

# Postgraduate Diploma Phytotherapy for Cardiovascular and Respiratory Conditions





## Postgraduate Diploma Phytotherapy for Cardiovascular and Respiratory Conditions

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/pharmacy/postgraduate-diploma/postgraduate-diploma-phytotherapy-cardiovascular-respiratory-conditions](http://www.techtute.com/us/pharmacy/postgraduate-diploma/postgraduate-diploma-phytotherapy-cardiovascular-respiratory-conditions)

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# 01

# Introduction

Cardiovascular and respiratory conditions can find in phytotherapy a great therapeutic support that will improve the quality of life of patients. The pharmacy professional is frequently consulted on this subject and requires a very specific preparation to act with certainty. In order to develop this use with total guarantee, TECH puts in your hands this complete Expert in Advances in Applied Phytotherapy that will allow you to master the ways of intervention in this area with the solidity of a high quality preparation.







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*Provides expert advice on the use of phytotherapy in cardiovascular conditions with the security of acting with the support of the latest scientific advances on the international scene. An essential course for the pharmacy professional"*

There is now a scientific basis supporting the efficacy of many phytotherapeutic products for certain indications. The place that phytotherapy should occupy in therapeutics should be that for which it has demonstrated its usefulness and safety.

Efficacy is achieved only with the proper use of phytotherapeutic preparations, both in terms of indications and form of administration.

This program offers a current vision of Phytotherapy and its application in the health field, including the latest contributions and advances. The contents are guaranteed by the teaching staff involved in the Expert, since in one way or another they all work in the field of phytotherapy or are related to it. Thus, the student will learn based on the experience of the teachers and experience evidence-based medicine, which results in the student's training to be more effective and accurate. On the one hand, the different university training programs generally suffer from a deep and profound lack of

continuously updated training in Phytotherapy, and on the other hand that current health trends are leaning towards the use of safe and effective natural remedies, it is necessary to be able to offer the student the possibility of expanding their knowledge and therapeutic skills with a greater specialization in the use of medicinal plants, from the professional and academic perspective necessary to adequately face their future in this field.



*Increase your competences in the approach to Phytotherapy of Cardiovascular and Respiratory Conditions through this program"*

This ONLINE EXPERT offers you the characteristics of a high level scientific, teaching and technological course. These are some of its most notable features:

- ◆ Latest technology in online teaching software.
- ◆ Highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand.
- ◆ Practical cases presented by practising experts.
- ◆ State-of-the-art interactive video systems.
- ◆ Teaching supported by telepractice.
- ◆ Continuous updating and recycling systems.
- ◆ Self-regulating learning: full compatibility with other occupations.
- ◆ Practical exercises for self-evaluation and learning verification.
- ◆ Support groups and educational synergies: questions to the expert, debate and knowledge forums.
- ◆ Communication with the teacher and individual reflection work.
- ◆ Content that is accessible from any fixed or portable device with an Internet connection.
- ◆ Supplementary documentation databases are permanently available, even after the course.



*Include phytotherapy among your tools in the field and improve your patient care with new ways and alternatives for treatment and prevention"*

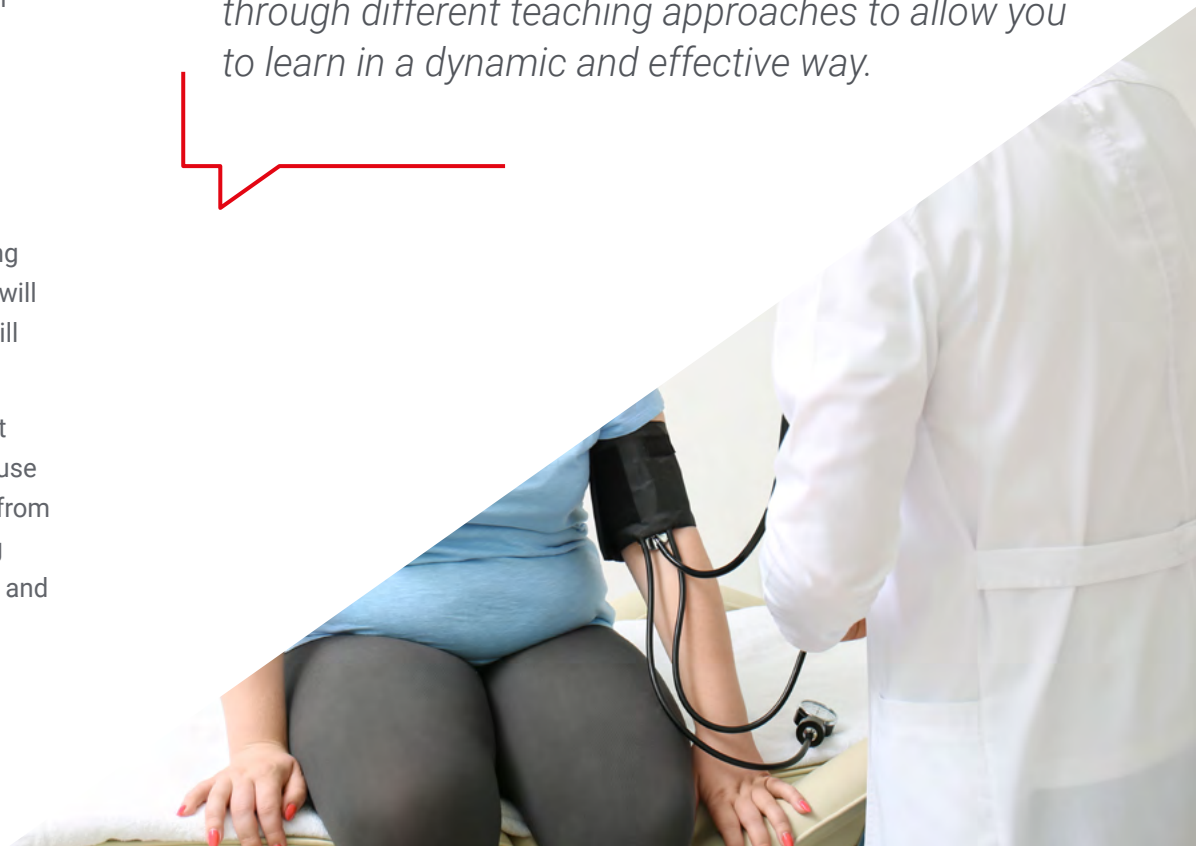
*Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, which will provide you with a faster integration and a much more realistic view of the contents: "learning from an expert"*

Our teaching staff is made up of practicing specialists. In this way, we ensure that we provide you with the training update we are aiming for. A multidisciplinary team of doctors trained and experienced in different environments, who will develop the theoretical knowledge in an efficient way, but, above all, will bring their practical knowledge derived from their own experience to the course: one of the differential qualities of this training.

This mastery of the subject matter is complemented by the effectiveness of this expert's methodological design. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your training.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice: with the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

*With a methodological design based on proven teaching techniques, this Expert will take you through different teaching approaches to allow you to learn in a dynamic and effective way.*





02

# Objectives

This Expert will allow you to define the limits of the use of phytotherapy to be able to manage it safely with the patient, so that you can make the appropriate decisions to use it preventively and therapeutically.







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*The objective of this training is to offer the pharmacy professional a compendium of knowledge focused on the practice that will allow him/her to support, from phytotherapy, the well-being of patients with cardiovascular and respiratory conditions"*



## General Objectives

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- ♦ Define the therapeutic limits of Phytotherapy and identify the cases in which it can be used safely.
- ♦ Describe the use of Phytotherapy oriented to the satisfaction of the needs derived from the patient's health problems and the prevention of complications, guaranteeing a safe and quality practice.
- ♦ Solve cases related to the field of phytotherapy.
- ♦ Explain the use and indication of medical devices, food supplements and/or drugs, assessing the expected benefits and associated risks.
- ♦ Apply theoretical knowledge in daily practice.





## Specific Objectives

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- ♦ Define what a drug is and distinguish it from an active ingredient.
- ♦ Explain the protocols for drug recognition.
- ♦ Explain techniques for the cultivation, collection, processing and conservation of medicinal plants.
- ♦ Identify botanical nomenclature and species citation.
- ♦ Classify plant groups according to phylogenetic systematics (APG, 2009).
- ♦ Define the medicinal utility of mushrooms.
- ♦ Explain the legislation and regulation in relation to Phytotherapy.
- ♦ Explain the application of the magistral formulation in Phytotherapy.
- ♦ Explain the industrial processing of herbal medicines.
- ♦ Define the main chemical groups of active ingredients, which are responsible for the activity of drugs and by extension of plants.
- ♦ Define the therapeutic application of phenols, flavonoids, tannins, isoprenoids, resins, alkaloids and other products.
- ♦ Describe the pharmaceutical forms used in Phytotherapy.
- ♦ Elaborate and select the most appropriate form according to the condition and treatment.
- ♦ Define the usefulness of Phytotherapy in the treatment of heart failure.
- ♦ Define the usefulness of Phytotherapy in the treatment of arterial hypertension.
- ♦ Define the usefulness of Phytotherapy in the treatment of venous insufficiency.
- ♦ Define the usefulness of Phytotherapy in the treatment of cough.
- ♦ Describe Phytotherapeutic treatments and therapeutic limits in cardiovascular conditions.
- ♦ Describe the Phytotherapeutic treatments and therapeutic limits in respiratory system disorders.
- ♦ Define the usefulness of Phytotherapy in the treatment of allergic respiratory processes.



*Advances in Phytotherapy: the basis of health that only the most updated professional will be able to offer to his patients"*



03

# Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.





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*With the expertise of industry professionals who will teach you based on the reality of the sector in a contextual and realistic learning”*

## Professors

### Dr. Jaime Güemes Heras

- ◆ Degree in Biology.
- ◆ Doctor of Biology (PhD).
- ◆ University of Valencia.
- ◆ Curator of the Botanical Garden, Cavanilles Institute of Biodiversity and Evolutionary and Biology

### Dr. Pilar Soriano

- ◆ Degree in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Faculty of Pharmacy. University of Valencia.
- ◆ Professor of the Department

### Degree in Rosa Izquierdo

- ◆ Degree in Pharmacy.
- ◆ Drug Information Center.
- ◆ Illustrious Official College of Pharmacists of Castellón.

### Sra. Esmeralda Buendía

- ◆ Technical Pharmaceutical Director. Arkopharma Laboratories.

### Dr. OLGA MARIA PALOMINO RUIZ-POVEDA

- ◆ Degree in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Faculty of Pharmacy, Complutense University, Madrid.
- ◆ Associate Professor of the Department of Pharmacology.

### Sra. Ana Ibars

- ◆ University of Valencia. Botany Teaching Unit.

### Dr. Gema Alejandra García-Fontestad

- ◆ Doctor of Pharmacy.
- ◆ Pharmacist in pharmacy office.

### Dr. María Bejarano

- ◆ Doctor of Pharmacy.
- ◆ Pharmacist in pharmacy office.

### Dr. Nuria Acero de Mesa

- ◆ Degree in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Faculty of Pharmacy.

### Dr. Dolores Muñoz-Mingarro

- ◆ Degree in Biology.
- ◆ Ph.D. in Biological Sciences.
- ◆ Faculty of Pharmacy.
- ◆ CEU San Pablo University.
- ◆ Professor of the Department

### Dr. Eugenia González Rosende

- ◆ Degree in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Facultad de Ciencias de la Salud, Universidad CEU Cardenal Herrera.
- ◆ Full Professor, Department of Pharmacy.



**Dr. Cristina Balaguer**

- ◆ Degree in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Facultad de Ciencias de la Salud, Universidad CEU Cardenal Herrera.
- ◆ Assistant Professor of the Department of Pharmacy.

**Dr. Aracely Calatayud**

- ◆ Degree in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Facultad de Ciencias de la Salud, Universidad CEU Cardenal Herrera.
- ◆ University Professor of the Department of Pharmacy.

**Esmeralda Buendía**

- ◆ Technical Pharmaceutical Director. Arkopharma Laboratories.

**Dr. Jose Luís Rios Cañavate**

- ◆ Graduate in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Faculty of Pharmacy. University of Valencia.
- ◆ Professor of Pharmacology, Department of Pharmacology.

**Dr. Victoria Villagrasa**

- ◆ Degree in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Facultad de Ciencias de la Salud, Universidad CEU Cardenal Herrera.
- ◆ Professor of Pharmacy Department.

**Dr. M Antonia Noguera**

- ◆ Degree in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Full Professor, Department of from Pharmacology.
- ◆ Faculty of Pharmacy. University of Valencia.

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- ◆ Degree in Pharmacy.
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- ◆ Degree in Biology.
- ◆ Ph.D. in Biological Sciences.
- ◆ Faculty of Pharmacy.
- ◆ CEU San Pablo University.
- ◆ Full Professor, Department of from Chemistry and Biochemistry.

04

# Structure and Content

The contents of this Expert have been developed by the different experts of this course, with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field.





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*A complete and concrete development of knowledge and techniques, created for the pharmacist in order to train him/her for a total quality intervention in phytotherapy"*



### Module 1. Phytotherapy and Herbal Medicines

- 1.1. Phytotherapy: Definition and Scope of Application.
- 1.2. Botanical Nomenclature and the Citation of Species in Phytotherapy.
- 1.3. Current Classification of Plant Groups.
- 1.4. Legislation and Registration of Herbal Medicines in Spain.
- 1.5. Regulation of the European Market for Medicinal Herbal Preparations: Legal Regulations and Scope of Application.
- 1.6. Cultivation, Collection, Processing and Preservation of Medicinal Plants.
- 1.7. Plant-Based Drugs: Impact of Drug Recognition on the Quality of Phytotherapeutic Products.
- 1.8. Mushrooms with Medicinal Utility.

### Module 2. Active Ingredients of the Plants, Pharmaceutical Forms and Galenic Preparations.

- 2.1. Active Ingredients: Main Groups and Properties, as a Basis that Justifies the use of Phytotherapy.
- 2.2. Carbohydrates, Lipids, Proteins, and Sulfo cyanogenetic Heterosides and their Therapeutic Application.
- 2.3. Simple Phenols, Coumarins and Lignans and their therapeutic application.
- 2.4. Flavonoids and their Therapeutic Application.
- 2.5. Tannins and Quinones and their Application.
- 2.6. Isoprenoids, Saponins and Cardiotonic Heterosides and their Application.
- 2.7. Resins and their Application.
- 2.8. Alkaloids and their Application.
- 2.9. Magistral Formulation in Phytotherapy.
- 2.10. Other Pharmaceutical Forms in Phytotherapy.
- 2.11. Industrial Processing of Herbal Medicines.



STOR OIL



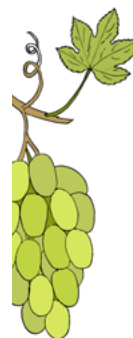
MUGWORT



LICORICE



GIN



RAPES



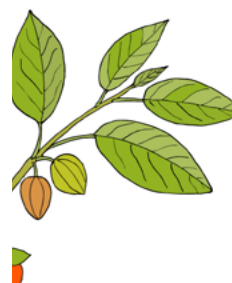
CAYENNE PEPPER



NUTMEG



BOSW



L/AGANDHA



ECHINACEA



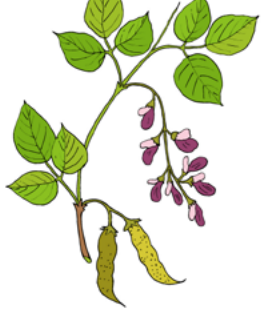
WHITE WILLOW BARK



CHAM



**KGO**



**MUCUNA**



**ELEUTHERO**



**GINSENG**



**ELLIA**



**STINGING NETTLE**



**ST. JOHN'S WORT**



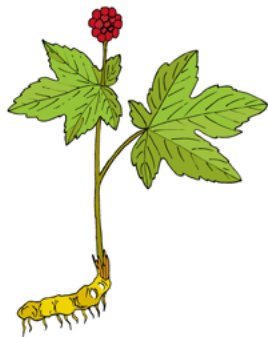
**GINGER**



**OMILE**



**LAVENDER**



**GOLDENSEAL**



**DEVIL'S CLAW**

**Phytotherapy For Cardiovascular And Respiratory Conditions**

- of Phytotherapy in the Treatment of Heart Failure.
- therapy in the Treatment of Arterial Hypertension.
- therapy in the Treatment of Hyperlipidemia involved in Cardiovascular Diseases.
- therapy in Venous Insufficiency Disorders.
- therapy in Respiratory Infections.
- therapy in the Treatment of Cough.
- therapy in the Treatment of Allergic Respiratory Processes.
- ment of Asthma with Active Ingredients Derived from Plants. Antispasmodics.
- therapy and Herbal Active Ingredients in the Treatment of Lung Cancer.

**“** A comprehensive teaching program, structured in well-developed teaching units, oriented toward a high impact learning and training”

05

# Methodology

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

This teaching system is used in the most prestigious medical schools in the world, and major publications such as the *New England Journal of Medicine* have considered it to be one of the most effective.





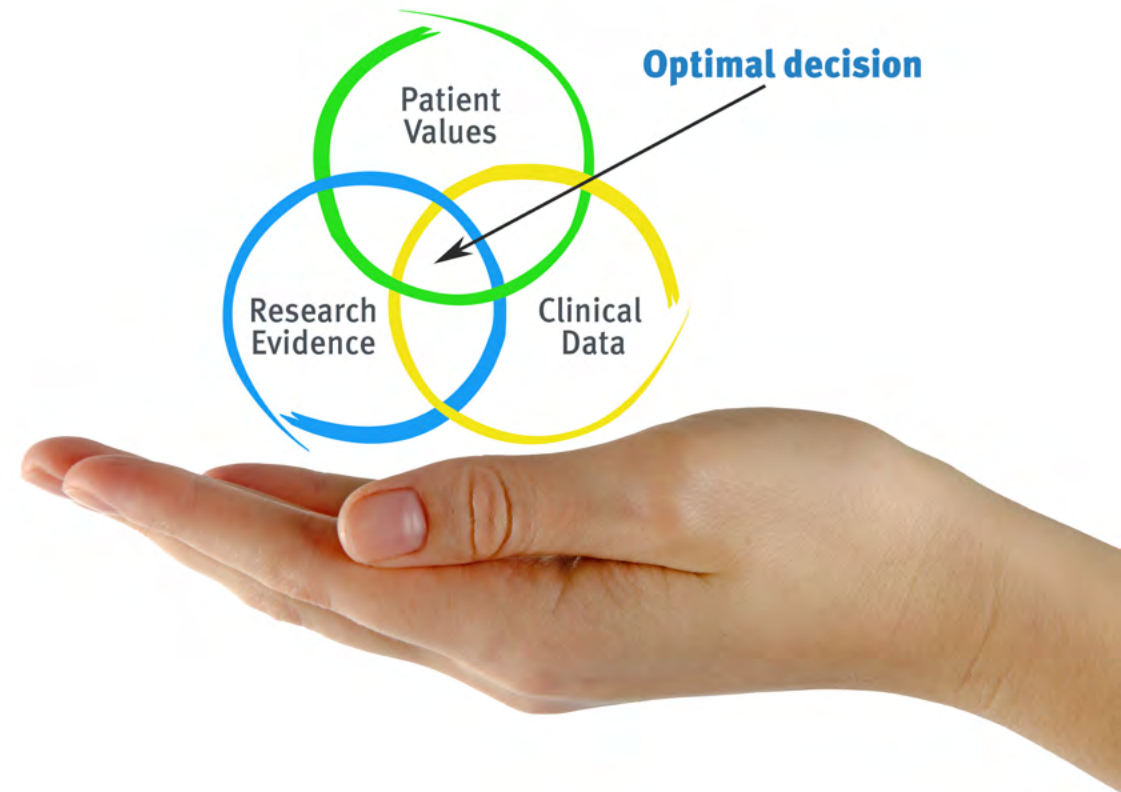


*Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization".*

## At TECH we use the Case Method

In a given clinical situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Pharmacists learn better, more quickly and more sustainably over time.

*With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, attempting to recreate the actual conditions in a pharmacist'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. Pharmacists who follow this method not only achieve the assimilation of concepts, but also develop their mental capacity through exercises to evaluate real situations and apply their knowledge.
2. The learning process has a clear focus on practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.





## Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.



*Pharmacists will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*

At the forefront of world teaching, the Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 115,000 pharmacists with unprecedented success, in all clinical specialties. Our pedagogical methodology is developed in a highly demanding environment, with a university student body with a high socioeconomic profile and an average age of 43.5 years old.

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

In our program, learning is not a linear process, but rather a spiral (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this Postgraduate Diploma you will have access to the best educational materials, prepared specifically for you:



#### Study Material

After a complex production process, we transform the best content into high-quality educational and audiovisual multimedia. We select the best syllabus and make it available to you. Everything you need to acquire in-depth knowledge of a discipline, from A to Z. Lessons written and chosen by specialists in each of the disciplines.



#### Surgical techniques and clinical procedures on video

We bring you closer to the latest techniques, to the latest scientific advances, to the forefront of medical news. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



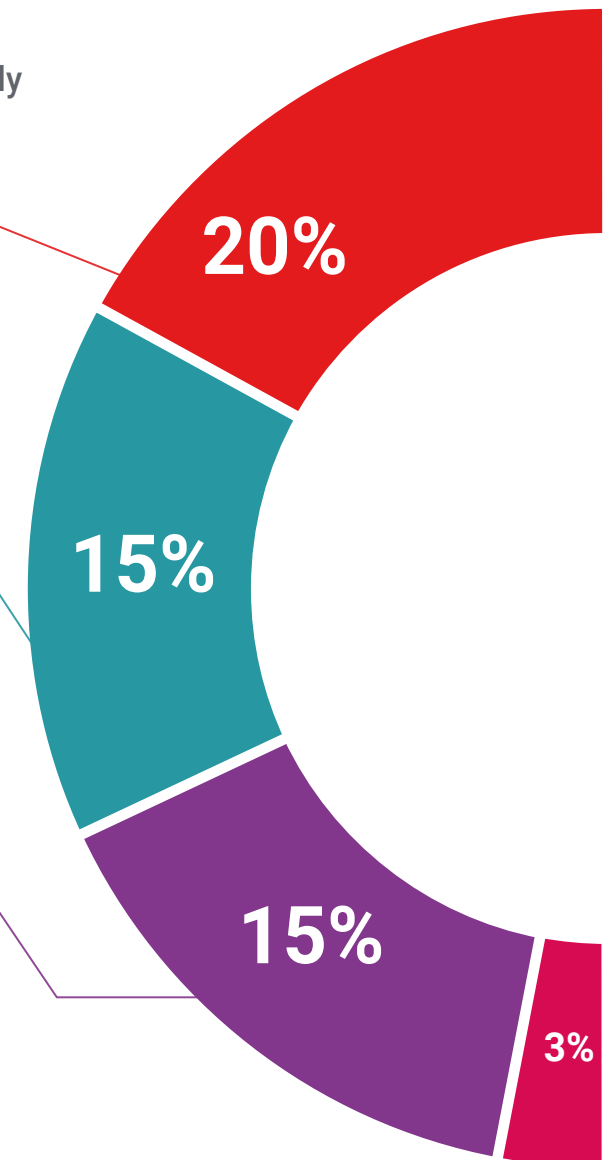
#### Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge. This unique training system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

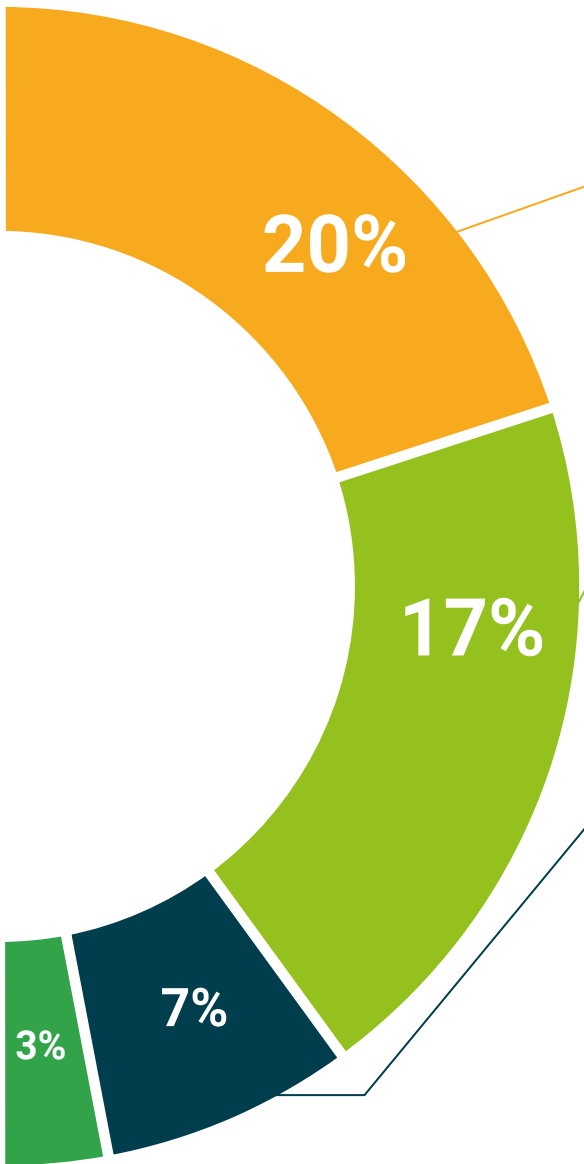


#### Additional Reading

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







#### Expert-Led Case Studies and Case Analysis

Through the narratives of expert professionals, it is possible to acquire a high degree of understanding of the most frequent problematic situations. The professional's healthcare practice is not alien to the context in which it takes place. If we want to train ourselves to improve our professional practice, this training must be situated within the context in which it takes place.



#### Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout this program through activities and evaluative exercises.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful. Learning from an expert strengthens knowledge and recall, and generates confidence in our future difficult decisions.



#### Quick Action Guides

One of the most important functions of our team is to select those contents considered essential and present them in the form of worksheets or quick action guides to facilitate their understanding.



06

# Certificate

This Postgraduate Diploma in Phytotherapy of Cardiovascular and Respiratory Conditions guarantees you, in addition to the most rigorous and up-to-date training, access to a Postgraduate Diploma issued by the first educational institution in Spain: TECH Global University.



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*Successfully complete this training and receive your university degree without travel or laborious paperwork”.*



This private qualification will allow you to obtain a **Postgraduate Diploma in Phytotherapy for Cardiovascular and Respiratory Conditions** 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.

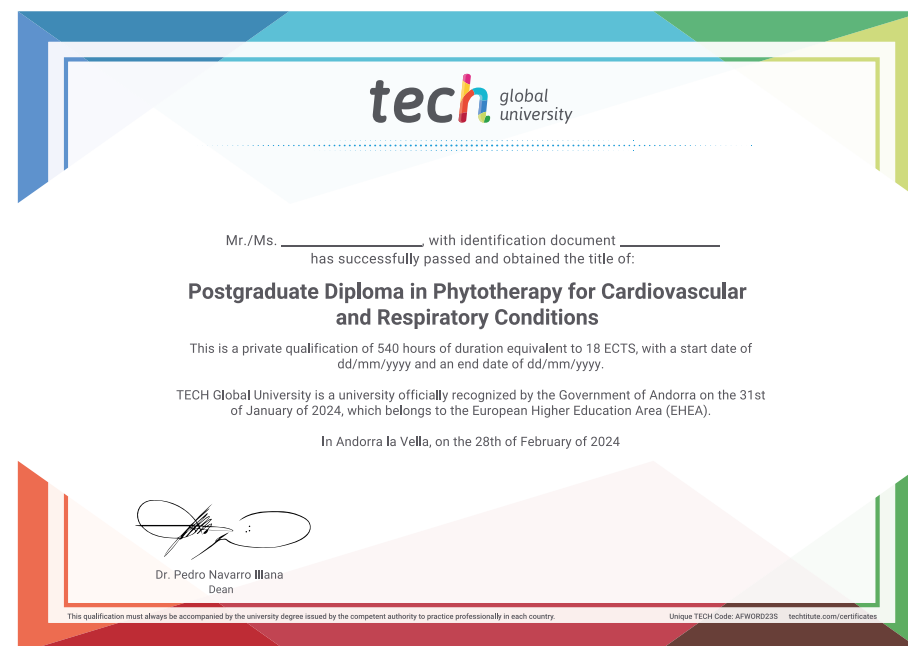
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Phytotherapy of Cardiovascular and Respiratory Conditions**

Modality: **online**

Duration: **6 months**

Accreditation: **18 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.

future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

personalized service innovation

knowledge present

online training

development language

classroom

**tech** global  
university

**Postgraduate Diploma**  
Phytotherapy  
for Cardiovascular and  
Respiratory Conditions

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

## Phytotherapy for Cardiovascular and Respiratory Conditions

