

# Postgraduate Diploma

## Pharmacological Treatment of Pain



## Postgraduate Diploma Pharmacological Treatment of Pain

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

Website: [www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-pharmacological-treatment-pain](http://www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-pharmacological-treatment-pain)

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# 01

# Introduction

Pharmacological treatment represents a fundamental principle for pain relief. Before establishing a medical plan, it is essential to know the relative importance of each of the factors involved, such as the perception of pain, the social environment in which the patient lives, depression, etc. Therefore, the student who studies this program will know how to perform a complete assessment of pain and the definition of the specific syndrome in order to decide which pharmacological treatment to use. In this way, the professional will be able to choose the analgesic, the route of administration, the doses and the administration schedule that is most in accordance with the type of pain, the patient's condition and other conditioning factors that may have an influence.





*Learn here about the latest treatments in the specialty to be able to perform a quality medical practice"*

In pharmacology, the correct use of medication means that the patient is always perfectly informed about what medication they should take, how, when and why. In addition, if necessary, you should know what to do in the event of side effects, allergies or intoxication due to medication. Today, this branch of science is a large industry that brings together an immense amount of capital in search of developing health solutions.

This Postgraduate Diploma will instruct the graduate in the choice of the most appropriate Pharmacological Pain Treatment for each case, taking into account the patient's problem, symptoms and needs. At the same time, you will learn about the different drugs depending on the symptoms, and even learn how to combine them to enhance the benefits of both. Therefore, the student will understand and effectively apply the best medication to help people achieve pain relief and wellness.

The student will delve into, over the course of 6 months, the field of application of pharmacological treatments for pain, understanding the competitive advantages it brings, so it will be positioned at the forefront of the medical sector. In addition, the student has the best 100% online study methodology, which eliminates the need to attend classes in person and to follow a predetermined schedule.

This **Postgraduate Diploma in Pharmacological Treatment of Pain** contains the most complete and up-to-date educational program on the market. Its most notable features are:

- ♦ Practical cases presented by experts in Pain Pharmacology
- ♦ 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 the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Access to content from any fixed or portable device with an Internet connection



*Become one of the most in-demand professionals of today. Don't miss this opportunity and enroll"*

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*This qualification provides training in simulated environments, which allows for an immersive learning experience designed to train for real life”*

The program’s teaching staff includes professionals from sector who contribute their work experience to this training program, as well as renowned specialists from leading societies 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 throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*As it is a 100% online Postgraduate Diploma, you will be able to advance in your career in a comfortable and fast way.*

*It includes clinical cases to bring the development of the program as close as possible to the reality of pain pharmacology.*





# 02 Objectives

The objective of this comprehensive program is to train highly qualified professionals for work experience. This objective is materialized in a process of high educational impact that boosts the students' real work capacity. For this purpose, pharmacological treatment will be mastered from a multidisciplinary and biopsychosocial perspective, in order to be able to control the greatest number of variables that will intervene in the discomfort or health of the group of patients.





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*Improve your skills in the approach of the new pharmacological treatments of pain through this Postgraduate Diploma"*



## General Objectives

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- ♦ Manage the current knowledge of drugs used in psychiatry and neurology
- ♦ Train to achieve the therapist-patient-medication link
- ♦ Identify the absorption properties of medication
- ♦ Develop proficiency in pharmacodynamics
- ♦ Describe in protocols the intervention programs, taking into account the characteristics and specific aspects of taking medication
- ♦ Identify the evolution of the different disorders listed in the DSM-5 or ICD-10
- ♦ Master the fields of medical-psychologist interaction in family intervention
- ♦ Train the professional on all the updated references on the diagnosis, intervention and therapeutic process in order to interact with the medication
- ♦ Describe with decision protocols the individualized study of family members to perform a rigorous psychopathological study
- ♦ Use decision trees to make a permanent differential diagnosis
- ♦ Organize all the information within a multidisciplinary framing model in the study of the biopsychosocial framework of the psychotherapy-pharmacology relationship





## Specific Objectives

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### Module 1. Anamnesis and the Decision to Choose the Appropriate Drug

- ♦ Discover and find the emotional memories of the components of the disorder
- ♦ Dominate and manage the relationship until it becomes a referential person
- ♦ Identify the components of the patient's pathology to decide on intervention
- ♦ Point out the impact of diagnoses on patient decision making
- ♦ Design and implement chronic disease adjustment programs
- ♦ Develop protocols that do not allow for drug dependence
- ♦ Manage and stabilize the emotional and affective deficiencies of the patient within the intervention
- ♦ Use the intervention to determine when it is necessary for other professionals to join the analysis process

### Module 2. Classification of Psychotropic Drugs

- ♦ Identify study methods to demonstrate that the drug has utility
- ♦ Discovering the legal procedures for the use of the drug
- ♦ Describe the harmful links between drugs
- ♦ Use knowledge about the side effects of drugs so that they do not hinder the intervention in psychotherapy
- ♦ Describe the beneficial effects of the drug
- ♦ Master the adverse effects and toxicity of the drug
- ♦ Use knowledge about the side effects of drugs so that they do not hinder the intervention in psychotherapy

### Module 3. Drugs Used in the Pain Unit

- ♦ Design and conduct controlled clinical studies in pain
- ♦ Master pain within the framework of therapy
- ♦ Managing acute pain with psychopharmaceuticals
- ♦ Master the assessment and intervention tools using all the pain intervention indicators
- ♦ Develop follow-up models that express the changes of pathologies specific to mental states and pain
- ♦ Identify and master the clinical and prognostic features of the different disorders of childhood and adolescence with pharmacological intervention in pain



*Reach the top with this highly effective educational specialization and open new paths to your professional advancement"*

03

# Course Management

The teaching faculty of this degree is made up of a group of active and highly qualified experts. Thus, the professional who decides to study this program will, learn from a faculty of excellence, with years of experience in the sector and with the greatest desire to graduate the best in this field. For this reason, it has also been this team who has designed the contents of the Postgraduate Diploma, ensuring the student a complete learning process, based on the highest scientific rigor and the latest developments in the sector.





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*Leading professionals in the field have come together to show you the latest advances in pharmacological treatments to treat pain"*

## Management



### Mr. Aguado Romo, Roberto

- Psychologist specializing in Clinical Psychology
- European specialist in Psychotherapy from the EFPA
- President of the European Institute of Time-Limited Psychotherapy
- Director of the Evaluation and Psychotherapy Center of Talavera, Bilbao and Madrid
- Director of the scientific journal Psinapsis
- Master's Degree in Clinical and Health Psychology by the Spanish Society of Psychosomatic Medicine and Health Psychology
- Tutor of the Basic Psychology course at the UNED



## Professors

### Dr. De Dios González, Antonio

- ♦ Director the Psychology Department of the Hospital Quirón in Marbella, Spain
- ♦ Director of Avatar Psychologists
- ♦ Master in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapies
- ♦ Transpersonal Therapist by the Spanish School of Transpersonal Development
- ♦ Master's degree in Neuro-Linguistic Programming (N.L.P.) by Richard Bandler's Society of Neuro-Linguistic Programming
- ♦ Specialist in Clinical Hypnosis and Relaxation

### Dr. González, Mónica

- ♦ Psychologist in charge of the Department of Child and Adolescent Psychology at Hospital Quirón Salud Marbella and Avatar Psicólogos
- ♦ Master's degree in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapy
- ♦ University Specialist in Clinical Hypnosis with Selective Dissociation Focusing by the University of Almeria
- ♦ Collaborator in different Red Cross programs
- ♦ Professor in the Master's Degree in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapy
- ♦ Trainer of Avatar Psicólogos in different programs of emotional management for educational centers and companies. Trainer at Human Resources Consulting Services (HRCS)

### Dr. Martínez-Lorca, Manuela

- ♦ Doctorate in Psychology from the University of Castilla-La Mancha
- ♦ Health Psychologist
- ♦ Lecturer in the Department of Psychology at the University of Castilla La Mancha
- ♦ Master in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapies.
- ♦ Specialist in Clinical Hypnosis and Relaxation

### Dr. Roldán, Lucía

- ♦ Health Psychologist
- ♦ Cognitive-behavioral intervention specialist
- ♦ Master in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapies
- ♦ Expert in energy therapy intervention

04

# Structure and Content

The contents of this Postgraduate Diploma have been structured and developed with a clear purpose: to ensure that the graduate acquires each and every one of the skills necessary to become a true expert in Pain Pharmacology. It is, therefore, a very complete program that deals with the anamnesis and the decision making of the right drug, the classification of psychotropic drugs and the drugs used in the pain unit, in order to lead you to the highest standards of quality and success.





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*TECH will take you through different teaching approaches to allow you to learn in a dynamic and effective way"*

### Module 1. Anamnesis and the Decision to Choose the Appropriate Drug

- 1.1. Active Interview (CHSV)
- 1.2. Information Theory
- 1.3. Communication Channels
- 1.4. Communication System
- 1.5. Axioms of the Interview
- 1.6. It is Impossible Not To Communicate
- 1.7. Content and Relationship
- 1.8. Affective Value
- 1.9. Digital and Analog Communication
- 1.10. Symmetric and Asymmetric
- 1.11. Exploring Communication
- 1.12. Verbal Communication
- 1.13. Non-Verbal Communication
- 1.14. Double Bond
- 1.15. Psychopathology of Communication
- 1.16. A Gesture is Worth a Thousand Words
- 1.17. Medical History
- 1.18. General Structure of the Mental Examination
- 1.19. Semiology
- 1.20. Epistemology of Diagnosis
- 1.21. Some Special Types of Clinical Interviews

### Module 2. Classification of Psychotropic Drugs

- 2.1. Neurophysiological Bases of Mental Illness and Its Treatment
- 2.2. Antipsychotics and Neuroleptics
- 2.3. Anxiolytics and Sedatives
- 2.4. Antidepressants
- 2.5. Antimanic or Euthymic Drugs
- 2.6. Anticonvulsants
- 2.7. Medications for Agitation
- 2.8. Pharmacotherapy of Confusion
- 2.9. Drugs for Dementia
- 2.10. Anti-Deficiency Drugs





### Module 3. Drugs Used in the Pain Unit

- 3.1. Clinical History of the Pain Patient
- 3.2. Psychosocial Approach Chronic Pain
- 3.3. Patient-Controlled Analgesia (PCA)
- 3.4. Pain in Polytraumatic Patients
- 3.5. Pain in Severe Burns
- 3.6. Headaches and Facial Pain
- 3.7. Treatment of Neuralgia
- 3.8. Treatment of Oncologic Pain
- 3.9. Pain and Terminal Sedation
- 3.10. Fibromyalgia

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*Learn through an immersive experience that will provide you with faster integration and a much more realistic view of the content"*

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 Diploma in Pharmacological Treatment of Pain guarantees students, in addition to the most rigorous and up-to-date education, access to a qualification 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 Diploma in Pharmacological Treatment of Pain** contains the most complete and up-to-date educational program on the market.

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

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

Title: **Postgraduate Diploma in Pharmacological Treatment of Pain**

Official N° of Hours: **625 h.**



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

health future  
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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