

Postgraduate Certificate Pharmacological Treatments





Postgraduate Certificate Pharmacological Treatments

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

Website: www.techtute.com/us/nursing/postgraduate-certificate/pharmacological-treatments

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01

Introduction

According to various studies, 10% of the population will suffer an epileptic seizure during their lifetime and 3% will develop the disease. In this condition, as in many others, its origin is unknown and depends on genetic and metabolic factors that are influenced by neurological health. To advance in this area, the healthcare labor market requires specialists who master and update their knowledge in Pharmacological Treatments for neuropsychological diseases. For this reason, TECH has developed a complete and rigorous program, focused on the latest drug introductions for various pathologies. For this, it implements a 100% online format that, together with an expert teaching team, will provide numerous benefits to nursing professionals who take the program.



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Be part of the health development by obtaining the most rigorous information about pharmacology and its interrelation with other therapies through a 100% online qualification"

Advances in the field of psychopharmacology have enabled millions of patients to improve their quality of life through the combined application of therapeutic techniques and chemical treatments. The increase in neuropsychological conditions is what forces health care to incorporate professionals who are up to date in the latest drug dosing strategies.

TECH offers this Postgraduate Certificate in Pharmacological Treatments for nurses to delve into the mechanisms of action, side effects and contraindications of antidepressants, antipsychotics, anxiolytics and hypnotics, mood stabilizers and much more. A program that aims to provide detailed information on the latest scientific evidence related to the drugs that are currently showing the best results. All this, supported by a team versed in pharmacology to help perfect the skills needed to manage patients with neurodegenerative diseases.

In addition, TECH is a pioneer in the Relearning methodology that will exempt students from long hours of study through a convenient and intensive 100% online modality. The entire syllabus, as well as the research articles, detailed videos, complementary readings and practical cases included in the program, will be available from the beginning of the educational experience, and even after finishing it, since all the content is downloadable. In this way, graduates will be able to adapt their studies to their personal and work availability with the guarantee of obtaining the necessary knowledge in this field.

This **Postgraduate Certificate in Pharmacological Treatments** 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 Nursing and Pharmacy
- ◆ 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 gain detailed knowledge of the mechanisms of action of neurological treatments that improve the quality of life of patients"

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Join a program that will educate you about side effects in practice to streamline your ability to perform in the clinical setting”

The program's teaching staff includes professionals from the sector 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.

The design of this program focuses on Problem-Based Learning, by means of which professionals must try to solve the different professional practice situations that arise during the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Delve into Pharmacological Treatments in only 180 hours with additional materials to broaden your healthcare experience.

Inquire into the basics of psychopharmacology to treat the specificities of each real case you encounter in practice.



02 Objectives

This Postgraduate Certificate in Pharmacological Treatments aims to focus nurses on the most recent research in pharmacology against neuropsychological pathologies. The user will be able to investigate the application of drugs such as mood stabilizers, anxiolytics and hypnotics, antipsychotics and antidepressants, among others. All this in order for nurses to provide optimal health care based on the latest advances in drug dosage, as well as the appropriate information for each patient.



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Delve into the analysis of the pharmacological specifications of antiepileptic drugs and antimentia, among other treatments"



General Objectives

- Develop a broad and up-to-date knowledge of the different pharmacological treatments that are having better results today applicable to clinical neuropsychology
- Delve into the pharmacological recommendations, as well as their advantages and disadvantages depending on the patient and the pathology they suffer from





Specific Objectives

- Know and learn about the principles and foundations of psychopharmacology
- Get to know and classify the different types of psychopharmaceuticals
- Gain knowledge and contextualize the different uses of psychopharmacological therapy



Meet your most demanding goals with rigorous, technical instruction on the role of drugs in the treatment of dependence"

03

Course Management

TECH is continually committed to academic excellence. For this reason, each of its programs has teaching teams of the highest reputation. These experts have extensive experience in their professional fields and, at the same time, have achieved significant results with their empirical research and fieldwork. In addition, these specialists play a leading role within the university qualification, as they are in charge of selecting the most up-to-date and innovative content to be included in the syllabus. In addition, they participate in the elaboration of numerous multimedia resources of high pedagogical rigor.





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The teaching materials of this program, elaborated by these specialists, have contents that are completely applicable to your professional experiences”

International Guest Director

Dr. Steven P. Woods is a leading neuropsychologist, internationally recognized for his outstanding contributions to improving clinical detection, prediction and treatment of real-world health outcomes in diverse neuropsychological populations. He has forged an exceptional career path, which has led him to publish over 300 articles and serve on editorial boards in 5 major Clinical Neuropsychology journals.

His excellent scientific and clinical work focuses primarily on the ways in which cognition can hinder and support daily activities, health and well-being in adults with chronic medical conditions. Other areas of scientific relevance, for this expert, also include health literacy, apathy, intra-individual variability and internet navigation skills. His research projects are funded by the National Institute of Mental Health (NIMH) and the National Institute on Drug Abuse (NIDA).

In this regard, Dr. Woods' research approach explores the application of theoretical models to elucidate the role of neurocognitive deficits (e.g., memory) in everyday functioning and health literacy in people affected by HIV and aging. In this way, his interest focuses, for example, on how people's ability to "Remember to Remember", the so-called prospective memory, influences health-related behaviors, such as medication adherence. This multidisciplinary approach is reflected in his groundbreaking research, available on Google Scholar and ResearchGate.

He has also founded the Clinical Neuropsychology Service at Thomas Street Health Center, where he holds a senior position as Director. Here, Dr. Woods provides Clinical Neuropsychology services to people affected by HIV, providing critical support to communities in need and reaffirming his commitment to the practical application of his research to improve lives.



Dr. Woods, Steven P.

- Founder and Director of the Clinical Neuropsychology Service at the Thomas Street Health Center
- Collaborator in the Department of Psychology, University of Houston
- Associate Editor at Neuropsychology and The Clinical Neuropsychologist
- Ph.D. in Clinical Psychology, with a specialization in Neuropsychology, Norfolk State University
- B.S. in Psychology, Portland State University
- Member of:
 - National Academy of Neuropsychology
 - American Psychological Association (Division 40, Society for Clinical Neuropsychology)

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

04

Structure and Content

The syllabus of this program has been developed in detail by professionals versed in the field of neuropsychology. The teaching team has used its clinical experience in the contents to offer an enriching theoretical-practical learning. In this way, health experts endorse a qualification that has distributed the material in such a way that its study is simple and dynamic. TECH has been equipped with the latest teaching tools, such as the Relearning methodology, so that students can progressively follow the course. In addition, thanks to the 100% online mode and downloadable content, the user can choose the time and place to access the Virtual Classroom.



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A Postgraduate Certificate with which you will be able to expand your skills in dosage and administration of drugs according to contraindications and side effects in patients"

Module 1. Pharmacological Treatment

- 1.1. Introduction to Psychopharmacology
 - 1.1.1. Principles and Introduction to Psychopharmacology
 - 1.1.2. General Principles of Psychopharmacological Treatment
 - 1.1.3. Main Applications
- 1.2. Antidepressants
 - 1.2.1. Introduction
 - 1.2.2. Types of Antidepressants
 - 1.2.3. Mechanism of Action
 - 1.2.4. Indications
 - 1.2.5. Drug Groups
 - 1.2.6. Dosage and Forms of Administration
 - 1.2.7. Side Effects
 - 1.2.8. Contraindications
 - 1.2.9. Drug Interactions
 - 1.2.10. Patient Information
- 1.3. Antipsychotics
 - 1.3.1. Introduction
 - 1.3.2. Types of Antipsychotics
 - 1.3.3. Mechanism of Action
 - 1.3.4. Indications
 - 1.3.5. Drug Groups
 - 1.3.6. Dosage and Forms of Administration
 - 1.3.7. Side Effects
 - 1.3.8. Contraindications
 - 1.3.9. Drug Interactions
 - 1.3.10. Patient Information
- 1.4. Anxiolytics and Hypnotics
 - 1.4.1. Introduction
 - 1.4.2. Types of Anxiolytics and Hypnotics
 - 1.4.3. Mechanism of Action
 - 1.4.4. Indications
 - 1.4.5. Drug Groups
 - 1.4.6. Dosage and Forms of Administration
 - 1.4.7. Side Effects
 - 1.4.8. Contraindications
 - 1.4.9. Drug Interactions
 - 1.4.10. Patient Information
- 1.5. Mood Stabilizers
 - 1.5.1. Introduction
 - 1.5.2. Types of Mood Stabilizers
 - 1.5.3. Mechanism of Action
 - 1.5.4. Indications
 - 1.5.5. Drug Groups
 - 1.5.6. Dosage and Forms of Administration
 - 1.5.7. Side Effects
 - 1.5.8. Contraindications
 - 1.5.9. Drug Interactions
 - 1.5.10. Patient Information
- 1.6. Psychostimulants
 - 1.6.1. Introduction
 - 1.6.2. Mechanism of Action
 - 1.6.3. Indications
 - 1.6.4. Drug Groups
 - 1.6.5. Dosage and Forms of Administration
 - 1.6.6. Side Effects
 - 1.6.7. Contraindications
 - 1.6.8. Drug Interactions
 - 1.6.9. Patient Information

- 1.7. Anti-Dementia Drugs
 - 1.7.1. Introduction
 - 1.7.2. Mechanism of Action
 - 1.7.3. Indications
 - 1.7.4. Drug Groups
 - 1.7.5. Dosage and Forms of Administration
 - 1.7.6. Side Effects
 - 1.7.7. Contraindications
 - 1.7.8. Drug Interactions
 - 1.7.9. Patient Information
- 1.8. Drugs for the Treatment of Dependency
 - 1.8.1. Introduction
 - 1.8.2. Types and Mechanism of Action
 - 1.8.3. Indications
 - 1.8.4. Drug Groups
 - 1.8.5. Dosage and Forms of Administration
 - 1.8.6. Side Effects
 - 1.8.7. Contraindications
 - 1.8.8. Drug Interactions
 - 1.8.9. Patient Information
- 1.9. Anti-Epileptic Drugs
 - 1.9.1. Introduction
 - 1.9.2. Mechanism of Action
 - 1.9.3. Indications
 - 1.9.4. Drug Groups
 - 1.9.5. Dosage and Forms of Administration
 - 1.9.6. Side Effects
 - 1.9.7. Contraindications
 - 1.9.8. Drug Interactions
 - 1.9.9. Patient Information

- 1.10. Other Drugs: Guanfacine
 - 1.10.1. Introduction
 - 1.10.2. Mechanism of Action
 - 1.10.3. Indications
 - 1.10.4. Dosage and Forms of Administration
 - 1.10.5. Side Effects
 - 1.10.6. Contraindications
 - 1.10.7. Drug Interactions
 - 1.10.8. Patient Information



A program designed for healthcare professionals like you, who wish to update their pharmacological knowledge oriented to an adequate dosage of drugs such as guanfacine"

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. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching 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 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.



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

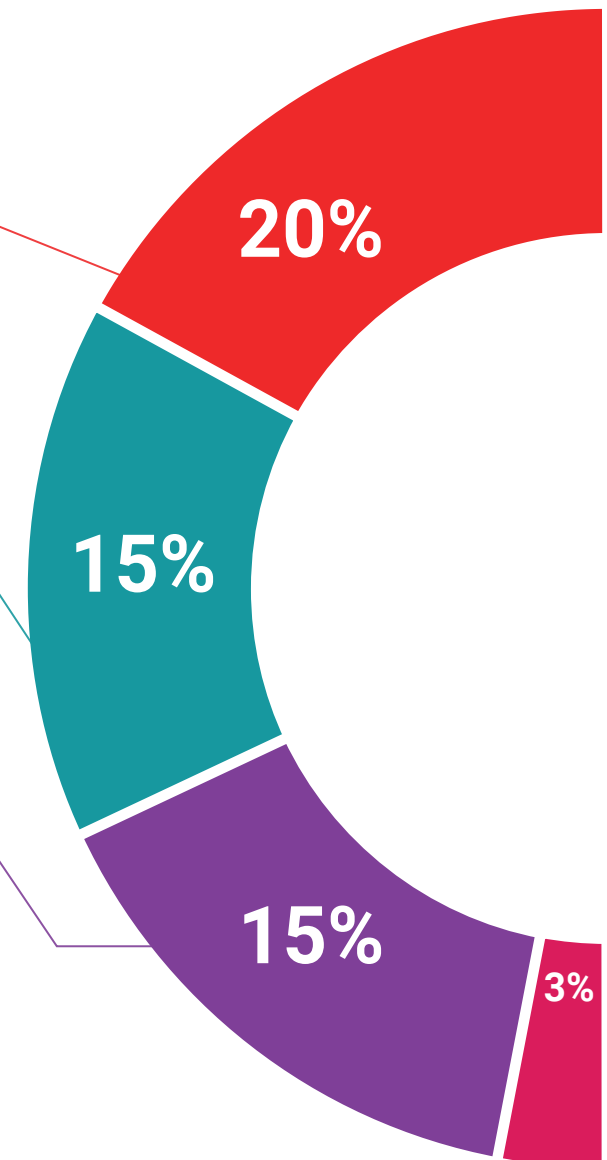
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

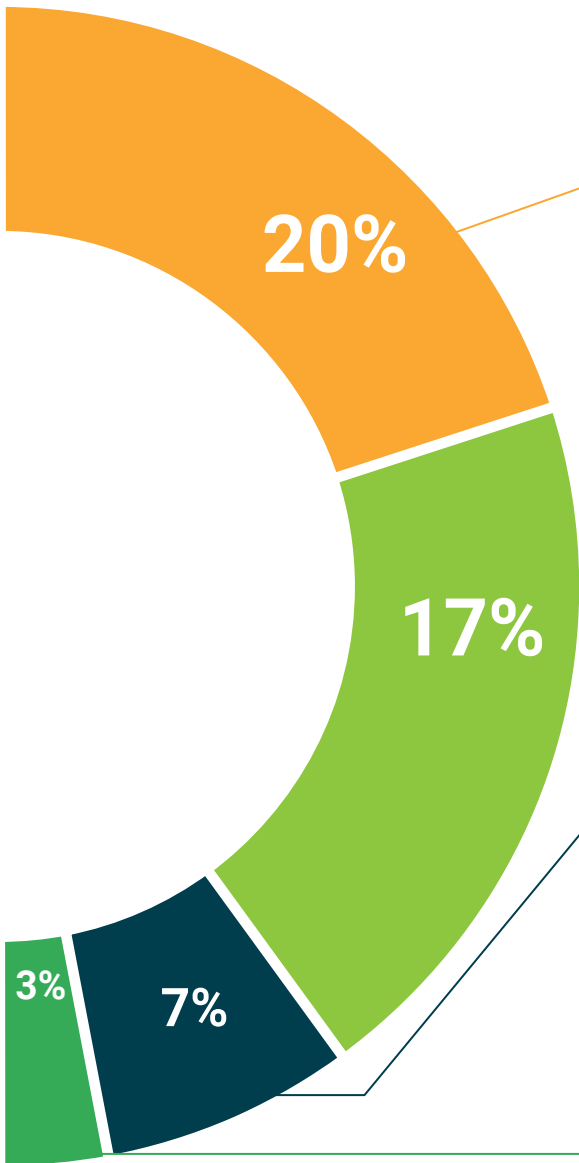
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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

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 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 Pharmacological Treatments 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 program will allow you to obtain your **Postgraduate Certificate in Pharmacological Treatments** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Pharmacological Treatments**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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



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