

Internship Program

Update on Endocrinology



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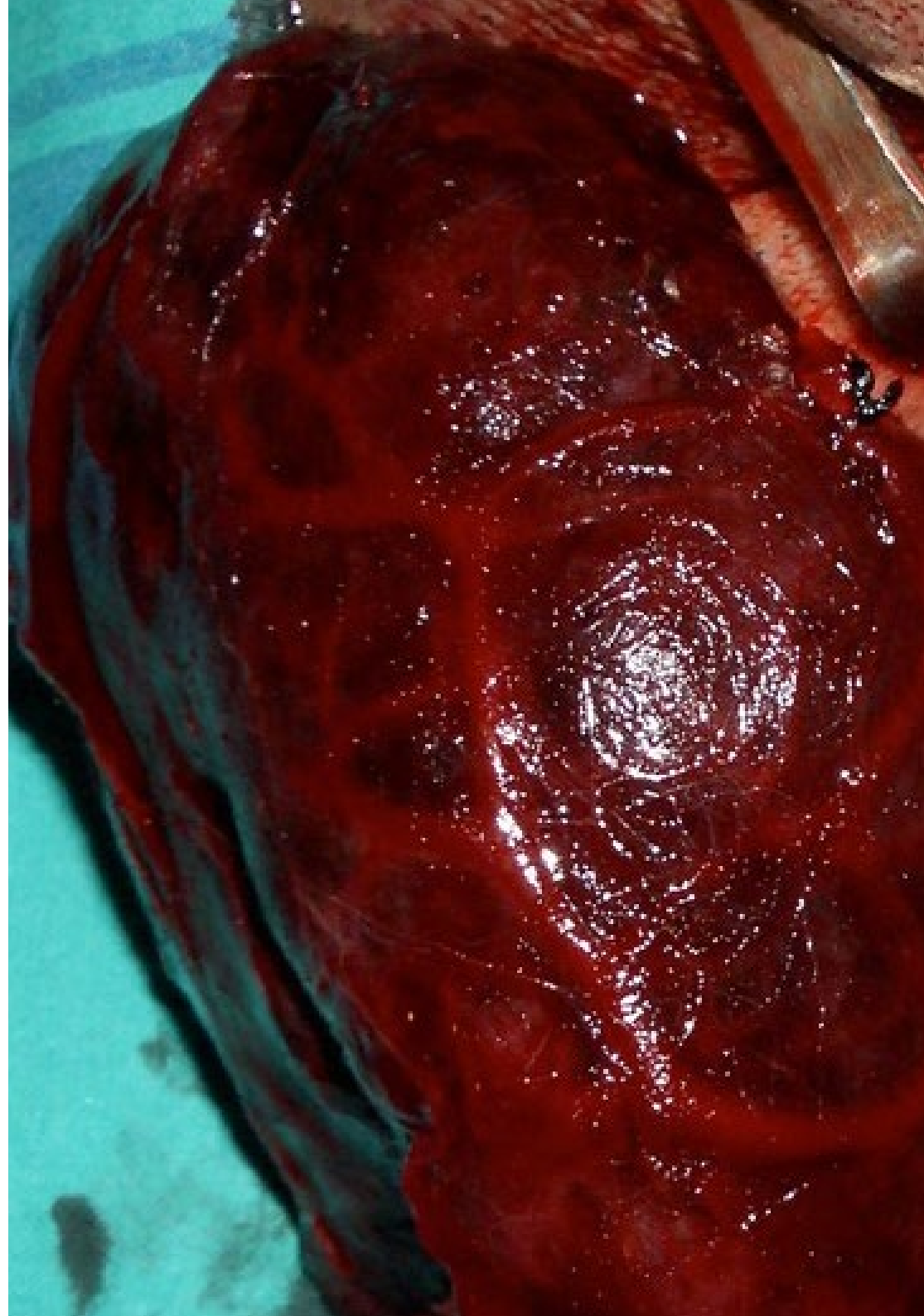
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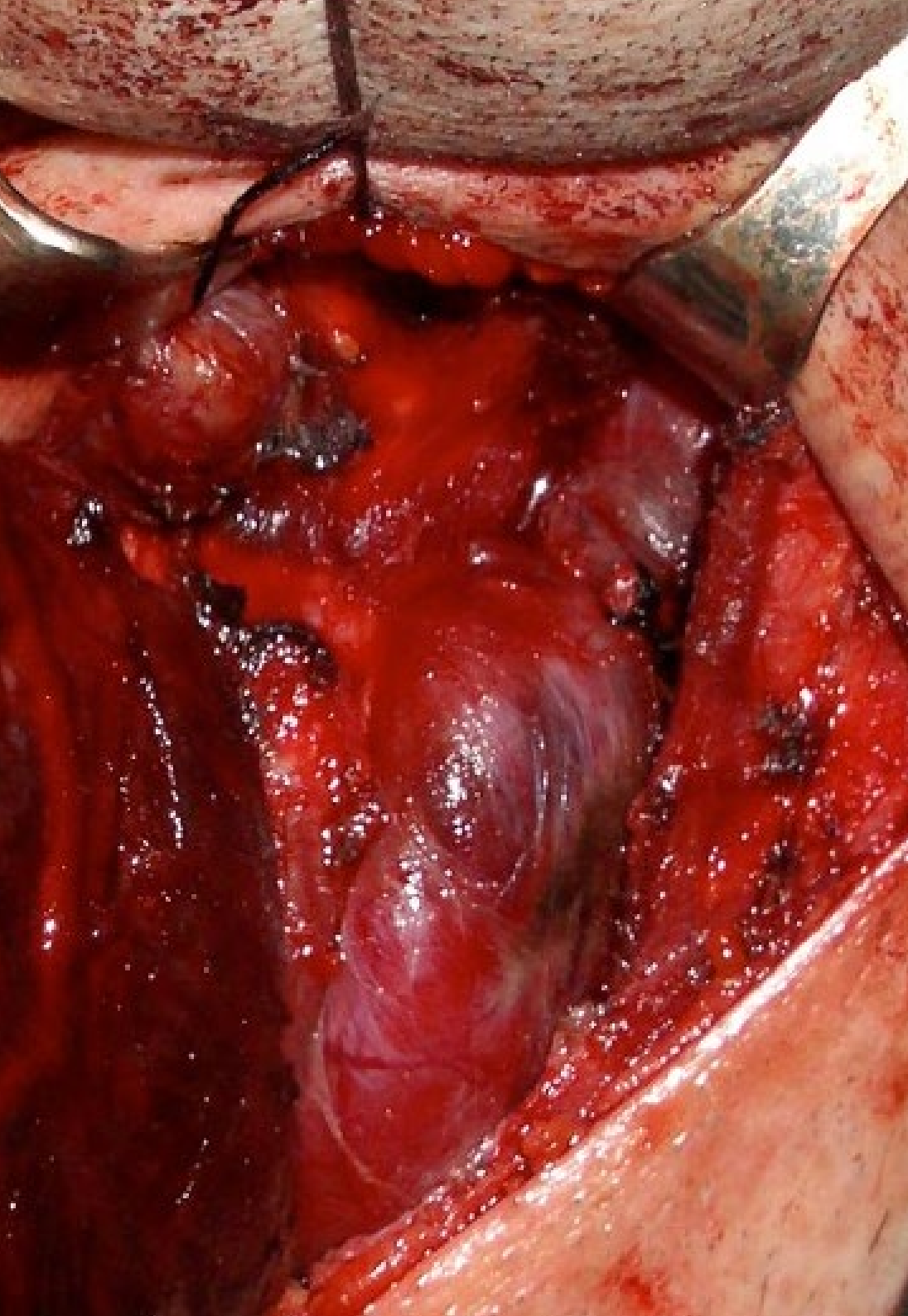
01 Introduction

World statistics reveal that diabetes causes 2 million deaths every year in the world, which has forced medical areas such as Endocrinology to study it in depth. As a result of this research effort, innovative techniques have been obtained, such as mixed Insolinotherapy or insulin pump by continuous subcutaneous infusion. These advances require the medical professional to remain up-to-date in an environment where there are not enough educational programs on the subject. However, TECH has designed a program that responds to these needs in a 100% practical way. Through an intensive on-site internship in state-of-the-art medical centers, the endocrinologist will be up-to-date on the latest trends in order to offer specialized care in this field of health.



Incorporate into your professional dynamics the performance of percutaneous endoscopic gastrostomy procedures in patients with special nutritional requirements from Endocrinology”





The endocrine system encompasses such a large number of glands, hormones and metabolic reactions within the human organism that the professional in this specialty is required to remain up-to-date in fields as diverse as nutrition, obesity interventions and many more. At the same time, all these complex areas are subject to scientific research that, on a continuous basis, provide discoveries in terms of techniques and tools for the approach to these ailments. However, there are still not enough pedagogical programs that prepare the specialist for a correct practical intervention of patients suffering from these pathologies.

Aware of this context, TECH has designed this Internship Program which consists of a 3-week intensive on-site internship. During this period, the physician will be up-to-date on innovative care trends from the point of view of Endocrinology. Among them, the treatment of Diabetic Retinopathy by means of anti-VEGF, other corticoids, and laser surgery to reduce inflammation. Also, on the performance of percutaneous endoscopic gastrostomy procedures and application of jejunostomy tubes to patients with artificial nutrition needs. In addition, they will delve into the use of much more efficient insulinotherapies to reduce the diabetic patient's crises.

The qualification will take place in a state-of-the-art medical center, to which the professional will have to travel in order to complete 120 hours of clinical internship from Monday to Friday. During this clinical stay, you will receive personalized attention from an assistant tutor who will help you become familiar with the most modern dynamics and techniques within the specialty. At the same time, they will be able to exchange experiences with other experts of the institution who are distinguished by their wide-ranging skills.

02

Why Study an Internship Program?

Endocrinology is increasingly proving to be a multisectorial medical specialty in which its own scientific research and that of other scientific branches such as cardiology, ophthalmology, urology and many others have an impact. For this reason, this health area is in constant renewal and its professionals need constant updating, especially in the practical management of advanced techniques and equipment. With this TECH qualification, the endocrinologist will find all these facilities and, at the same time, will be able to access a medical institution of international prestige during 3 weeks of intensive learning.



Enroll in this Internship Program and you will become an expert in measuring the evolution of the diabetic patient with the mixture of intermediate-acting insulins (NPH) with regular rapid-acting analogues in different proportions”

1. Updating from the latest technology available

Thanks to this study program, the endocrinologist will be up-to-date on the latest techniques and technologies to provide artificial nutritional assistance to the patient. At the same time, they will be up-to-date on the most relevant diagnostic tests for hormonal insufficiencies that are used today in this health field.

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

During this Internship Program, the professional will be accompanied by a designated tutor. This teaching figure will be in charge of supervising their academic progress and providing them with a dynamic insertion into the healthcare routines of the hospital center where they will spend their internship. In addition, the student will be able to exchange doubts with other experts from that institution.

3. Entering First-Class Clinical Environments

Under meticulous selection parameters, TECH has chosen the health institutions that are part of its Internship Program in Update on Endocrinology. These centers have the most up-to-date technological resources of the moment, as well as the most distinguished specialists who will help the endocrinologist to put into practice each one of them through the direct attention of real cases.



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

The educational market does not have many practical study programs in the field of Endocrinology. For this reason, TECH has left aside the deepest theoretical considerations on this sector and has composed a 100% face-to-face and intensive program of excellence that will bring the expert up-to-date on the latest developments in this health area.

5. Expanding the Boundaries of Knowledge

TECH has a wide network of agreements and contacts that help it to choose, for this Internship Program, the most competitive institutions on the international scene. Therefore, the endocrinologist will be able to complete this internship in centers located in distant geographical latitudes under their preference and master the advances of the specialty under international criteria.



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

03 Objectives

As the main objective of this Internship Program, the professional will delve into different diagnostic and therapeutic procedures for endocrinological diseases. This learning will be guided by leading experts in this area of health who will accompany them during an intensive stay in first-class hospitals.



General Objectives

- Update knowledge on the main pathologies affecting the thyroid gland and learn the main diagnostic algorithms in these diseases
- Review the most important clinical knowledge in the detection of arterial hypertension of endocrinological origin
- Delve into the approach in the study of hypogonadism and the main algorithms involved in their study



You will learn, thanks to TECH, the latest developments in specialized care for patients with endocrine emergencies”





Specific Objectives

- ♦ Delve into the main clinical entities affecting the hypothalamic-pituitary axis
- ♦ Interpret the clinical discoveries that should make us suspect the existence of multiple endocrine neoplasia
- ♦ Provide and expand clinical and pathophysiological data on the main endocrine pathologies affecting the adrenal glands
- ♦ Incorporate the use of the main diagnostic algorithms in making the most clinically prevalent clinical judgments
- ♦ Interpret lipid profile findings and the development of therapeutic knowledge that has been generated in recent years in this field
- ♦ Discuss the different therapeutic options for this endocrinological disease
- ♦ Know the most frequent causes that occur in the most common endocrine and metabolic emergencies, developing the activities to be performed with the patient in the situations described in the contents
- ♦ Identify the differential diagnosis in relation to the metabolic and electrolyte alterations of these pathologies
- ♦ Know the different types of nutrition, their indications, their singularities and their administration mechanics
- ♦ Review the most important clinical knowledge in human reproduction
- ♦ Update the singularities of endocrinologic diseases in pregnant women
- ♦ Delve into the peculiarities of endocrinological diseases in the elderly patient
- ♦ Review the most important clinical knowledge in the detection of arterial hypertension of endocrinological origin
- ♦ Provide and expand knowledge about the skeletal system and related diseases in this area



Through this Internship Program, you will incorporate the use of the main diagnostic algorithms in making the most clinically prevalent clinical judgments”

04

Educational Plan

The TECH Internship Program consists of an on-site and intensive stay in a state-of-the-art hospital institution. In this center, the physician will develop a holistic update on the main developments in the field of Endocrinology. At all times they will be guided by experts of high prestige and will be supported by an assistant tutor who will closely monitor their academic progress.

In this completely practical internship program, the activities are aimed at developing and perfecting the skills necessary to provide an advanced approach to endocrinological pathologies and are oriented towards specific qualification for the practice of this medical activity from the direct care of real patients.

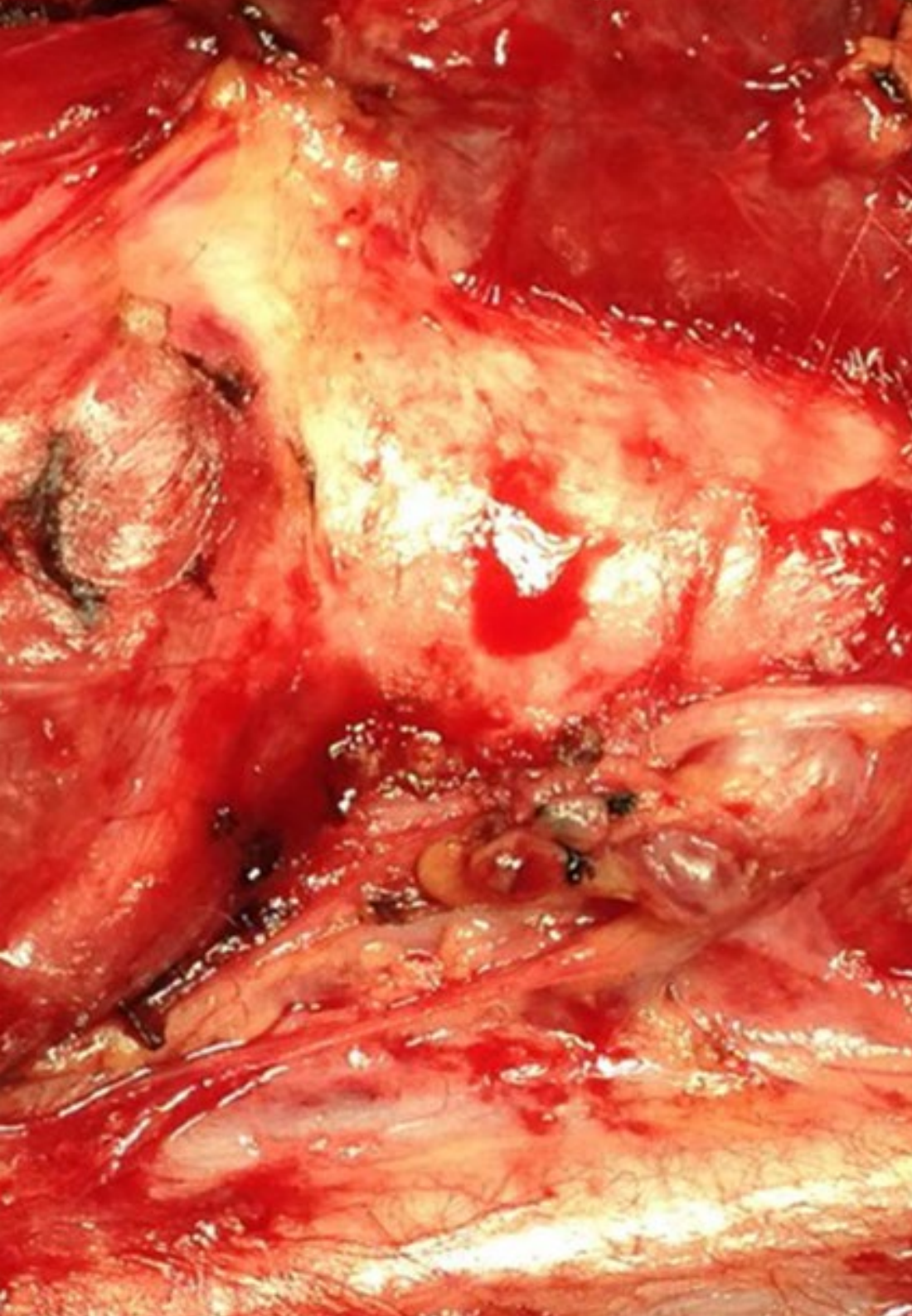
This opportunity, unique in its kind, will be extended for 3 weeks, from Monday to Friday, for 8 consecutive hours. From this clinical internship, the student will be up-to-date on the main innovations of this specialty and, at the same time, will be able to apply them in their daily professional practice with immediacy.

The practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of knowledge (learning to learn and learning to do), with the accompaniment and guidance of teachers and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for the medical practice (learning to be and learning to relate).

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:



Receive specialized education in an institution that can offer you all these possibilities, with an innovative academic program and a human team that will help you develop your full potential"



Module	Practical Activity
Approach to the Endocrine System: Hypothalamus, Pituitary, Thyroid Gland, Parathyroid and Autoimmune Pathologies	Perform blood osmolality test in patients with inadequate ADH secretion
	Apply follicle-stimulating hormone (FSH) blood test to diagnose Hypopituitarism
	Indicate inhibition test with dexamethasone to identify or rule out pituitary tumors
	Develop ultrasound and radioactive iodine uptake test to diagnose Hyperthyroidism
	Implement parathyroid hormone (PTH) blood testing in patients with evidence of parathyroid disease
Intervention of Obesity, Metabolic Syndrome, Dyslipidemia, Intermediate Metabolic and Bone Metabolism Disorders	Advanced calculation of the patient's muscle mass index
	Perform arterial blood gases for the assessment of the metabolic state of the body
	Apply blood methylmalonic acid test to determine vitamin B12 deficiency or Methylmalonic Acidemia
	Assess more up-to-date criteria for indication of Gastric Bypass Surgery in cases of Morbid Obesity
Latest Trends in Diabetes Mellitus	Use laser treatments to reduce retinal inflammation in patients with Diabetic Retinopath
	Treatment with anti-VEGF and other corticosteroids in patients with diabetic retinopathy
	Apply Insulinotherapy using a continuous subcutaneous infusion insulin pump
	Indicate oral therapy with basal insulin including long-acting and short-acting tablets
	Measure the evolution of the diabetic patient with the mixture of intermediate-acting insulins (NPH) with regular rapid-acting analogues in different proportions
Clinical Nutrition and Dietetic Techniques	Assess the patient for percutaneous endoscopic gastrostomy procedures
	Apply jejunostomy tubes to patients with artificial nutrition needs
	Identify dermatitis herpetiformis, resulting from celiac disease and differentiate it from other skin lesions
	Utilize skin biopsies to identify different disorders such as celiac disease
Endocrine Emergencies	Diagnosing the patient in myxoedematous coma
	Trace multidisciplinary intervention strategies for Hypercalcemia and Hypocalcemia
	Comprehensive follow-up of patients with Diabetic Ketoacidosis
	Early detection of signs of Pituitary Apoplexy

05 Where Can I Do the Internship Program?

TECH has chosen several prestigious centers in the hospital field for this 100% practical and on-site study modality. The endocrinologist will have access to them for 3 weeks, from Monday to Friday, to complete 120 educational hours. In these institutions, their learning will be guided by an expert of prestige, in charge of making them acquire the most requested skills by the health environment with respect to this medical area.



Enroll in this Internship Program and you will have access to first-class hospital centers, focused on Endocrinology”





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



Medicine

Hospital HM Modelo

Country: Spain City: 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 HM Rosaleda

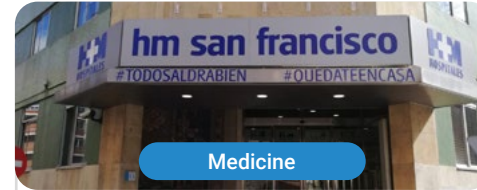
Country: Spain City: La Coruña

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: Spain City: 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: Spain City: 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: Spain City: 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: Spain City: 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: Spain City: 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: 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	City
Spain	Madrid

Address: Calle de Oña, 10, 28050, Madrid

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

Related internship programs:

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

Hospital HM Nuevo Belén

Country	City
Spain	Madrid

Address: Calle José Silva, 7, 28043, Madrid

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

Related internship programs:

- General and Digestive System Surgery
- Clinical Nutrition in Medicine



Medicine

Hospital HM Puerta del Sur

Country	City
Spain	Madrid

Address: Av. Carlos V, 70, 28938, Móstoles, Madrid

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

Related internship programs:

- Palliative Care
- Clinical Ophthalmology



Medicine

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 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 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



Medicine

Policlínico HM Sanchinarro

Country: Spain
City: Madrid

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

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

Related internship programs:

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



Medicine

Policlínico HM Imi Toledo

Country: Spain
City: Toledo

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

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

Related internship programs:

- Electrotherapy in Rehabilitation Medicine
- Hair Transplantation

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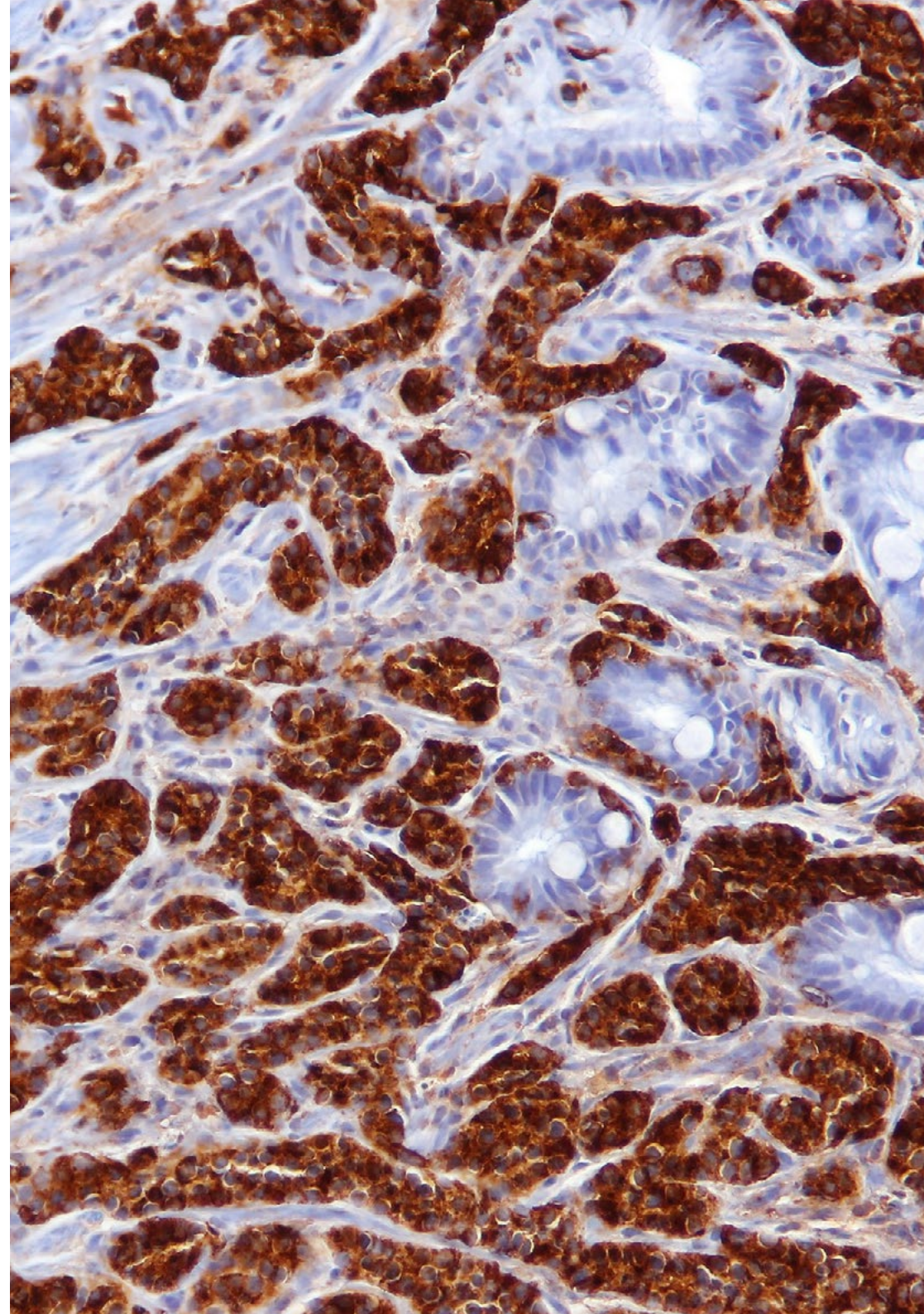
General Conditions

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 Update on Endocrinology** 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 Update on Endocrinology**

Duration: **3 weeks**

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

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



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