction

Diabetes has become one of the most serious health problems today, generating a high number of comorbidities and becoming disabling for the person who suffers from it. For this reason, medical professionals must remain up-to-date with the main therapeutic alternatives, pharmacology and surgical procedures that enable a better quality of life for those who suffer from this disease. However, specialists rarely have pedagogical programs that cover all these competencies in a practical way. In response to this situation, this immersive and intensive on-site program has been created, in which the physician will acquire an up-to-date knowledge of the main trends in the care of patients suffering from this condition.

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Incorporate, through this program, the use of the latest generation of pharmaceuticals for the therapeutic care of diabetic patients under your care"





In little more than a decade, the incidence of diabetes has skyrocketed worldwide. The number of patients is growing progressively and, at the same time, deaths exceed two million cases each year. This chronic systemic condition requires the care of multiple medical specialties such as Nutrition, Endocrinology, Cardiology, among others. The professionals dedicated to their study must have a comprehensive and up-to-date mastery of all their specificities in order to be able to help their patients' survival. However, access to study programs that develop the practical skills necessary for the clinical approach to patients is limited.

For this reason, TECH has devised a pioneering program that is entirely dedicated to the development of care competencies for specialists involved in diabetic care. This academic modality comprises 3 weeks of intense training, during which physicians will be up-to-date on the implementation of modern therapeutic, pharmacological and surgical protocols. From the first day of this internship, they will be able to develop their skills by providing direct care to real patients. At the same time, they will have the most modern technological resources at their disposal, since the educational process will take place in a medical institution equipped with the most advanced tools for dealing with Diabetes.

At the same time, physicians will have a direct exchange with great experts, who will transmit their experiences and skills. They will also be supported by an assistant tutor, who will supervise their progress and assign complex tasks in order to promote a much faster and more flexible updating. Therefore, after 120 hours of learning, in intensive days from Monday to Friday, the physician will complete a preparation of excellence and will be able to apply the main novelties of this field in a daily professional practice with an excellent command.

# 02 Why Study an Internship Program?

Medical professionals who care for patients with diabetes must keep up-to-date with the main advances in this medical specialty. Nevertheless, as a general rule, they do not have educational programs at their disposal that provide them with the most complex scientific tools and resources in a direct and immersive way. In this context, TECH has designed an excellence Internship Program with which the specialist will delve into these aspects over 3 weeks of on-site intensive learning, under the guidance of leading experts.



TECH will allow you to get up to date with modern surgical procedures to fight Diabetes such as Metabolic Surgery or pancreas transplantation"

## 1. Updating from the Latest Technology Available

In recent years, science has innovated with technology to combat Diabetes. From this research, complex devices such as insulin pumps or artificial pancreases have emerged. With this program, physicians will have access to these components and will learn, in an immersive way and with real patients, how to proceed with their implementation. All this, in a comprehensive educational process of only 3 weeks of duration.

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

Throughout 120 educational hours, TECH graduates will be part of a medical institution with great specialists dedicated to fighting Diabetes. Through the exchange with these experts, students will develop skills that are highly sought after in their professional environment and that correspond to the latest advances in medical fields such as Nutrition and Endocrinology. In addition, they will be supported by an associate tutor to clarify doubts and concepts of interest.

## 3. Entering First-Class Clinical Environments

For this program, TECH has carefully selected the medical centers that will receive its graduates. These centers have the most innovative technology available at the moment and also have renowned specialists. The combination of resources and qualified personnel will enable physicians to update their knowledge of diabetes management in a faster and more flexible way.



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

Through this Internship Program, the specialist will have direct access to real cases and will be able to apply new techniques, of varying complexity, in the diagnosis and treatment of Diabetes. From this internship, 100% practical and on-site, the physician will be able to perform surgical procedures, pharmacological and alternative therapies that provide quality of life to this kind of patients.

## 5. Expanding the Boundaries of Knowledge

This academic modality offers physicians the possibility of accessing highly prestigious health institutions. These leading centers will be located in different geographic latitudes, based on an exhaustive management by TECH, in order to guarantee the access of its graduates to international environments and health care standards.



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

# 03 **Objectives**

As a main goal, this Internship Program in Diabetes expects its graduates to acquire full mastery of the latest surgical, pharmacological and assistance techniques that provide quality of life to those suffering from this disease. The learning process itself is another objective to overcome since, unlike other study programs, it is a 100% on-site and immersive experience.



## **General Objectives**

- Deepen the understanding of the complex mechanisms of glycemia regulation; and improve the knowledge of the bases of the physiopathogenesis of type 1 and type 2 diabetes, in order to understand the existing therapeutic approaches and its prevention
- Acquire the knowledge and skills necessary for a comprehensive assessment
  of the person with diabetes, with special reference to acute complications of
  glycemic control
- Learn about the chronic macrovascular and microvascular complications related to Diabetes, as the main cause of mortality in these patients





## **Specific Objectives**

- Expertly deal with the treatment of patients with Diabetes in special situations such as the elderly, institutionalized, hospitalized, during travel, and in the rural world and at work
- Delve into the epidemiology of type 1 Diabetes and its determinants, as well as to study Diabetes type 2 as an epidemic in the health care environment
- Detect diabetes early in the population, through screening techniques
- Analyze the etiopathogenic mechanisms of type 1 diabetes and type 2 diabetes, that will serve as therapeutic targets for the latter
- Expand knowledge of the skills necessary for the global treatment (nutritional, exercise, healthy habits and therapeutic measures) of the patient with Diabetes
- Knowing how to prevent or delay the development of type 1 and type 2 diabetes, by acting on the etiopathogenic mechanisms involved
- Differentiate acute hyperglycemic complications for their correct therapeutic approach
- Handle the different blood glucose monitoring devices, as well as insulin injection devices (continuous insulin perfusion pumps) and to be able to interpret the data resulting from these devices
- Acquire the knowledge and skills of insulin resistance measurement
- Delve into the current data on the Epidemiology of macrovascular disease in diabetes
- Master the pharmacological treatment of type 2 diabetes in order to be able to prescribe
  the best pharmacological strategy for each patient with type 2 diabetes according to
  their comorbidities

- Learning the global management of obesity in the diabetic patient
- Apply technology in new forms of medical care for diabetic patients (e-consultation, telemedicine, online Educational programs...)
- Acquire the necessary knowledge and skills of diabetes education, as part of the treatment
  of diabetes, to facilitate the knowledge, skill and ability necessary for self-management



By enrolling in this Internship Program, you will update your knowledge on the approach to Morbid Obesity in patients with a base of Diabetes in a 100% direct and on-site way"

## 04 **Educational Plan**

This Diabetes Internship Program is a unique learning opportunity. The physician will have the opportunity to perform multiple activities, of varying complexity, in a first level hospital environment. This on-site internship will last 3 weeks, in 8-hour shifts, from Monday to Friday. During this period, specialists will acquire new healthcare competencies and will be ready to apply their new knowledge in their daily professional practice in a quick and exhaustive manner.

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 with highly professional performance.

Another advantage of this program is the direct link with real patients. In this way, graduates will be able to apply different diagnostic and therapeutic techniques that will broaden their expert profile. Throughout the learning process, they will be under the academic guidance of an Associate Tutor. This teaching figure will be in charge of supervising the graduate's progress and will have an impact on the development of skills by indicating specific tasks.

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 who facilitate teamwork and multidisciplinary integration as transversal competencies for the practice of medicine (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:

Module	Practical Activity			
	Use insulin pumps, wireless or with probes, to continuously deliver specific amounts of the substance to the patient			
Therapeutic and pharmacological trends of Diabetes	Applying closed-loop artificial pancreas to deliver insulin to the demanding organism			
	Prescribing metformin, the first drug prescribed for type 2 diabetes, which blocks the action of the stomach or intestinal enzymes responsible for the breakdown of carbohydrates			
	Prescribe the use of DPP4 enzyme inhibitors, preventing the degradation of incretins a prolonging insulin secretion in the intestines			
Therapeutic	Evaluate the conditions of the patient with type 1 diabetes in order to perform a pancreas or pancreatic islet transplantation			
Management Surgical of Diabetes	Implement Bariatric Surgery and Gastric Bypass as a method to reduce the blood glucose levels of patients with Morbid Obesity and Diabetes			
	Manage Diabetes and Prediabetes through Metabolic Surgery			
Comorbidities and Complications of Diabetes	Determine the presence of diabetic retinopathy, diabetic nephropathy and diabetic neuropathy from the detection of micro-vascular alterations			
	Diagnose erectile dysfunction as a result of diabetic microvascular alterations			
	Prevent the occurrence of diabetic foot ulcers by means of heat and infrared studies of the foot			
	Assess risk factors for cerebrovascular damage due to genetic or unhealthy lifestyles that increase the risk of death in patients with diabetes			
Maternal and infant	Assess glucose overload or glucose tolerance by oral tests			
	Monitor the pregnant patient with gestational diabetes to prevent the development of elevated blood pressure and preeclampsia			
care in the latency of Gestational Diabetes	Early identification of macrosomia in the fetus as a result of gestational diabetes			
	Monitor glucose intake and other medical care of newborns with hypoglycemia, respiratory problems or jaundice as a result of the mother's gestational diabetes			

# 05 Where Can I Do the Internship Program?

This Internship Program will take place in a prestigious health institution where the study of Diabetes is a priority. The institutions selected for this intensive and on-site internship have the most innovative technologies and a trained staff committed to the management of procedures and equipment in this field of medical research. At the same time, the specialist will have access to facilities located in different geographical latitudes thanks to this program's eagerness to develop an update based on international standards.



During this program, you will be able to apply what you have learned directly on real patients, from the first day of work"



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



### Hospital HM Modelo

Country La Coruña Spain

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



### Hospital HM Rosaleda

Country 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



## **Hospital HM San Francisco**

Country 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



### Hospital HM Regla

Country León Spain

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



## **Hospital HM Nou Delfos**

Country 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



## **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



## 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



## **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



### **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



### 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



## 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



#### 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



#### 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



## Policlínico HM Gabinete Velázquez

Country City Spain Madrid

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

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

#### Related internship programs:

Clinical Nutrition in Medicine
 Aesthetic Plastic Surgery



#### Policlínico HM Las Tablas

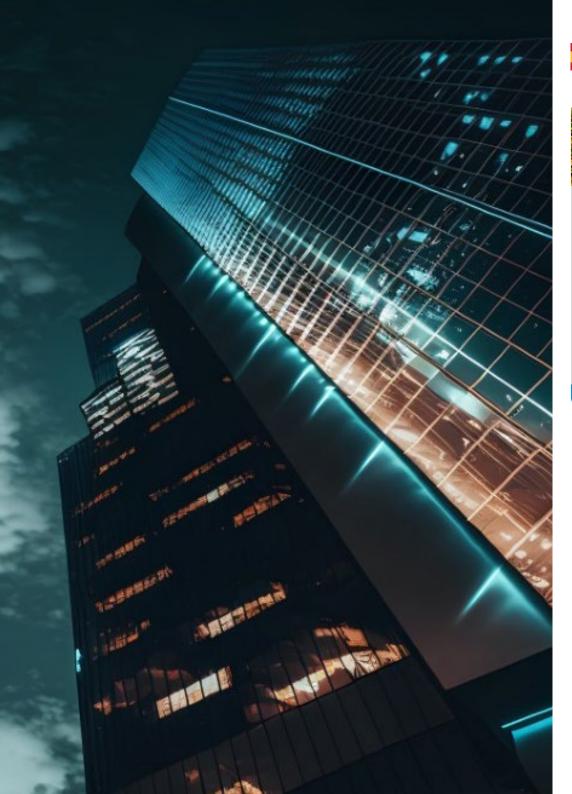
Country City
Spain Madrid

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

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

#### Related internship programs:

- Nursing in the Traumatology Department
- Diagnosis in Physiotherapy





## 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 City
Spain Madrid

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

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

#### Related internship programs:

-Diabetes



### 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

## 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 Diabetes** 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 Diabetes

Duration: 3 weeks

Course Modality: Monday to Friday, 8-hour consecutive shifts

Total Hours: 120 h. of professional practice





