

Postgraduate Certificate

HBOT in Pain, Rheumatic Diseases and Clinical Medicine

Endorsed by the NBA





Postgraduate Certificate HBOT in Pain, Rheumatic Diseases and Clinical Medicine

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

Website: www.techtute.com/us/physiotherapy/postgraduate-certificate/hbot-pain-rheumatic-diseases-clinical-medicine

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

The treatment of pain and rheumatic diseases using physiotherapy finds a range of therapeutic possibilities in hyperbaric therapy. Learning all aspects of this type of intervention offers the professional in this field new and interesting possibilities. This program will allow you to act with solvency and certainty in this type of work.



“

A high-level program that will allow you to incorporate the ability to act as an expert in this field"

There is currently a resurgence in the use of hyperbaric oxygen therapy (HBOT) as an adjuvant tool in different medical specialties. The creation of next generation hyperbaric chambers which are easier to use, more affordable and easier to install in public and private health institutions, has led different professionals to incorporate this tool into their daily practice.

This Postgraduate Certificate in HBOT in Pain, Rheumatic Diseases and Clinical Medicine explains, through experimental evidence, the effect of hyperbaric oxygen in neuropathic pain. Therefore, the principles of the potential applications of HBOT in diseases and situations involving this type of pain is outlined.

The evidence of HBOT with low pressures in altitude sickness is also covered in this program, in order to incorporate this treatment in the therapeutic approach to altitude sickness.

The principles and evidence of HBOT on the anti-inflammatory effect, ischemia reperfusion injury and antioxidant effect are presented. In addition, evidence is shown in inflammatory bowel disease, tinnitus and in different inflammatory diseases.

On the other hand, the contribution of the physiological effects of HBOT in preventive medicine is analyzed according to the emerging evidence in different metabolic diseases.

In this way, future applications in different specialties and inflammatory and metabolic diseases of great impact on health could be considered in this Postgraduate Certificate.

This **Postgraduate Certificate in HBOT in Pain, Rheumatic Diseases and Clinical Medicine** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Development of practical cases presented by experts in Hyperbaric Medicine
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ News on Hyperbaric Medicine in the field of physiotherapy
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Special emphasis on innovative methodologies in Hyperbaric Medicine
- ♦ 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



Don't miss the opportunity to study at the largest private Spanish-speaking online university. Take the step and join our team"

“

This Postgraduate Certificate is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge of HBOT in Pain, Rheumatic Diseases and Clinical Medicine, you will obtain a diploma from TECH Global University"


Its teaching staff includes professionals from the field of Hyperbaric Medicine, who contribute their work experience to this 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 throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system developed by renowned and experienced experts in HBOT in Pain, Rheumatic Diseases and Clinical Medicine.

This program has the best educational material, which will enable a contextual study that will facilitate your learning.

This 100% online program will allow you to balance your studies with your professional work while increasing your knowledge in this field.



RECIRCULADOR

RESIÓN

02 Objectives

The program in HBOT in Pain, Rheumatic Diseases and Clinical Medicine is oriented to prepare students in the fundamentals and applications of hyperbaric oxygen therapy and expose the scientific evidence in the different specialties in the field of health. In this sense, during the program, we will delve into their correct use and we will prepare you to be able to put these treatments into practice in your sessions. In this way, you will become a much more competent and prepared professional to work as a physiotherapist in both public and private health institutions.



“

A Postgraduate Certificate created for physiotherapy professionals that will propel you in your profession by giving you the knowledge you need to perform with expert precision"



General Objectives

- Increase awareness of the usefulness of hyperbaric oxygen therapy
- Prepare physiotherapy professionals in the fundamentals, mechanisms of action, indications, contraindications and applications of hyperbaric oxygen
- Recognize the potential applications of hyperbaric oxygen in different clinical cases and the benefits that can be achieved with the treatment, as well as performing the indication and detection of the contraindications





Specific Objectives

- Describe the effect and scientific evidence of HBOT on altitude sickness
- Demonstrate the mechanism of hyperbaric oxygen on analgesia and experimental evidence
- Study the application of HBOT in rheumatic diseases and neurosensitive syndromes
- Discuss the probable application in the prevention of metabolic pathologies, with inflammatory component or ischemia reperfusion injury
- Present the experience of HBOT in clinical cases of chronic pain, intoxications and clinical medicine



A unique, key and decisive educational experience to boost your professional development"

03

Course Management

The program's teaching staff includes leading experts in Hyperbaric Medicine who contribute their vast work experience to this program. Additionally, other recognized specialists participate in its design and preparation which means that the program is developed in an interdisciplinary manner.





“

We have an excellent team of specialists in the field of Hyperbaric Medicine that will help you prepare in this field"

Management



Dr. Cannellotto, Mariana

- ♦ Medical Director of the network of Hyperbaric Medicine centers BioBarica Argentina
- ♦ Vice President of AAMHEI
- ♦ Specialist in Clinical Medicine
- ♦ Specialist in Hyperbaric Medicine, School of Medicine



Dr. Jordá Vargas, Liliana

- ♦ Scientific Director of the Argentine-Spanish Association of Hyperbaric Medicine and Research (AAMHEI and AEMHEI)
- ♦ Scientific Director-Biobarica Clinical Research. International Network of BioBaric Hyperbaric Medicine Centers
- ♦ Degree in Biochemistry. National University of Córdoba, Argentina
- ♦ Microbiology Specialist
- ♦ Head of Microbiology, CRAI North, Cucaiba, Argentina



Professors

Dr. Verdini, Fabrizio

- ◆ Institutional Relations AAMHEI
- ◆ Clinical Doctor
- ◆ Diploma in Public Health Management
- ◆ Master's Degree in Healthcare Management

Dr. Ramallo, Rubén Leonardo

- ◆ Director of the AAMHEI Medical Clinic Commission
- ◆ Specialist in Internal Medicine. Residency in Internal Medicine, Córdoba Hospital
- ◆ Medical Surgeon Faculty of Medical Sciences. National University of Córdoba. Argentina
- ◆ Master's Degree in Psychoimmunoneuroendocrinology. Favaloro University

Dr. Emilia Fraga, Pilar María

- ◆ FINES Teacher
- ◆ AAMHEI Pedagogical Assistant

04

Structure and Content

The structure of the contents has been designed by the best professionals in the field of Hyperbaric Medicine, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied and diagnosed, and with extensive knowledge of new technologies applied to hyperbaric medicine. This will ensure that the knowledge you receive is based on experience and will equip you with the necessary skills to successfully practice the profession.





“

This Postgraduate Certificate in HBOT in Pain, Rheumatic Diseases and Clinical Medicine contains the most complete and up-to-date scientific program on the market"

Module 1. HBOT in Pain, Rheumatic Diseases and Clinical Medicine

- 1.1. HBOT in Altitude Sickness
- 1.2. Mechanisms of Action in Analgesia: Neuropathic Pain and Hyperbaric Oxygen
- 1.3. Arthropathies and Collagenopathies
- 1.4. HBOT in Dysfunctional Neurosensitive Syndromes
- 1.5. Fibromyalgia and Hyperbaric Oxygen
- 1.6. HBOT in Ischemia Reperfusion Injury
- 1.7. Tinnitus and Sudden Onset Deafness
- 1.8. Inflammatory Bowel Disease and Hyperbaric Oxygen
- 1.9. HBOT in Fertility
- 1.10. Hyperbaric Oxygen in the Metabolism of Diabetes and Severe Anemia





“

This program will allow you to advance your career in a comfortable and compatible way”

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.





“

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. Physiotherapists/kinesiologists 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 of professional physiotherapy practice.

“

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. Physiotherapists/kinesiologists 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 physiotherapist/kinesiologist 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.



The physiotherapist/kinesiologist 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 trained more than 65,000 physiotherapists/kinesiologists with unprecedented success in all clinical specialties, regardless of the 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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 our 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.



Physiotherapy Techniques and Procedures on Video

TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. 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.

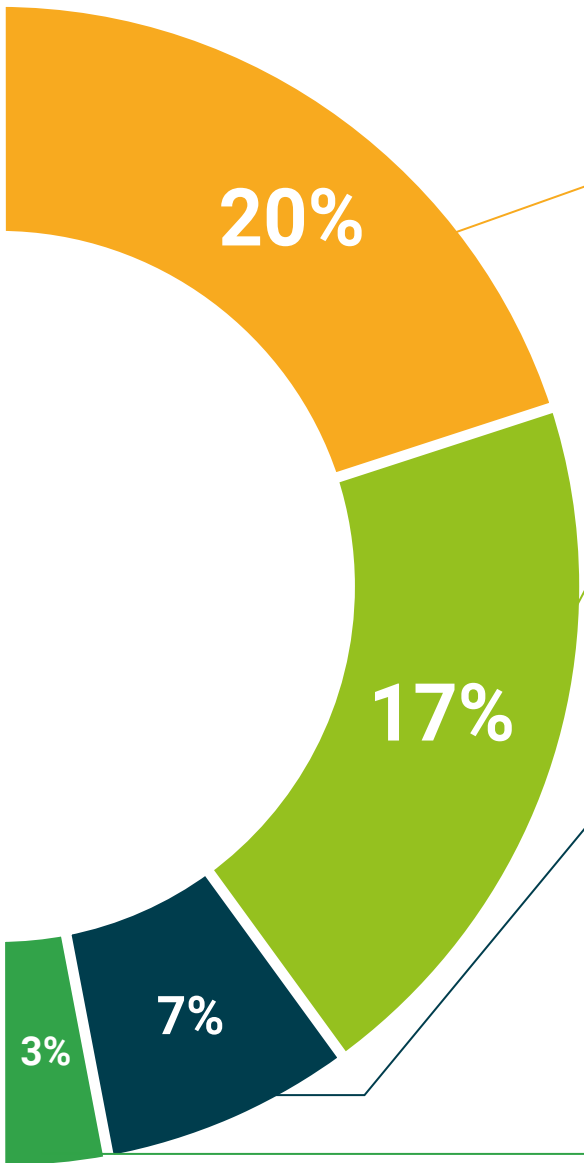
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



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 Certificate in HBOT in Pain, Rheumatic Diseases and Clinical Medicine guarantees students, in addition to the most rigorous and up-to-date education, access to a certificate issued by TECH Global University.



“

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 HBOT in Pain, Rheumatic Diseases and Clinical Medicine** 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 HBOT in Pain, Rheumatic Diseases and Clinical Medicine**

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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development language
virtual classroom



Postgraduate Certificate HBOT in Pain, Rheumatic Diseases and Clinical Medicine

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

Postgraduate Certificate

HBOT in Pain, Rheumatic Diseases and Clinical Medicine

Endorsed by the NBA



tech global
university

