Master's Degree

Pain

tech global university

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Master's Degree

Pain

- Modality: **online**
- Duration: **12 months**
- Certificate: **TECH Global University**
- Accreditation: **60 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: www.techtitute.com/us/medicine/master-degree/master-degree-pain

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01

Introduction to the Program

Pain affects a significant proportion of the global population, representing a constant challenge for healthcare professionals. According to the World Health Organization, around 20% of adults suffer from chronic pain, highlighting the magnitude of this problem worldwide. This phenomenon, with multiple causes and complexities, therefore requires specialized attention for its diagnosis, management, and treatment. In this context, TECH's academic plan positions itself as a key tool for students, providing advanced training that covers both the latest scientific aspects and best clinical practices in pain management.

With this 100% online program, you will enhance your ability to address pain with absolute precision, applying the most advanced strategies for its management and treatment"

Pain management has become one of the most critical challenges in contemporary medicine. This includes various etiologies, ranging from acute postoperative pain to complex chronic pain syndromes, such as neuropathic and oncological pain. In this context, the constant evolution of pain research, coupled with the growing demand for specialized care, requires healthcare professionals to stay informed about the latest advances in diagnosis, assessment, and treatment.

For this reason, TECH Global University has developed a comprehensive academic program that delves into the most relevant aspects of pain management, covering everything from pain classification and neuroanatomy to pharmacological and non-pharmacological treatments. The curriculum includes specific concepts and information in key areas such as neuropathic, musculoskeletal, and oncological pain, providing professionals with advanced tools for diagnosis and intervention.

Consequently, students will have access to an exclusive, 100% online Master's Degree, available 24/7 from any internet-enabled device. This flexible format is tailored to meet the needs and schedules of busy professionals. Through the Relearning methodology, specialists will review and reinforce the content, ensuring a deep and lasting understanding.

Additionally, to further enrich the experience, the program will feature a prestigious International Guest Director, who will lead 10 Masterclasses that dive deeper into each module, offering a unique and highly specialized perspective.

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

- The development of practical case studies presented by experts in Medicine
- 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

You will optimize the management of pediatric and geriatric pain through 10 innovative Masterclasses, led by a renowned International Guest Director"

You will develop advanced skills in the evaluation and management of both chronic and acute pain, integrating the latest therapeutic techniques"

Thanks to this Master's Degree, you will successfully manage postoperative pain, applying advanced preventive analgesia techniques.

You will enhance your skill in pain assessment, considering psychological, social, and behavioral factors.

The faculty includes professionals from the medical field who bring their practical experience to this program, alongside recognized specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide professionals with situated and contextualized learning—meaning a simulated environment that offers an immersive study experience, designed to train you for real-life situations.

This program is designed around Problem-Based Learning, whereby the student must try to solve the different professional practice situations that arise throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

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Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs, available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it has a huge faculty of more than 6,000 professors of the highest international prestige.

Study at the largest online university in the world and ensure your professional success. The future begins at TECH"

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.

The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.

Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.

The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.

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Syllabus

The tools provided in this university program equip professionals to effectively address pain management, covering everything from assessment and classification to the treatment of various pathologies. Firstly, with a comprehensive approach, the program delves into the neurobiology of pain and the most current therapeutic strategies. This enables professionals to develop key competencies in managing both acute postoperative and chronic pain. Furthermore, mastering multimodal analgesia techniques and the proper use of pharmacological and non-pharmacological interventions will contribute to enhancing the quality of treatment.

You will acquire the skills to apply therapeutic strategies in managing neuropathic pain, improving outcomes in cases of postherpetic neuralgia"

Module 1. General Aspects of Pain Management and Control

1.1. Epidemiology, Key Concepts and Classification of Pain
1.2. Neuroanatomy and Neurobiology of Pain
1.3. Pathophysiology of Pain
1.4. Pain Assessment
1.5. Clinical History in Patients with Acute Postoperative Pain or Chronic Pain
1.6. Physical Examination of the Patient with Pain
1.7. Complementary Tests for the Diagnosis of Pain
1.8. Psychological, Psychosocial, and Cognitive-Behavioral Aspects of Pain. Psychological Therapy
1.9. Therapeutic Bases for the Treatment of Pain
1.10. Education in Pain for People Outside the Healthcare Field

Module 2. Pharmacology of Pain

2.1. General Information on Pharmacological Management of Pain
2.2. Analgesic Antipyretic Medications
2.3. Nonsteroidal Anti-inflammatory Drugs (NSAIDs)
2.4. Steroid Anti-inflammatory Drugs
2.5. Opioid Analgesics
2.6. Local Anesthetics
2.7. Analgesic Adjuvants
2.8. Routes and Techniques of Analgesic Administration
2.9. Multimodal Analgesia
2.10. Preemptive Analgesia and Preventive Analgesia

Module 3. Acute Postoperative Pain Considerations. Clinical Situations Surgical Procedures

3.1. Perioperative Strategies and Techniques for the Management of Acute Postoperative Pain I. Epidemiology and Assessment
3.2. Perioperative Strategies and Techniques for the Management of Acute Postoperative Pain II: Treatment Management
3.3. Acute Postoperative Pain Management in the Elderly Patient and the Patient with Comorbidities
3.4. Acute Postoperative Pain Management in Major Surgery Outpatient Unit
3.5. Acute Postoperative Pain in Abdominal and Digestive Surgery
3.6. Acute Postoperative Pain in Thoracic Surgery
3.7. Acute Postoperative Pain in Cardiac Surgery
3.8. Acute Postoperative Pain in Orthopedic Surgery and Traumatology
3.9. Recommendations for Acute Postoperative Pain Control: Acute Postoperative Pain Units
3.10. Considerations in the Chronification of Postoperative Acute Pain

Module 4. Pain in Gynecology and Obstetric Patient

4.1. General Considerations of Pain of Gynecologic Origin
4.2. Management of Acute Postoperative Pain in Gynecologic Surgery
4.3. Considerations in Abdomino-Pelvic Pain
4.4. Perineal Pain Management
4.5. Specific Gynecological Pathologies. Pelvic Inflammatory Disease
4.6. Pain Management in Pregnancy
4.7. Pain in Childbirth and Puerperium
4.8. Pain Management During Breastfeeding
4.9. Management of Oncologic Pain of Gynecologic Origin

Module 5. Acute and Chronic Pain in the Pediatric Patient

5.1. General Aspects of Pain in the Pediatric Population in Our Setting
5.2. Assessment of Pain in the Pediatric Population
5.3. Therapeutic Procedures for Pain Management in Pediatric Patients
5.4. Acute Postoperative Pediatric Pain I
5.5. Acute Postoperative Pediatric Pain II
5.6. Chronic Pain in the Pediatric Patient I
5.7. Chronic Pain in the Pediatric Patient II
5.8. Pain in Pediatric Oncology

Module 6. Chronic Pain: Neuropathic Pain

6.1. General Information about Neuropathic Pain. Definition. Classification
6.2. Clinical and Diagnostic Considerations of Neuropathic Pain
6.3. Complex Regional Pain Syndrome (CRPS)
6.4. Neuropathic Pain of Central Origin
6.5. Phantom Limb Pain
6.6. Postherpetic Neuralgia
6.7. Polyneuropathies
6.8. Facial Pain

Module 7. Chronic Pain: Musculoskeletal Pain

7.1. General Considerations. Definition and Classification
7.2. Epidemiology and Etiology of Musculoskeletal Pain
7.3. Clinical History and Physical Examination of Musculoskeletal Pain
7.4. Diagnosis of Musculoskeletal Pain
7.5. Therapeutic Measures in Musculoskeletal Pain Control
7.6. Myopathies
7.7. Pain of Joint Origin
7.8. Fibromyalgia, Chronic Fatigue Syndrome, and Central Sensitivity Syndrome
7.9. Failed Back Surgery Syndrome (FBSS)

Module 8. Chronic Pain: Oncologic Pain

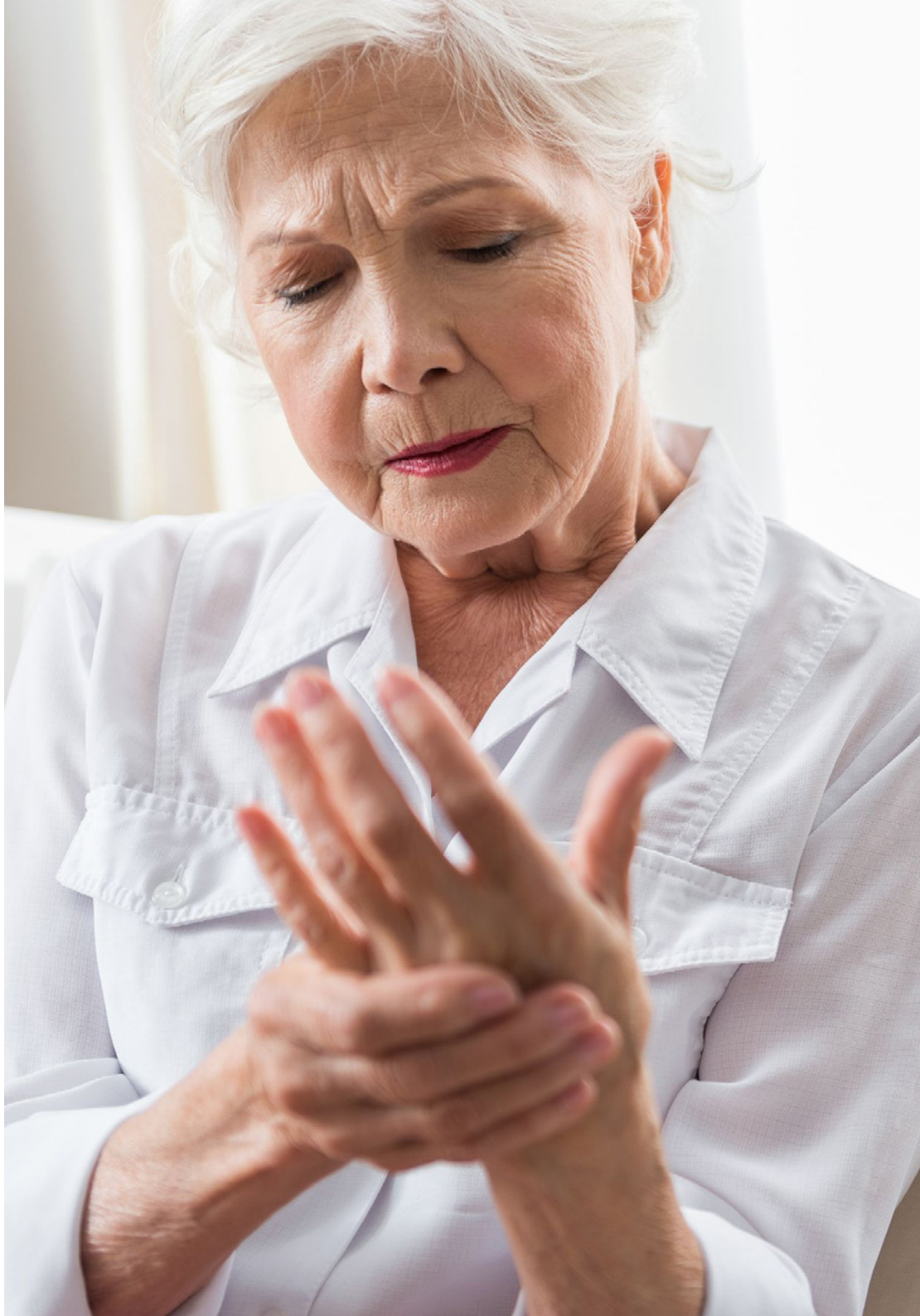
8.1. General Aspects of Oncologic Pain. Current Situation of Oncologic Pain in Our Environment
8.2. Pathophysiology of Oncologic Pain
8.3. Pain Assessment in the Oncology Patient
8.4. Diagnostic Management of Oncologic Pain
8.5. Pharmacological Treatment of Oncologic Pain
8.6. Non-pharmacological Treatment of Oncologic Pain
8.7. Interventional Treatment of Oncologic Pain
8.8. Psychological Treatment of Oncologic Pain
8.9. Specific Considerations in Different Types of Tumors
8.10. Palliative Treatment in the Patient with Oncologic Pain

Module 9. Visceral Pain and Other Clinical Entities in the Field of Chronic Pain

9.1. General Considerations and Etiopathogenesis of Visceral Pain
9.2. Diffuse Abdominal Pain. Pancreatitis (II). Epidemiology and Clinical Evaluation and Diagnostic Methodology
9.3. Diffuse Abdominal Pain. Pancreatitis (II). Diagnostic and Therapeutic Management
9.4. Chronic Pelvic Pain, Interstitial Cystitis and Rectal Pathology (I). Clinical Evaluation and Diagnostic Methodology
9.5. Chronic Pelvic Pain, Interstitial Cystitis, and Rectal Pathology (II). Diagnostic and Therapeutic Management
9.6. Chronic Anginal Pain
9.7. Pain Due to Peripheral Vascular Ischemia
9.8. Updates on Headaches and Migraines I: Generalities
9.9. Updates on Headaches and Migraines II: Clinical Entities

Module 10. Interventional Pain Treatment

10.1. General Considerations on the Interventional Treatment of Pain
10.2. Diagnostic-Therapeutic Block of Trigger and Musculotendinous Points. Deep Muscle Blocks
10.3. Joint Blocks of Shoulder, Knee, Coxo-femoral, Sacroiliac and Other Joints
10.4. Interlaminar and Transforaminal Epidural Blocks under Image Control
10.5. Peripheral Nerve Block and Radiofrequency
10.6. Radiofrequency of Dorsal Root Ganglia: Cervical, Thoracic, Lumbar, or Sacral
10.7. Block and Radiofrequency of Medial Branch Facet Nerve at Cervical, Thoracic, and Lumbar Levels
10.8. Cryoablation Radiofrequency
10.9. Sympathetic Ganglion Block and Radiofrequency: Stellate, Lumbar Sympathetic, Hypogastric, and Impar
10.10. Epiduralysis and Diagnostic-Therapeutic Epiduroscopy
10.11. Neurosurgical Techniques I. Neurostimulation: Epidural Electrode Implantation for Spinal Cord Stimulation, Dorsal Root Ganglion Electrode Implantation (DRG), Subcutaneous Electrode for Peripheral Stimulation.
10.12. Neurosurgical Techniques II: Intrathecal Drug Pump Implant



You will apply advanced techniques for the diagnostic-therapeutic block of trigger points, optimizing the treatment of musculoskeletal pain"

04

Teaching Objectives

This cutting-edge university program aims to provide a deep understanding of pain management, covering everything from diagnosis to treatment. Throughout the curriculum, students will learn to identify different types of pain, apply appropriate pharmacological and non-pharmacological treatments, and manage complex situations such as chronic and postoperative pain. Additionally, they will have the opportunity to address pain in diverse populations, such as pediatric and oncological patients, and in specific pathologies, strengthening their clinical decision-making abilities, optimizing their performance, and contributing to their ongoing professional growth.

You will learn to implement multimodal analgesia strategies to optimize pain control in patients with different types of 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

Module 1. General Aspects of Pain Management and Control

- Identify the main classifications and key concepts related to pain, to improve the understanding of painful phenomena in various clinical conditions
- Develop a deep understanding of the neurobiology and neuroanatomy of pain, facilitating its diagnosis and management in various pathologies
- Integrate knowledge of pain pathophysiology to create effective therapeutic plans tailored to the patient's characteristics
- Implement a comprehensive pain assessment, using clinical tools, physical examination, and complementary tests to establish accurate diagnoses
- Incorporate psychological and psychosocial aspects into pain treatment, adopting a multidisciplinary approach to address the patient's experience
- Apply educational strategies on pain to non-healthcare individuals, aiming to promote greater understanding and management of pain within the community

Module 2. Pharmacology of Pain

- Evaluate the different pharmacological options available for pain management, understanding their indications and limitations in various clinical contexts
- Optimize analgesic administration techniques, considering routes and methods that maximize effectiveness and minimize side effects
- Implement a multimodal analgesia approach to improve pain control, integrating different therapeutic agents and techniques for effective relief
- Determine the most appropriate analgesic administration techniques, adjusting routes and methods according to the patient's needs and the nature of the pain

Module 3. Acute Postoperative Pain Considerations. Clinical Situations. Surgical Procedures

- Apply effective perioperative strategies for the assessment and management of acute postoperative pain, considering its epidemiology
- Determine the most suitable therapeutic techniques for managing acute postoperative pain in different clinical contexts
- Personalize acute postoperative pain management in elderly patients or those with comorbidities, considering their specific needs
- Seek to reduce complications and recovery times
- Establish postoperative pain management protocols for thoracic and cardiac surgeries, promoting better recovery
- Prevent the chronicization of acute postoperative pain through timely interventions and appropriate treatment techniques

Module 4. Pain in Gynecology and Obstetric Patient

- Develop effective strategies for postoperative pain control in gynecological procedures, ensuring optimal recovery
- Identify key factors influencing abdominal-pelvic pain and apply appropriate therapeutic approaches
- Implement specialized techniques for pain management during pregnancy, considering the physiological needs of the patient
- Evaluate the management of gynecological oncological pain, adapting treatments according to the type of tumor and patient condition

Module 5. Acute and Chronic Pain in the Pediatric Patient

- Understand the general aspects of pain in the pediatric population, addressing its characteristics and challenges in the clinical environment
- Establish appropriate pain assessment methods for children, using specific tools for accurate measurement
- Design personalized therapeutic procedures for treating pain in pediatric patients, improving their quality of life
- Apply strategies for managing acute postoperative pain in children, ensuring proper control during the early stages of recovery

Module 6. Chronic Pain: Neuropathic Pain

- 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

Module 7. Chronic Pain: Musculoskeletal Pain

- 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

Module 8. Chronic Pain: Oncologic Pain

- Identify the general aspects of oncologic pain and its current situation in the clinical context
- Detail the pathophysiology of oncologic pain, its mechanisms, and triggering factors
- Select appropriate approaches for evaluating pain in oncologic patients, including diagnostic tools and criteria
- Implement the most effective pharmacological and non-pharmacological treatments in managing oncologic pain, adapted to each type of tumor

Module 9. Visceral Pain and Other Clinical Entities in the Field of Chronic Pain

- Describe the etiopathogenesis and general characteristics of visceral pain, its mechanisms, and associated factors
- Distinguish between different types of diffuse abdominal pain, with a focus on Pancreatitis, using diagnostic methodologies
- Apply diagnostic and therapeutic management strategies for chronic pelvic pain, Interstitial Cystitis, and Rectal Pathologies
- Update knowledge on Headaches and Migraines, addressing both generalities and specific clinical entities

Module 10. Interventional Pain Treatment

- Identify general indications and approaches in interventional pain treatment, evaluating best practices
- Perform diagnostic-therapeutic blocking procedures for trigger points and musculotendinous points, including deep muscle block
- Carry out joint blocks in various locations, such as the shoulder, knee, hip, and sacroiliac joint, using appropriate techniques
- Implement interlaminar and transforaminal epidural blocks under image control for effective pain management
- Use radiofrequency to treat peripheral nerves and dorsal root ganglia in various locations
- Apply neurosurgical techniques such as spinal cord stimulation, including epidural electrode implants and dorsal root ganglion implants

05

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career"

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.
The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

"At TECH you will NOT have live classes (which you might not be able to attend)"

The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.

Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.

A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

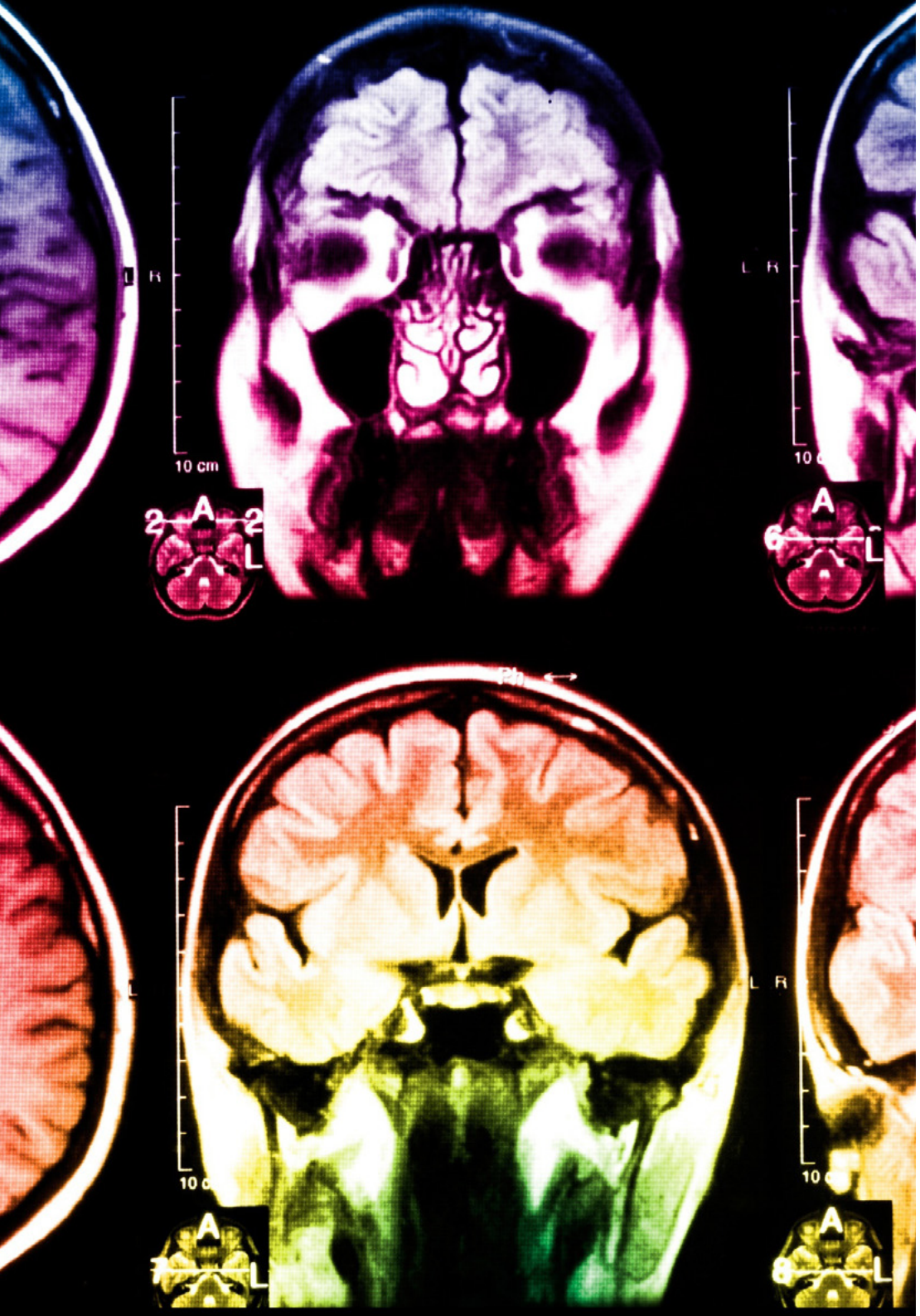
In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.

The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

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 assess 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.



The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

As such, the best educational materials, thoroughly prepared, will be available in this program:

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.

Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.

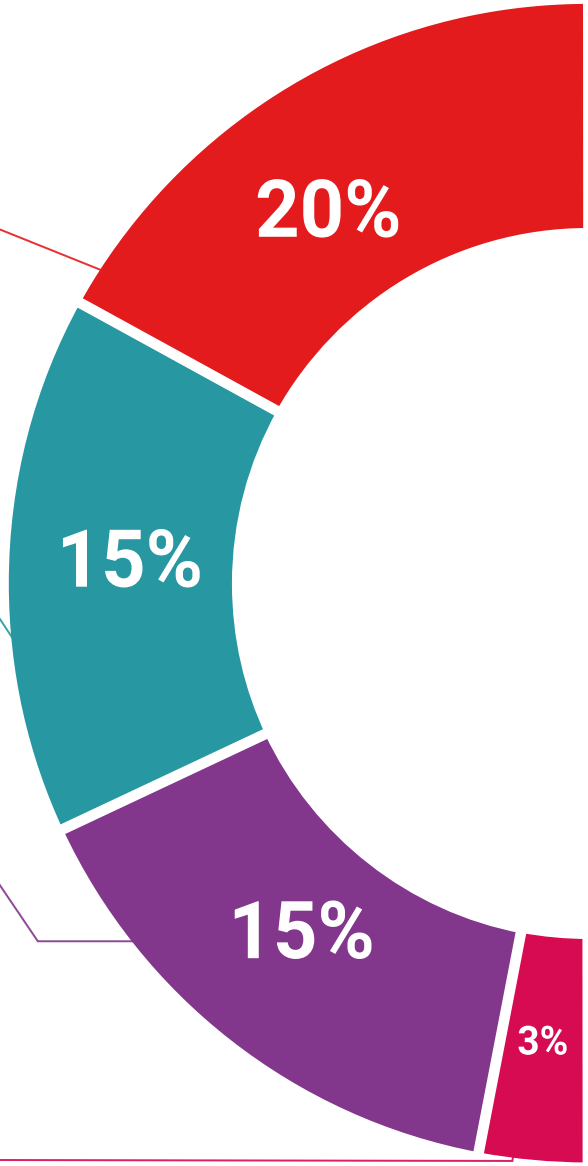
Interactive Summaries

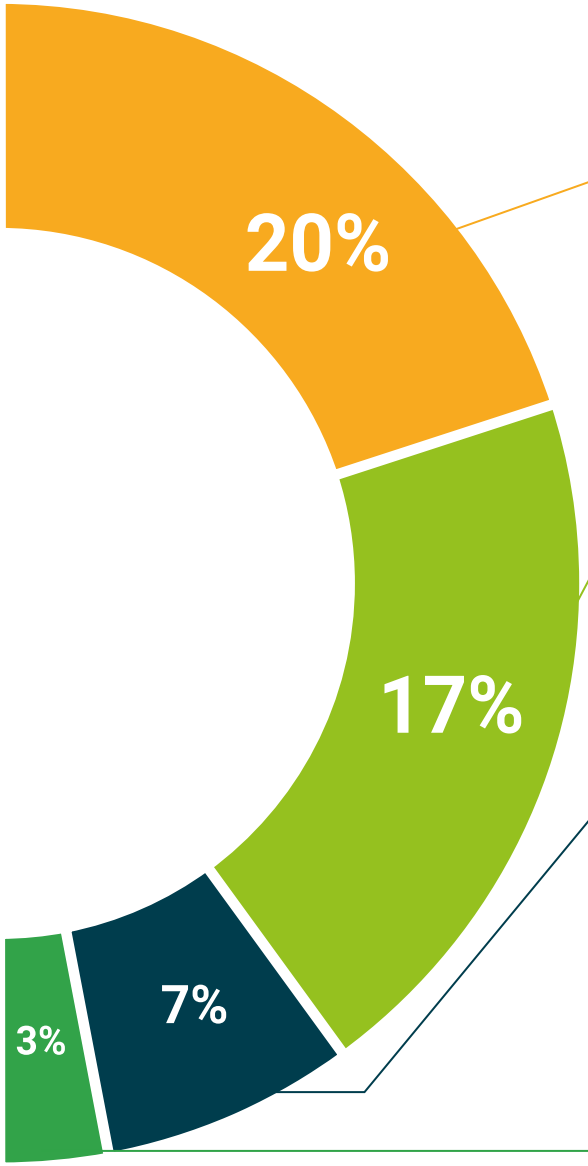
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content 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 education.





Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

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 for 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

Teaching Staff

To develop a comprehensive and rigorous curriculum, TECH has assembled a multidisciplinary team of experts in key areas such as Anesthesiology, Pain Management, and Interventional Medicine. As a result, the program not only thoroughly covers fundamental concepts but also delves into the most relevant topics related to managing patients with pain. This ensures a broad and up-to-date perspective that enriches the understanding of the subject.

You will benefit from the support of a faculty team made up of true experts in the comprehensive management of Pain"

International Guest Director

Dr. **Mourad M. 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. Shehebar **is an Assistant Professor** of **Anesthesiology, Perioperative** and **Pain Medicine** at the Icahn School of Medicine at Mount Sinai. He received his Bachelor's 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 same institution.

As of January 2020, Dr. Shehebar assumed the role of **Associate Director** of the **Mount Sinai** Pain Fellowship Program.

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, United States
- Physician at the Pain Unit in the Mount Sinai Health System
- Assistant Professor of Anesthesiology, Perioperative and Pain Medicine at the Icahn School of Medicine at Mount Sinai
- Fellow in Pain Medicine at the Icahn School of Medicine at Mount Sinai
- Resident in the Department of Anesthesiology Mount Sinai Hospital, New York
- Resident Medical Intern in Internal Medicine at Mount Sinai Beth Israel
- Medical Degree, George Washington University, Washington D.C.
- Bachelor's Degree *Summa Cum Laude* in Psychology and Biology from Baruch College, New York

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Management

Dr. Arance García, Magdalena

- Specialist in Anesthesiology, Resuscitation and Pain Therapeutics
- Specialist in the Pain Unit. Quirónsalud Infanta Luisa Hospital
- Specialty in Anesthesia, Resuscitation, and Pain Therapeutics. Virgen de la Arrixaca University Hospital, Murcia
- Specialist in Anesthesiology and Resuscitation. Clinical Management Unit Surgical Block. University Hospital Virgen del Rocío, Seville
- Bachelor's Degree in Medicine and Surgery. University of Seville

Faculty

Dr. Casado Pérez, Gloria

- Specialist in Anesthesiology, Resuscitation and Pain Treatment at the University Hospital Virgen del Rocío. Sevilla, Spain
- Specialist in Anesthesiology and Resuscitation in the Clinical Management Unit Surgical Block at the University Hospital Virgen del Rocio. Sevilla, Spain
- Author of numerous publications
- Degree in Medicine and Surgery from the University of Seville
- Master's Degree in Pain Treatment from the University of Seville
- Member of: Andalusian Pain Association and the Spanish Pain Society

Dr. Del Río Vellosillo, Mónica

- Specialist in Anesthesiology, Resuscitation and Pain Therapeutics
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- Medical Specialist in the Department of Anesthesia and Resuscitation. La Fe University Hospital, Maternal Pavilion, Valencia
- Doctor of Medicine. University of Valencia
- Bachelor's Degree in Medicine and Surgery. University of Valencia
- Member of the Society for Research in Retina and Vision Sciences

Dr. Jiménez Vázquez, Paula

- Specialist in Anesthesiology, Resuscitation and Pain Therapeutics
- Anesthesiologist at the Dr. Trinidad Pain Institute
- Medical Specialist in the Department of Anesthesiology, Resuscitation and Pain Therapy at the University Hospital Virgen del Rocío
- Medical Specialist in Anesthesiology, Resuscitation and Pain Treatment at the University Hospital of Jerez de la Frontera
- International Cooperation Medical and Surgical Care Project and teaching in the Saharawi refugee camps in Tindouf, Algeria
- Resident Medical Intern in the Department of Anesthesiology, Resuscitation and Pain Treatment at the Specialty Hospital of Jerez
- Collaboration in the Anesthesiology Service at the Puerta del Sur Hospital in Jerez
- Resident Medical Intern in Family and Community Medicine at the University Hospital Virgen Macarena. Sevilla, Spain
- Degree in Medicine from the University of Cadiz
- Erasmus Scholarship at the University of Paris with internship at Hotel Dieu Hospital
- Master's Degree in Pain Management from the University of Seville
- Master's Degree in Pain from CEU Cardenal Herrera University

Dr. Ángel Redondo, Lucía

- Specialist in Anesthesia, Resuscitation and Pain Therapeutics
- Specialist Physician of the Anesthesia, Resuscitation and Pain Therapy Area. University Hospital Virgen del Rocio Seville
- Specialty in Anesthesia, Resuscitation and Pain Therapy. San Pedro de Alcántara University Hospital, Cáceres
- Degree in Medicine. University of Seville

Dr. Fernández Castellanos, Guiomar Rosel

- Specialist in Anesthesiology, Resuscitation and Pain Therapeutics
- Specialist in Anesthesiology, Resuscitation and Pain Therapeutics at the University Hospital Virgen del Rocio
- Resident Medical Intern in Anesthesiology, Resuscitation and Pain Therapy at the University Hospital Virgen del Rocio
- Author of 14 medical publications supported by the Spanish Society of Anesthesiology and Resuscitation, the Spanish Society of Transplantation and the Andalusian-Extremeña Association of Anesthesiology, Resuscitation and Pain Therapy
- University Professor
- Degree in Medicine from the University of Granada
- Official Master's Degree in Clinical Medicine Research, Miguel Hernández University of Elche

Dr. Jiménez Pancho, Ana Isabel

- Specialist in Anesthesiology, Resuscitation and Pain Therapeutics
- Specialist in Anesthesiology, Resuscitation and Pain Therapy at the University Hospital Virgen del Rocío
- Residency in Anesthesiology, Resuscitation and Pain Therapeutics at the University Hospital Foundation Jiménez Díaz
- Degree in Medicine and Surgery from the University of Seville
- Master's Degree in Pain Management from the University of Seville
- University Expert in Basic Management of General Anesthesia, Locoregional and Resuscitation by the Catholic University of Valencia
- University Expert in Anesthesia and Resuscitation in Pathologies of Low Clinical Complexity and Non-Oncological Pain from the Catholic University of Valencia
- Member of: College the Medical College of Seville and the Spanish Society of Anesthesiology and Resuscitation and Pain Therapy

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07

Certificate

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

Dr. Pedro Navarro Illana
Dean

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Master's Degree in Pain

General Structure of the Syllabus

Subject type	ECTS
Compulsory (CO)	60
Optional (OP)	0
External Work Placement (WP)	0
Master's Degree Thesis (MDT)	0
	Total 60

General Structure of the Syllabus

Year	Subject	ECTS	Type
1º	General Aspects of Pain Management and Control	6	CO
1º	Pharmacology of Pain	6	CO
1º	Acute Postoperative Pain Considerations. Clinical Situations Surgical Procedures	6	CO
1º	Pain in Gynecology and Obstetric Patient	6	CO
1º	Acute and Chronic Pain in the Pediatric Patient	6	CO
1º	Chronic Pain: Neuropathic Pain	6	CO
1º	Chronic Pain: Musculoskeletal Pain	6	CO
1º	Chronic Pain: Oncologic Pain	6	CO
1º	Visceral Pain and Other Clinical Entities in the Field of Chronic Pain	6	CO
1º	Interventional Pain Treatment	6	CO

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