

# Postgraduate Certificate

## Locoregional Anesthesia in Major Outpatient Surgery





## Postgraduate Certificate Locoregional Anesthesia in Major Outpatient Surgery

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-certificate/locoregional-anesthesia-major-outpatient-surgery](http://www.techtute.com/us/medicine/postgraduate-certificate/locoregional-anesthesia-major-outpatient-surgery)

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# 01

# Introduction

In order to improve the efficiency and success of medical procedures, especially surgical procedures that require meticulous care, medicine has perfected its methods. In this sense, anesthesia has become increasingly precise and specific in its application to ensure effective processes. TECH has developed a specialized program in Locoregional Anesthesia in Major Outpatient Surgery that allows surgical procedures to be performed in outpatient settings, minimizing risks and accelerating patient recovery. This 100% online degree is a unique opportunity to update in this medical sector with the best quality standards.





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*Thanks to this complete Postgraduate Certificate you will master the different analgesic techniques used in CMA and multimodal analgesia for a better postoperative pain control”*

Knowing beforehand the careful management that must be taken at the time of performing a surgical procedure that is invasive, but necessary, Locoregional Anesthesia is the one that will allow that meticulous management, being the first step for a successful procedure. For this reason, in Major Outpatient Surgery, the health professional must make a thorough study of the body to be treated and its subsequent care. Since this type of medical process is subject to more serious complications, the first steps will determine the success of the procedure.

Giving way to the surgical procedure is the Locoregional Anesthesia method, which places its application in some wide body area with which the operating head physician will work to perform the surgery on the patient. This method is minimally invasive and works by numbing some nerves of the body area, usually large, so that the patient feels minimal pain, even null, as the area is asleep, although he/she is still conscious.

Ensure surgical success, qualified medical personnel must master the most efficient and updated methods in the anesthetic area, which is why TECH offers this Postgraduate in Locoregional Anesthesia in Major Outpatient Surgery, with the aim of updating the health professional in the latest advances in this specialty, specifically in the process of Major Ambulatory Surgery, addressing issues such as the CMA Circuit, pre-anesthesia consultation, pain control and complications in Major Ambulatory Surgery, among others.

With the advantage of being a 100% online program, this Diploma allows the graduate to have the convenience of taking classes from their personal device, at any time and place. In addition, it has an extensive library of multimedia resources developed with the latest educational technology that will facilitate student learning.

This **Postgraduate Certificate in Locoregional Anesthesia in Major Outpatient Surgery** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Locoregional Anesthesia in Major Outpatient Surgery
- ♦ 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
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ 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



*Take advantage of the Relearning methodology incorporated in the program, which will allow you to get up to date in the most advanced techniques for the application of regional anesthesia”*



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*If your skills include the development of surgical procedures, then this program in Locoregional Anesthesia in Major Ambulatory Surgery is for you”*

The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*Master the selection criteria for the patient and the different types of units and organizations that exist in the AMC circuit.*

*Delves into the different types of complications in CMA, and how to prevent them to ensure patient safety.*



# 02 Objectives

This program has been designed with the objective of updating health professionals in locoregional anesthesia techniques, allowing them to apply this technique in a more precise and differentiated manner in major ambulatory surgery. It also seeks to reduce the risk of complications and accelerate patient recovery through the application of regional anesthesia. Thus, graduates will be equipped with the most updated content to prevent and reduce risks and errors in their practice, providing more effective and safer care for patients in the field of anesthesiology.







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*The goals you always wanted to achieve are just a step away. Put your career in Locoregional Anesthesia on track and be the best in your field”*



## General Objectives

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- ♦ Learn in depth the fundamentals that allow us to perform procedures with regional anesthesia
- ♦ Familiarize with the anatomy, physiology and pharmacology applied to regional anesthesia
- ♦ Specifically study the types of central blocks, as well as their indications, contraindications, technical aspects and complications
- ♦ Specifically study the types of peripheral blocks, as well as their indications, contraindications, technical aspects and complications
- ♦ Review limb, head, neck, thoracic and abdominal blocks, as well as those useful for difficult airway management
- ♦ Review the basic fundamentals of electrostimulation and ultrasound and apply them to the performance of blocks
- ♦ Being familiar with the equipment necessary to perform the blocks
- ♦ Know in depth the current clinical practice guidelines for the preoperative management of patients requiring regional anesthesia
- ♦ List the particularities of outpatient surgery requiring regional anesthesia. Specifically study the types of Peripheral blocks, as well as their indications, contraindications, technical aspects and complications





## Specific Objectives

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- ◆ Understand the organization and planning of Major Outpatient Surgery Units
- ◆ Analyze the criteria for the choice of surgical procedures, as well as the selection of patients for Major Outpatient Surgery
- ◆ Analyze the available anesthetic techniques to establish an adequate anesthetic plan to each patient and procedure
- ◆ Assess therapeutic options for optimal postoperative pain control
- ◆ Thorough knowledge of UCMA discharge criteria, as well as hospital admission criteria and possible complications

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*Achieve your objectives thanks to an extensive library of teaching resources and with the best professionals”*



# 03

# Course Management

For this Regional Anesthesia in Major Ambulatory Surgery program, TECH has assembled a highly trained faculty with vast experience in the field of anesthesiology and ambulatory surgery. These experts are committed to providing students with the most cutting-edge tools and knowledge to apply the locoregional anesthesia technique accurately and safely, reduce the risk of complications and accelerate patient recovery. In this way, students will learn from a renowned teaching team in the field, ensuring a flexible and high quality educational experience in a 100% online format.





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*It succeeds with a highly qualified and experienced faculty of excellence in the field of anesthesiology and ambulatory surgery”*

## Management



### Ms. Burgueño González, María Dolores

- ◆ Faculty Specialist in Anesthesiology and Resuscitation at the University Hospital La Paz
- ◆ Anesthesia Coordinator of Cantoblanco Hospital
- ◆ Responsible for Surgical Patient Safety at Cantoblanco Hospital
- ◆ Specialist Physician at Virgen del Mar Hospital
- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid
- ◆ MIR in Anesthesiology, Resuscitation and Pain Therapy at University Hospital La Paz
- ◆ Master PROANES: Official Updating Program in Anesthesiology, Resuscitation and Pain Therapy by the Catholic University of Valencia
- ◆ Postgraduate Diploma in Airway Management by the Catholic University of Valencia

## Professors

### Dr. Salgado Aranda, Patricia

- ◆ Faculty Specialist in Anesthesiology and Resuscitation at the University Hospital La Paz
- ◆ Teaching and research experience
- ◆ Clinical Teaching Collaborator of the University Hospital La Paz
- ◆ PhD from the Autonomous University of Madrid
- ◆ Degree in Medicine from the University of Alcalá, Spain
- ◆ Master's Degree in Infectious Diseases in Intensive Care
- ◆ Member of the Illustrious Official College of Physicians of Madrid

### Dr. Zurita Copoví, Sergio

- ◆ FE in Anesthesiology and Resuscitation at Hospital Universitario La Paz Clinical Teaching Collaborator at Hospital Universitario La Paz
- ◆ Specialist Physician at the Virgen del Mar Hospital
- ◆ Resident Tutor at the University Hospital La Paz
- ◆ Clinical teaching collaborator at the Autonomous University of Madrid
- ◆ Degree in Medicine and Surgery from the University of Valencia
- ◆ Master's Degree in Clinical Management, Medical and Health Care Management
- ◆ Master in Patient Management
- ◆ European Postgraduate Certificate in Anesthesia and Critical Care
- ◆ Member of the Spanish Society of Anesthesiology and Pain Treatment (SEDAR)



**Dr. Sancho De Ávila, Azahara**

- ♦ Free practice anesthesiologist at La Zarzuela Hospital
- ♦ Clinical Teaching Collaborator of the University Hospital La Paz
- ♦ Doctor in Medicine and Surgery from the University of La Laguna
- ♦ Degree in Medicine from the Autonomous University of Madrid. Madrid
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Therapy by MIR examination at the University Hospital Nuestra Señora de la Candelaria

**Dr. Canser Cuenca, Enrique**

- ♦ Faculty Specialist in Anesthesiology and Resuscitation at the University Hospital La Paz
- ♦ Specialist in Anesthesiology and Resuscitation at the University Hospital La Paz
- ♦ Residency in the Department of Anesthesiology and Resuscitation at the University Hospital La Paz
- ♦ PhD in "Neurosciences: Morphofunctional organization of the nervous system"
- ♦ Degree in Medicine from the Faculty of Salamanca
- ♦ Master in Pathophysiology and Treatment of Pain by the Autonomous University of Barcelona
- ♦ Master's Degree in Palliative Medicine and Supportive Care of the Cancer Patient

**Dr. Rodríguez Roca, María Cristina**

- ♦ FEA of Anesthesiology and Resuscitation at the University Hospital of La Paz
- ♦ Teaching and research experience in several university centers
- ♦ PhD from the Autonomous University of Madrid
- ♦ Degree in Medicine and Surgery from the University of Large
- ♦ European Postgraduate Certificate in Anesthesia and Critical Care (EDAIC)
- ♦ Member of the Spanish Society of Anesthesiology and Pain Treatment (SEDAR)
- ♦ Member of the working group of Chronic Pain of the Spanish Society of Anesthesiology and Resuscitation

**Dr. Martín Martín, Almudena**

- ♦ Faculty Specialist in Anesthesiology and Resuscitation at the University Hospital La Paz
- ♦ Anesthesiology and Resuscitation at the University Hospital La Paz the Light
- ♦ Anaesthesiology and resuscitation at the Virgen del Mar Hospital
- ♦ Clinical Teaching Collaborator of the University Hospital La Paz
- ♦ Degree in Medicine from the Autonomous University Madrid
- ♦ MIR in Anesthesiology, Resuscitation and Pain Therapy at the University Hospital La Paz.,
- ♦ Master of Continuing Education in "Patient Management"

**Dr. Vallejo Sanz, Irene**

- ♦ Faculty Specialist in Anesthesiology and Resuscitation at the University Hospital La Paz
- ♦ Collaborator in Clinical Simulation workshops
- ♦ Degree in Medicine from the Autonomous University Madrid
- ♦ MIR in Anesthesiology, Resuscitation and Pain Therapy
- ♦ European Diploma of Anaesthesiology and Intensive Care, EDAIC part I
- ♦ Member of the Illustrious Official College of Physicians of Madrid
- ♦ Member of the Spanish Society of Anesthesiology and Pain Treatment (SEDAR)

# 04

## Structure and Content

This Postgraduate Certificate details the different aspects related to Locoregional Anesthesia in Major Ambulatory Surgery, from its definition and current situation, to the criteria for patient selection and the importance of the pre-anesthesia consultation. In addition, the anesthetic and analgesic techniques used in CMA are presented, as well as the complications that may arise during the surgical process. Ensure a complete update for the students, the Relearning methodology will be incorporated to the program, allowing the revision of the most relevant aspects for a better consolidation of the contents.





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*With this study plan you will address the different indicators of quality of care in CMA and their application to ensure excellence in medical care”*

## Module 1. Major Outpatient Surgery

- 1.1. Major Outpatient Surgery
  - 1.1.1. What is Major Outpatient Surgery?
  - 1.1.2. History
- 1.2. Current Situation of Major Outpatient Surgery
  - 1.2.1. Implementation Difficulties
  - 1.2.2. Cost-Effectiveness Approach
  - 1.2.3. Achievements of Major Outpatient Surgery
- 1.3. CMA Circuit
  - 1.3.1. Types of Units
  - 1.3.2. Structure and Organization
- 1.4. Selection Criteria
  - 1.4.1. What Surgical Procedures Can Be Performed?
  - 1.4.2. Which Patients do we Select?
- 1.5. Role of the Pre-Anesthesia Consultation
  - 1.5.1. Preanesthesia Consultation
  - 1.5.2. Patient Preparation
- 1.6. Anesthetic Technique Selection
  - 1.6.1. What Anesthetic Technique do we Use?
  - 1.6.2. Opioids in Major Outpatient Surgery
- 1.7. Pain Control in Major Outpatient Surgery
  - 1.7.1. Pain Relieving Techniques
  - 1.7.2. Multimodal Analgesia
- 1.8. Complications in Major Ambulatory Surgery
  - 1.8.1. Nausea and Vomiting
  - 1.8.2. Pain
  - 1.8.3. Urinary Retention
  - 1.8.4. Other Complications







- 1.9. Discharge from the Major Outpatient Surgery Unit
  - 1.9.1. Discharge Criteria at Home
  - 1.9.2. Hospital Admission Criteria
- 1.10. Morbimortality, Safety and Quality in Major Outpatient Surgery
  - 1.10.1. Morbidity and Mortality Data
  - 1.10.2. Security/Safety
  - 1.10.3. Indicators of Quality of Care

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*A study framework created to make medical professionals leaders in the use of the most advanced anesthetic techniques”*

# 05 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.



# 06 Certificate

The Postgraduate Certificate in Locoregional Anesthesia in Major Outpatient Surgery guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Locoregional Anesthesia in Major Outpatient Surgery** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Locoregional Anesthesia in Major Outpatient Surgery**

Official N° of hours: **150 h.**



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



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guarantee accreditation teaching  
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community commitment  
personalized service innovation  
knowledge present  
development lang  
virtual classroom

**tech** technological  
university

**Postgraduate Certificate**  
Locoregional Anesthesia in  
Major Outpatient Surgery

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