

# Postgraduate Certificate

Neurological and Psychiatric Emergencies  
and Basic Pharmacology in the Outpatient  
Setting for Nursing





## Postgraduate Certificate Neurological and Psychiatric Emergencies and Basic Pharmacology in the Outpatient Setting for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 4 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-certificate/neurological-psychiatric-emergencies-basic-pharmacology-outpatient-setting-nursing](http://www.techtute.com/us/nursing/postgraduate-certificate/neurological-psychiatric-emergencies-basic-pharmacology-outpatient-setting-nursing)

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# 01

# Introduction

In dynamic Outpatient Settings, nurses are faced with a variety of Neurological and Psychiatric emergencies that require both agile and rigorous interventions. An example of this is the case of Cranioencephalic Trauma, where these professionals must carry out therapeutic clinical procedures to stabilize patients and prevent additional complications such as Seizures. Given this situation, it is essential that experts update their skills frequently in order to optimize their clinical outcomes and incorporate the latest technological tools into their routine procedures. To facilitate this task, TECH has designed a pioneering university program focused on addressing critical brain and emotional conditions outside the hospital environment. In addition, it is taught in a 100% online modality.



Epilepsy



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*Through this Postgraduate Certificate based on Relearning, you will control acute symptoms such as seizures or extreme agitation through the administration of antiepileptic drugs and advanced sedatives”*

According to a recent report by the World Health Organization, approximately 703,000 people take their own lives every year, which corresponds to one death every 40 seconds. Faced with this situation, the entity urges Nursing professionals to prepare themselves in a comprehensive manner to address these complex scenarios and act quickly in the face of possible Autolytic Attempts. In this regard, experts need to stay at the forefront of the most sophisticated drugs to reduce the symptoms of severe conditions such as Anxiety Crises, Neuroleptic Malignant Syndromes or Psychopathologies.

For this reason, TECH presents an innovative Postgraduate Certificate in Neurological and Psychiatric Emergencies and Basic Pharmacology in the Outpatient Setting for Nursing. The academic itinerary will delve into the most effective procedures to measure the state of agitation of individuals, which will allow graduates to identify signs of acute emotional crises such as Psychotic Disorders, Acute Alcoholic Pathologies or Psychomotor Agitation. In turn, the syllabus will provide the keys to carry out therapeutic methods such as real-time monitoring of vital signs and additional neurological tests to obtain more information about the patient's condition. In this way, nurses will develop advanced clinical skills that will contribute to optimal stabilization of users.

As for the program's methodology, it is based on a 100% online format, allowing professionals to set their own schedules and pace of study. Along the same lines, all nurses will need is an electronic device with Internet connection (such as a cell phone, computer or tablet) to access the Virtual Campus. There they will find a variety of multimedia resources such as case studies, explanatory videos or interactive summaries, which will allow graduates to enjoy a dynamic academic experience, and TECH uses its revolutionary Relearning method, consisting of the reiteration of the most important content to ensure a progressive and natural learning process.

This **Postgraduate Certificate in Neurological and Psychiatric Emergencies and Basic Pharmacology in the Outpatient Setting for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in Emergencies and Medical Emergencies in the outpatient setting
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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



*Experience a remarkable quality leap in your professional career as a Nurse implementing the most sophisticated methodologies to manage critical patients with Psychopathologies”*

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*You will delve into the different routes of Drug Administration, which will allow you to personalize treatments according to the clinical history and the specific needs of the users”*

The program's teaching staff includes professionals from the field who contribute their work experience to this educational 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 education programmed to learn 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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Do you want to incorporate into your practice the most innovative diagnostic techniques to measure the level of consciousness of patients? Get it with this study plan in just 120 hours.*

*Position yourself in the job market with an online university program that adapts to your needs and allows for immersive learning.*



# 02 Objectives

Thanks to this Postgraduate Certificate, Nursing professionals will have a holistic understanding of the main Neurological and Psychiatric emergencies that occur in the Outpatient Setting. At the same time, graduates will develop advanced skills to recognize the characteristic symptoms of a wide range of critical conditions, ranging from Vertiginous Syndromes or Seizures to Psychomotor Agitation. In this way, professionals will apply the most optimal therapeutic procedures to ensure an improvement in the patient's condition (such as administration of medication, or continuous monitoring of vital signs).







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*You will gain technical skills that will enable you to immediately assess the clinical status of patients with a variety of Severe Neurological and Psychiatric conditions”*



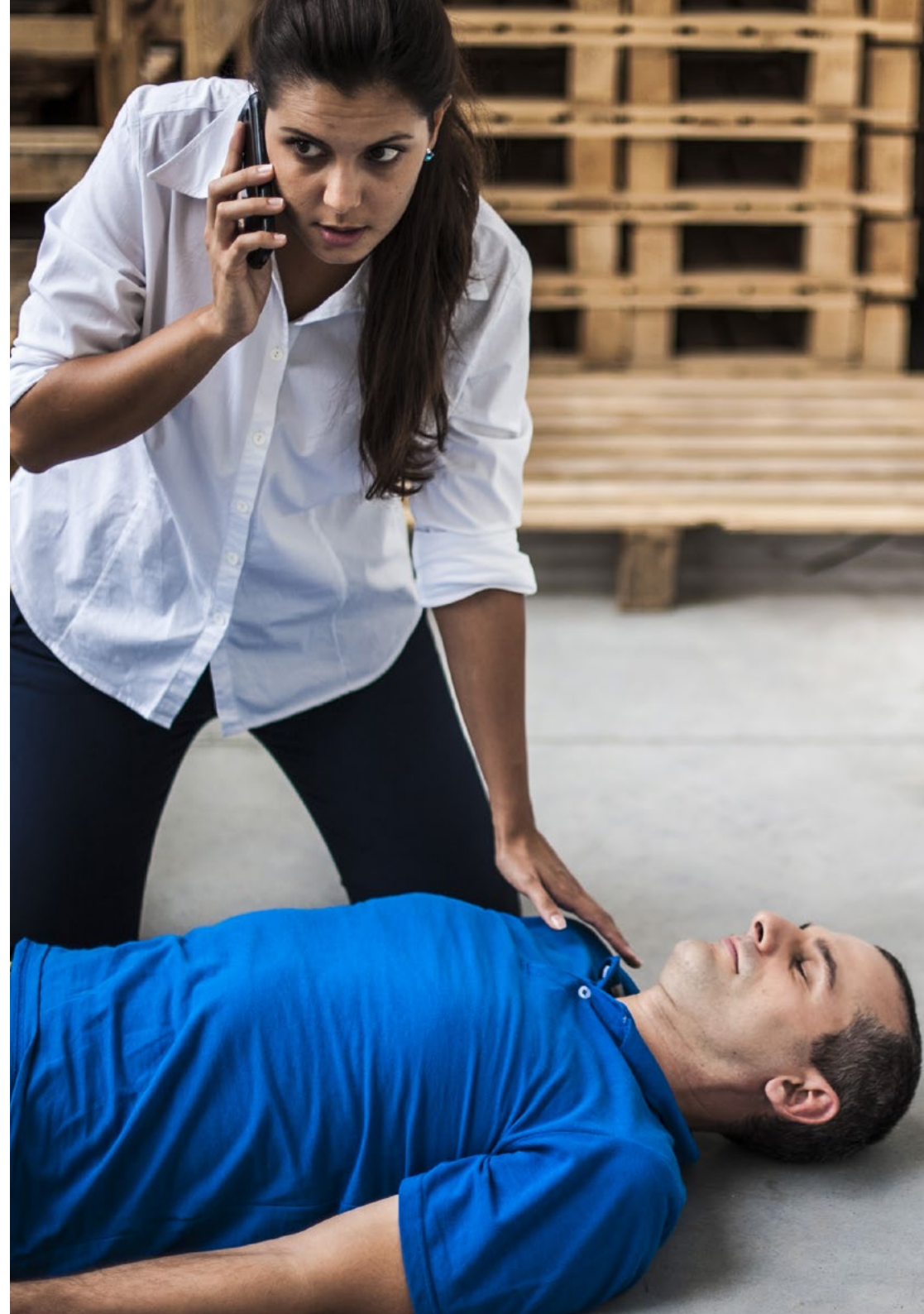
## General Objectives

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- ♦ Analyze the management of multiple casualty incidents and catastrophes
- ♦ Identify diagnostic and therapeutic techniques in emergency situations
- ♦ Delve into the principles of pharmacology as applied to medical emergencies
- ♦ Examine the most innovative emergency protocols and procedures

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*The emphasis on the practical and real clinical cases that you will be able to analyze will help you enormously in the contextualization of the whole academic itinerary”*





## Specific Objectives

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### Module 1. Neurological Emergencies

- ♦ Delve into the comprehensive neurological assessment of the critically ill patient, using assessment tools and techniques to identify and monitor serious neurological conditions
- ♦ Define how to address neurological vascular disorders, applying the stroke code protocol to ensure rapid and effective intervention in cases of stroke
- ♦ Identify alterations in the level of consciousness and intracranial hypertension, using appropriate therapeutic strategies to stabilize the patient and prevent further neurological damage
- ♦ Address the treatment of central nervous system infections, seizures and status epilepticus, headaches and vertiginous syndrome (vertigo), applying clinical guidelines and best practices to improve the patient's prognosis and quality of life

### Module 2. Psychiatric Emergencies

- ♦ Recognize the main psychopathologies that may occur in emergency situations, using diagnostic tools to identify and differentiate the various mental disorders
- ♦ Delve into psychomotor agitation and anxiety crises, applying appropriate therapeutic and containment interventions to ensure the safety of the patient and the health personnel
- ♦ Delve into acute alcoholic pathology and autolytic attempts, implementing detoxification, stabilization and emotional support protocols to prevent relapses and complications
- ♦ Assess neuroleptic malignant syndrome, applying the necessary therapeutic measures to control symptoms and stabilize the patient effectively

### Module 3. Emergency Pharmacology

- ♦ Define the basic concepts of pharmacology as applied to emergency situations, including pharmacokinetics and pharmacodynamics of the drugs used
- ♦ Identify the different routes of administration of drugs in emergencies, ensuring appropriate selection according to the patient's condition and the urgency of the treatment
- ♦ Delve into safe practices in drug administration, emphasizing the importance of fluid therapy and precautions to avoid medical errors
- ♦ Gain knowledge in formulas and dosage calculations for the most frequent drugs in emergencies, ensuring an accurate and effective dosage in patient management



03

# Course Management

TECH's main objective is to provide the most comprehensive and renewed university programs in the educational market, which is why it makes a meticulous process to constitute its teaching staff. Thanks to this, the present Postgraduate Certificate counts with the participation of authentic experts in the field of Neurological and Psychiatric Emergencies and Basic Pharmacology in the Outpatient Setting. These professionals have a wide working background, where they have optimized the general welfare of numerous patients. In this way, they have created didactic materials defined by their high quality and full application to the demands of the current labor market.







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*You will have the support of an experienced teaching group, integrated by authentic references in the management of medical emergencies in the outpatient setting”*

## Management



### Dr. Sendra Más, Juan Amaro

- ♦ Assistant Physician of the Emergency Service at the Vega Baja Hospital. Alicante, Spain
- ♦ Emergency Physician in the Specialized Medical Unit (UME 1)
- ♦ Doctor in the Emergency Medical Attention Service (SAMU)
- ♦ Medical Helicopter Doctor
- ♦ Degree in Medicine and Surgery from the University of Alicante
- ♦ Specialist in Family and Community Medicine
- ♦ Accredited Professor of the Spanish Society of Emergency Medicine
- ♦ Member of the Spanish Society of Emergency Medicine

## Professors

### Dr. Fernández Martínez, Maria Ángeles

- ♦ Biochemist-Nutritionist-Phytotherapist Responsible for Natural Life Nutrition Center
- ♦ Manager of the Parapharmacy, Dermopharmacy, Nutricosmetics and Phytotherapy Line
- ♦ Degree in Biochemistry from the University of Valencia
- ♦ University Expert in Nutrition, Dietetics and Diet Therapy
- ♦ Postgraduate Diploma in Microbiological Analysis of Foodstuffs
- ♦ Expert in Prevention and Treatment with Nutrition, Diet and Cancer
- ♦ Expert in Vegetarian, Clinical, and Sports Nutrition
- ♦ Specialist in Food Intolerances and the Study of the Intestinal Microbiota
- ♦ Numerous courses of study in Intestinal Microbiota, Analysis Methods and Applications
- ♦ Diploma in Natural and Orthomolecular Medicine
- ♦ Expert in the current use of Nutricosmetics and Nutraceuticals in general.
- ♦ Expert in Point of Sale Management in the Pharmacy and Parapharmacy Office
- ♦ Member of: Spanish Society of Probiotics and Prebiotics (SEPyP), Spanish Society of Dietetics (SEDCA) and Spanish Society of Nutrition (SEÑ)

**Dr. Perales Cano, Raquel**

- ◆ Specialist in Family and Community Medicine
- ◆ Primary Care Physician at La Loma Health Center
- ◆ Specialist of the Emergency Department at the Vega Baja Hospital
- ◆ Physician of the Emergency Medicalized Unit 1 of the Murcian Health Service
- ◆ Health Professional of Samu

**Dr. Zazo Menargues, Juan Manuel**

- ◆ Medical Coordinator of El Raval Health Center in Elche
- ◆ Primary Care Physician at the San Fermín Health Center
- ◆ Researcher of the Department of Clinical Medicine of CEU Cardenal Herrera University

**Dr. Medina Martínez, María Ángeles**

- ◆ Medical Director and Cofounder of Healthy Blue Bits
- ◆ Family and Community Medicine Specialist of the Ministry of Universal Health of the Valencian Government
- ◆ Co-founder of Toubabs Team
- ◆ Degree in Medicine from the University of Miguel Hernández de Elche
- ◆ Postgraduate degree in Clinical Management from the Open University of Catalonia
- ◆ Postgraduate degree in Public and Community Health from the University of Murcia
- ◆ Member of: ASD (Vocal), SoVaMFIC (President) and Forum of Primary Care Physicians of the Valencian Region

**Dr. Gavilán Martín, Cristina**

- ◆ Assistant Physician of Pediatric Emergencies at Elche General University Hospital
- ◆ Specialist in Family and Community Medicine
- ◆ Doctor in Medicine by the Miguel Hernández University of Elche
- ◆ Degree in Medicine and Surgery from the University of Alicante
- ◆ APLS credential by the American Academy of Pediatrics and the American College of Pediatrics
- ◆ Professor of Master's Degrees and postgraduate courses
- ◆ Member of: The Spanish Society of Pediatric Emergencies (SEUP)

**Dr. López Llames, Aurora**

- ◆ Medical Specialist in Otorhinolaryngology
- ◆ Head of the Department of Otorhinolaryngology at the University Hospital of Torrevieja
- ◆ Specialist Physician in Menorca Ib-Salut
- ◆ Otorhinolaryngologist at Asturias Central University Hospital
- ◆ Master's Degree in Clinical Management from the Open University of Catalonia
- ◆ Graduate in Medicine and Surgery from the University of Oviedo

**Dr. Pérez Marín, Estefanía**

- ◆ Medical Specialist in Mental Health
- ◆ Medical Specialist in Psychiatry at the General University Hospital of Elche
- ◆ Degree in Medicine and Surgery from Miguel Hernández University of Elche
- ◆ Expert in Mental Health Emergencies



# 04

## Structure and Content

Through this university program, nurses will have a solid understanding of the approach to the most common neurological and psychiatric emergencies in the Outpatient Setting. To this end, the syllabus will delve into advanced techniques to carry out accurate diagnostic evaluations. Therefore, graduates will recognize signs of severe conditions ranging from Intracranial Hypertension or Status Epilepticus to Acute Alcoholic Pathology. In this regard, the study plan will offer a variety of therapeutic procedures to stabilize patients and help them reduce their level of Anxiety (such as drug delivery).





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*You will be highly qualified to handle situations of high emotional intensity in a calm and effective way, among which are the Autolytic Attempts”*

### Module 1. Neurological Emergencies

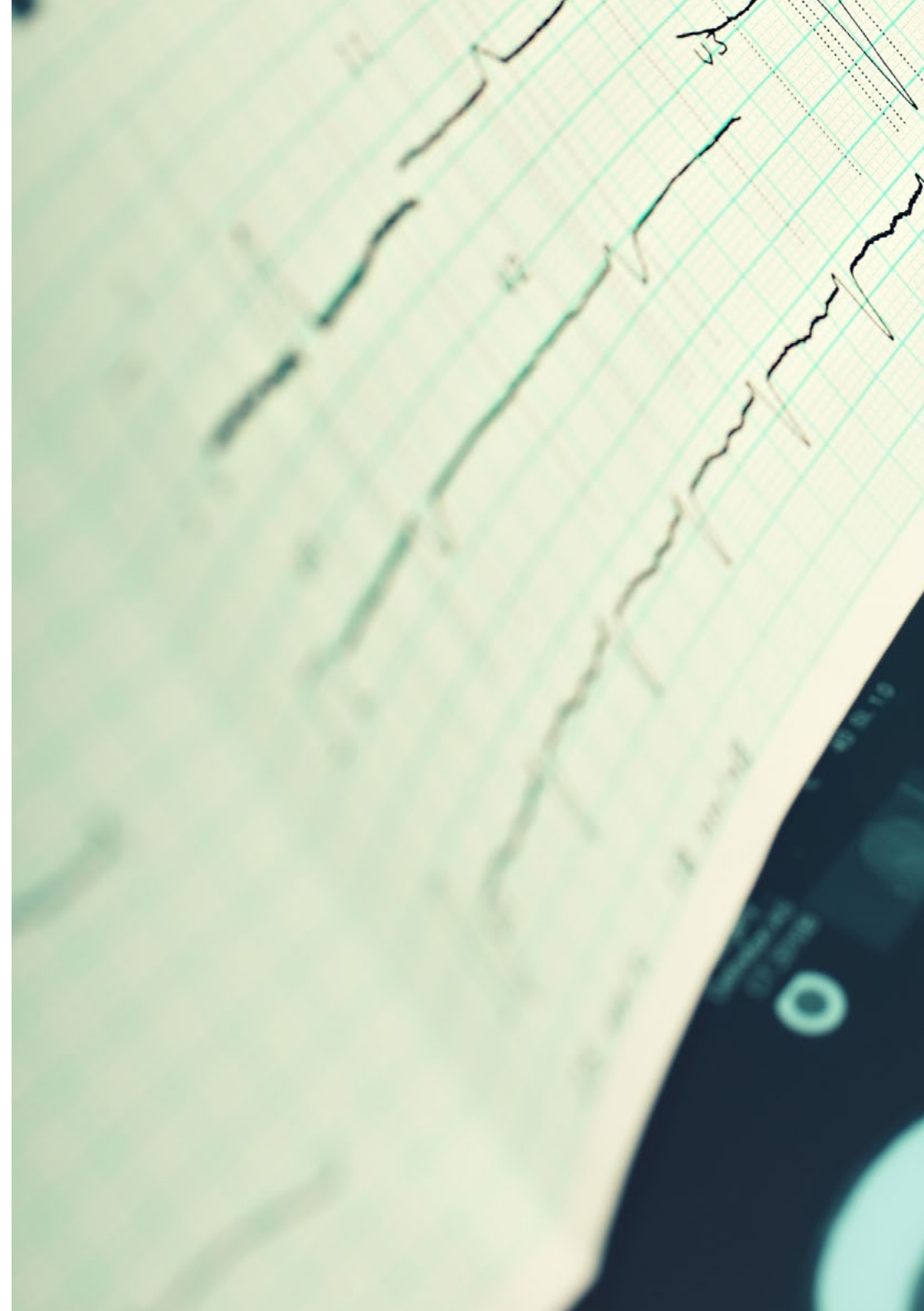
- 1.1. Neurological Assessment of a Critically Ill Patient
- 1.2. Vascular Disorders, Ictus Code
- 1.3. Alterations in the Level of Consciousness
- 1.4. Intracranial Hypertension
- 1.5. Central Nervous System Infections
- 1.6. Seizures and Status Epilepticus.
- 1.7. Headaches
- 1.8. Vertiginous Syndrome (Vertigo)

### Module 2. Psychiatric Emergencies

- 2.1. Psychopathologies.
- 2.2. Psychomotor Agitation
- 2.3. Acute Alcoholic Disease
- 2.4. Self-Harm Attempt
- 2.5. Anxiety Attack
- 2.6. Neuroleptic Malignant Syndrome

### Module 3. Emergency Pharmacology

- 3.1. Basic Concepts
- 3.2. Drug Administration Routes in Accidents and Emergencies
- 3.3. Drug Administration Safety
- 3.4. Fluid Therapy
- 3.5. Most Common Drugs Used in Accident and Emergency Care
- 3.6. Formulas and Dosage Calculation





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*An academic pathway designed to significantly increase the quality of your care for patients with neurological and psychiatric emergencies in the Outpatient Setting. Enroll now!”*



# 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.





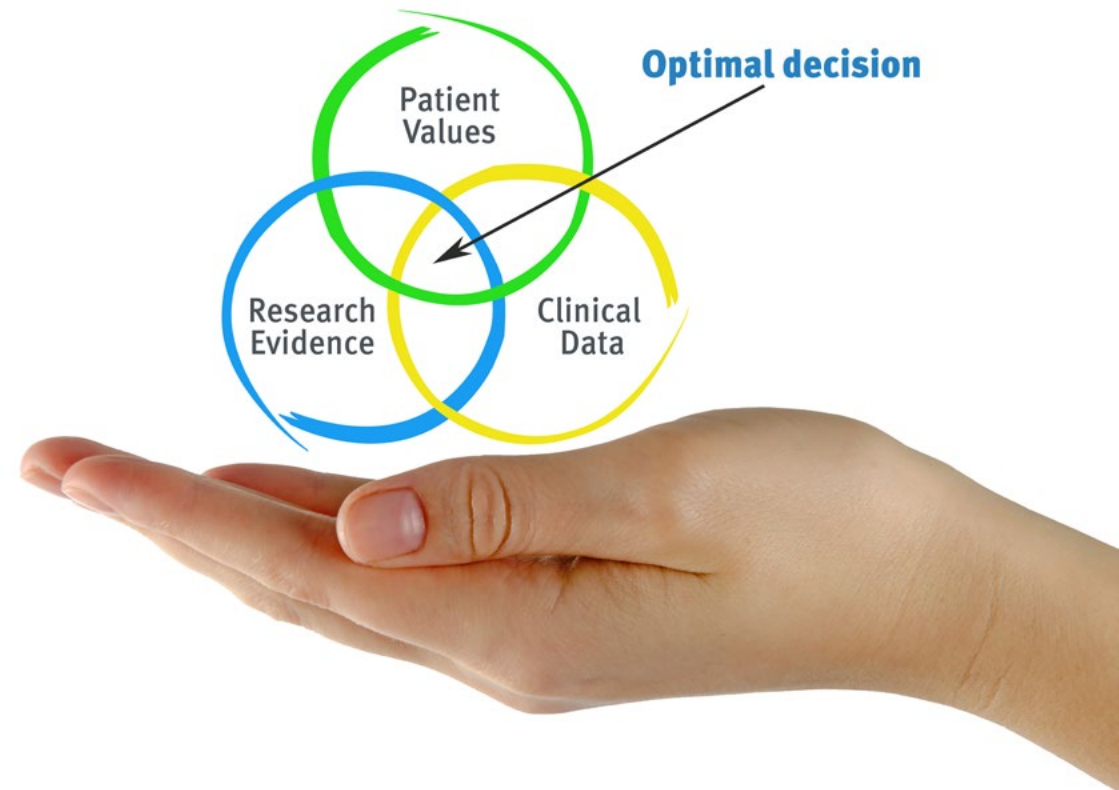
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? 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. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology 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, in an attempt to recreate the real conditions in professional nursing 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. Nurses 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 nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



*The nurse 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 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 we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. 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.

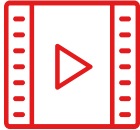
*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

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 really specific and precise.

These contents are then adapted in 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.



### Nursing 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 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 them as many times as you want.



### Interactive Summaries

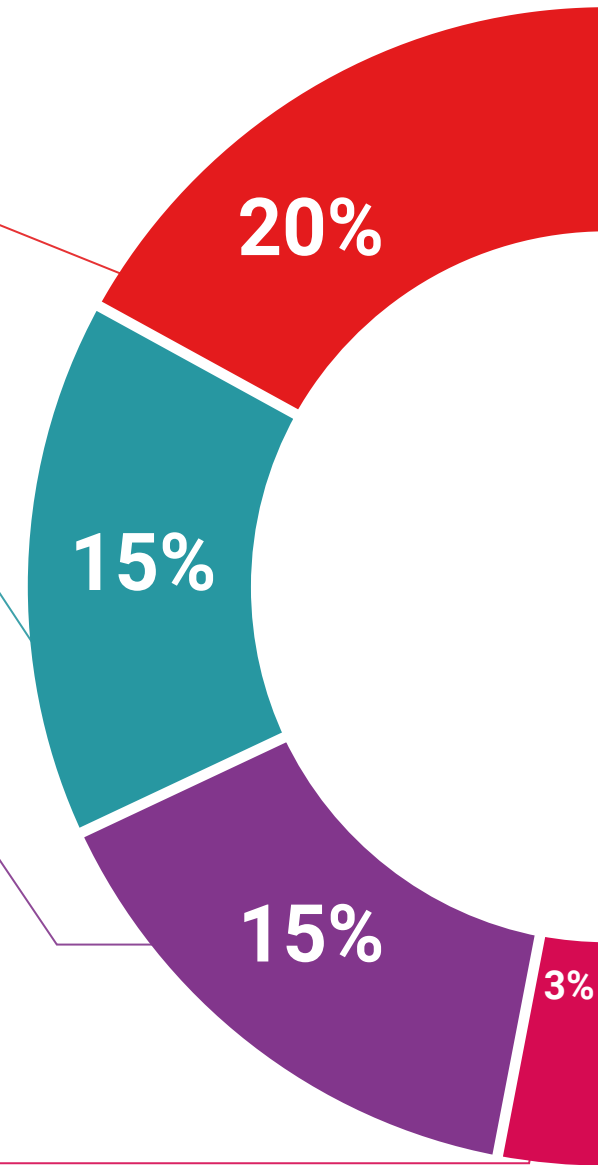
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

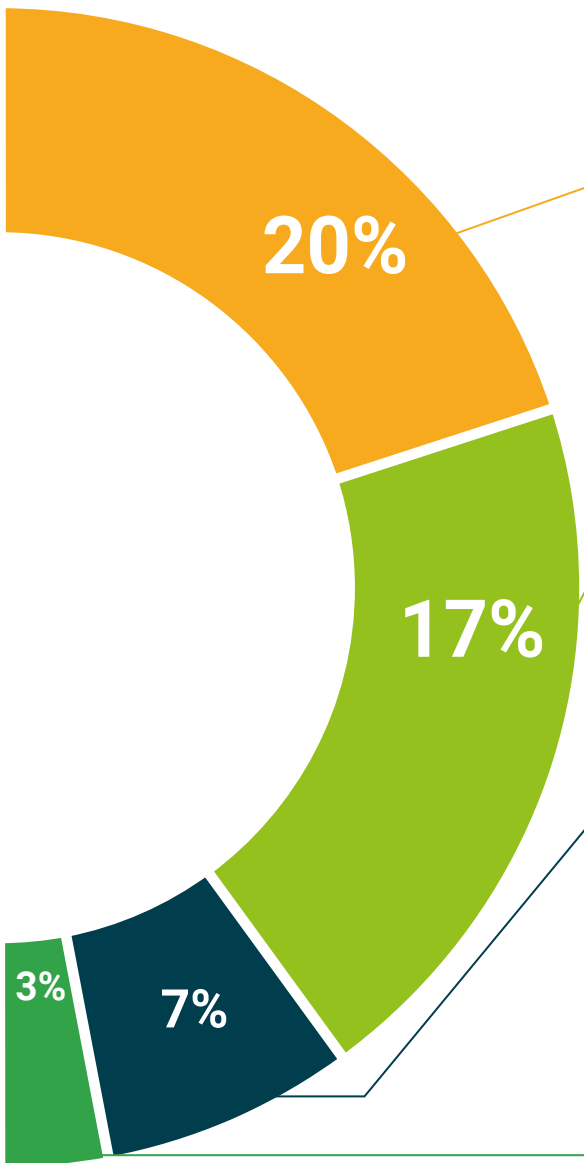


### Additional Reading

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

The student's knowledge is periodically assessed and re-assessed throughout the program, through evaluative and self-evaluative activities and exercises: in this way, students can check how they are doing in terms of achieving their 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 future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical and effective way to help students progress in their learning.



# 06 Certificate

The Postgraduate Certificate in Neurological and Psychiatric Emergencies and Basic Pharmacology in the Outpatient Setting for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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



This private qualification will allow you to obtain a **Postgraduate Certificate in Neurological and Psychiatric Emergencies and Basic Pharmacology in the Outpatient Setting for Nursing** 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** private qualification 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 Neurological and Psychiatric Emergencies and Basic Pharmacology in the Outpatient Setting for Nursing**

Modality: **Online**

Duration: **6 weeks**

Accreditation: **4 ECTS**





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