



Pharmacological Management and Analgesic Modalities in Pain Control

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/pharmacological-management-analgesic-modalities-pain-control

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Certificate





tech 06 | Introduction

This Postgraduate Certificate has been designed by anesthesiologists with extensive experience in pain management, both acute and chronic, in daily clinical practice, so it offers Students a global vision of the clinical problem of pain in our environment.

A thorough, practical and up-to-date knowledge of the drugs available for pain control is considered essential. Therefore, this training provides an update in pharmacology related to the control of acute postoperative pain and chronic pain. In addition, it includes material for learning the most effective routes of administration for each type of pain and each circumstance, as well as a description of the devices developed so far, their indications, beneficial effects and side effects.

This course also focuses on analgesic therapies with adjuvant drugs, which contribute to pain control in complex circumstances and which require a specific study of their indications within pain therapy. Thus, the student will be introduced to the study of preemptive analgesia and preventive analgesia, and to the concept of multimodal analgesia. Multiple studies have shown that these pain control models are part of effective therapeutic strategies in acute postoperative and chronic pain.

After completing and passing the course, students will have acquired the theoretical knowledge necessary to carry out an effective approach to pain in the main areas of action of the anesthesiologist.

This Postgraduate Certificate in Pharmacological Management and Analgesic Modalities in Pain Control contains the most complete and up-to-date educational program on the market. The most important features of the course are:

- Developing practical cases presented by experts in Pharmacological Management and Analgesic Modalities in Pain Control.
- The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- News on Pharmacological Management and Analgesic Modalities in Pain Control.
- Practical exercises where the self-assessment process can be carried out to improve learning.
- Special emphasis on innovative methodologies in Pharmacological Management and Analgesic Modalities in Pain Control.
- 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.



With this Postgraduate Certificate in Pharmacological Management and Analgesic Modalities in Pain Control you will be able to improve your daily practice"



This postgraduate may be the best investment you can make when choosing a a refresher program for two reasons: in addition to updating your knowledge in Pharmacological Management and Analgesic Modalities in Pain Control, you will obtain a certificate from TECH Global University"

The teaching staff includes professionals from the field of Pharmacological Management and Analgesic Modalities in Pain Control, who bring their experience to this training program, as well as renowned specialists from leading communities and prestigious universities.

The 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 immersive training programmed to train in real situations.

This program is designed around Problem Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the professional will be assisted by an innovative interactive video system developed by renowned experts in Pharmacological Management and Analgesic Modalities in Pain Control, and with great medical experience.

Don't miss the opportunity to join our team You will be able to work with the best didactic material

This Postgraduate Certificate will allow you to combine your studies with your professional work and your private life, as it is 100% online + Naloxonhydrochlori ehr starken Schmerzen orld und Naloxonhydrochlorid ratiopharm en Schmerzen Nidin-ratiopharm plus 100 mg/8 mg Retardtabletter. 20 Retardtabletten N1 ratiopharm GmbH, Graf-Arco-Str. 3





tech 10 | Objectives



General Objective

- Update knowledge on pathophysiology, neuroanatomy, and etiopathogenesis of pain.
- Acquire the skills to adequately assess pain based on the patient's clinical history and physical examination.
- Obtain the necessary knowledge to determine the diagnostic methodology in the patient suffering from pain.
- Establish the updated theoretical basis of pharmacological therapies useful in the treatment of pain
- Know the advances in non-pharmacological therapies and invasive therapies in the control of acute and chronic pain.
- Develop competencies for the adequate control of pain in the perioperative period in different clinical situations and surgical procedures.
- Broaden knowledge of pain management in the gynecological and obstetrical field.
- Delve into the most relevant concepts of pain management in pediatric patients.
- Achieve the ability to define, evaluate, and determine the diagnostic and therapeutic approach in patients with chronic pain of neuropathic, musculoskeletal, oncologic, and visceral origin.





Objectives | 11 tech



Specific Objectives

- Know the Main Groups of Medications Used in Pain Management (Antipyretics, Anti-inflammatory Medications, and Opioids), their Beneficial Effects, Side Effects, Indications, and Contraindications.
- Acquire Updated Theoretical Knowledge on Pharmacology Related to Analgesia.
 New Formulations, Dosages.
- Know the Main Groups of Local Anesthetics used in the Management of Pain in the Surgical and Extra-Surgical Field.
- Indications, Contraindications, Side Effects.
- Expand the Knowledge of the Usefulness of Adjuvant Medications in Pain Control Mechanisms of Action, Dosage, Effectiveness. The Current State of Liver Transplantation.
- Introduce the Concepts of Multimodal, Pre-emptive, and Preventive Analgesia in Order to Generate Tools for Pain Management in the Surgical and Non-Surgical Setting.

Update your knowledge through the Postgraduate Certificate in Pharmacological Management and Analgesic Modalities in Pain Control





International Guest Director

Dr. Shehebar specializes in sports/spinal pain management, musculoskeletal medicine and cancer pain management. He utilizes several treatment modalities uniquely tailored to the patient. Each can expect a highly personalized, evidence-based medical evaluation to analyze, diagnose and treat pain symptoms or pain-related conditions.

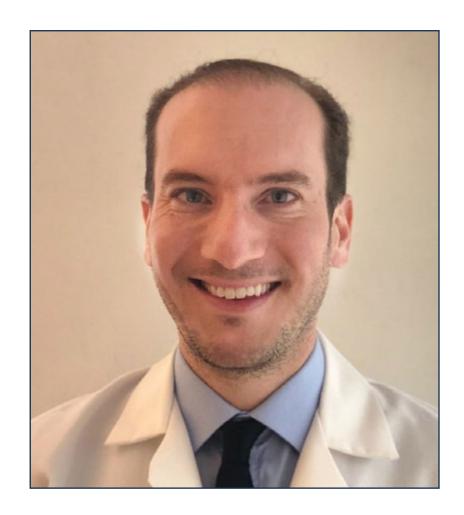
Dr. Shehebar performs epidurals, medial branch (facet blocks), radiofrequency ablation, muscle trigger point injections, spinal cord/peripheral nerve stimulators, platelet rich plasma, joint and nerve injections using imaging guidance including fluoroscopy and ultrasonography. He is part of the comprehensive pain management subdepartment and is interested in employing multimodal therapies along with rehabilitation techniques.

Dr. Mourad M. Shehebar is an Assistant Professor of Anesthesiology, Perioperative and Pain Medicine at the Icahn School of Medicine at Mount Sinai. He received his undergraduate degree in Psychology and Biology from Baruch College in New York and his medical degree from the George Washington University School of Medicine and Health Sciences, Washington, D.C.

After a medical internship at Beth Israel Medical Center, Dr. Shehebar completed his board certification residency in Anesthesiology at the Icahn School of Medicine at Mount Sinai and, in addition, completed his fellowship in Interventional Pain Medicine at the Icahn School of Medicine at Mount Sinai.

As of January 2020, Dr. Shehebar has assumed the role of Associate Director of the Mount Sinai Pain Fellowship Program. In 2022, Dr. Shehebar has been promoted to Director of the Pain Management Fellowship Program at Mount Sinai.

He has been featured in New York Magazine and has also been named: Castle Connolly's Top Doctors New York Metro Area: 2021, 2022.



Dr. Shehebar, Mourad M.

- Director of the Pain Management Fellowship Program at Mount Sinai New York
- · Mount Sinai Health System Pain Unit Physician.
- Assistant Professor of Anesthesiology, Perioperative and Pain Medicine at the Icahn School of Medicine at Mount Sinai.
- Mount Sinai New York Pain Medicine Fellow
- Resident, Department of Anesthesiology Mount Sinai Hospital, New York
- Intern, Internal Medicine, Mount Sinai Beth Israel Internal Medicine
- Medical Degree, George Washington University, Washington D.C.
- B.A. Summa Cum Laude in Psychology and Biology from Baruch College in New York City



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Management



Dr. Arance García, Magdalena

- Degree in Medicine and Surgery from the University of Seville (July 2000)...
- Specialty in Anesthesia, Resuscitation, and Pain Therapy. Virgen Arrixaca University Hospital. Mucia 2002-2006
- Specialist in Anesthesiology and Resuscitation. Clinical Management Unit Surgical Block. Virgen del Rocío University Hospital (Seville)

Professors

Dr. Jiménez Pancho, Ana Isabel

- Degree in Medicine and Surgery from the University of Seville in June 2006..
- Master's Degree in Pain Treatment. Edition 2012-2013 taught by the University of Seville.
- Specialist in Anesthesiology, Resuscitation and Pain Therapy at the Virgen del Rocio University Hospital. Since 2015.







tech 20 | Structure and Content

Module 1. Pharmacology of Pain

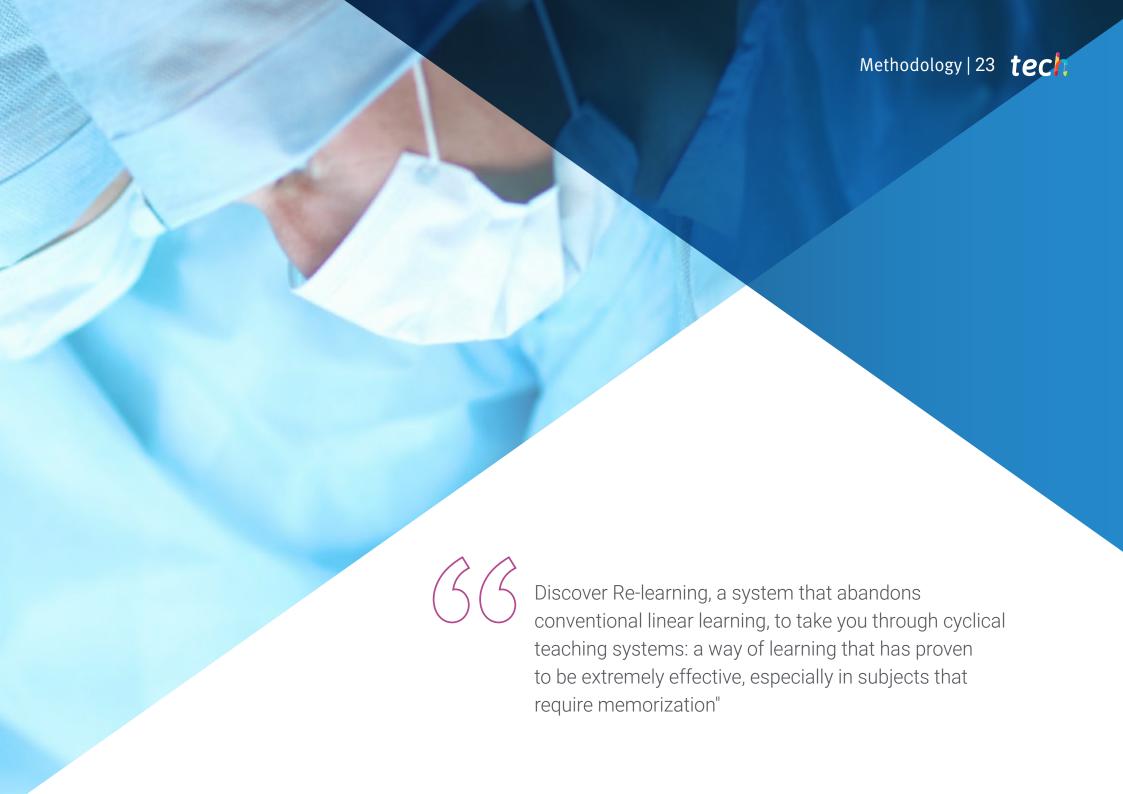
- 1.1. General Information on Pharmacological Management of Pain.
- 1.2. Analgesic Antipyretic Medications.
- 1.3. Nonsteroidal Anti-inflammatory Drugs (NSAIDs).
- 1.4. Steroid Anti-inflammatory Drugs.
- 1.5. Opioid Analgesics
- 1.6. Local Anesthetic.
- 1.7. Analgesic Adjuvants
- 1.8. Routes and Techniques of Analgesic Administration.
- 1.9. Multimodal Analgesia
- 1.10. Pre-emptive Analgesia and Pre-emptive Analgesia.











tech 24 | Methodology

At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can 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 potential 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 professional medical practice.



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:

- Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
- 2. The learning process has a clear focus on 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.





Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.

The physician will learn through real cases and by solving complex situations in simulated learning environments These simulations are developed using state-of-theart software to facilitate immersive learning



Methodology | 27 tech

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

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards

In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Latest Techniques and Procedures on Video

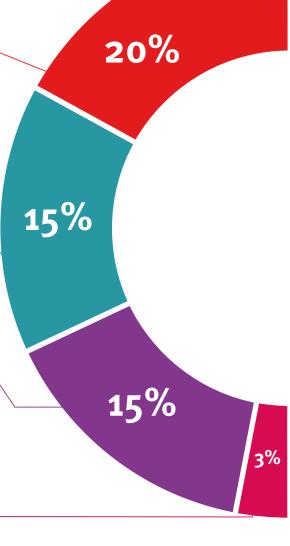
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

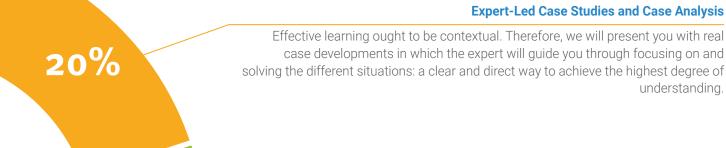
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





understanding.



Testing & Retesting



We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.

Classes



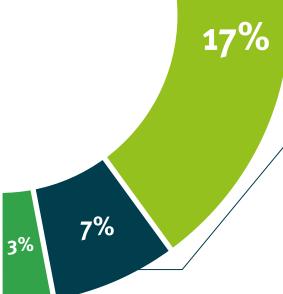
There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.

Quick Action Guides



We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.







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This program will allow you to obtain your **Postgraduate Certificate in Pharmacological Management and Analgesic Modalities in Pain Control** 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: Postgraduate Certificate in Pharmacological Management and Analgesic Modalities in Pain Control

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



Mr./Ms. ______, with identification document ______ has successfully passed and obtained the title of:

Postgraduate Certificate in Pharmacological Management and Analgesic Modalities in Pain Control

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



health

guarantee

technology

technology

to global
university

Postgraduate Certificate

Pharmacological Management and Analgesic Modalities in Pain Control

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

