Internship Program
Update in Intensive Care Medicine

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Index

01
Introduction
p. 4

02
Why Study an Internship Program?
p. 6

03
Objectives
p. 8

04
Educational Plan
p. 10

05
Where Can I Do the Internship Program?
p. 12

06
General Conditions
p. 16

07
Certificate
p. 18

01

Introduction

Intensive Care Medicine is the specialty that takes on the challenge of treating the most critically ill patients. To save their lives, it is necessary to use the latest technology, employ the most effective drugs and have a well-trained team of professionals capable of making decisions based on current scientific evidence. For this reason, TECH has created this program, which will allow the student to carry out a practical stay of 3 weeks in a prestigious medical center to have access to real cases with patients with different pathologies. All this, together with a work team formed by the best professionals in Intensive Care Medicine, in order to obtain the most updated skills in this field.

Manage the most updated tools in Intensive Care Medicine through this unique and 100% practical experience offered by TECH"

Technology has made a significant improvement in the world of Intensive Care Medicine. In this line, it has made possible an intensification in the diagnostic knowledge and treatment of patients with severe and critical pathologies. Thus, in recent times, new techniques have emerged for monitoring patients and the use of devices such as ECMO has increased, which significantly increase the chances of saving people's lives. It is therefore essential for physicians to be able to respond adequately to these developments with the most up-to-date scientific and technological knowledge.

For these reasons, TECH has created this Internship Program, unique in the academic market due to its 100% practical nature and the real applicability of the knowledge acquired. During 3 weeks, the student will have access to a hospital center of relevant prestige, where they will observe real cases with patients with different pathologies. Thus, you will master the updated recommendations for the practice of advanced CPR or learn how to manage patients requiring extrarenal depuration techniques in the ICU. Likewise, they will implement in his/her practice the close and respectful accompaniment strategies needed by the patient and his/her family, obtaining communication skills to give both good and bad news.

All this, integrated in a multidisciplinary work team that will allow the professional to incorporate the latest procedures in this field into his work methodology. In addition, your hospital stay will be guided by a private tutor, who will be in charge of ensuring that your practical knowledge meets your proposed expectations. Therefore, this Internship Program will enable the student to develop, with real patients and in a hospital with state-of-the-art resources, the maximum potential and update their skills in the area of Intensive Care Medicine.

02

Why Study an Internship Program?

The constant updating of their knowledge is the main obligation for medical professionals to perform their activity with maximum efficiency. Thus, these experts need to have the necessary tools to put into practice the latest theoretical contents in their area. For this reason, TECH has created a completely exclusive academic product, which will allow the student to integrate for 3 weeks in a hospital environment to master the most updated techniques and procedures in Intensive Care Medicine. During 120 hours of learning, you will have access to a work team made up of the best specialists in the field to acquire practical skills that are fully applicable in your day-to-day work.

> *This academic program will give you access to a hospital environment where, surrounded by the best specialists in Intensive Care Medicine, you will acquire the most up-to-date skills with the greatest daily applicability in this field"*

1. Updating from the latest technology available

The area of Intensive Care Medicine has undergone a great revolution in recent years due to advances in neurological monitoring techniques, in the treatment of pathologies such as sepsis or in the management of CPR. For this reason, TECH has created this academic program, with the intention of providing the professional with the most updated methods in this branch of medicine.

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

The extensive team of qualified specialists who will accompany students during their practical experience is a guarantee of the quality of the program. With a specifically designated tutor, the student will have access to real patients in a state-of-the-art environment, which will allow him/her to incorporate the most updated procedures and techniques in Intensive Care Medicine into his/her work routine.

3. Entering first-class hospital environments

TECH carefully selects all available centers for Internship Programs. As a result, the specialist will have access to a prestigious clinical environment in the field of Intensive Care Medicine. In this way, you will see the day-to-day work of a demanding, rigorous and exhaustive area, always applying the latest theses and scientific postulates in its work methodology.

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

The academic field is full of educational programs focused exclusively on the teaching of theoretical contents with little real applicability for professionals. However, TECH provides an innovative learning model, 100% practical, which will allow the expert to apply the latest procedures and techniques in Intensive Care Medicine in only 3 weeks.

5. Expanding the Boundaries of Knowledge

TECH offers the possibility of carrying out this Internship Program in centers of international importance. This way, the specialist will be able to expand their frontiers and catch up with the best professionals, who practice in first class centers and in different continents. A unique opportunity that only TECH could offer to its students.

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

03
Objectives

The general objective of this Internship Program is to ensure that the professional updates the procedures for the treatment of patients in the ICU in an exclusively practical way, through a stay in a first level hospital center, under the guidance of recognized professionals in this field.

General Objectives

- Ensure optimal care for the critically ill patient
- Address the stabilization, diagnosis and treatment of patients who routinely require intensive care, with a current and evidence-based approach

TECH offers you the opportunity to integrate for 120 hours in a real working environment to assimilate the latest practical developments in Intensive Care Medicine"

Specific Objectives

- To perfect the skills necessary for the cardiovascular monitoring of the critically ill patient, for the use of diagnostic means and the treatment of the most frequent and relevant pathologies that affect the hemodynamic status of the patient
- Discuss specific topics in order to provide answers to some therapeutic problems of special relevance at the present time
- Perform excellent cardiopulmonary resuscitation according to current criteria, reviewing new developments introduced in the latest clinical guidelines
- Delve into the management of patients requiring respiratory support
- Perform management of the patient with severe infection, with special attention to sepsis and infectious pathologies that most frequently require admission to the ICU
- Address the management of patients requiring extrarenal depuration techniques in ICU, with special attention to the use of citrate in continuous techniques
- Monitor the neurocritical patient, as well as for the management of some of the severe neurological pathologies that are most frequently admitted to an Intensive Care Unit
- Practice the management of the severe trauma patient, from initial assessment, to fluid management, vasoactive support, coagulopathy and more specific situations such as management of cranioencephalic, thoracic and abdominal trauma
- Offer the critically ill patient adequate nutritional support, as well as for the management of glycemia and some of the endocrinometabolic pathologies that most frequently require admission to the ICU
- Acquire the most updated and necessary skills for the process of organ donation and transplantation in which the physician specialized in Intensive Care Medicine is involved

04
Educational Plan

The Internship Program's Internship Program consists of a practical stay in a prestigious clinical center, lasting 3 weeks, from Monday to Friday with 8 consecutive hours of work with an associate specialist. This phase will allow you to see real patients alongside a team of reference professionals in the intensive care unit, applying the most innovative diagnostic procedures.

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.

It is, without a doubt, an opportunity to learn by working in the innovative hospital of the future where real-time health monitoring of patients is at the center 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 professional medical competencies for the 21st century.

The practical teaching will be carried out with the active participation of students performing the activities and procedures of each area of competence (learning to learn and learning to do), accompanied and guided by professors and other fellow trainees, which will facilitate teamwork and multidisciplinary integration as transversal competences for the praxis of Intensive Care Medicine Medicine (learning to be and learning to relate).

The procedures described below will form the basis of the practical part of the training, and their completion 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 cardiovascular disorders and updated techniques of respiratory management and cardiopulmonary resuscitation in intensive care medicine	Measure CVP and perform hemodynamic monitoring and interpretation of the resting digital electrocardiogram
	To manage, according to the latest clinical advances, Acute Coronary Syndrome
	Address the different types of shock in the area of Intensive Care Medicine
	Indicate and administer new vasoactive and antiarrhythmic drugs
	Managing postreanimation syndrome
	Addressing postresuscitation neurological damage after cardiovascular resuscitation
	Apply updated methods of invasive mechanical ventilation, using the latest ventilators and their new modalities and ventilatory parameters
	Perform respiratory monitoring of the patient by electrical impedance tomography
Neurological management procedures in the critically ill patient and approach to infectious pathology	Undertake advanced monitoring tasks in the neurocritical patient, using tools such as transcranial Doppler, imaging tests (CT and MRI) and continuous BIS and EEG
	Perform sedation, analgesia and relaxation according to the latest scientific advances in this area
	Approach stroke by using the most updated protocols of the Stroke Code
	To manage, according to the latest clinical postulates, intraparenchymal hemorrhage
	Apply the Sepsis Code, using specific biomarkers in patients with this condition
Techniques and indications in nutrition and metabolism, and renal and digestive management of the critically ill patient	Apply probes in the digestive bleeding of the critically ill patient
	Manage acute pancreatitis, acute liver failure and acute and chronic hepatic encephalopathy in the critically ill patient
	Measure intra-abdominal pressure in the critically ill patient
	Assess and apply artificial nutrition to the patient susceptible to receive it in the ICU
	Addressing diabetic ketoacidosis and hyperosmolar states in the critically ill patient
	Apply continuous extrarenal depuration techniques in the ICU
Management of trauma and organ donation and transplantation in Intensive Care Medicine	Apply the latest ATLS protocols
	ICP monitoring in the critically ill trauma patient
	Manage thoracic, abdominal and cranial trauma in the critically ill patient
	Specific approach to the polytraumatized patient
	Diagnosing brain death using the portable minigammacamera
	Manage organ donation and manage, according to updated procedures, the donor

05

Where Can I Do the Internship Program?

In order to ensure that the professional updating process is excellent, TECH proposes the realization of this on-site stay in a prestigious center that can provide the physician with the latest advances in the field of intensive care medicine, accompanied by the best specialists in this field.

The most up-to-date skills in the field of Intensive Care Medicine await you in this Internship Program"

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

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

Hospital Maternidad HM Belén

Country: Spain
City: 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

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

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

Hospital HM Montepríncipe

Country: Spain
City: 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: 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

Hospital HM Sanchinarro

Country: Spain
City: Madrid

Address: Calle de Oña, 10, 28050, Madrid

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

Related internship programs:
- Anaesthesiology and Resuscitation
- Palliative Care

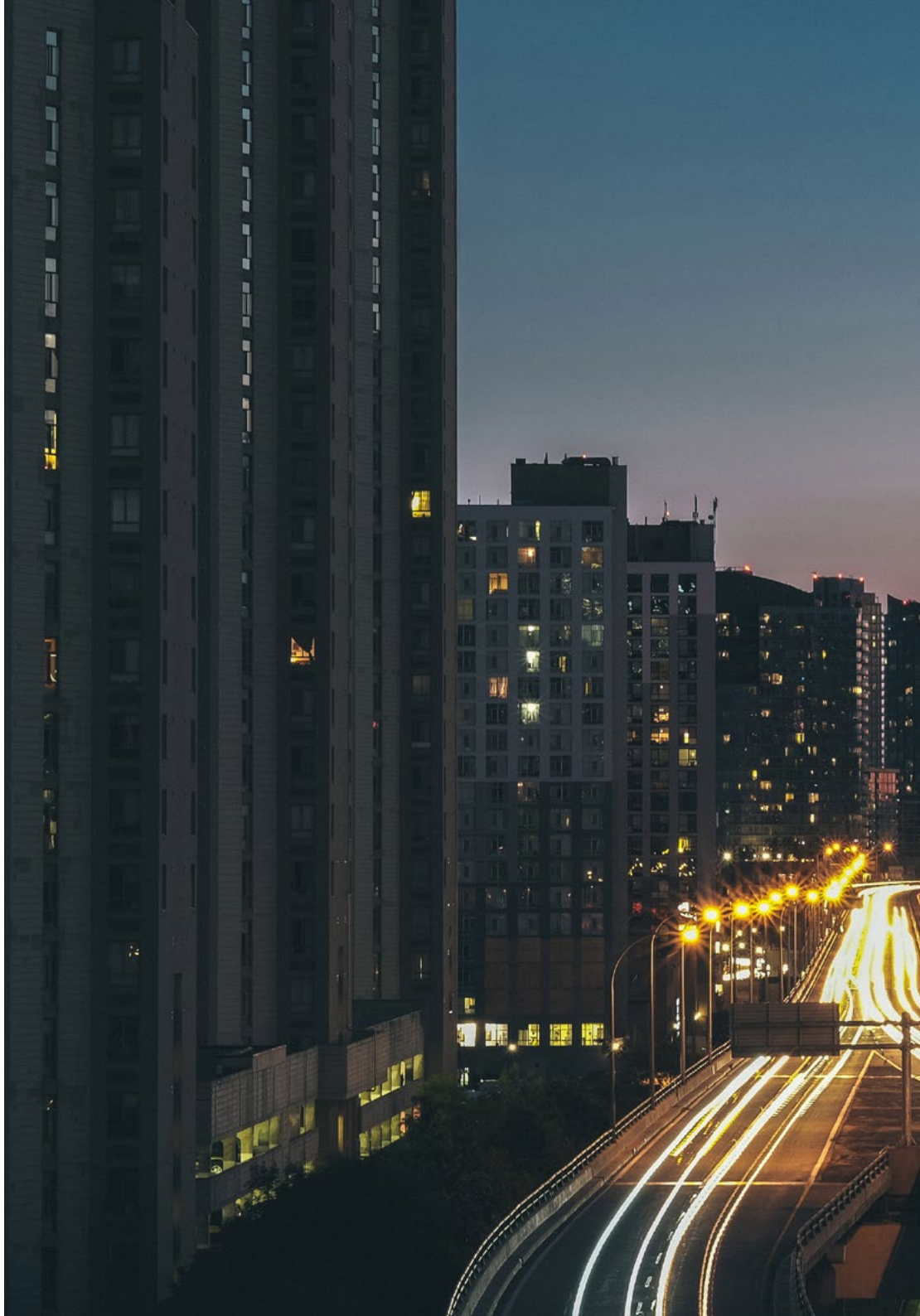
Hospital HM Puerta del Sur

Country: Spain
City: 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



Sanatorio Galeno

Country
Argentina

City
Tucumán

Address: Av. Manuel Belgrano 2970, San Miguel de Tucumán

General medical clinic offering outpatient care, hospitalization and surgery

Related internship programs:
Update in Anesthesiology and Resuscitation
- Update in Intensive Care Medicine

Sanatorio Central

Country
Argentina

City
Tucumán

Address: Av. Mitre 268, T4000
San Miguel de Tucumán, Tucumán

Sanatorium of General Medicine, hospitalization, diagnosis and treatment

Related internship programs:
- Advanced Operating Room Nursing
Pediatric Nursing

Grupo Gamma

Country
Argentina

City
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

Hospital Italiano La Plata

Country
Argentina Z

City
Buenos Aires

Address: Av. 51 Nº 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

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 Update in Intensive Care Medicine** 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.

Program: **Internship Program in Update in Intensive Care Medicine**

Duration: **3 weeks**

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

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

tech technological university

Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.

For having successfully passed and accredited the following program

INTERNSHIP PROGRAM

in

Update in Intensive Care Medicine

This is a qualification awarded by this University, with a duration of 120 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

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