

Postgraduate Certificate

Chronic Neuropathic and Musculoskeletal Pain





Postgraduate Certificate

Chronic Neuropathic and Musculoskeletal Pain

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Global University
- » Credits: 12 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/chronic-neuropathic-musculoskeletal-pain

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01

Introduction

Pain management is an important facet of medical work, since it improves the quality of life of patients. This makes it necessary to update their knowledge with training such as this Postgraduate Certificate, which provides the tools to reach a correct diagnosis and therapeutic management of chronic pain and its major challenges, such as Neuropathic and Musculoskeletal Pain.





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Learning to manage patients' pain is one of the most important aspects of doctors"

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.

Thus, with this training, the student will be able to learn about the main types of chronic pain. The Postgraduate Certificate begins with neuropathic pain, encompassing those acute and chronic pain syndromes that share as their etiological bases damage to the nervous system. It includes a group of pathologies that affect a considerable part of the population in our environment and whose incidence is progressively increasing.

Today, neuropathic pain is considered a difficult pain to treat. Poor response to the usual means of pain management means that specific pain management strategies are required, and health care professionals involved in pain management should be familiar with these strategies.

The following topic will deal with musculoskeletal pain, which is one of the most prevalent pain entities in our environment, since a large part of the population, regardless of age, suffers from this type of pain to a greater or lesser extent. Musculoskeletal pain is associated with multiple musculoskeletal, trauma and systemic pathologies.

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 Chronic Neuropathic and Musculoskeletal Pain** contains the most complete and up-to-date scientific program on the market. The most important features of the course are:

- ▮ Practical cases presented by experts in Chronic Pain.
- ▮ 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.
- ▮ The latest developments in Chronic Pain.
- ▮ Practical exercises where the self-assessment process can be carried out to improve learning.
- ▮ Special emphasis on innovative methodologies in chronic pain
- ▮ 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.



This training program is the best option you can find to specialize in the Integral Approach to Acute Postoperative Pain and Chronic Pain"



*Do not hesitate to take this training with us.
You will update your knowledge in chronic
pain and obtain a certificate from TECH
Global University"*

The teaching staff includes professionals from the field of Chronic Pain, 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 created by renowned and experienced experts in Chronic Pain with extensive medical experience.

*This Postgraduate Certificate
will allow you to train with the
best didactic methodology and in
simulated scenarios that will allow
you to train in real situations*

*As it is 100% online, you will be able
to combine the completion of this
Postgraduate Certificate with your
work and family life*



02 Objectives

The Postgraduate Certificate in Chronic Neuropathic and Musculoskeletal Pain fosters the development of advanced competencies to effectively identify, assess, and address the various manifestations of this type of pain. As a result, graduates will be able to apply precise clinical tools, integrate innovative therapeutic approaches, and design intervention plans tailored to each patient's specific needs. Additionally, they will acquire the skills to optimize decision-making in complex contexts, coordinate multidisciplinary strategies, and provide guidance on the use of updated techniques. All of this is done with an emphasis on improving clinical outcomes and enhancing professional excellence.



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You will refine your ability to integrate different clinical strategies, from physical examination to the most innovative treatments in Chronic Pain”



General Objectives

- ♦ Acquire a deep understanding of the epidemiology, pathophysiology, and neuroanatomy of pain to properly assess and diagnose various painful conditions
- ♦ Apply effective strategies for the pharmacological and non-pharmacological management of pain, including multimodal analgesia and interventional techniques
- ♦ Develop skills to address acute postoperative pain, particularly in complex clinical situations such as thoracic, cardiac, and abdominal surgery
- ♦ Optimize the management of chronic pain, with a focus on neuropathic, musculoskeletal, and oncological pain, through accurate diagnoses and advanced therapies
- ♦ Deepen knowledge in pain management for pediatric patients, considering both acute postoperative pain and chronic pain associated with various conditions
- ♦ Enhance the ability to apply interventional techniques such as muscle and joint blocks, radiofrequency, and neurostimulation for effective pain control
- ♦ Incorporate psychological and psychosocial treatment strategies in pain care to address the patient's needs holistically
- ♦ Explore advanced neuro-surgical interventions, such as spinal cord stimulation and the implantation of intrathecal infusion systems, for managing refractory pain





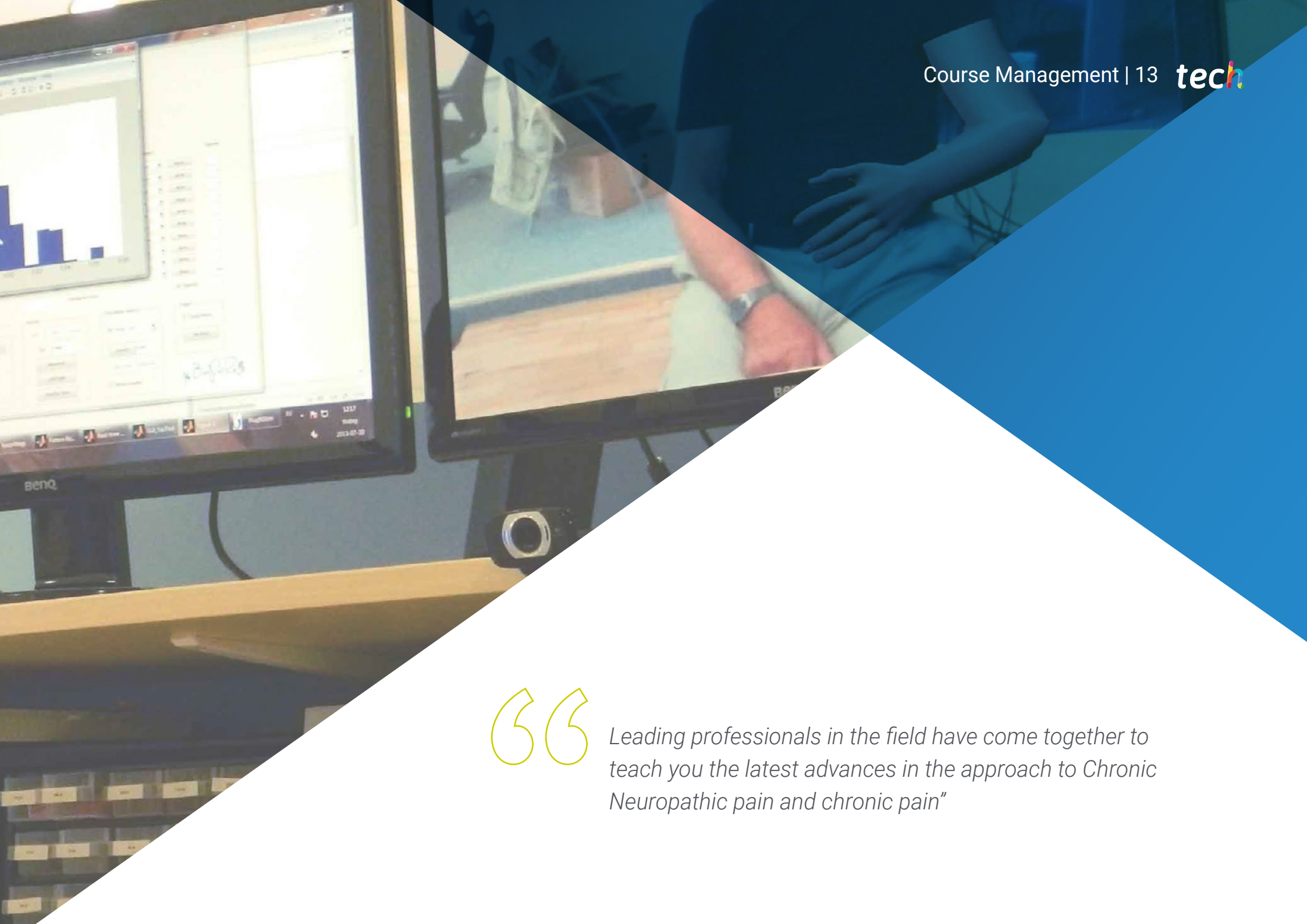
Specific Objectives

- ♦ Define neuropathic pain, its main characteristics, and the most relevant classifications in the clinical field
- ♦ Identify the key clinical and diagnostic considerations for an appropriate approach to neuropathic pain
- ♦ Implement effective therapeutic strategies for managing and controlling neuropathic pain, tailored to each patient
- ♦ Distinguish between different types of neuropathic pain, such as Complex Regional Pain Syndrome and Postherpetic Neuralgia
- ♦ Explain the main considerations regarding musculoskeletal pain, its definition, and classification
- ♦ Describe the epidemiology and most common causes of musculoskeletal pain in various contexts
- ♦ Apply appropriate diagnostic methods to assess musculoskeletal pain in patients with different conditions
- ♦ Implement the most effective therapeutic measures for controlling musculoskeletal pain, considering comorbidities and the specific needs of each patient

03 Course Management

The program's teaching staff includes leading experts in Chronic Neuropathic and Musculoskeletal Pain who contribute their vast work experience to this training program. Additionally, other recognized experts have participated in its design and preparation, complementing the program in an interdisciplinary manner.





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Leading professionals in the field have come together to teach you the latest advances in the approach to Chronic Neuropathic pain and chronic pain”

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



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

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. Murcia 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.

Dr. Casado Pérez, Gloria

- Degree in Medicine and Surgery from the University of Seville, 2004.
- Master's Degree in Pain Treatment. 2013. University of Seville.
- Specialist in Anesthesiology, Resuscitation, and Pain Management. MIR Training During the 2010-2014 in Virgen del Rocio University Hospitals. Seville
- Specialist in Anesthesiology and Resuscitation. Clinical Management Unit Surgical Block General Hospital Pain Treatment Unit.
- Virgen del Rocío University Hospital (Seville) Since 2014



04

Structure and Content

The academic journey of this university qualification will provide an in-depth understanding of Neuropathic Pain, granting the ability to differentiate its types and understand its pathophysiological mechanisms. Additionally, clinical and diagnostic considerations will be addressed, enhancing the skills needed for early identification and precision in evaluation. Specialists will also examine Complex Regional Pain Syndrome and other central-origin forms, strengthening the ability to design specific therapeutic strategies. Similarly, the study of Musculoskeletal Pain will enhance expertise in physical examination, comprehensive diagnosis, and the selection of therapeutic measures tailored to each clinical case.



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You will have access to a program designed by experts, covering everything from the diagnosis of Neuropathic Pain to the clinical evaluation of Musculoskeletal Pain, strengthening your clinical judgment with real-life cases.

Module 1. Chronic Pain: Neuropathic Pain

- 1.1. General Information about Neuropathic Pain. Definition. Classification
- 1.2. Clinical and Diagnostic Considerations of Neuropathic Pain
- 1.3. Complex Regional Pain Syndrome (CRPS)
- 1.4. Neuropathic Pain of Central Origin
- 1.5. Phantom Limb Pain
- 1.6. Postherpetic Neuralgia
- 1.7. Polyneuropathies
- 1.8. Facial Pain

Module 2. Chronic Pain: Musculoskeletal Pain

- 2.1. General Considerations. Definition and Classification
- 2.2. Epidemiology and Etiology of Musculoskeletal Pain
- 2.3. Clinical History and Physical Examination of Musculoskeletal Pain
- 2.4. Diagnosis of Musculoskeletal Pain
- 2.5. Therapeutic Measures in Musculoskeletal Pain Control
- 2.6. Myopathies
- 2.7. Pain of Joint Origin
- 2.8. Fibromyalgia, Chronic Fatigue Syndrome, and Central Sensitivity Syndrome
- 2.9. Failed Back Surgery Syndrome (FBSS)





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In this syllabus, you will explore everything from Complex Regional Pain Syndrome to joint-origin pain, expanding your ability to identify and precisely manage various clinical presentations”

05 Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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.



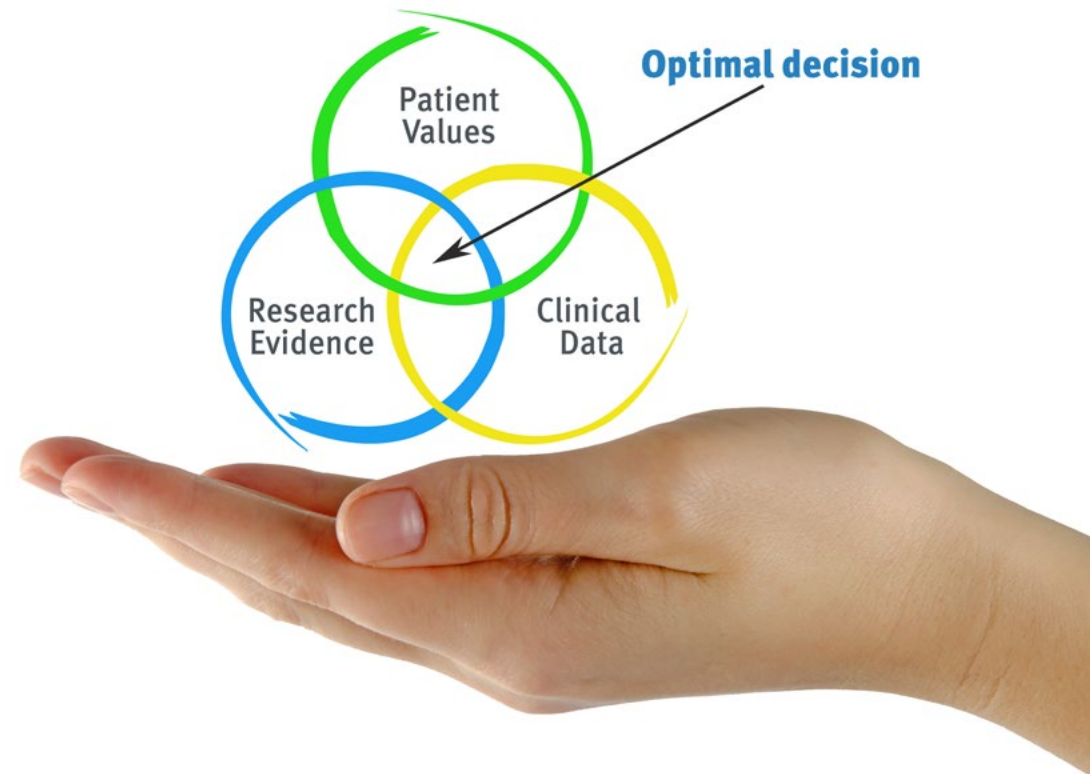
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Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

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. Gervas, 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.

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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 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-the-art software to facilitate immersive learning



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

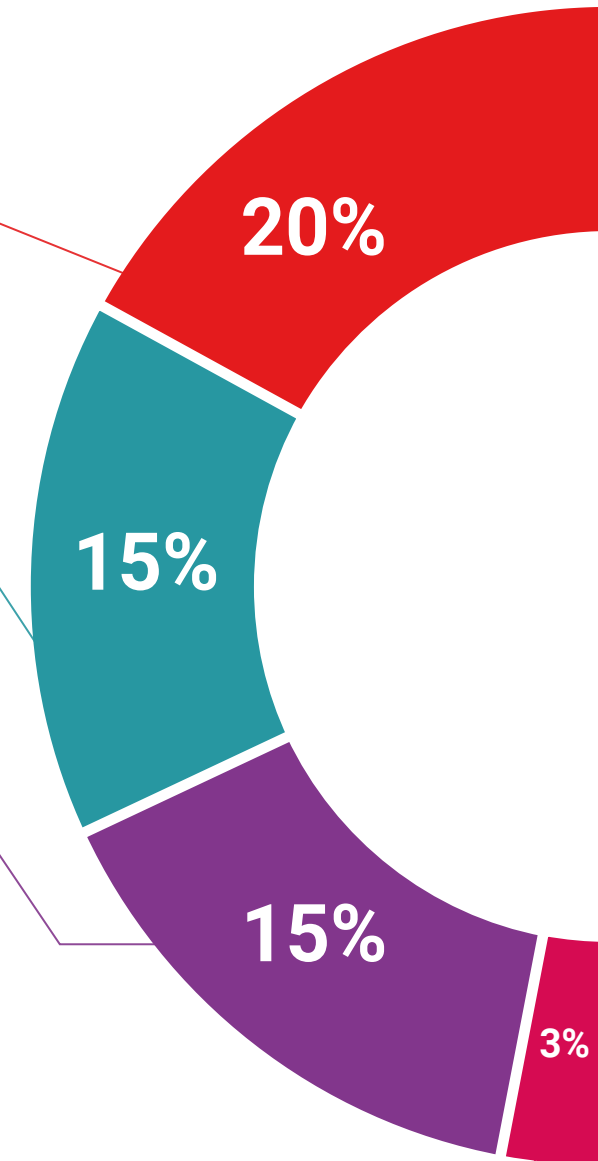
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

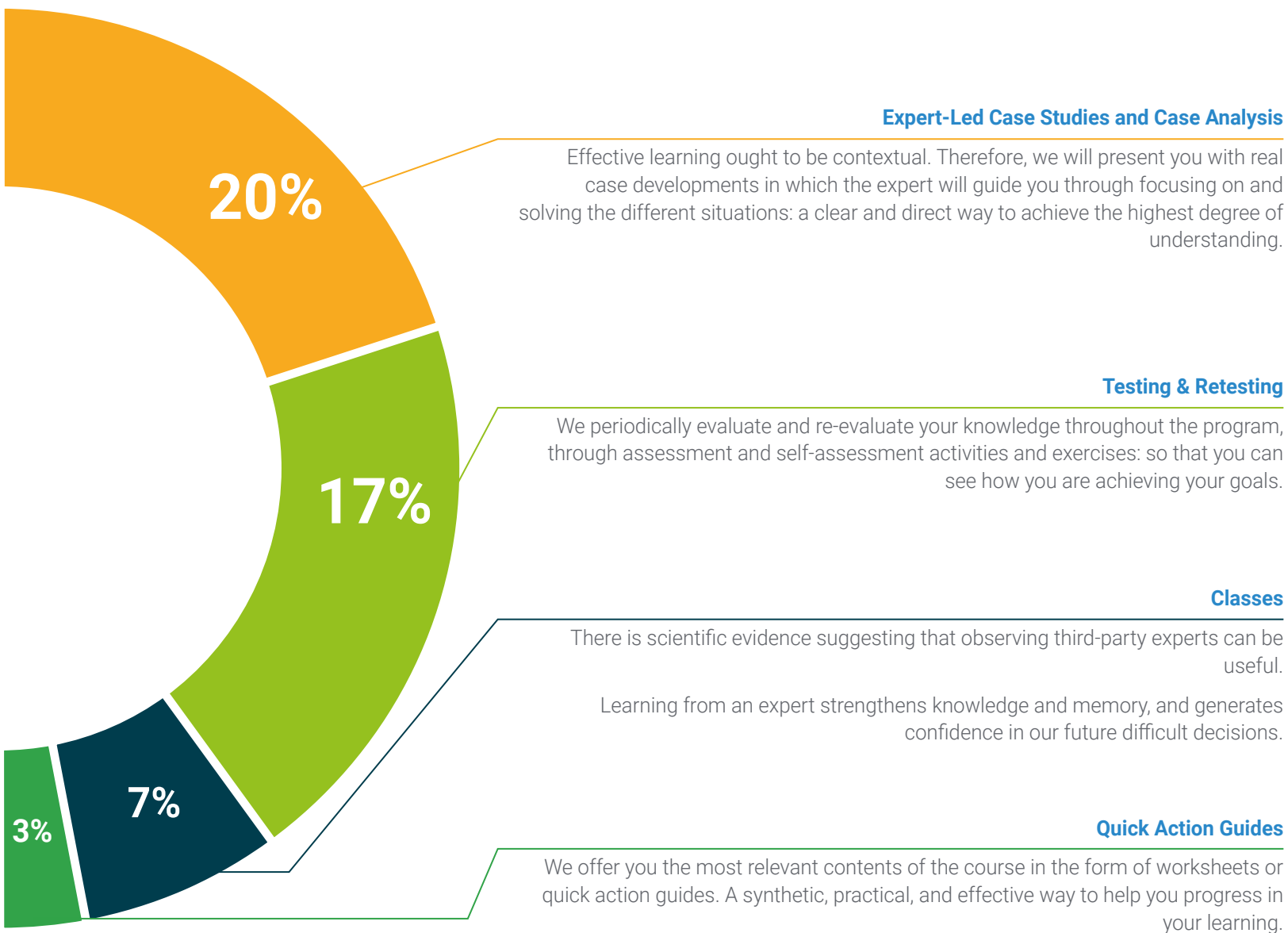
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



Additional Reading

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





06 Certificate

The Postgraduate Certificate in Chronic Neuropathic and Musculoskeletal Pain guarantees you, in addition to the most rigorous and updated training, access to a certificate issued by TECH Global University.



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Successfully complete this training and receive your diploma without the hassle of travel or paperwork"

This program will allow you to obtain your **Postgraduate Certificate in Chronic Neuropathic and Musculoskeletal Pain** 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 Chronic Neuropathic and Musculoskeletal Pain**

Modality: **online**

Duration: **12 weeks**

Accreditation: **12 ECTS**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
online training
development language
virtual classroom



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