

# Hybrid Professional Master's Degree

Update in Anesthesiology  
and Resuscitation





## Hybrid Professional Master's Degree Update in Anesthesiology and Resuscitation

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

60 + 5 ECTS Credits

Website: [www.techtute.com/us/medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-update-anesthesiology-resuscitation](http://www.techtute.com/us/medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-update-anesthesiology-resuscitation)

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# 01

# Introduction

Anesthesiology and Resuscitation is a discipline on which all types of surgical interventions depend. Thus, mastering the existing advances in this area is essential to perform numerous operations with maximum efficiency and guarantee the adequate recovery of the patient. To learn about the latest updates in this field and to be at the medical forefront, TECH has created this academic program. Through a 100% online theoretical teaching, the professional will identify the performance of new anesthetic drugs or expand their skills in the treatment of critically ill patients. In addition, all this knowledge will be put into practice during a 3-week stay in a first level hospital, in order to include these skills in their daily practice.





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*Incorporate the latest advances in anesthesiology and resuscitation into your daily medical practice with this highly scientifically rigorous program”*



Anesthesiology and Resuscitation is an indispensable branch of medicine for performing operations with maximum safety for patients. In this sense, advances in surgery require, in turn, the adaptation of anesthesia techniques based on the current reality. Therefore, in recent years, novel drugs and methods have emerged that promote rapid recovery, minimize postoperative pain and meet surgical needs. Given the immense relevance of these aspects, the updating of knowledge is indispensable for any professional with aspirations of obtaining an excellent career in this branch of Medicine

In view of this situation, TECH has created this Hybrid Professional Master's Degree, with the objective of providing you with the latest updates in the field of Anesthesiology and Resuscitation. Throughout this academic period, the student will detect the application of recent antiplatelet and anticoagulant drugs in anesthetic practice. In the same way, you will master the new techniques of intervention and psychological treatment in the postoperative period or expand your knowledge in regional anesthesia.

The theoretical learning phase is developed in a 100% online mode, which will allow students to manage their own study time as they wish. Therefore, they have the ability to adapt their schedule to their personal needs in order to make their teaching compatible with their personal and work life.

Likewise, the last stage of this program includes an Internship Program that will allow the professional access to a highly prestigious hospital center for 3 weeks. Accompanied at all times by a specific tutor and integrated in a multidisciplinary work team, you will put into practice the theoretical knowledge acquired in this program. As a result, you will gain skills with full applicability in the field of anesthesiology and resuscitation.

This **Hybrid Professional Master's Degree in Update in Anesthesiology and Resuscitation** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Development of more than 100 clinical cases presented by medical professionals specialized in Anesthesiology and Resuscitation
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Identification and characterization of novel drugs used in Anesthesiology and Resuscitation
- ♦ Knowledge of the most effective techniques to apply anesthetics in children or infants
- ♦ Presentation of practical workshops on procedures and techniques
- ♦ Algorithm-based interactive learning system for decision making in various clinical scenarios
- ♦ All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection
- ♦ In addition, you will be able to carry out a clinical internship in one of the best hospitals in the world



*With this Hybrid Professional Master's Degree, you will learn to master advanced procedures and improve your decision-making skills in anesthesiology and resuscitation"*

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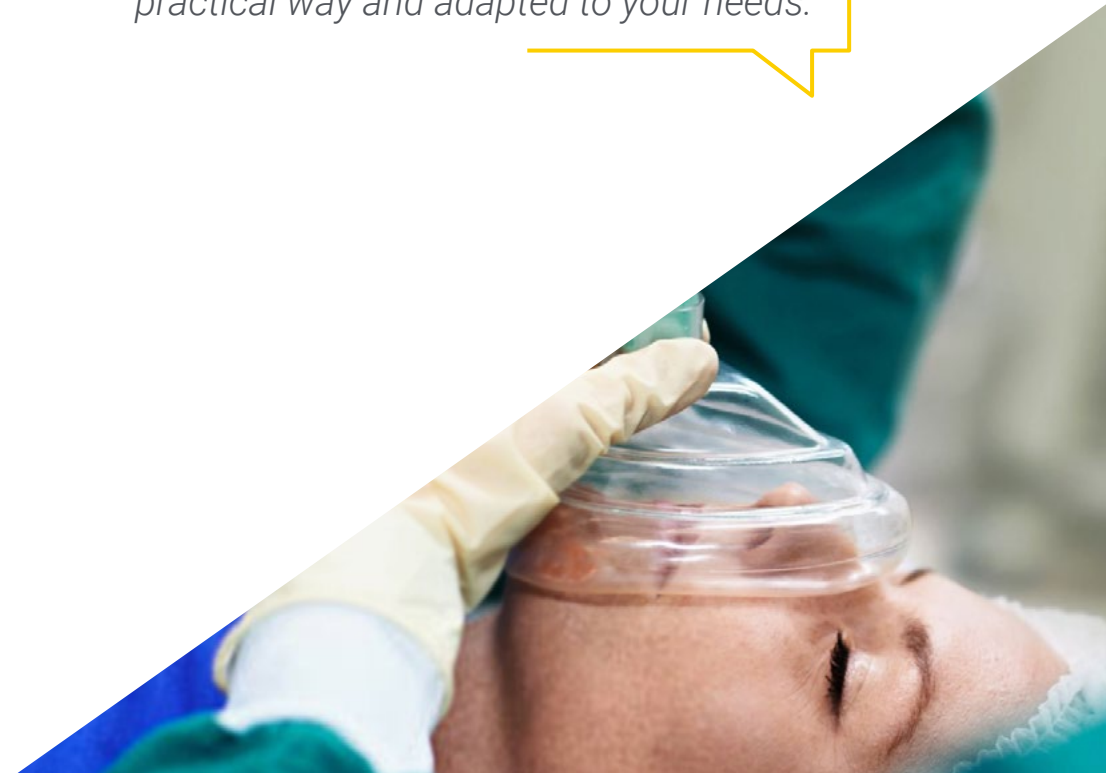
*Add to your online study the realization of clinical practices with the highest standards of quality and technological level in an elite hospital center"*

In this Hybrid Professional Master's Degree proposal, of a professionalizing nature and blended learning modality, the program is aimed at updating medical professionals who perform their functions in the Anesthesiology and Resuscitation unit, and who require a high level of qualification. The contents are based on the latest scientific evidence, and oriented in a didactic way to integrate theoretical knowledge into medical practice, and the theoretical-practical elements will facilitate the updating of knowledge and will allow decision making in patient management.

Thanks to their multimedia content developed with the latest educational technology, they will allow the medical professional a situated and contextual learning, that is, a simulated environment that will provide an immersive learning programmed to train in real situations. This program is designed around Problem-Based Learning, whereby the physician must try to solve the different professional practice situations that arise during the course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*Thanks to this program, you will learn the latest developments in Anesthesiology and Resuscitation from distinguished experts in the field.*

*Update your knowledge through the Hybrid Professional Master's Degree in Anesthesiology and Resuscitation, in a practical way and adapted to your needs.*



02

## Why Study this Hybrid Professional Master's Degree?

In many areas of work, it is not enough to master only the most up-to-date theoretical content to achieve significant growth in that sector. In the world of anesthesiology and resuscitation, it is necessary to know how to put this knowledge into practice. For this reason, TECH has created this innovative program, which will allow the student to combine an excellent theoretical learning with a practical stay of 3 weeks in a relevant hospital, surrounded by the best specialists in the field. Thanks to this, the professional will obtain applicable skills adapted to the needs of this branch of Medicine





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*TECH gives you the opportunity to spend 3 weeks in a real work environment to put into practice all the theoretical knowledge learned throughout this Hybrid Professional Master's Degree"*

### 1. Updating from the latest technology available

The area of anesthesiology and resuscitation has undergone a great revolution in recent years due to the emergence of new methods and drugs for painless labor and surgery with maximum safety for the patient. For this reason, TECH has created this program, with the intention of giving professionals access to a state-of-the-art hospital environment and to help them update their knowledge.

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

This Hybrid Professional Master's Degree is directed and taught by professionals with extensive experience in the field of anesthesiology and resuscitation, who are responsible for developing the didactic content that students will study throughout this program. Because of this, the knowledge you will be offered will be fully applicable in your day-to-day work.

### 3. Entering First-Class Clinical 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 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. Combining the Best Theory with State-of-the-Art Practice

The academic market is full of programs that offer hermetic learning with little real utility for the professional. Faced with this situation, TECH has opted to create a program that combines excellent theoretical education with a practical stage in a prestigious hospital, where the student will apply the knowledge in anesthesiology and resuscitation learned throughout this Hybrid Professional Master's Degree.

#### 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

Both the area of Anesthesiology and Resuscitation are constantly updating their approach strategies for the pre- and postoperative patient. For this reason, medical specialists in this field have to be constantly on the lookout for programs that allow them to keep abreast of new developments in their field. In order to provide you with everything you need to achieve this in a comprehensive, intensive and multidisciplinary way, TECH has launched this Hybrid Professional Master's Degree developed over 12 months of theoretical and practical experience.





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*Throughout the 12 months of this program, you will achieve an enjoyable learning experience that is fully adapted to the professional needs of the medical sector"*

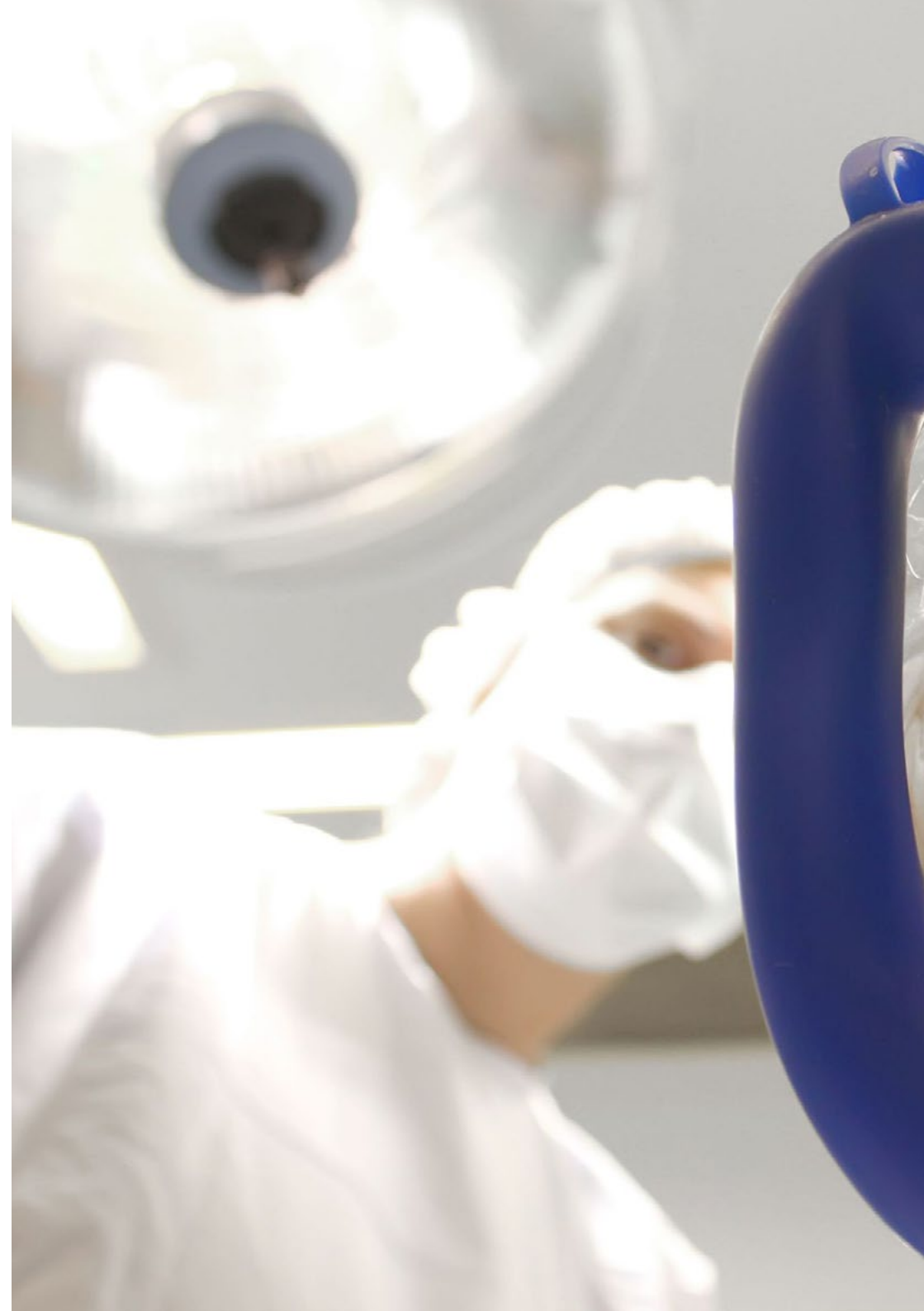




## General Objective

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- For this Hybrid Professional Master's Degree in Anesthesiology and Resuscitation Update, TECH and its team of experts have pursued the objective of forming a program through which the specialist can update their knowledge in the different medical-surgical subspecialties of this discipline, through information based on scientific evidence. In addition, this program promotes work methods focused on the patient's preoperative approach and on the most effective and innovative strategies for multimodal rehabilitation as a reference model in the achievement of healthcare excellence





## Specific Objectives

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### Module 1. Latest Advances in Anesthesiology

- ◆ Deeply integrate perioperative medicine and multimodal rehabilitation as the future of anesthesiology
- ◆ Know how to optimize goal-directed fluid therapy
- ◆ Determine the latest developments in anesthesiology contributions to current patient expectations
- ◆ Master new pharmacological advances in anesthesiology

### Module 2. Cardiovascular Anesthesia

- ◆ Understand advanced hemodynamic and neurological monitoring in cardiovascular procedures
- ◆ Correct application of transesophageal echocardiography in cardiovascular surgery
- ◆ Determine the correct management of hemostasis and transfusion therapy in cardiovascular surgery
- ◆ Know all the updates in the management of Extracorporeal Circulation (ECC)

### Module 3. Pediatric Anesthesia

- ◆ Assess the child's behavior and learn strategies to minimize the stress and anxiety that may be generated in a situation where anesthesia induction has to be performed
- ◆ Understand the importance of the pre-anesthesia visit in pediatrics, both for the patient and his or her family members
- ◆ Learn the applications of fluid and blood therapy in pediatrics
- ◆ Recognize and manage difficult airways in pediatric surgery
- ◆ Identify cases of use of neonatal and infant anesthesia

#### Module 4. Obstetric Anesthesia

- ♦ Mastering anesthetic advances for labor and delivery
- ♦ Applying the anesthesia required for cesarean section during labor
- ♦ Understand intrauterine fetal surgery and anesthesia procedures in these specific conditions
- ♦ Know the main problems that the anesthesiologist may encounter with different pathologies of an obstetric patient and how to solve them

#### Module 5. Digestive and Urological Anesthesia

- ♦ Master the fundamentals and principles of multimodal rehabilitation
- ♦ Know, describe and integrate the perioperative ERAS program
- ♦ Determine the types of anesthesia used for digestive and urological surgery according to the specific area to be treated

#### Module 6. Neuroanesthesia

- ♦ Learn about the latest developments in brain protection, as well as pharmacological and non-pharmacological measures
- ♦ Point out advances in intraoperative and critical multimodal neuromonitoring
- ♦ Management of perioperative pain in the neurosurgical patient

#### Module 7. Latest Advances in the Critically Ill Patient

- ♦ Approach the neurocritical patient, with acute respiratory failure or in cardiogenic shock
- ♦ Differentiate between right ventricular dysfunction and pulmonary hypertension
- ♦ Know the infections that most affect the critically ill patient
- ♦ Deepen in the integral management of renal and lung transplantation





### **Module 8. Pain Therapeutics**

- ◆ Perform a psychological assessment of the pain patient, incorporating the latest advances in psychological intervention and treatment techniques
- ◆ Describe the clinical use of opioids
- ◆ Understand the new perspectives of treatment for postoperative pain

### **Module 9. Regional Anesthesia**

- ◆ Describe the use of the pharmacology of local anesthetics and their general anesthetic blockades
- ◆ Understand the basics of neurostimulation and ultrasonography to apply them to the macroscopic anatomy of the cervical and brachial plexus
- ◆ Know and develop regional techniques of the upper limb, lumbar plexus and sacral plexus

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*This refresher program will generate a sense of security in the performance of medical practice that will help you grow personally and professionally”*



# 04 Skills

After passing the evaluations of the Hybrid Professional Master's Degree in Update in Anesthesiology and Resuscitation, the medical professional will have acquired the professional competencies necessary for quality care in anesthesiology and resuscitation, and updated based on the latest scientific evidence.







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*Through this program, you will be able to update your knowledge in anesthesiology and resuscitation, and be able to perform quality patient care based on the latest scientific evidence”*



## General Skills

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- ♦ Develop within the profession in terms of working with other health professionals, acquiring skills to work as a team
- ♦ Recognize the need to maintain your professional skills and, keep them up to date, with special emphasis on autonomous and continuous learning of new information
- ♦ Perform critical analysis and research work in the field of anesthesiology and resuscitation



*You will master, through this program, the latest advances in analgesia available to facilitate labor and delivery"*





## Specific Skills

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- ◆ Describe the implications of anesthesiology in perioperative processes, and incorporate patient expectations about clinical safety and pain management
- ◆ Proper management of fluid therapy in hemodynamic optimization and new drugs Employees in the anesthesia process
- ◆ Value research as the only way to progress in anesthesiology
- ◆ Identify the main characteristics of advances in thoracic anesthesia
- ◆ Point out the implications of specific advances in anesthesia for surgical techniques in thoracic interventions
- ◆ Establish the main characteristics of advances in cardiovascular anesthesia
- ◆ Perform preoperative assessment of the patient's airway and its possible consequences in the establishment of intubation devices
- ◆ Incorporate new techniques for the management of mechanical ventilation during patient intervention and extubation procedures, and assess and anticipate special risk situations that may arise during the process
- ◆ Determine the implications of psychology as preparatory work for surgery in pediatric patients
- ◆ Master the main diagnostic and therapeutic procedures in child surgery and incorporate the advances that have been established in recent years
- ◆ Incorporate the latest advances in analgesia in labor procedures and identify the consequences of optimizing therapeutic techniques for the woman and child
- ◆ Manage advances in diagnostic and therapeutic techniques most commonly used in neurocritical patients
- ◆ Analyze the main characteristics of techniques and procedures in the management of the patient with pain

# 05

# Course Management

In TECH's untiring commitment to offer an excellent academic level in its programs, this program has a teaching team made up of professionals with extensive experience in the field of anesthesiology and resuscitation. These specialists are responsible for the elaboration of the didactic materials to which the student will have access throughout this Hybrid Professional Master's Degree. Therefore, all the knowledge they will provide you with will be in tune with the latest developments in this branch of Medicine





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*The specialists who teach this program are responsible for developing the didactic resources that you will study, so the contents offered will be applicable to your professional life"*



## International Guest Director

Dr. Betelehem M. Asnake is a leading anesthesiologist with an extensive international career, noted for her commitment to health equity and medical education. She has practiced in San Francisco, California, at Kaiser Permanente Medical Centers in Oakland and Richmond. In addition, she has held an important role as Director of Global Health Initiatives at UCLA Health, considered one of the best hospitals in the United States, and ranked first in both California and Los Angeles in a comprehensive assessment of excellence in patient care.

In addition to her clinical practice, she has been recognized for her passionate work in coaching and promoting diversity in Medicine. In this regard, she has founded MuluMentor, a virtual platform designed to support medical students from underrepresented and disadvantaged backgrounds. This program has facilitated the connection between these students and healthcare professionals in reviewing medical school applications, preparing for the MCAT and obtaining letters of recommendation. In this way, the platform has had a significant impact on inclusion and support for future physicians.

In turn, Dr. Betelehem M. Asnake has been a key international figure in bridging educational gaps in the field of Anesthesia. In fact, she has worked as a facilitator of the SAFE course in Tanzania, teaching safe anesthesia in remote areas. She has also been a co-leader of COVID-19 response teams and has collaborated with the World Society of Anesthesia in the development of international standards of post-anesthesia care. In addition, her role as a peer reviewer for the COVID-19 Repository for Ethiopian Health Professionals has highlighted her commitment to the global improvement of medical education in low-resource settings.



## Dr. Asnake, Betelehem M.

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- ♦ Director of Global Health Initiatives at UCLA Health, Southern California, United States
- ♦ General Anesthesiologist at UCLA Health
- ♦ General Anesthesiologist at Kaiser Permanente Oakland and Richmond Medical Centers
- ♦ Founder of MuluMentor
- ♦ General Anesthesiologist at Zuckerberg General Hospital and Trauma Center
- ♦ Global Health Equity Fellow at Zuckerberg General Hospital & Trauma Center
- ♦ Anesthesiology Specialist from the University of California
- ♦ PhD in Medicine from the University of Virginia
- ♦ M.S., Pharmacology and Toxicology from the University of Virginia  
B.A., French Studies from the University of California

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*Thanks to TECH, you will be able to learn with the best professionals in the world”*

## Management



### Dr. Muedra Navarro, Vicente

- ♦ Specialist and head of section in Anesthesia, Resuscitation, and Pain Therapy
- ♦ Head of the Anesthesia Service at the General University Hospital Consortium of Valencia
- ♦ Vice-president of the Department of Anesthesiology and Critical Care in Cardiac Surgery of the Valencian Community
- ♦ Principal Investigator in the Consolidated Research Group, with competitive funding from Public Organizations such as the Carlos III Health Institute, the Ministry of Health, the Foundation for the Promotion of Health and Biomedical Research of the Valencian Community and the Regional Ministry of Health
- ♦ Collaborating researcher of the Prometeo Program for Research Groups of Excellence of the Department of Education and Science of the Generalitat Valenciana
- ♦ Professor and Doctor of Anesthesiology at the University of Valencia
- ♦ Professor of the Department of Biomedical Sciences at the Faculty of Medicine of the CEU Cardenal Herrera University
- ♦ Director of Doctoral and Master's Degree theses
- ♦ Degree in Medicine from the University of Valencia
- ♦ MIR Specialist in Anesthesiology, Resuscitation and Pain Therapys at the and Polytechnic La Fe University Hospital
- ♦ University Expert in the Comprehensive Management of the Airway by the Catholic University of Valencia
- ♦ Member: Commissions for Healthcare Improvement at Hospital Universitario La Ribera, Researcher of the Translational Medicine Doctoral Program in the research line of Multidisciplinary Intervention in Prevention and Clinical Therapeutics of the International Doctoral School CEINDO, Spanish Society of Anesthesiology, Resuscitation and Pain Therapy and Spanish Society of Multimodal Rehabilitation

## Professors

### Dr. Miguel Ángel Reina Perticone

- ◆ Specialist in Anesthesiology and Resuscitation
- ◆ Specialist in Anesthesiology at HM Torrelodones University Hospital
- ◆ Specialist of the Anesthesiology Service at the Hospital Universitario HM Montepíncipe
- ◆ Collaborating Professor of the Department of Anesthesiology at the University of Florida. U.S.A
- ◆ Professor attached to the Faculty of Medicine at the CEU San Pablo University SEMDOR 2021 Award

### Dr. Paula Carmona García

- ◆ Specialist in Anesthesiology Anesthesiology and Resuscitation
- ◆ Adjunct physician of Cardiothoracic Anesthesiology. La Fe Polytechnic and University Hospital
- ◆ Fellowship in Cardiovascular Anesthesia and Transesophageal Echocardiography at St Michael's University Hospital in Toronto, Canada
- ◆ EAE/EACTA (European Association of Echocardiography and the European Association of Cardiothoracic Anaesthesiologists) evaluator for evaluation and accreditation in transesophageal echocardiography
- ◆ Lecturer and speaker at programs and congresses on perioperative echocardiography and intensive care
- ◆ Specialist in Anesthesiology, Resuscitation and Pain Therapy, La Fe University and Polytechnic Hospital
- ◆ Doctor of Medicine, UM
- ◆ Specialist in Anesthesiology and Resuscitation Gregorio Marañón General University Hospital. Madrid

### Dr. Francisca Llobell Sala

- ◆ Specialist in Anesthesiology, Resuscitation, and Pain Management
- ◆ Specialist in Anesthesiology, Resuscitation and Pain Therapy in various prestigious hospitals
- ◆ CEO and Director of CEDIVA Difficult Airway Management Training Center, HD
- ◆ Anesthesia and ICU External Resident Tutor. Hospitals of the VC
- ◆ Co-author of the White Paper on the Specialty of Anesthesiology
- ◆ Collaborating writer in the Official Program of Professional Updating in Anesthesiology. Official Professional Updating Program in Anesthesiology, Resuscitation and Pain Therapy
- ◆ Project development coordinator: tutor book. SEDAR Teaching Section
- ◆ PhD in Medicine and Surgery, UM
- ◆ Bachelor's Degree with Examination Degree, Medicine and Surgery. University of Valencia
- ◆ Master's Degree in Medical and Clinical Management. Salud Carlos III Health Institute, School of Health, Madrid, Spain
- ◆ Airway management. MSD Studies for Healthcare Professionals
- ◆ Member of the Teaching Section of SEDAR

### Dr. Jesús Fernández Cruz

- ◆ Specialist in Anesthesiology and Resuscitation
- ◆ Anesthesiology Hospital in La Ribera University Hospital
- ◆ Specialist in Anaesthesiology and Resuscitation
- ◆ Pain Therapy Expert

#### **Dr. Antonio Manuel González González**

- ♦ Head of the Anaesthesiology Department. Marqués de Valdecilla University Hospital
- ♦ Assistant Anesthesiology Maternal and Child Anesthesia Unit. Marqués de Valdecilla University Hospital
- ♦ SEDAR's Secretary of Pediatric Anesthesia
- ♦ SEDAR's Advanced Medical Simulation Centers Network Coordinator
- ♦ Spanish Society of Anesthesiology WEB Editor
- ♦ Consultant of the Continuing Education Commission. Cantabria Health Service
- ♦ CESAR Simulation Instructor. Asturian-Cantabrian Society of Anesthesiology
- ♦ University professor of postgraduate studies
- ♦ Teaching Section of the Spanish Society of Anesthesiology
- ♦ Anesthesiology Resident Tutor. Valdecilla University Hospital
- ♦ Fellow Research. National Institutes of Health
- ♦ Fellow Research. Johns Hopkins Hospital
- ♦ Specialist, Anesthesiology and Resuscitation. Valdecilla University Hospital
- ♦ Doctor of Medicine, Pharmacology. University of Cantabria
- ♦ Bachelor of Medicine and Surgery. University of Cantabria
- ♦ Member of: Spanish Society of Pharmacology, Spanish Society of Neurosciences, American Society of Neurosciences and Spanish Society of Anesthesiology

#### **Dr. Concepción Del Olmo Rodríguez**

- ♦ Medical specialist in Anesthesiology
- ♦ Head of the Anesthesiology Department of the Asepeyo Coslada Hospital
- ♦ Doctor at the University Hospital of Getafe
- ♦ PhD in Medicine and Surgery from the Universidad de Navarra

#### **Dr. Ana Pérez Carbonell**

- ♦ Head of the Anesthesiology and Resuscitation Service at the Elche General University Hospital
- ♦ Assistant Physician of the Anesthesiology and Resuscitation Service at the Valencian Health Agency
- ♦ Assistant Physician of the Anesthesiology and Resuscitation Service at the Hospital General Universitario de Alicante
- ♦ Tutor of the Master's Degree in Clinical Medicine Research at the University of Alicante
- ♦ Doctor of Medicine and Anesthesiology, Resuscitation and Pain Therapy, Miguel Hernández University
- ♦ Degree in Medicine from the University of Alicante

#### **Dr. María Amparo López Gómez**

- ♦ Specialist in Anesthesiology, Resuscitation and Pain Management
- ♦ Medical Specialist in Anesthesiology, Resuscitation and Pain Therapy. La Fe Polytechnic and University Hospital
- ♦ Medical Specialist in Anesthesiology, Resuscitation and Pain Therapy. Quirónsalud Day Hospital
- ♦ Degree in Medicine from the University of Salamanca
- ♦ PhD Cum Laude in Medicine from the University of Salamanca
- ♦ Master's Degree in Treatment Pain from the University of Salamanca
- ♦ Master's Degree in Regional Anesthesia and Analgesia guided by ultrasound by the University of Salamanca

#### **Dr. Rosario Vicente Guillén**

- ♦ Specialist in Anesthesiology in the Hospital La Fe University and Polytechnic Hospital
- ♦ PhD in Medicine from the University of Valencia
- ♦ Associate Professor in the Nursing Department of the University of Valencia
- ♦ Clinical Collaborator of the La Fe Health Research Institute
- ♦ Vice-Chair of the Cardiac, Vascular and Thoracic Anesthesia Section of SEDAR



**Dr. Vicente Domingo Triadó**

- ♦ Head of Department of Anesthesiology, Resuscitation, and Pain Management. Lluís Alcanyis Hospital
- ♦ Doctor Specialist in Anesthesiology, Resuscitation and Pain Therapy
- ♦ Doctor Specialist in Anesthesiology and Resuscitation and Pain Therapy. San Francisco de Borja Hospital
- ♦ Attending Physician. Pain Unit at Lluís Alcanyís Hospital
- ♦ Professor at the Faculties of Medicine and Podiatry of the Catholic University of Valencia San Vicente Màrtir
- ♦ Principal investigator in phase II and III clinical trials in the research of new drugs for the treatment of pain
- ♦ Doctor of Medicine (M.D.PhD) by the UV
- ♦ Specialty of Anesthesiology and Resuscitation in the Anesthesiology Department of the Germans Trias i Pujol Hospital
- ♦ Master's Degree in Research Methodology: Design and Statistics in Health Sciences. Autonomous University of Barcelona
- ♦ European Diploma in Anaesthesiology and Intensive Care. European Academy of Anesthesiology and Intensive Care
- ♦ Specialization in Hospital Management and Organization. Polytechnic University of Valencia
- ♦ Specialization in Clinical Management. Polytechnic University of Valencia
- ♦ Member of: SEDAR, Spanish Society of Anesthesiology, Resuscitation and Pain Treatment, Valdolor, Valencian Association of Pain, European Society of Anaesthesia (ESA), European Society of Regional Anaesthesia (ESRA), Spanish Pain Society (SED), International Association for The Study of Pain (IASP)

**Dr. Alberto Prats Galino**

- ♦ Accredited researcher in Clinical Neurophysiology
- ♦ Accredited researcher (R3A-UB). Clinical Neurophysiology, Clinical and Experimental Neurosciences Research Group of the August Pi i Sunyer Biomedical Research Institute (IDIBAPS)
- ♦ Researcher at the Laboratory of Surgical Neuroanatomy, Human Anatomy and Embryology Unit, Faculty of Medicine and Health Sciences, University of Barcelona
- ♦ Director of the Department of Morphological Sciences of the University of Barcelona
- ♦ Director of the Body Donation Service and Dissection Room of the August Pi i Sunyer Clinical Campus at the University of Barcelona
- ♦ Professor at the University of Barcelona
- ♦ Doctor of Medicine and Surgery from the University of Barcelona
- ♦ Degree in Medicine and Surgery from the University of Barcelona
- ♦ Member: Review Commission involved in the national accreditation for access to university teaching bodies, in the Health Sciences Branch, appointed by agreement of ANECA

**Dr. Enrique Monzó**

- ♦ Senior Collaborator in Anesthesiology at HM Montepíncipe Hospital
- ♦ Chief of Anesthesiology. FREMAP
- ♦ Specialist in Pain Management and Anesthesiology
- ♦ Researcher in advanced anesthetic techniques and in the use of ultrasound to guide complex procedures in surgical patients
- ♦ Doctorate "Cum Laude". Autonomous University of Madrid
- ♦ Bachelor's degree. Complutense University of Madrid
- ♦ Residency in Anesthesiology

**Dr. Alejandro Ortega Romero**

- ♦ Head of the Pain Unit at the Asepeyo Hospital
- ♦ Specialist Physician attached to the Department of Anesthesiology, Resuscitation and Pain Therapy at Hospital Asepeyo. Coslada, Madrid
- ♦ Anesthesiologist Expert in Pain Treatment of Musculoskeletal Pathologies at D-Médical Medical Center
- ♦ Associate Editor of the Spanish Pain Magazine
- ♦ Reviewer for the national pain journals SED and anesthesia SEDAR and international journals such as the European Spine Journal (ESJO)
- ♦ Specialty in Anesthesiology, Resuscitation and Pain Treatment at the Gregorio Marañón General University Hospital
- ♦ Degree in Medicine from the Autonomous University of Madrid
- ♦ Member: Surgical team of Grupo ACAL Salud at the Nuestra Señora del Rosario University Hospital. Madrid, European Council representing Spain in the European Society of Regional Anaesthesia & Pain Therapy (ESRA) and ESRA Board of Directors in Spain and SAR in Madrid

**Dr. Amparo Belltall Olmos**

- ♦ Specialist in Anesthesiology and Resuscitation
- ♦ Specialist in Anaesthesiology and Resuscitation.. La Fe Polytechnic and University Hospital
- ♦ Research Assistant. Department of Anesthesiology and Resuscitation, La Fe Polytechnic and University Hospital,
- ♦ Author in the electronic Journal of AnesthesiaR (ReAR)

**Dr. Inmaculada Giménez Jiménez**

- ♦ Anesthesia and Resuscitation Service, La Fe Polytechnic and University Hospital, Valencia

**Dr. Andrés López García**

- ♦ Head of the Anesthesiology and Resuscitation Department HM Hospitales
- ♦ Head of the Anesthesiology and Resuscitation Service of HM Hospitales centers
- ♦ Anesthesiologist at HM Hospitales centers
- ♦ Author of the book "Anesthesia and Children"
- ♦ Specialist in Anesthesiology and Resuscitation

**Dr. Anna Carrera Burgaya**

- ♦ Medical Doctor specialized in Human Anatomy and Embryology
- ♦ Area Specialist of the Human Anatomy Service - NEOMA Research Group
- ♦ Thesis direction in the UB doctoral program in medicine
- ♦ Professor of Human Anatomy and Embryology. UG
- ♦ Author of 2 books, 2 collective works and 7 articles in indexed journals
- ♦ Doctorate in Medicine from the UB

**Dr. Estrella Domenech Pascual**

- ♦ Expert in Anesthesiology, Resuscitation and Pain Therapeutics
- ♦ Specialist of the Anesthesia, Resuscitation and Pain Therapy Service, La Fe Polytechnic and University Hospital
- ♦ Attending Physician. Department of Anesthesiology, Resuscitation and Pain Therapy, Hospital San Francesc de Borja, Barcelona, Spain
- ♦ Resident Intern. Anesthesiology, Resuscitation and Pain Therapeutics, University Clinical Hospital of Valencia, Spain
- ♦ Specialist in Clinical Analysis, Hospital General de Valencia, Spain
- ♦ Degree in Medicine and Surgery. Faculty of Medicine University of Valencia

**Dr. Antonio Montes Pérez**

- ♦ Head of Pain Unit Hospital del Mar and CIMA Barcelona
- ♦ Head of the Pain Unit of the Ferrán Rheumatology Institute Sanitas CIMA Hospital, Barcelona
- ♦ Head of the Pain Unit. Del Mar Hospital, Barcelona
- ♦ Vice President of the Acute and Chronic Pain Section, Spanish Society of Anesthesiology, Resuscitation and Pain Therapy (SEDAR)
- ♦ Adjunct Pain Unit. Del Mar Hospital, Barcelona
- ♦ Resident in Anesthesiology, Resuscitation and Pain Management. Germans Trias y Pujol Hospital, Barcelona, Spain
- ♦ Author of the book "Chronification of postoperative pain"
- ♦ Doctor of Medicine Department of Pharmacology. 2003. Autonomous University of Barcelona
- ♦ Specialist in Anesthesiology, Resuscitation, and Pain Management. Central University of Barcelona
- ♦ Degree in Medicine and Surgery. Central University of Barcelona
- ♦ Member of SEDAR

**Dr. Ara Bermejo Marín**

- ♦ Specialist in Physical Neurology and Medicine and Rehabilitation
- ♦ Assistant Physician in the Pain Unit, La Fe Polytechnic University Hospital, Valencia
- ♦ Specialist in Physical Medicine and Rehabilitation. La Fe Polytechnic University Hospital
- ♦ Specialist in Neurology. La Fe Polytechnic University Hospital
- ♦ Degree in Medicine, University of Seville

**Dr. Beatriz Martínez Romerosa**

- ♦ Anesthesiology specialist at the University Hospital Complex of A Coruña
- ♦ Specialist in advances in anesthesiology
- ♦ Anesthesiology specialist at the Medina del Campo Hospital
- ♦ Specialist in anesthesiology at the Valladolid University Clinical Hospital
- ♦ Attending physician at the Virgen de La Salud Hospital

**Dr. Carlos Luis Errando Oyonarte**

- ♦ International Health Systems Consultant with expertise in Anesthesiology and Resuscitation
- ♦ Head of the Anesthesiology and Resuscitation Service of the Hospital Can Misses of the Health Area of Ibiza and Formentera
- ♦ National and international health systems consultant: Health Research Board, Ireland, Canary Islands Health Service, UK National Institute of Academic Anaesthesia, SEDAR, Ministry of Health, Social Services and Equality, Spain
- ♦ Surgical Area Director. HGU Consortium of Valencia
- ♦ Assistant physician of the Anesthesiology, Resuscitation and Pain Therapy Service at Hospital General Valencia
- ♦ Director of the Spanish Anesthesiology and Resuscitation Magazine
- ♦ Professor of Physiology at the Faculty of Medicine, UCV
- ♦ Director of several doctoral theses and University Master's Degrees
- ♦ Doctor of Medicine and Surgery
- ♦ Specialist in Anesthesiology and Resuscitation
- ♦ Master's Degree in Patient Safety and Health Risk Management, ISDE and the Foundation of the Official College of Physicians of Madrid
- ♦ Member of the Spanish Society of Anesthesiology, Resuscitation and Pain Therapeutics

**Dr. Carlos Yarnoz Ruiz**

- ♦ Head of Anesthesia at the Hospital de Bidasoa in Osakidetza
- ♦ Assistant Physician at the Donostia University Hospital
- ♦ Assistant Physician at the Hospital de Bidasoa in Osakidetza
- ♦ Assistant Physician at the Virgen del Pilar Health Center
- ♦ Physician in Private Medicine at the Donostia University Hospital
- ♦ Attending Physician in the Anesthesiology Residency at the Donostia University Hospital
- ♦ Degree in Medicine from the University of Navarra

**Dr. Esperanza Cruz Andreotti**

- ♦ Medical Doctor Specialist in Anesthesiology
- ♦ Specialist of the Anesthesiology and Resuscitation Service at the Carlos Haya University Hospital
- ♦ Researcher on the effect of Propofol and its use in surgical patients
- ♦ Researcher on Nitric Oxide in in vitro conditions and in surgery patients
- ♦ Doctor of Medicine, UM

**Dr. Esperanza Ortigosa Solórzano**

- ♦ Specialist of the Pain Unit of the Anesthesia Service at the University Hospital of Getafe
- ♦ Editor-in-Chief of the Spanish Multidisciplinary Journal of Pain
- ♦ Editor-in-Chief of the Revista Arydol, a four-monthly publication of the Spanish Association of Regional Anesthesia and Chronic Pain
- ♦ Member of: Spanish Multidisciplinary Pain Society, Spanish Association of Regional Anesthesia and Chronic Pain and European Society of Regional Anesthesia and Pain Therapy

**Dr. Francisco Javier Palacio Abizanda**

- ♦ Specialist in Anesthesiology and Resuscitation
- ♦ Specialist in Anesthesiology and Resuscitation, Gregorio Marañón General University Hospital
- ♦ Specialist in Anesthesiology and Resuscitation at the University Hospital HM Montepíncipe
- ♦ Specialist in Anesthesiology and Resuscitation at the University Hospital HM Torreldones
- ♦ Specialist in Anesthesiology and Resuscitation at the University Hospital HM Sanchinarro
- ♦ Specialist in Anesthesiology and Resuscitation at the University Hospital La Paz
- ♦ Doctorate in Medicine from the Autonomous University Madrid

**Dr. Francisco Reina De La Torre**

- ♦ Expert in Human Anatomy and Embryology
- ♦ University Professor in Medical Studies
- ♦ PhD. from the Autonomous University of Barcelona
- ♦ Author of numerous scientific publications

**Dr. Guadalupe Yerga Pozo**

- ♦ Specialist in Anesthesiology and Resuscitation, Virgen del Rocio University Hospital, Seville
- ♦ Specialist in Anaesthesiology and Resuscitation
- ♦ Specialist in Pediatric Anaesthesiology Obstetric
- ♦ Research scientist specialized in hemorrhage management and anesthesia application in childbirth
- ♦ Spokesperson for the Spanish Society of Anesthesiology , Resuscitation and Pain Treatment (SEDAR)



**Dr. Gabriel Yanes Vidal**

- ♦ Specialist in Anesthesia and Resuscitation at the Virgen del Rocío University Hospital
- ♦ Anesthesiologist at the Anesthesiology and Resuscitation Unit of the Victoria Rey Clinic
- ♦ Secretary of the Spanish Society of Anesthesiology and Resuscitation (SEDAR)
- ♦ Degree in Medicine from the University of Seville
- ♦ Member of: AAEAR, SEDAR y APSAR

**Dr. Iratxe Zarragoikoetxea Jáuregui**

- ♦ Specialist in Anaesthesiology and Resuscitation
- ♦ Specialist in the Department of Anesthesiology, Resuscitation and Pain Therapy at the La Fe University and Polytechnic Hospital
- ♦ Doctor of Medicine, UV
- ♦ Member of SEDAR

**Dr. José Antonio De Ibáñez**

- ♦ Head of the Department of Anesthesiology, Resuscitation and Pain Treatment at the Valencia General University Hospital
- ♦ Head of the Pain Unit at Vithas Valencia 9 de Octubre Hospital
- ♦ Head of the Pain Unit at Vithas Valencia Consuelo Hospital
- ♦ Chairman of the institutional clinical committee for the guidance and follow-up of critical patients
- ♦ Honorary Consultant to the Hospitals: St. George's University Hospitals, James Cook University Hospital, South Tees Hospitals y Guy's and St. Thomas' NHS Foundation Trust. Great Britain
- ♦ Professor of Anesthesiology in the Department of Surgery at the Faculty of Medicine of the University of Valencia

- ♦ PhD in Medicine from the University of Valencia
- ♦ Degree in Medicine from the University of Valencia
- ♦ Specialist in Anesthesiology and Resuscitation from the University of Valencia
- ♦ Fellowship of the Regional Pain Therapy Unit at the Royal Infirmary Hospital in Abingdon. Oxford, England
- ♦ Fellowship en TECH University Health Sciences. Lubbock, USA A
- ♦ Advanced Training in Pain Management Techniques at Semmes Murphey Neurologic & Spine Institute of Baptist Hospital Medical Center. Memphis, Tennessee, USA A
- ♦ Specific Training in Radiofrequency Techniques for Pain Treatment and Regional Pain Therapy Unit. Maaslandziekenhuis, Netherlands
- ♦ Fellow in Interventional Pain Practice (FIPP), granted by the World Institute of Pain Examination Board Hungary
- ♦ European Diploma in Regional Anesthesia and Acute Pain Management (EDRA) awarded by the Examination Board of the European Society of Regional Anesthesia and Pain Therapy
- ♦ European Diploma in Pain Medicine (EDPM) awarded by the Examination Board of the European Society of Regional Anesthesia and Pain Therapy
- ♦ Member: nternational Association for the Study of Pain (IASP), American Society of Regional Anesthesia and Pain Medicine (ASRA), Spanish Chapter of the International Association for the Study of Pain (IASP), Spanish Pain Society (SED), International Neuromodulation Society (INS), American Academy of Pain Medicine (AAPM) y World Institute of Pain (WIP)

**Dr. Pilar De Diego Isasa**

- ♦ Department of Anesthesiology, Resuscitation, and Pain Management. Traumatology Monographic Hospital ASEPEYO, Coslada, Madrid

**Dr. José Emilio Llopis Calatayud**

- ♦ Head of the Pain Unit at the University Hospital of La Ribera
- ♦ Head of the Anesthesia and Resuscitation Service at the University Hospital of La Ribera
- ♦ Coordinator of Surgical Services at the University Hospital of La Ribera
- ♦ Director of the Chair of Pain Research at the Catholic University of Valencia
- ♦ Assistant Physician in Anesthesiology and Resuscitation at the La Fe University and Polytechnic Hospital
- ♦ Assistant Physician in Anesthesiology and Resuscitation at the Valencia University General Hospital
- ♦ PhD in Medicine and Surgery from the University of Valencia
- ♦ Degree in Medicine and Surgery from the University of Valencia
- ♦ Specialist in Anesthesia and Resuscitation from the University of Valencia
- ♦ Master's Degree in Senior Healthcare Management by Arthur Andersen of the Senior Management Program in Health Institutions
- ♦ Master's Degree in Pain Research and Specialized Pain Management
- ♦ Masters Degree in Medical and Clinical Management

**Dr. José Luis Muñoz Rodes**

- ♦ Medical Specialist in Anesthesiology and General Surgery
- ♦ Specialist in Anesthesiology and Resuscitation, Elche General University Hospital
- ♦ Speaker at multiple national conferences and congresses
- ♦ Specialized teacher in various educational institutions

**Dr. José Vicente Catalá Ripoll**

- ♦ Specialist in Anesthesia and Resuscitation
- ♦ Anesthesia, Resuscitation and Pain Therapeutics of GAIAB
- ♦ Specialist in Anesthesia and Resuscitation at the San Francesc de Borja Hospital
- ♦ Author of AnestesiaR, specialized medical journal and other scientific institutions
- ♦ Faculty Specialist in Anesthesia and Resuscitation Levante Intermutual Hospital
- ♦ Faculty Specialist in Anesthesia and Resuscitation HGUV Consortium
- ♦ Resident Internist in Anesthesiology. HGUA
- ♦ Doctor of Medicine, UCLM

**Dr. Vicente Roqués Escolar**

- ♦ Anesthesiology, Resuscitation and Pain Specialist
- ♦ Coordinador de la Unidad de Dolor Quirónsalud Murcia
- ♦ Specialist of the Anesthesiology and Resuscitation Department Virgen de la Arrixaca Hospital
- ♦ Vice-President of ESRA Spain, European Society of Regional Anaesthesia and Pain
- ♦ President of the Murcian Society of Anesthesia and Resuscitation
- ♦ Co-founder of IMEDAR, Mediterranean Institute of Regional Anesthesia and Pain
- ♦ Speaker at a multitude of national and international conferences
- ♦ Author or co-author of more than 500 conference papers
- ♦ Author and co-author of more than 50 national and international publications, book chapters and masters related to the specialty of anesthesia
- ♦ Graduate in Medicine, Faculty of Medicine, Valencia
- ♦ Specialist in Anesthesiology and Resuscitation at Virgen de la Arrixaca Hospital. Murcia

**Dr. Juan Vicente Llau Pitarch**

- ♦ Head of the Department of Anesthesiology, Resuscitation and Pain Therapy at the Hospital Universitario Doctor Peset. Valencia
- ♦ Section Chief of the Anesthesiology and Resuscitation Service at the Valencia University Hospital Clinic
- ♦ Specialist in the Department of Post-Surgical Anesthesiology and Critical Care at the Doctor Peset University Hospital
- ♦ Associate Professor of Anesthesiology and Resuscitation in the Department of Surgery at the University of Valencia
- ♦ Associate Editor of the Spanish Journal of Anesthesiology and Resuscitation (REDAR)
- ♦ Specialist in Anesthesiology and Resuscitation at the La Fe University and Polytechnic University
- ♦ Graduate in Medicine from the University of Valencia
- ♦ MIR with Specialization in Anesthesiology at the La Fe University and Polytechnic University
- ♦ Member: Spanish Society of Thrombosis and Hemostasis, Board of Hemostasis and Transfusion Medicine of the European Society of Anesthesiology, TASK Force of the European Society of Anaesthesia (ESAIC), Committee of Examiners of the European Diploma of Anesthesiology and Section of Hemostasis and Transfusion Medicine of SEDAR

**Dr. Luis Elías Castro Parga**

- ♦ Anesthesiologist in the Anesthesia and Critical Care Department of the Pediatric Pain Unit at La Paz Children's Hospital
- ♦ Anesthesiologist at the University Hospital HM Sanchinarro
- ♦ Head of the Adult Critical Care Unit created in the operating rooms of La Paz University Hospital
- ♦ Co-author of the book Transfunctional Medicine
- ♦ Degree in Medicine

**Dr. Fernando Sánchez**

- ♦ Medical Specialist in Anesthesiology, Resuscitation and Pain Therapy. La Ribera University Hospital. Alzira- Valencia

**Dr. María Ángeles Canós Verdecho**

- ♦ Head of the Multidisciplinary Pain Management Unit. La Fe Polytechnic and University Hospital
- ♦ Coordinator of the Multidisciplinary Pain Management Unit. La Salud Hospital
- ♦ Best In Class Award for Best Pain Unit
- ♦ Chronic Pain Specialist. Teclor Médica
- ♦ Author of the book "Defy your pain: a guide for the prevention and management of chronic pain"
- ♦ Professor of Teaching Seminars for Undergraduate and Postgraduate courses in Anesthesiology, Resuscitation and Pain Therapy at La Fe University and Polytechnic Hospital
- ♦ Teaching professor of distance courses, organized by the Spanish Pain Society: Update on pain of the Spanish Society of Pain
- ♦ Director of practical programs of Update in Neurostimulation. La Fe Polytechnic and University Hospital
- ♦ Director of the Pain and Primary Care Conference at the La Fe University and Polytechnic Hospital
- ♦ Master's Degree in Pain Treatment Miguel de Cervantes European University
- ♦ Master's Degree in Healthcare Management. Catholic University of Valencia
- ♦ Master's Degree in Health Services Administration and Management. University of Valencia
- ♦ Member of: Spanish Pain Society and Neurosurgical Implants Advisory Committee of the General Directorate of Pharmacy and Health Products of the Valencian Community

**Dr. María Azucena Pajares Moncho**

- ♦ Head of Section and Coordinator of Cardiothoracic Anesthesia and Resuscitation and Circulatory Assistance at the La Fe University and Polytechnic Hospital
- ♦ Head of the Research Group at the La Fe Health Research Institute
- ♦ Coordinator of the Cardiothoracic Anesthesia and Critical Care and Circulatory Assistance Area at the Regional Ministry of Health
- ♦ Head of the Cardiac Anesthesia Area and Head of Section at the Department of Health
- ♦ Medical Specialist in Anesthesiology, and Care at the La Fe University and Polytechnic Hospital
- ♦ Bachelor in Medicine and Surgery from the University of Valencia
- ♦ Specialist in Anesthesiology, Resuscitation, and Pain Management

**Dr. María Gómez Gómez**

- ♦ Specialist in Anesthesiology, Resuscitation and Pain Therapy
- ♦ Specialist in Anesthesiology at IMSKE Hospital, European Musculoskeletal Institute
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Therapy at the Serralta Clinic
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Therapy at the La Ribera University Hospital
- ♦ Degree in Medicine and Surgery. Valence

**Dr. María Mercader Alarcón**

- ♦ Specialist in Anesthesiology and Resuscitation
- ♦ Specialist in Anesthesiology and Resuscitation at the Elche General University Hospital
- ♦ MIR in Anesthesiology, Resuscitation and Pain Therapy at the Elche General University Hospital
- ♦ Rotation in Anesthesia in Pediatric Surgery at the Alicante General University Hospital

- ♦ Rotation in Anesthesia in Oral and Maxillofacial Surgery at the San Juan University Hospital of Alicante
- ♦ Rotation in Ultrasound in the Critical Patient at the Palmaplanas Quirónsalud Hospital
- ♦ Rotation in Anesthesiology and Resuscitation of Thoracic Surgery at the Valencia General University Hospital Consortium
- ♦ Rotation in the Critical Care Unit at the Valencia General University Hospital
- ♦ Rotation in Locoregional Anesthesia at the Malvarrosa Hospital
- ♦ Rotation in Anesthesiology and Resuscitation of Cardiac Surgery at the Valencia General University Hospital Consortium
- ♦ Rotation in the Post-Surgical Critical Care Unit at the Alicante General University Hospital
- ♦ Doctorate in Medicine from the Jaume I University
- ♦ Degree in Medicine from the Miguel Hernández University of Elche
- ♦ Master's Degree in Infectious Diseases of the Critically Ill Patient in Medicine from the University of Valencia
- ♦ European Diploma in Anesthesiology and Intensive Care (EDAIC), Anesthesiology and Resuscitation by the European Society of Anesthesiologists

**Dr. Nieves Saiz-Sapena**

- ♦ Anesthesiology Specialist
- ♦ Anesthesiologist at the General University Hospital of Valencia
- ♦ Specialist of the Anesthesia Service at the Vithas Valencia 9 de Octubre Hospital
- ♦ Author of numerous publications, including the book "Art and challenges involved in the treatment of ischemic damage."
- ♦ PhD
- ♦ Degree in Medicine



**Dr. Marta López Viñals**

- ♦ Specialist in Pediatric Anaesthesiology
- ♦ Medical Specialist in Anesthesia and Resuscitation at Barcelona Hospital
- ♦ Specialty in Pediatric Anesthesiology, Sedation and Resuscitation at the San Juan de Dios Hospital. Barcelona
- ♦ Official Program of Medical Specialist in Anesthesiology and Resuscitation by the Mútua Terrassa University Hospital
- ♦ Degree in Medicine and Surgery from the University of Barcelona

**Dr. Natalia García Claudio**

- ♦ Medical Specialist in Anesthesiology and Resuscitation
- ♦ Adjunct Physician at the La Fe University and Polytechnic Hospital
- ♦ PhD in Medicine and Surgery from the University of Valencia
- ♦ Researcher on deep brain stimulation techniques in Parkinson's surgeries

**Dr. Nuria Carbonell Gutiérrez**

- ♦ Anesthesiologist
- ♦ Anesthesiologist DARYD Dexeus University Hospital, Quirónsalud Group
- ♦ Online Master's Degree in Clinical Management, Medical and Healthcare Management, Healthcare. UCH
- ♦ Master's Degree in Advanced Medical Competencies: Acute and Perioperative Cardiac Intensive Care, Cardiac Anesthesiology
- ♦ Master's Degree in Clinical Research in Comprehensive Care of the Critically Ill and Emergencies
- ♦ Bachelor's Degree, Medicine and Surgery. Autonomous University of Barcelona

**Dr. Pablo Cuesta Montero**

- ♦ Specialist in Anesthesiology and Resuscitation
- ♦ Specialist of the Anesthesiology and Resuscitation Department Service at the UA Hospital Complex (CHUA)
- ♦ Researcher in diagnostic and therapeutic techniques for intensive care patients
- ♦ Author of the specialized journal AnestesiaR
- ♦ Member of the Spanish Society of Rehabilitation and Physical Medicine

**Dr. Pascual Sanabria Carretero**

- ♦ Specialist in Pediatric Anaesthesiology
- ♦ Head of Pediatric Anesthesia at the Quirónsalud Sur Hospital and Quirónsalud San José Hospital
- ♦ Assistant Physician in the Department of Anesthesia and Critical and Surgical Care at the La Paz Childrens Hospital
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Treatment at the La Paz University Hospital
- ♦ Degree in Medicine and Surgery from the University of Salamanca

**Dr. Pedro Fenollosa Vázquez**

- ♦ Specialist in Physical Medicine and Rehabilitation, expert in Pain Management
- ♦ Interim physician in the Pain Unit. La Fe Polytechnic and University Hospital
- ♦ Assistant Physician (FEA). Therapeutic Pain Unit. La Fe Polytechnic and University Hospital
- ♦ Pain Unit Physician. Hospital Vithas
- ♦ Pain Management Specialist. Rey Don Jaime Hospital
- ♦ Co-author of the clinical trial on intrathecal infusion of baclofen for spasticity, which led to the approval of this treatment by the Ministry of Health

- ♦ Professor of the Master's Degree in Pain of the Spanish Pain Society
- ♦ Collaborator for the training in pain management of MIR physicians in the specialties of Anesthesiology, Rehabilitation and Family Medicine
- ♦ Training lectures and practical programs with continuous teaching on pain management for different specialties
- ♦ Author and Editor of books, book chapters and scientific publications
- ♦ Principal investigator of 2 R&D projects
- ♦ Invited speaker at international congresses
- ♦ Director of doctoral theses on chronic pain
- ♦ Best In Class Award for the best Pain Unit in Spain on two occasions
- ♦ Doctor of Medicine "cum laude", University of Valencia
- ♦ Specialty via MIR of Rehabilitation and Physical Medicine, La Fe University and Polytechnic Hospital
- ♦ Degree in Medicine and Surgery from the UV
- ♦ Member of the Valencian Pain Society, Illustrious College of Physicians of Valencia, Spanish Society of Rehabilitation and Physical Medicine, Spanish Pain Society, Editorial Committee of the Journal of the Spanish Pain Society, from its first issue to date, Valencian Society of Rehabilitation and Physical Medicine and Editorial Committee of the Journal "Clinical and Therapeutic Investigation of Pain"

#### **Dr. Rosa Aparicio Chagoyen**

- ♦ Specialist in Anaesthesiology and Resuscitation
- ♦ Anaesthesiology and Resuscitation Service Physician at the La Fe University and Polytechnic Hospital
- ♦ Speaker at numerous specialized conferences and congresses
- ♦ Degree in Medicine and Surgery from the University of Valencia

#### **Dr. Rosa María López Pérez**

- ♦ Specialist in Anesthesiology and Resuscitation
- ♦ Specialist in Anesthesiology and Resuscitation at the University Hospital Complex of A Coruña
- ♦ Medical Specialist in Anesthesiology and Resuscitation in the NGO Quesada Solidaria
- ♦ Degree in Medicine from the Santiago de Compostela University

#### **Dr. Servando López Alvarez**

- ♦ President of the Galician Society of Anesthesiology, Resuscitation and Pain
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Treatment at the University Hospital Complex of A Coruña
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Management at Abente y Lago Hospital
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Treatment at the Medina del Campo Hospital. Valladolid, Spain
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Treatment at the Clinical University Hospital of Valladolid
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Treatment at the Virgen de La Salud Hospital. Toledo, Spain
- ♦ Master in Pathophysiology and Treatment of Pain by the Autonomous University of Barcelona

**Dr. Tomás Alberto Sanjuán Villarreal**

- ◆ Anesthesiologist in the Cardiothoracic Anesthesia Unit at Miguel Servet University Hospital
- ◆ Anesthesiologist in the Obstetrics, General Surgery, Urology, Vascular Surgery and ENT Units of the Miguel Servet University Hospital
- ◆ Anesthesiologist at Hospital de la Santa Creu i Sant Pau
- ◆ Doctor of Medicine, University of Zaragoza
- ◆ Degree in Medicine from Rovira i Vergili University

**Dr. Tomás Domingo Rufés**

- ◆ Specialist in Anesthesiology, Resuscitation, and Pain Management
- ◆ Specialist in Anesthesiology and Resuscitation Barnadolor
- ◆ Founding member of Barnadolor, Multidisciplinary Center for the Study and Treatment of Chronic Pain, Barcelona
- ◆ Physician of the Chronic Pain Unit, Bellvitge University Hospital, Barcelona
- ◆ Annual collaboration with the Vicente Ferrer Foundation
- ◆ Cum Laude PhD from Autonomous University of Barcelona. Thesis: Application of ultrasound-guided puncture in the treatment of chronic pain
- ◆ Degree in Medicine and Surgery. Autonomous University of Barcelona. Vall d'Hebron Hospital Teaching Unit

**Dr. Vicente Manuel Pons**

- ◆ Specialist in Anesthesiology, Resuscitation, and Pain Management
- ◆ Specialist in the Anesthesiology and Resuscitation Service at the University Hospital Complex of A Coruña
- ◆ Anesthesiologist at Quirónsalud A Coruña Hospital
- ◆ Anaesthesiology Department Physician and Resuscitation in the Galician Health Service
- ◆ Degree in Medicine and Surgery in Faculty of Medicine of the University of Santiago de Compostela

**Dr. Vicente Monsalve Dolz**

- ◆ Specialist in Clinical Psychology
- ◆ Specialist in the Multidisciplinary Unit for the Treatment of Pain at the Valencia General University Hospital
- ◆ Specialist in Clinical Psychology at the Valencia General University Hospital Consortium
- ◆ Associate Professor at the Department of Personality, Evaluation and Psychological Treatments of the University of Valencia
- ◆ Author in specialized portals of Psychiatry
- ◆ Researcher at the Research Foundation of the Valencia General University Hospital

**Dr. Juan José Lázaro Alcay**

- ◆ Head of the Anesthesiology Department, Sant Joan de Dèu Hospital.. Barcelona
- ◆ Pediatric Anesthesiologist at the Sant Joan de Déu Hospital
- ◆ National Pediatric Inhalational Anesthesia Advisor for Abbott Laboratories
- ◆ Specialist in Anesthesiology, Resuscitation and Pain Therapy at HM Sant Jordi Hospital
- ◆ National Coordinator of the Resuscitation Group of the Spanish Society of Neonatology (SENEO)
- ◆ Researcher of the European STAR Project in the Pediatrics Area
- ◆ Collaborating investigator in the APRICOT Multicenter Study of the European Society of Anesthesiology
- ◆ Tutor and teacher of Anesthesia residents in their rotations in Pediatric and Obstetric Anesthesia at Hospital Sant Joan de Déu
- ◆ Collaborating Professor of the Department of Gynecology and Obstetrics at the Hospital Sant Joan de Déu, Faculty of Medicine of the University of Barcelona
- ◆ Professor and tutor of the Anesthesia for Nurses program at the Sant Joan de Déu Hospital School of Nursing, University of Barcelona

- Surgeon, Autonomous University of Barcelona
- Specialization in Pediatric Anaesthesiology at the Sant Joan de Déu Hospital
- Member: Spanish Society of Anesthesiology and Resuscitation (SEDAR) and Spanish Pain Society (SED)

**Dr. Lu s Vald s Vilches**

- Head of the Anaesthesiology Unit at the Puerta Costa del Sol Hospital
- Member of the European Society of Anesthesia
- Degree in Medicine from the University of Malaga
- Member of the European Society of Anesthesia
- Speaker at different scientific congresses and seminars as a specialist in Anesthesiology







“

*Leading professionals in the field of anesthesiology and resuscitation will provide you with the most relevant technological and scientific advances in this field”*

# 06

## Educational Plan

The syllabus of this Hybrid Professional Master's Degree consists of 9 modules through which the student will acquire the most updated knowledge in anesthesiology and resuscitation. The didactic materials that you will access during the duration of this program are available in a wide variety of textual and interactive media. TECH's intention is to provide a completely enjoyable and individualized learning experience and individualized learning.





“

*With this program, you will have access to the latest and most useful teaching materials on the market in anesthesiology and resuscitation”*

### Module 1. Latest Advances in Anesthesiology

- 1.1. Perioperative Medicine and Multimodal Rehabilitation: Future of Anesthesiology
- 1.2. Hemodynamic Optimization and Target-Guided Fluid Therapy
- 1.3. Clinical Simulation as a Teaching Tool in Postgraduate Education
- 1.4. Evidence-Based Medicine (EBM) in Anesthesiology
- 1.5. Contributions of Anesthesiology to Current Patient Expectations: Clinical Safety. Pain Treatment
- 1.6. Pharmacological Developments in Anesthesiology
- 1.7. Perioperative Hemorrhage. Preoperative Optimization, Monitoring and New Transfusion Strategies
- 1.8. Research as a Source of Progress in Anesthesiology
- 1.9. New Antiplatelet and Anticoagulant Drugs. Involvement in Anesthetic Practice

### Module 2. Cardiovascular Anesthesia

- 2.1. Cardiovascular Anatomy and Physiology
- 2.2. Advanced Hemodynamic and Neurological Monitoring in Cardiovascular Procedures
- 2.3. Transesophageal Echocardiography in Cardiovascular Surgery
- 2.4. Management of Hemostasis and Transfusion Therapy in Cardiovascular Surgery
- 2.5. Updates on the Management of Extracorporeal Circulation (ECC)
- 2.6. Coronary Revascularization Surgery
- 2.7. Aortic Valve Surgery
- 2.8. Mitral Valve Surgery
- 2.9. Minimally Invasive Cardiac Surgery Multimodal Handling
- 2.10. Updates Anesthesia for Cardiovascular Procedures outside the Operating Room
- 2.11. Updates in the Management of Thoracic Aortic Pathology
- 2.12. Update Anesthesia for the Placement and Management of Ventricular Assist Devices
- 2.13. Updates in Surgery on the Pericardium
- 2.14. Updates in Pediatric Cardiac Surgery
- 2.15. Anesthetic Management of the Patient with Congenital Heart Disease Undergoing Non-Cardiac Surgery
- 2.16. Updates in Vascular Surgery
- 2.17. Comprehensive Management of the Cardiac Transplant Patient

### Module 3. Pediatric Anesthesia

- 3.1. Assessment of the Child's Behavior and Strategies to Minimize Stress and Anxiety During Induction of Anesthesia
- 3.2. Preanesthesia Visit in Pediatrics
- 3.3. Fluid and Hemotherapy in Pediatrics
- 3.4. Anesthetic Monitoring in Pediatric Surgery
- 3.5. Difficult Airway in Pediatric Surgery
- 3.6. Perioperative Management of Associated Pathology
- 3.7. Neonatal and Infant Anesthesia
- 3.8. Ultrasound
- 3.9. General Anesthesia in Pediatric Surgery
- 3.10. Anesthesia Outside the Operating Room
- 3.11. Pain in the Child

### Module 4. Obstetric Anesthesia

- 4.1. Analgesic Update in Labor and Delivery
- 4.2. Anesthesia for Cesarean Section
- 4.3. VAD During Pregnancy
- 4.4. CPR in Pregnant Women
- 4.5. Intrauterine Fetal Surgery and Anesthesia
- 4.6. Hypertensive Disorders of Pregnancy
- 4.7. Obstetric Hemorrhage
- 4.8. Cardiopathic Pregnant Woman
- 4.9. Amniotic Fluid Embolism
- 4.10. Maternal Sepsis and Septic Shock
- 4.11. Non-obstetric Surgery in the Pregnant Patient
- 4.12. Anesthesia for Gynecologic and Oncologic Patients
- 4.13. Anesthesia in Breast Cancer



## Module 5. Digestive and Urological Anesthesia

- 5.1. Principles of Multimodal Rehabilitation
  - 5.1.1. Introduction to Multimodal Rehabilitation Programs
  - 5.1.2. ERAS Perioperative Program
  - 5.1.3. Hemodynamic Optimization. FGO
- 5.2. Anesthesia in Digestive System Surgery
  - 5.2.1. Colorectal Surgery
  - 5.2.2. Endocrine and Pancreatic Surgery
  - 5.2.3. Oesophagogastric Surgery
  - 5.2.4. Bariatric Surgery
  - 5.2.5. Liver Transplant
  - 5.2.6. Liver Surgery
- 5.3. Urologic Surgery
  - 5.3.1. Prostate Surgery
  - 5.3.2. Radical Cystectomy
  - 5.3.3. Renal Surgery
  - 5.3.4. Renal Transplant

## Module 6. Neuroanesthesia

- 6.1. New Developments in Brain Protection. Pharmacological and Non-Pharmacological Measures
- 6.2. Hemostasis and Neuroanesthesia
- 6.3. Advances in Intraoperative and Critical Multimodal Neuromonitoring
- 6.4. Perioperative Management of Pain in the Neurosurgical Patient
- 6.5. Updates in the Management of Supratentorial and Infratentorial Tumors
- 6.6. Anesthesia for Craniotomy in the Awake Patient
- 6.7. Anesthesia in Deep Brain Stimulation
- 6.8. Anesthesia for Neuroendoscopic Surgery
- 6.9. Anesthesia for Pituitary and Skull Base Surgery
- 6.10. Advances in Neuroanesthesia and Critical Care in Neurovascular Pathology
- 6.11. Advances in Anesthesia for Interventional Neuroradiology
- 6.12. Advances in the Treatment of Traumatic Brain Injury and Intracranial Hypertension
- 6.13. Advances in Acute Spinal Cord Injury
- 6.14. Advances in Neuroanesthesia and Neurocritical Care in Pediatrics

## Module 7. Latest Advances in the Critically Ill Patient

- 7.1. Approach to the Neurocritical Patient
- 7.2. Management of the Patient with Acute Respiratory Insufficiency (ARI)
- 7.3. Approach to the Patient in a Situation of Cardiogenic Shock
- 7.4. Right Ventricular Dysfunction and Pulmonary Hypertension
- 7.5. Infections in the Critically Ill Patient
- 7.6. Congenital Heart Disease in Adults
- 7.7. Nuevos Sistemas de Ventilación Mecánica en las Unidades de Críticos
- 7.8. Echocardiographic Hemodynamic Evaluation in Critically Ill Patients
- 7.9. Management of the Patient with Hemorrhagic Shock
- 7.10. Management of Adult Respiratory Distress (ARDS)
- 7.11. Mechanical Ventilation
- 7.12. Postoperative Management of Left Ventricular Assists
- 7.13. Multi-Organ Donor Maintenance
- 7.14. Enteral and Parenteral Nutrition in the Critically Ill Patient
- 7.15. Sepsis and Septic Shock
- 7.16. Comprehensive Management of Renal Transplantation
- 7.17. Comprehensive Management of Lung Transplantation
- 7.18. Acute and Chronic Kidney Failure
- 7.19. Comprehensive Approach to the Polytraumatized Patient
- 7.20. Comprehensive Approach to the Burn Patient
- 7.21. Advanced CPR

## Module 8. Pain Therapeutics

- 8.1. Pain Neurobiology
- 8.2. Psychological Assessment of the Patient with Pain Advances in Psychological Intervention and Treatment Techniques
- 8.3. Opioids. Clinical Use, Addiction and Abuse
- 8.4. Acute Postoperative Pain. New Treatment Perspectives
- 8.5. Pain Management in Palliative Care Patients
- 8.6. New Perspectives in Neurostimulation in the Treatment of Chronic Low Back Pain
- 8.7. Algorithms in the Treatment of Neuropathic Pain
- 8.8. Updates in Oncologic Pain
- 8.9. Ultrasound in Interventional Treatments in Pain Units
- 8.10. Conventional Radiofrequency and Pulsed Radiofrequency in the Treatment of Spine Pain
- 8.11. Rehabilitative Therapy in Pain Management

## Module 9. Regional Anesthesia

- 9.1. Pharmacology of Local Anesthetics. General Information on Anesthetic Blocks
- 9.2. Basis of Neurostimulation and Ultrasonography
- 9.3. Macroscopic Anatomy of the Cervical and Brachial Plexus
- 9.4. Microanatomy of the Meninges. Microanatomy of the Nerves. Interactive 3D Reconstruction of the Spine and its Contents Applied to Regional Anesthesia
- 9.5. Regional Upper Limb Techniques. Superficial Cervical Plexus Block. Brachial Plexus Approaches Above the Clavicle: Interscalenic Approach. Supraclavicular Approach
- 9.6. Regional Upper Limb Techniques. Brachial Plexus Approaches Under the Clavicle: Parasagittal-Paracoid Infraclavicular Approach. Infraclavicular Costoclavicular-Medioclavicular Approach
- 9.7. Brachial Plex Approach at the Axillary Level. Blockage of the Terminal Branches of the Brachial Plexus. Suprascapular Nerve Block and Axillary Nerve Block
- 9.8. Regional Techniques for the Lumbar Plexus: Posterior Approach: Psoas Block. Anterior Approach: Femoral Nerve Block. Obturator Nerve Block. Lateral Femoral Cutaneous Nerve Block. Genitocrural Nerve Block. Blockage of the Internal Saphenous Nerve (Adductor Canal)



- 9.9. Regional Techniques for the Sacral Plexus. Sciatic Nerve Block at Parasacral Level. Sciatic Blockage at Gluteal Level. Blockage of the Sciatic Nerve at the Subgluteal-Mediofemoral Level. Sciatic Nerve Block at Popliteal Level. Blockage of the terminal branches of the sciatic nerve: posterior tibial nerve, common peroneal nerve, deep peroneal nerve and sural nerve
- 9.10. Chest: PEC I-II. BRILMA (Blockage of the Lateral Cutaneous Branches of the Intercostal Nerves). Paravertebral Block
- 9.11. Abdomen: Blockage of the Ilioinguinal and Iliohypogastric Nerves: TAP. Lumbar Square Blockage. Locking of the Rectus Sheath
- 9.12. Anesthesia and Analgesia, Subarachnoid, Epidural and Caudal. General Information, Anatomy, Technique, Mechanism of Action, Indications, Contraindications and Complications
- 9.13. Ultrasound in Neuroaxial Blocks

“

*This program will provide you with the most efficient theoretical and practical knowledge to perform perfectly in a highly demanding medical environment”*

07

# Clinical Internship

After passing the online teaching phase, the program includes a period of practical training in a reference clinical center. The student will have at their disposal the support of a tutor who will accompany them during the whole process, both in the preparation and in the development of the clinical practice.





“

*Do your clinical internship in a prestigious hospital center, with high-level professionals involved throughout the process”*



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

In this training proposal, completely practical in nature, the activities are aimed at developing and perfecting the competencies necessary for the provision of healthcare in areas and conditions that require a high level of qualification, and are oriented towards specific training for the practice of the activity, in an environment of safety for the patient and high 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 the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of the professors and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for Anaesthesiology and resuscitation Analysis (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"*



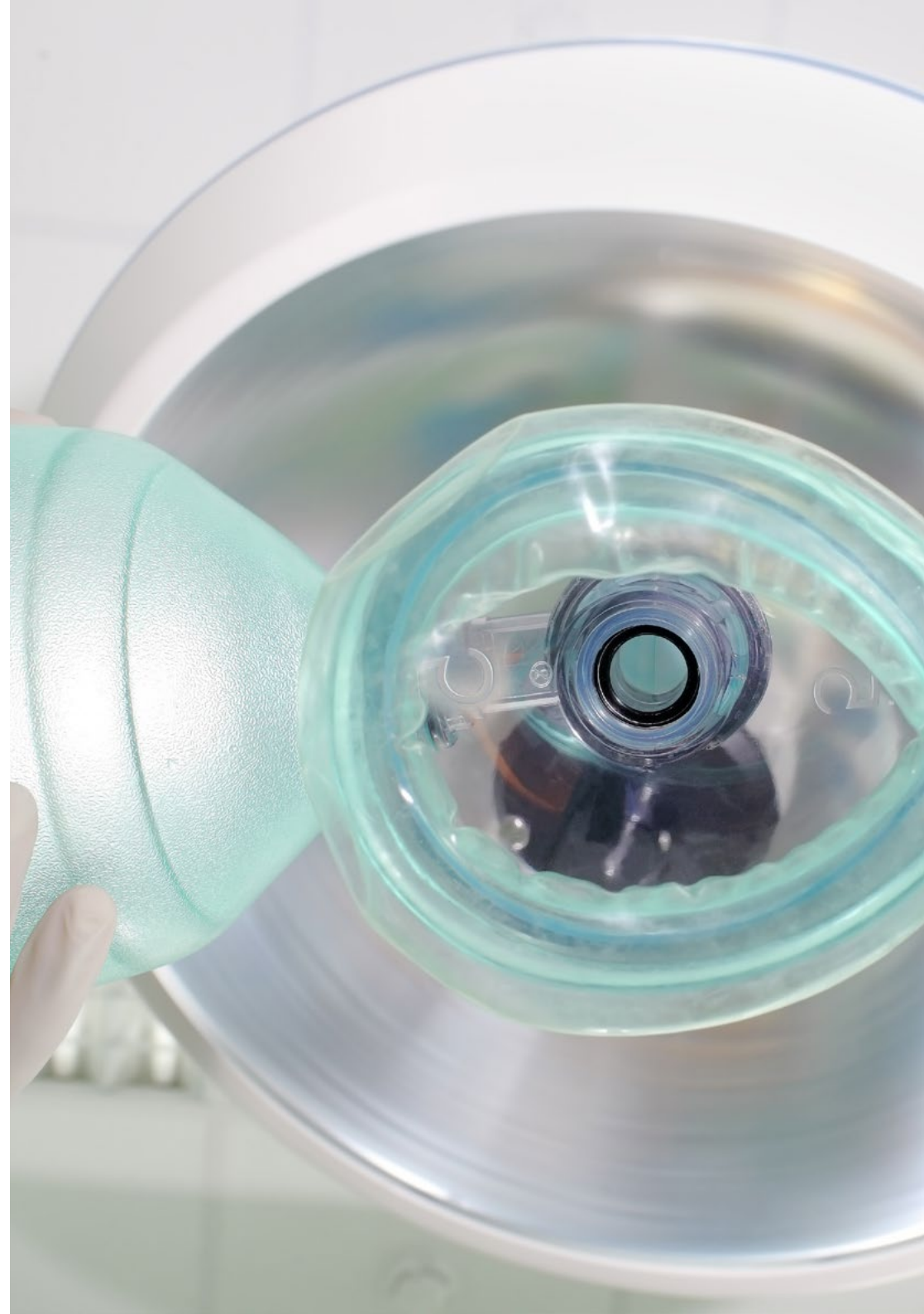
Module	Practical Activity
<b>Advanced techniques in anesthesiology and pain therapy</b>	Apply hemodynamic optimization strategies and goal-directed fluid therapy
	Addressing and monitoring perioperative hemorrhage
	Manage the new antiplatelet and anticoagulant drugs, knowing their scope of application and their implication in anesthetic practice
	Perform psychological assessment of the pain patient, applying specific psychological intervention and treatment techniques
	Pain 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
<b>Procedures in the indication and application of cardiovascular and thoracic anesthesia</b>	Use transesophageal echocardiography to measure cardiac activity, assessing the effectiveness of resuscitation
	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
	Comprehensive management of the patient undergoing cardiac transplantation
	Perform lung ultrasound in thoracic surgery
<b>Obstetric, digestive and urological anesthesia techniques</b>	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
<b>Procedures in neuroanaesthesia</b>	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

## 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. In this way, the professional will not have to worry in case he/she has to face an unexpected situation and will be covered until the end of the practical program at the center.



## General Conditions for Practical Training

The general terms and conditions of the internship program agreement shall be as follows:

**1. TUTOR:** During the Hybrid Professional Master's Degree, 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 Hybrid Professional Master's Degree, 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 Hybrid Professional Master's Degree will receive a certificate accrediting their stay at the center.

**5. EMPLOYMENT RELATIONSHIP:** the Hybrid Professional Master's Degree shall not constitute an employment relationship of any kind.

**6. PRIOR EDUCATION:** Some centers may require a certificate of prior education for the Hybrid Professional Master's Degree. 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 Hybrid Professional Master's Degree 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.



08

# Where Can I Do the Clinical Internship?

In order to guarantee an excellent updating process, TECH proposes the realization of this on-site stay in a prestigious center that can provide the physician with the latest advances in anesthesiology and resuscitation. This is a very complex and broad field, so it requires updating by the specialist, and the role of the hospital institutions is vital in this process, since they will offer the most advanced knowledge in the specialty.







“

*Put into practice everything you have learned in the field of anesthesiology by doing a clinical internship in a prestigious center”*



The student will be able to take the practical part of this Hybrid Professional Master's Degree in the following centers:



Medicine

### Hospital Fuensanta

Country	City
Spain	Madrid

Address: 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



Medicine

### Hospital HM Modelo

Country	City
Spain	La Coruña

Address: Rúa Virrey Osorio, 30, 15011, A Coruña

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

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

### Hospital Maternidad HM Belén

Country	City
Spain	La Coruña

Address: R. Filantropía, 3, 15011, A Coruña

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

**Related internship programs:**

- Update in Assisted Reproduction
- Hospitals and Health Services Management



Medicine

### Hospital HM Rosaleda

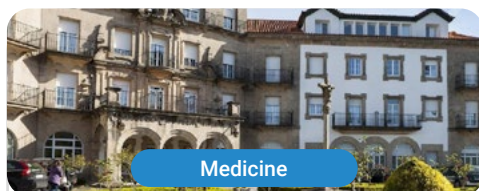
Country	City
Spain	La Coruña

Address: Rúa de Santiago León de Caracas, 1, 15701, Santiago de Compostela, A Coruña

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

**Related internship programs:**

- Hair Transplantation
- Orthodontics and Dentofacial Orthopedics



Medicine

### Hospital HM La Esperanza

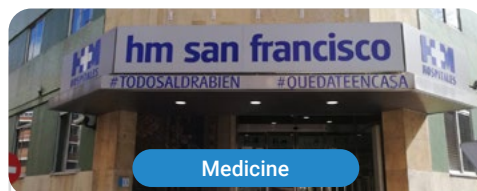
Country	City
Spain	La Coruña

Address: 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



Medicine

### Hospital HM San Francisco

Country	City
Spain	León

Address: C. Marqueses de San Isidro, 11, 24004, León

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

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Trauma Nursing



Medicine

### Hospital HM Regla

Country	City
Spain	León

Address: Calle Cardenal Landázuri, 2, 24003, León

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

**Related internship programs:**

- Update on Psychiatric Treatment in Minor Patients



Medicine

### Hospital HM Nou Delfos

Country	City
Spain	Barcelona

Address: Avinguda de Vallcarca, 151, 08023 Barcelona

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

**Related internship programs:**

- Aesthetic Medicine
- Clinical Nutrition in Medicine



Medicine

### Hospital HM Madrid

Country: 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 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



Medicine

### Hospital HM Torreldones

Country: Spain  
City: Madrid

Address: Av. Castillo Olivares, s/n, 28250, Torreldones, 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: 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



Medicine

### Hospital HM Nuevo Belén

Country: Spain  
City: 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: 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



Medicine

### Hospital HM Vallés

Country: Spain  
City: Madrid

Address: Calle Santiago, 14, 28801, Alcalá de Henares, Madrid

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

**Related internship programs:**

- Gynecologic Oncology
- Clinical Ophthalmology



Medicine

### Policlínico HM Arapiles

Country: Spain  
City: Madrid

Address: C. de Arapiles, 8, 28015, Madrid

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

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Pediatric Dentistry





Medicine

### Policlínico HM Imi Toledo

Country	City
Spain	Toledo

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

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

**Related internship programs:**

- Electrotherapy in Rehabilitation Medicine
- Hair Transplantation



Medicine

### Centro Médico Vithas Alzira

Country	City
Spain	Valence

Address: Gran Vía Comunitat Valenciana, 4, 46600 Alzira

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Centro Médico Vithas Castellón

Country	City
Spain	Castellón

Address: 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



Medicine

### Centro Médico Vithas El Ejido

Country	City
Spain	Almería

Address: Avenida Ciavieja, 15, 04700 El Ejido

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Implantology and Oral Surgery



Medicine

### Centro Médico Vithas Fuengirola

Country	City
Spain	Malaga

Address: 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



Medicine

### Centro Médico Vithas Granada

Country	City
Spain	Granada

Address: 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



Medicine

### Centro Médico Vithas La Rosaleda

Country	City
Spain	Malaga

Address: 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



Medicine

### Centro Médico Vithas Limonar

Country	City
Spain	Malaga

Address: Calle la Era, 6, 29016 Málaga

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Centro Médico Vithas Lleida

Country	City
Spain	Lérida

Address: Avenida de Tortosa 4, 25005 Lleida

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Centro Médico Vithas Nerja

Country	City
Spain	Malaga

Address: 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



Medicine

### Centro Médico Vithas Playa Serena

Country	City
Spain	Almería

Address: 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



Medicine

### Centro Médico Vithas Pontevedra

Country	City
Spain	Pontevedra

Address: Avenida Eduardo Pondal, 68, 36003 Pontevedra

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Centro Médico Vithas Rincón de la Victoria

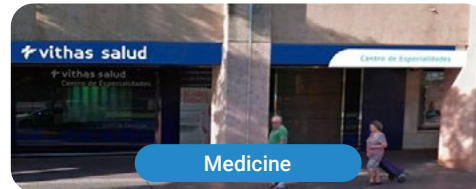
Country	City
Spain	Malaga

Address: 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



Medicine

### Centro Médico Vithas Sevilla

Country	City
Spain	Seville

Address: Calle Enramadilla, 8, 41018 Sevilla

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Centro Médico Vithas Torre del Mar

Country	City
Spain	Malaga

Address: 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



Medicine

### Centro Médico Vithas Torremolinos

Country	City
Spain	Malaga

Address: Calle Hoyo, 15, 29620 Torremolinos

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing





Medicine

### Centro Médico Vithas Vitoria

Country	City
Spain	Álava

Address: Avenida Beato Tomás de Zumárraga, 1, 01008 Vitoria

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Centro Médico Vithas Madrid Aravaca

Country	City
Spain	Madrid

Address: Calle La Salle, 12, 28023 Madrid

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Hospital Universitario Vithas Madrid Arturo Soria

Country	City
Spain	Madrid

Address: C. de Arturo Soria, 103, 28043 Madrid

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Hospital Universitario Vithas La Milagrosa

Country	City
Spain	Madrid

Address: Calle Modesto Lafuente, 14, 28010 Madrid

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Hospital Vithas Aguas Vivas

Country	City
Spain	Valence

**Address:** Carretera Alzira-Tavernes de Valldigna, CV-50 Km 11, 46740 Carcaixent

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Hospital Vithas Alicante

Country	City
Spain	Alicante

Address: Plaza Dr. Gómez Ulla, 15, 03013 Alicante

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Endodontics and Apical Microsurgery
- Implantology Oral Surgery



Medicine

### Hospital Vithas Almería

Country	City
Spain	Almería

Address: Carretera del Mami, Km 1, 04120 Almería

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Intensive Care Nursing
- Update in Anesthesiology and Resuscitation



Medicine

### Hospital Vithas Castellón

Country	City
Spain	Castellón

Address: Calle Santa Maria Rosa Molas, 25, 12004 Castellón de la Plana

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Intensive Care Nursing
- Endodontics and Apical Microsurgery



Medicine

### Hospital Vithas Granada

Country: Spain City: Granada

Address: 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



Medicine

### Hospital Vithas Las Palmas

Country: Spain City: Las Palmas

Address: 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



Medicine

### Hospital Vithas Lleida

Country: Spain City: Lérida

Address: Calle Bisbe Torres, 13, 25002 Lleida

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Hospital Vithas Málaga

Country: Spain City: Malaga

Address: Avenida Pintor Sorolla, 2, 29016 Málaga

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Hospital Vithas Medimar

Country: Spain City: Alicante

Address: Avenida de Dénia, 78, 03016 Alicante

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Gynecologic Oncology
- Intensive Care Nursing



Medicine

### Hospital Vithas Sevilla

Country: Spain City: Seville

Address: 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



Medicine

### Hospital Vithas Tenerife

Country: Spain City: Santa Cruz de Tenerife

Address: 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



Medicine

### Hospital Vithas Valencia 9 de Octubre

Country: Spain City: Valence

Address: Calle Valle de la Balletera, 59, 46015 Valencia

Leading group in the Spanish healthcare sector

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Intensive Care Nursing



Medicine

### Hospital Vithas Valencia Consuelo

Country	City
Spain	Valence

Address: 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



Medicine

### Hospital Vithas Vigo

Country	City
Spain	Pontevedra

Address: Via Norte, 48, 36206 Vigo

Leading group in the Spanish healthcare sector

**Related internship programs:**

Update in Anesthesiology and Resuscitation  
- Intensive Care Nursing



Medicine

### Hospital Vithas Vitoria

Country	City
Spain	Álava

Address: 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



Medicine

### Hospital Vithas Xanit Internacional

Country	City
Spain	Malaga

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

Leading group in the Spanish healthcare sector

**Related internship programs:**

Update in Anesthesiology and Resuscitation  
- Intensive Care Nursing



Medicine

### Instituto Oftalmológico Vithas EuroCanarias

Country	City
Spain	Las Palmas

Address: 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



Medicine

### Vithas Centro Médico

Country	City
Spain	Lérida

Address: Calle de les Astes de Sant Macari, 3, 25300 Tàrraga

Leading group in the Spanish healthcare sector

**Related internship programs:**

Update in Anesthesiology and Resuscitation  
- Intensive Care Nursing



Medicine

### Vithas Internacional

Country	City
Spain	Madrid

Address: Calle Arturo Soria, 107, 28043 Madrid

Leading group in the Spanish healthcare sector

**Related internship programs:**

Update in Anesthesiology and Resuscitation  
- Intensive Care Nursing





### Grupo Gamma

Country  
Argentina

City  
Santa Fe

Address: Entre Ríos 330, Rosario, Santa Fe

Polyclinic specialized in various medical specialties

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**Related internship programs:**

Update in Anesthesiology and Resuscitation  
- Gynecologic Oncology

09

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

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*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*





At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



#### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.





# 10 Certificate

This Hybrid Professional Master's Degree in Update in Anesthesiology and Resuscitation guarantees students, in addition to the most rigorous and up-to-date education, access to a Hybrid Professional Master's Degree diploma issued by TECH Global University.





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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This program will allow you to obtain your **Hybrid Professional Master's Degree 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.

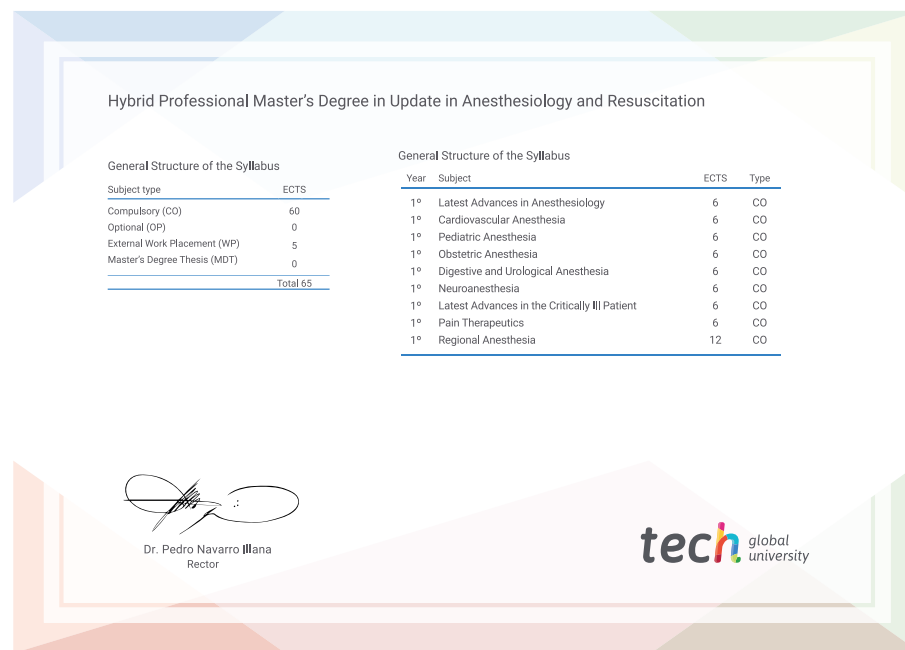
Title: **Hybrid Professional Master's Degree in Update in Anesthesiology and Resuscitation**

Course Modality: **Hybrid (Online + Clinical Internship)**

Duration: **12 months**

Certificate: **TECH Global University**

Recognition: **60 + 5 ECTS Credits**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



## Hybrid Professional Master's Degree Update in Anesthesiology and Resuscitation

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

60 + 5 ECTS Credits

# Hybrid Professional Master's Degree

Update in Anesthesiology  
and Resuscitation

