Internship Program Update in Anesthesiology and Resuscitation





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## 01 Introduction

Anesthesiology and Resuscitation is a branch of medicine that has experienced countless advances in recent years. Thus, anesthetic procedures for childbirth and methods for treating patients in a neurocritical state have evolved, with the aim of achieving maximum safety and avoiding adverse effects in operations. Therefore, the professional in this field must know and know how to apply all these updates to enhance their medical practice. Because of this, TECH has created a program that will allow the student to spend 3 weeks in a prestigious hospital to have access to real cases. In this way, the expert will be part of an excellent work team that will provide him/her with the necessary tools to meet the current needs of this sector.

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The Internship Program in Anesthesiology and Resuscitation Update will allow you to join an excellent work team to learn how to apply the most updated anesthetic procedures in all phases of childbirth"





Anesthesiology and Resuscitation, as a medical specialty, has reached an important development in recent years. Pharmacological and biotechnological advances, intraoperative and postoperative monitoring, novel imaging techniques and new safety paradigms, as well as subspecialization by specific areas, have contributed decisively to this transformation. Therefore, progress in surgery requires the adaptation of anesthesia and resuscitation techniques according to the new reality, but the speed at which these are produced and the number of scientific papers published every day on new procedures make it impossible for the specialist to reconcile the update with his clinical practice. Because of this, TECH has created a program that will allow the student to achieve this objective in a 100% practical way in only 3 weeks.

During 120 hours, the professional will have access to a highly prestigious medical center, where he/she will observe and learn the most updated techniques in Anesthesiology and Resuscitation, integrated in a work team of excellent level. Throughout this stay, you will master state-of-the-art strategies to minimize stress and anxiety during induction of anesthesia in patients of various ages. You will also increase your practical knowledge in anesthesia for neuroendoscopic surgery or handle updated procedures for vascular operations.

Throughout his practical stay, the student will be accompanied by a specific tutor, who will be responsible for monitoring his learning and resolving any doubts that may arise during these 3 weeks of work. For all these reasons, this program offers an excellent opportunity for experts to optimize their skills and boost their professional growth based on the current needs in Anesthesiology and Resuscitation.

## 02 Why Study an Internship Program?

The constant updating of their knowledge is a must for medical professionals to perform their work with maximum efficiency and safety. However, the theoretical contents learned must be transferred to practice in order to master their applicability in real life. With this objective, TECH has developed a pioneer academic product in the market, which will allow the expert to enter a first level hospital environment to adopt new skills in Anesthesiology and Resuscitation and incorporate them into their daily practice. Over the course of 3 weeks, the student will be integrated into a large work team, where they will assimilate the best skills adapted to the needs of the sector.

This TECH program will allow you to enter a state-of-the-art medical environment to apply the most upto-date knowledge in Anesthesiology and Resuscitation in a real field"

#### 1. Updating from the latest technology available

The field of Anesthesiology and Resuscitation has evolved significantly in recent years due to the emergence of new methods for painless and safe labor and surgery. For this reason, TECH has created this Internship Program, with the objective of introducing the professional to a state-of-the-art hospital environment and allowing him/her to be updated 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 an environment equipped with state-of-the-art technologies, which will allow him/her to incorporate the most updated procedures and techniques in Anesthesiology and Resuscitation into his/her work routine.

#### 3. Entering First-Class Clinical Environments

TECH carefully selects all available centers for Internship Programs. Thanks to this, the specialist will have access to a prestigious clinical environment in the area of Anesthesiology and Resuscitation. 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

In the academic field, there are a multitude of pedagogical programs oriented towards theoretical learning characterized by their hermeticism and their incompatibility with personal and professional life. In view of this, TECH has created an innovative and completely practical learning model, which will allow the professional to apply the new knowledge in Anesthesiology and Resuscitation in a real environment 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.

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

## 03 **Objectives**

The general objective of this program is to ensure that the professional updates working procedures in Anesthesiology and Resuscitation 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.



### **General Objectives**

- Update the practical knowledge of the specialist in the different medical-surgical subspecialties of this discipline, through evidence-based medicine
- Promote work strategies based on a perioperative approach of the patient and multimodal rehabilitation as a reference model for achieving excellent care







### **Specific Objectives**

- Analyze the implication of anesthesiology in perioperative medicine, its contributions and interest
- Review the new drugs included in the anesthetic therapeutic arsenal, including antiplatelet and anticoagulant drugs, as well as the new hemostatic monitoring systems
- Master new strategies for hemodynamic management
- Manage the use of the airway in different types of patients
- Identify the phases of Rapid Sequence Intubation (RSI)
- Learn the new invasive and non-invasive mechanical ventilation modalities
- Acquire practical knowledge that facilitates the approach to the different techniques of regional anesthesia
- Estimate perioperative risks (cardiovascular, respiratory, neurological, renal)
- Knowledge comprehensive perioperative management of cardiovascular procedures in pediatric patients
- Review the basic fundamentals in the anesthetic management of congenital heart disease
- Master new anesthetic approaches in neonatal and infant surgery

## 04 Educational Plan

The Internship Program consists of a 3-week practical stay, from Monday to Friday, with 8 consecutive hours of work with an assistant specialist. This stay will allow the physician to deal with real patients alongside a team of reference professionals in the area of anesthesia, resuscitation and pain therapy, applying the most innovative procedures in this field.

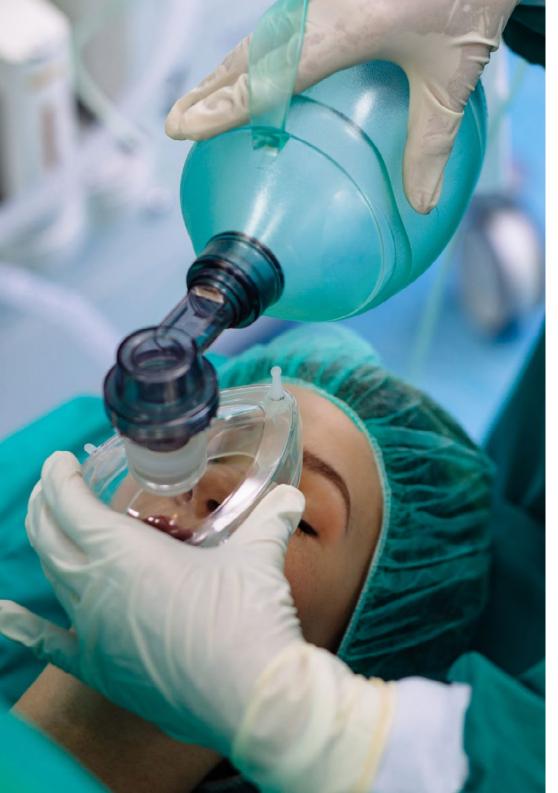
In this completely practical Internship Program, the activities are aimed at developing and perfecting the skills necessary to provide healthcare care in areas and conditions that require highly qualified professionals, and are oriented towards specific expertise for practicing the activity, in a safe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

It is certainly an opportunity to learn by working in the innovative hospital of the future, where the application of up-to-date techniques and the use of new anesthesiology drugs are crucial to ensure the safety of patients during operations. 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 (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
Advanced techniques in anesthesiology and	Apply hemodynamic optimization strategies and goal-directed fluid therapy
	Addressing and monitoring perioperative hemorrhage
	Manage the new antiplatelet and anticoagulant drugs, knowing their scope of application and their implication in anesthetic practice
	Perform psychological assessment of the pain patient, applying specific psychological intervention and treatment techniques
pain therapy	Pain management in palliative care and/or oncologic pain patients
	Apply the most advanced techniques of regional anesthesia in those interventions that require it
	Evaluate and approach anesthesia in the pediatric patient, taking into account the specific management in each age range
	Use transesophageal echocardiography to measure cardiac activity, assessing the effectiveness of resuscitation
Procedures in the indication and application of cardiovascular and	Monitor the patient during the process of extracorporeal circulation, making an adequate application of anesthesia to maintain stable heart rate and blood pressure, among other clinical parameters
	Apply, following the latest medical postulates, anesthesia in patients undergoing cardiovascular surgery and other non-surgical cardiovascular procedures
thoracic anesthesia	Comprehensive management of the patient undergoing cardiac transplantation
	Perform lung ultrasound in thoracic surgery
Obstetric, digestive and urological anesthesia techniques	Applying anesthesia during childbirth to the pregnant mother
	Perform CPR on the pregnant woman to prevent possible complications during delivery
	Assessment and application of anesthesia during cesarean section
	Manage the anesthetic process in liver transplant surgery
	Specifically address anesthesia in digestive surgical procedures such as colon and rectal surgery, pancreatic surgery and bariatric, hepatic and esophagogastric surgery
	Perform anesthetic application in specific urological surgeries
Procedures in neuronaesthesia	Perform multimodal neuromonitoring intraoperatively and in critically ill patients
	Apply pharmacological measures in brain protection
	Manage through the anesthetic procedure the patient undergoing neuroendoscopic surgery
	Address the application of anesthesia in the critical care patient with neurovascular pathology
	Perform anesthetic management in interventional neuroradiology

## 05 Where Can I Do the Internship Program?

To ensure that the updating process is the best possible, TECH proposes the realization of this practical stay in a prestigious center that can provide the physician with the latest advances in the field of anesthesiology. It is, therefore, a unique opportunity to learn by working with the best professionals.

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The most advanced knowledge in the field of obesity awaits you in this Internship Program"



#### Update in Anesthesiology and Resuscitation | 13 tech

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

City

Madrid



#### **Hospital Fuensanta**

Country Spain

Management: C. de Arturo Soria, 17, 28027 Madrid

Clinical center with medical services in multiple specialties

Related internship programs: Nursing Management - Nursing in the Digestive Tract Department



#### Hospital HM Modelo

Country City Spain La Coruña

Management: 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

Management: 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 Rosaleda

Country City Spain La Coruña

Management: 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 La Esperanza

Country	City
Spain	La Coruña

Management: Av. das Burgas, 2, 15705, Santiago de Compostela, A Coruña

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

Related internship programs: Oncology Nursing - Clinical Ophthalmology



#### Hospital HM San Francisco

Country	City
Spain	León

Management: 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



#### Hospital HM Regla

City

León

Country		
Spain		

Management: 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	City
Spain	Barcelona

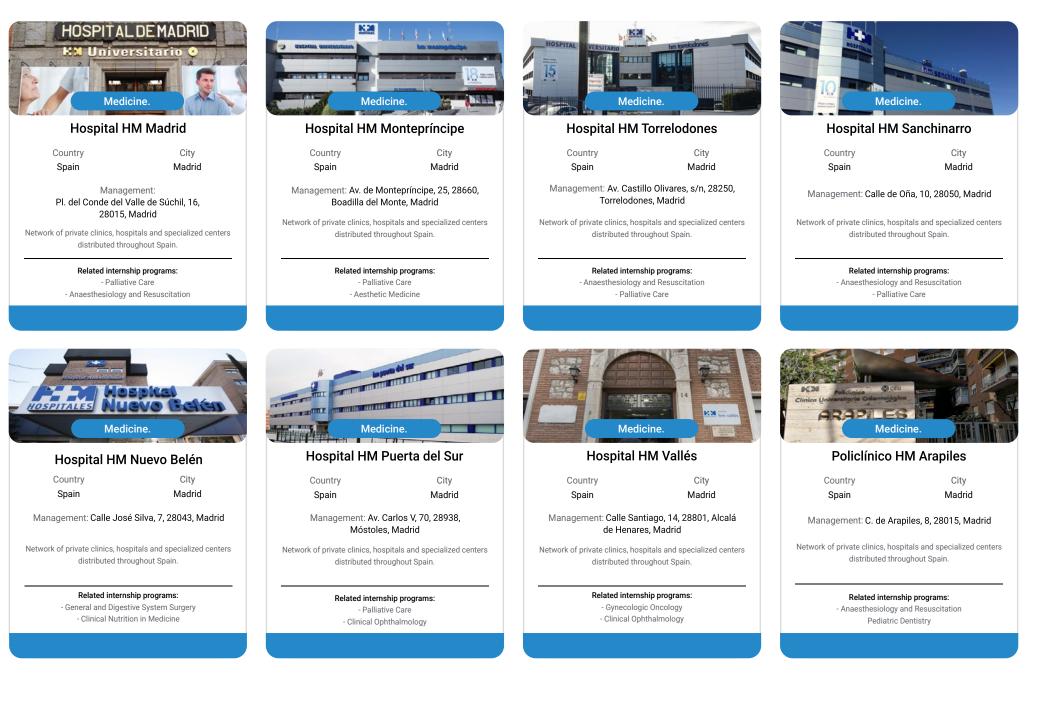
Management: Avinguda de Vallcarca, 151, 08023 Barcelona

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

Related internship programs: - Aesthetic Medicine - Clinical Nutrition in Medicine

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Country

Spain



Policlínico HM Imi Toledo City Country Toledo Spain

Management: 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



Centro Médico Vithas Alzira

Country City Spain Valence

Management: Gran Via Comunitat Valenciana, 4, 46600 Alzira

Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas Castellón

Spain

Country City Castellón

Management: Calle Santa Maria Rosa Molas, 40, 12004 Castellón de la Plana

Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas El Ejido

Management: Avenida Ciavieja, 15, 04700 El Ejido

City

Almería

Leading group in the Spanish healthcare sector

Related internship programs: Update in Anesthesiology and Resuscitation - Implantology and Oral Surgery



#### Centro Médico Vithas Fuengirola

City

Malaga

Country	
Spain	

Management: Avenida de Ramón y Cajal, s/n, 29640 Fuengirola

Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas Granada

Country City Spain Granada

Management: Plaza Ciudad de los Cármenes, Bajo B, s/n, 18013 Granada

Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas La Rosaleda

Country	City
Spain	Malaga

Management: Paseo Martiricos, Estadio de Fútbol La Rosaleda s/n, 29011 Málaga

Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas Limonar

Country	City
Spain	Malaga

Management: Calle la Era, 6, 29016 Málaga

Leading group in the Spanish healthcare sector

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#### Centro Médico Vithas Lleida

Country City Spain Lérida

Management: Avenida de Tortosa 4, 25005 Lleida Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas Nerja

Country City Spain Malaga

Management: Calle Antonio Ferrandis, 'Edificio Chanquete', 5, 29780 Málaga Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas Playa Serena

Country City Spain Almería

Management: Avenida de Playa Serena, 40, 04740 Roquetas de Mar

Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas Pontevedra

Country City Spain Pontevedra

Management: Avenida Eduardo Pondal, 68, 36003 Pontevedra

Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas Rincón de la Victoria

Country	City
Spain	Malaga

Management: Avenida de la Torre, 15, 29730 Rincón de la Victoria Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas Sevilla

Country	City
Spain	Seville

Management: Calle Enramadilla, 8, 41018 Sevilla

Leading group in the Spanish healthcare sector

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



#### Centro Médico Vithas Torre del Mar

Country	City
Spain	Malaga

Management: Calle San Andrés, 23, 29740 Torre del Mar Leading group in the Spanish healthcare sector

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

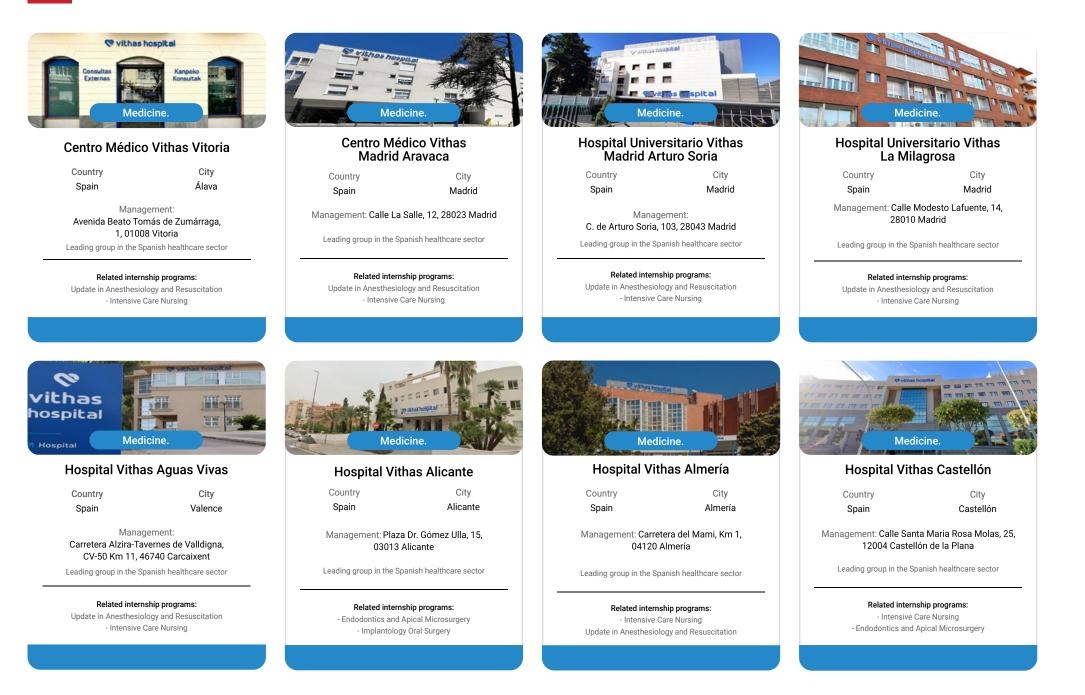


#### Centro Médico Vithas Torremolinos

Country	City
Spain	Malaga

Management: Calle Hoyo, 15, 29620 Torremolinos

Leading group in the Spanish healthcare sector



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Granada



#### Hospital Vithas Granada Country City

Spain

Management: Avenida de Santa María de la Alhambra, 6, 18008 Granada

Leading group in the Spanish healthcare sector

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



#### **Hospital Vithas Las Palmas**

Country City Spain Las Palmas

Management: Calle León y Castillo, 292, 35005 Las Palmas de Gran Canaria

Leading group in the Spanish healthcare sector

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



#### **Hospital Vithas Lleida**

Country City Spain Lérida

Management: Calle Bisbe Torres, 13, 25002 Lleida

Leading group in the Spanish healthcare sector

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



#### Hospital Vithas Málaga

Country Spain City Malaga

Management: Avenida Pintor Sorolla, 2, 29016 Málaga

Leading group in the Spanish healthcare sector

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



#### Hospital Vithas Medimar

Country	City
Spain	Alicante

Management: Avenida de Dénia, 78, 03016 Alicante

Leading group in the Spanish healthcare sector

Related internship programs: - Gynecologic Oncology - Intensive Care Nursing



#### Hospital Vithas Sevilla

Country	City
Spain	Seville

Management: Avenida Plácido Fernández Viagas, s/n, 41950 Castilleja de la Cuesta

Leading group in the Spanish healthcare sector

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



#### **Hospital Vithas Tenerife**

Country	City
Spain	Santa Cruz de Tenerife

Management: Calle Enrique Wolfson, 8, 38006 Santa Cruz de Tenerife

Leading group in the Spanish healthcare sector

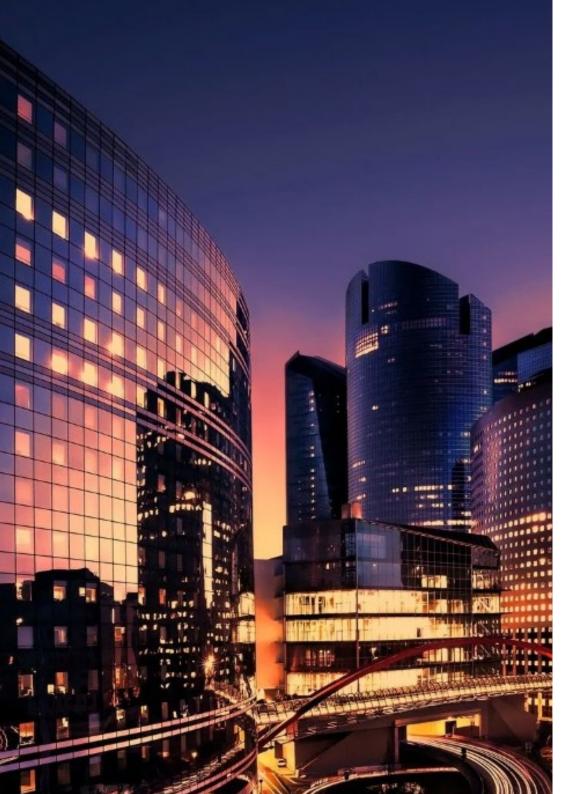
Related internship programs: Update in Anesthesiology and Resuscitation Esthetic Nursing



#### Hospital Vithas Valencia 9 de Octubre

Country	City
Spain	Valence

Management: Calle Valle de la Ballestera, 59, 46015 Valencia Leading group in the Spanish healthcare sector



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#### Hospital Vithas Valencia Consuelo

Country City Spain Valence

Management: Calle Callosa d'En Sarrià, 12, 46007 Valencia

Leading group in the Spanish healthcare sector

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



#### **Hospital Vithas Vigo**

City

Country Spain Pontevedra

Management: Via Norte, 48, 36206 Vigo

Leading group in the Spanish healthcare sector

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



#### **Hospital Vithas Vitoria**

Country	City
Spain	Álava

Management: Calle Beato Tomás de Zumárraga, 10, 01008 Vitoria-Gasteiz

Leading group in the Spanish healthcare sector

Related internship programs: - Endodontics and Apical Microsurgery - Implantology Oral Surgery



#### Hospital Vithas Xanit Internacional

Country	City
Spain	Malaga

Management: Avenida de los Argonautas, s/n, 29631 Benalmádena

Leading group in the Spanish healthcare sector

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City



Instituto Oftalmológico Vithas EuroCanarias

Country Spain Las Palmas

Management: Calle León y Castillo, 211, 35005 Las Palmas de Gran Canaria

Leading group in the Spanish healthcare sector

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



Vithas Centro Médico Country City Lérida Spain

Management: Calle de les Astes de Sant Macari, 3, 25300 Tàrrega

Leading group in the Spanish healthcare sector

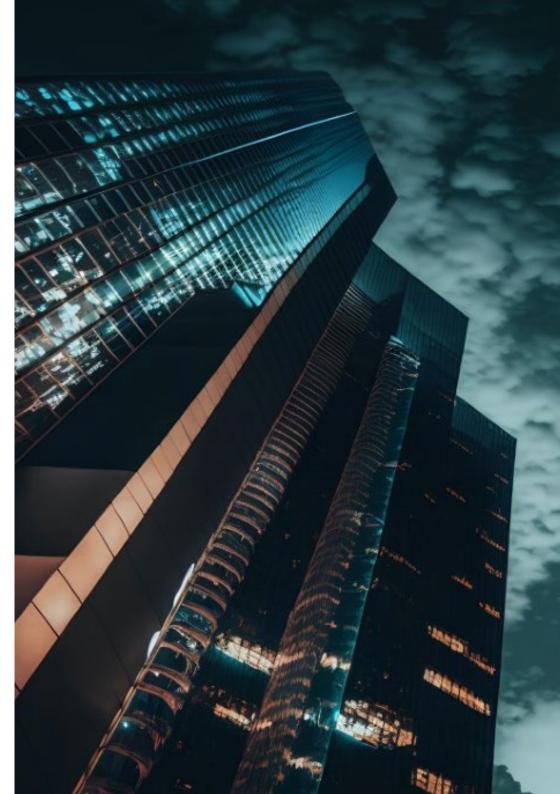
Related internship programs: Update in Anesthesiology and Resuscitation - Intensive Care Nursing

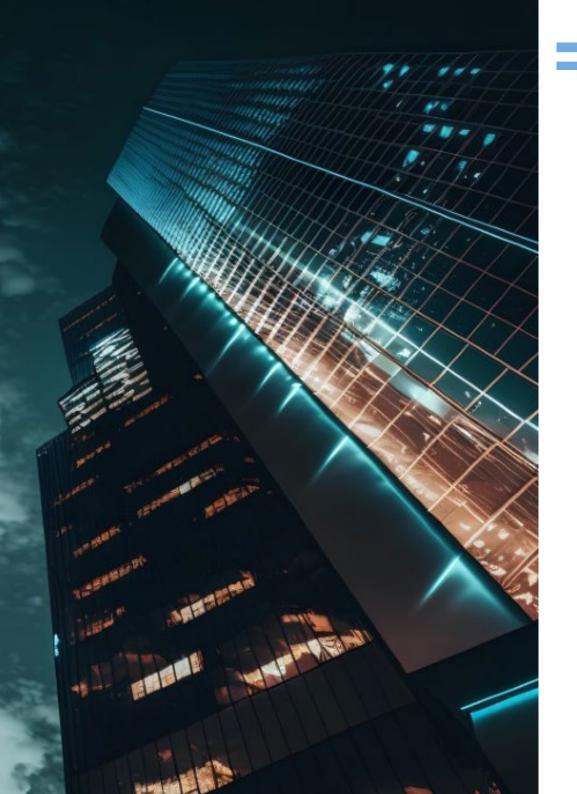


#### Vithas Internacional

Country	City
Spain	Madrid

Management: Calle Arturo Soria, 107, 28043 Madrid Leading group in the Spanish healthcare sector







Grupo Gamma

Country Argentina City Santa Fe

Management: Entre Ríos 330, Rosario, Santa Fe

Polyclinic specialized in various medical specialties

Related internship programs: Update in Anesthesiology and Resuscitation - 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 program agreement shall be 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 program will allow you to obtain your **Internship Program diploma in Update in Anesthesiology and Resuscitation**endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Internship Program in Update in Anesthesiology and Resuscitation

Duration: 3 weeks

Attendance: Monday to Friday, 8-hour consecutive shifts

Accreditation: 5 ECTS





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