



Postgraduate Certificate

HBOT in Physical and Neurological Rehabilitation

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

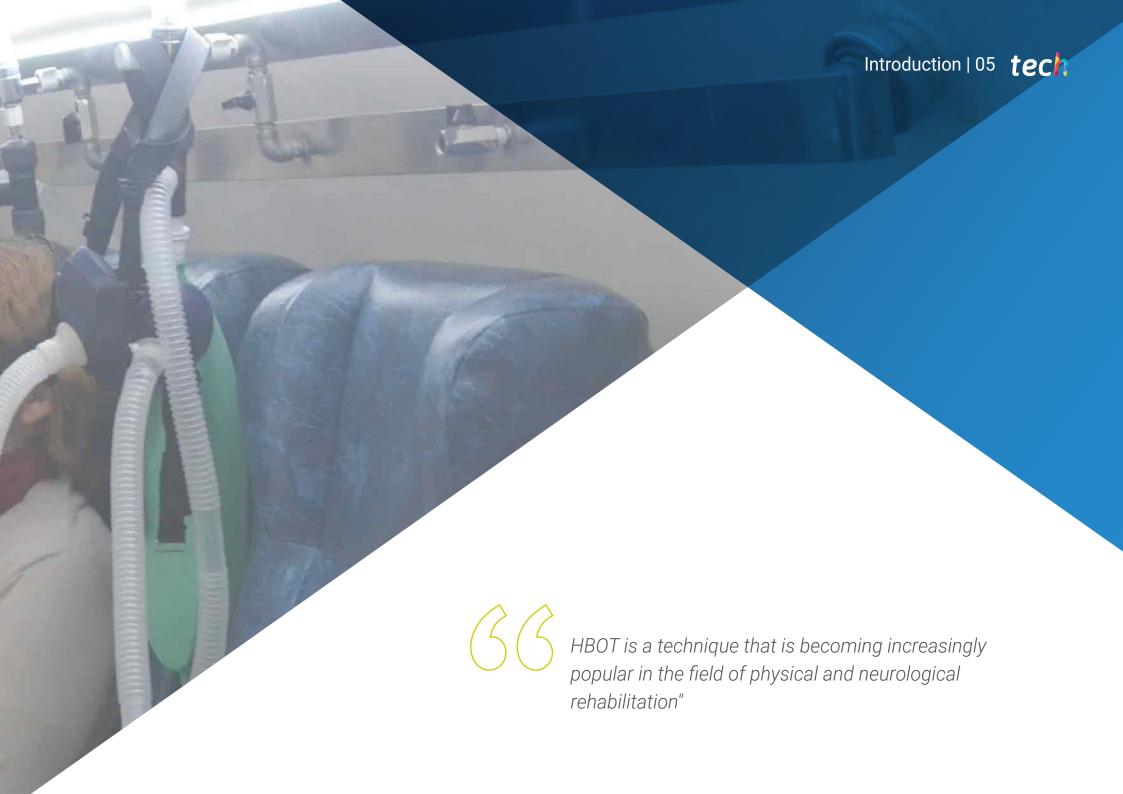
Website: www.techtitute.com/us/medicine/postgraduate-certificate/hbot-physical-neurological-rehabilitation

Index

> 06 Certificate

> > p. 30





tech 06 | Introduction

There is currently a resurgence in the use of hyperbaric oxygenation treatment (HBOT) as an adjuvant tool in different medical specialties. The creation of new 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 Physical and Neurological Rehabilitation shows the benefits and evidence of this specialty, not recognized by the professional societies that perform high-pressure treatment. However, there is not only published evidence, but also the experience of the teachers of this training on the effects of HBOT in this type of pathologies.

The role of hypoxia in neurodegenerative diseases such as Alzheimer's and Parkinson's is also presented, which raises HBOT as a therapeutic option to achieve some benefits and attenuate some symptoms in these progressive pathologies. Experimental evidence of HBOT in these patients is also presented.

In Sports Medicine, the incorporation of accessible and portable cameras has positioned this treatment as an option to improve sports performance and accelerate the recovery of muscle, ligament, tendon and bone injuries. And the advantages of HBOT in bone edema, oteomyelitis and avascular necrosis are taught.

Thanks to this course, the student will acquire the skills to perform the indication of this treatment for each case.

This Postgraduate Certificate in HBOT in Physical and Neurological Rehabilitation contains the most complete and updated scientific program on the market. The most important features of the program include:

- Development of practical cases presented by experts in Hyperbaric Medicine.
- The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- Developments in Hyperbaric Medicine.
- 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 online university in the Spanish-speaking world".

Introduction | 07 tech



This course 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 Physical and Neurological Rehabilitation, you will obtain a degree endorsed by TECH - Technological University".

It includes in its teaching staff professionals belonging to the field of Hyperbaric Medicine, who pour into this training the experience of their work, in addition to recognized specialists from reference societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

This program is designed around Problem Based Learning, whereby the specialist must try to solve the different professional practice situations that arise during the academic year. To do so, the professional will be assisted by a novel interactive video system developed by renowned and experienced HBOT experts in Physical and Neurological Rehabilitation.

This training comes with the best didactic material, providing you with a contextual approach that will facilitate your learning.

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







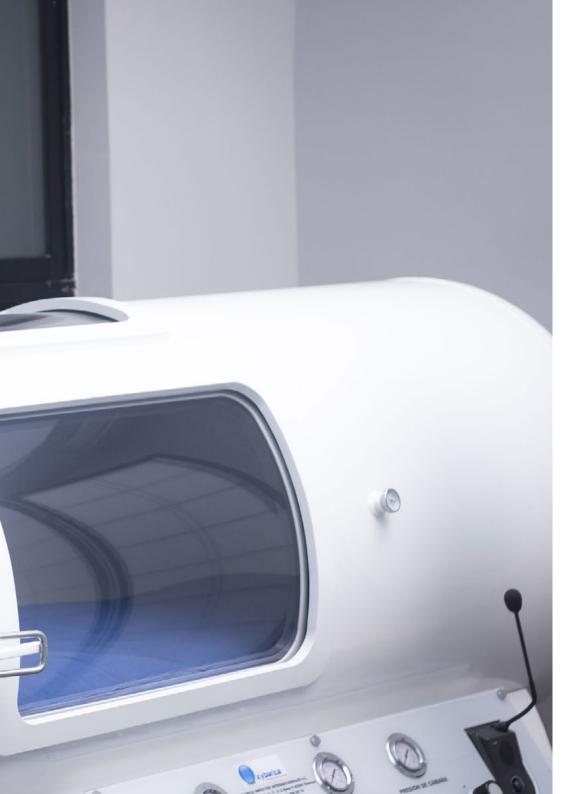
tech 10 | Objectives



General Objectives

- Promote the usefulness of hyperbaric oxygenation treatment in different medical specialties.
- Train health professionals on the foundations, mechanisms of action, indications, contraindications and applications of hyperbaric oxygen.
- Study the degree of evidence published and the recommendations and indications of the different scientific societies related to Hyperbaric Medicine.
- Recognise the potential applications of hyperbaric oxigen 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.





Objectives | 11 tech



Specific Objectives

- Present the scientific evidence on the neurological indications of HBOT.
- Describe the effect of HBOT on physical rehabilitation.
- Training on the indications of HBOT in sporting injuries and trauma pathologies.
- Describe the effect of HBOT on recovery and performance in sport.
- Discuss the role of hypoxia in the development of neurodegenerative diseases and present the evidence of HBOT on Parkinsons and Alzheimers.
- Present the experience of clinical cases treated with HBOT.





tech 14 | Course Management

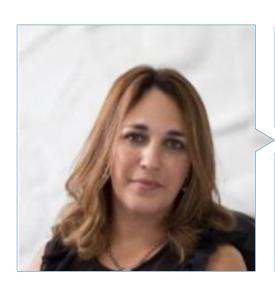
Management



Dr. Cannellotto, Mariana

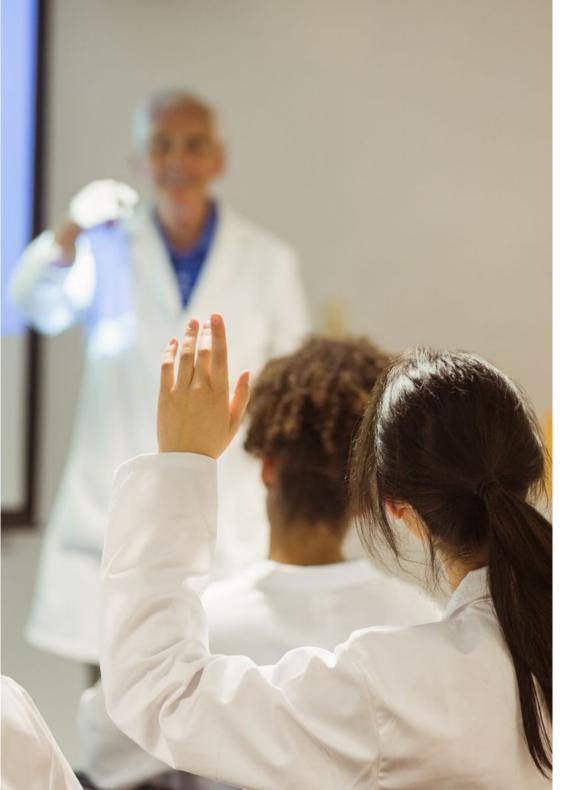
- President of AAMHEI Biobarica Medical Director
- Specialist in Hyperbaric Medicine, Medical Clinic

Director



Dr. Jordá Vargas, Liliana

- Degree in Clinical Biochemistry
- Microbiology
- Scientific Director of AEMHEI and AAMHEI
- Biobarica Scientific and Clinical Research Director



Course Management | 15 tech

Teachers

Dr. Emilia Fraga, Pilar María

- FINES Teacher
- AAMHEI Pedagogical Assistant.

Dr. López Jiménez, Elías

- Degree in Medicine at Madrid Complutense University
- Specialist in Radiotherapeutic Oncology via RMI, La Princesa Hospital.

Dr. Navarro Viltre, Bárbara Ivonne

- Deputy of the Emergency Department of the General Hospital of Catalonia.
- Specialist in Family and Community Medicine.
- Head of Hyperbaric Medicine unit at Catalonia Hospital.

Dr. Ramallo, Rubén Leonardo

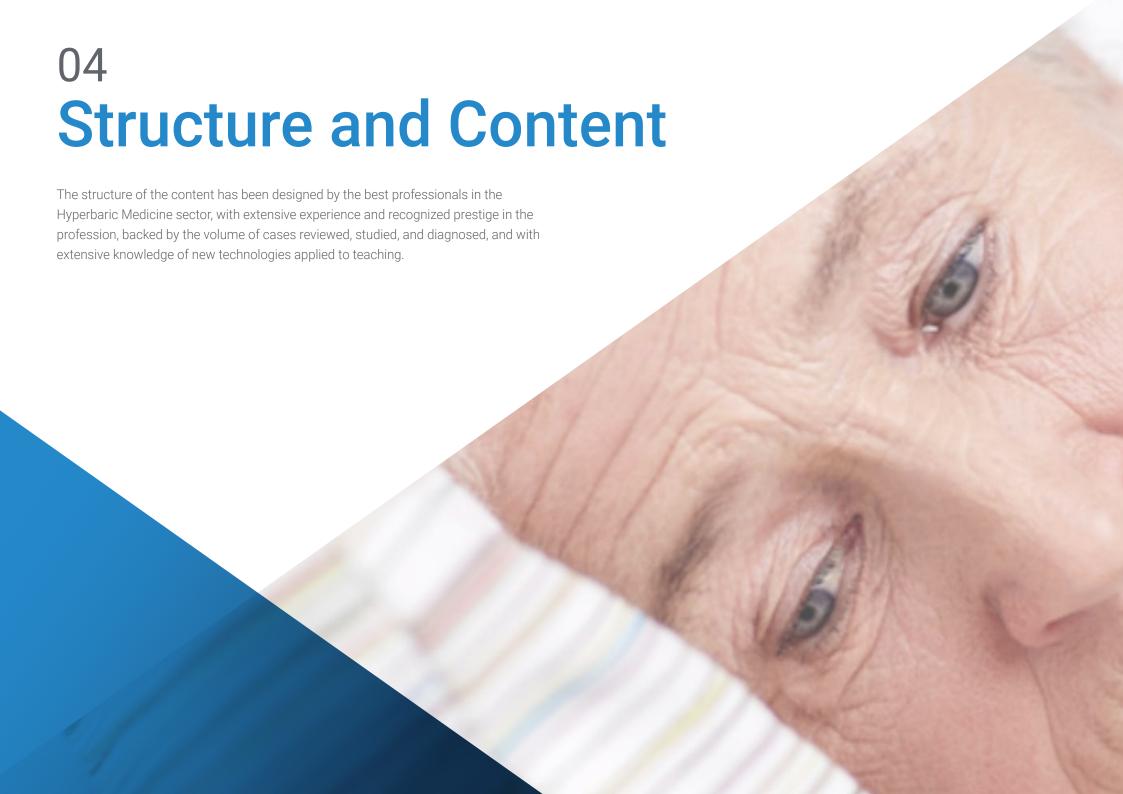
- Master in Psychoneuroimmunoendocrinology.
- Biobarica Medical Doctor Núñez and Larrea.
- Director of the AAMHEI Medical Clinic Commission.

Dr. Romero-Feris, María Delfina

- President of AEMHEI
- Biobaric Medical Director Spain

Dr. Verdini, Fabrizio

- Diploma in Public Health Management.
- Master's Degree in Healthcare Management.





tech 18 | Structure and Content

Module 1. HBOT in Physical and Neurological Rehabilitation

- 1.1. HBOT in Recovery and Performance in Sport.
- 1.2. Hyperbaric Oxygen and Sporting Injuries.
- 1.3. Brain Trauma and Post-Concussion Syndrome.
- 1.4. Stroke Recovery and Hyperbaric Oxygen.
- 1.5. Brain Paralysis and HBOT.
- 1.6. Autism
- 1.7. Ischemic Encephalopathies
- 1.8. HBOT in Parkinson's.
- 1.9. HBOT in Alzheimer's.
- 1.10. HBOT in Trauma (Avascular Necrosis, Bone Edema, Fractures and Osteomyelitis).







This training will allow you to advance in your career comfortably"



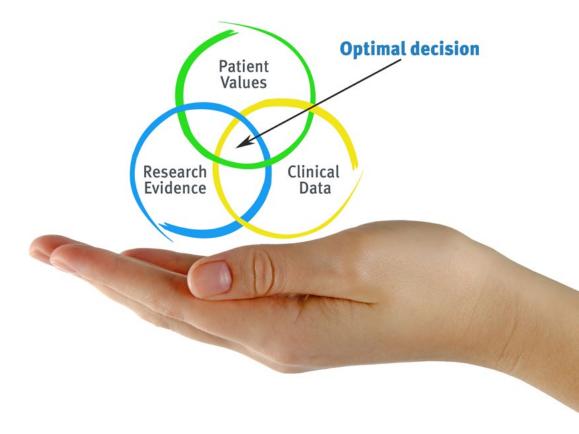


tech 22 | Methodology

At TECH we use the Case Method

In a given 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. Specialists learn better, faster, 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. 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 potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.



Did you know that this method was developed in 1912 at Harvard for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method.

The effectiveness of the method is justified by four fundamental achievements:

- 1. Students who follow this method not only 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 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.



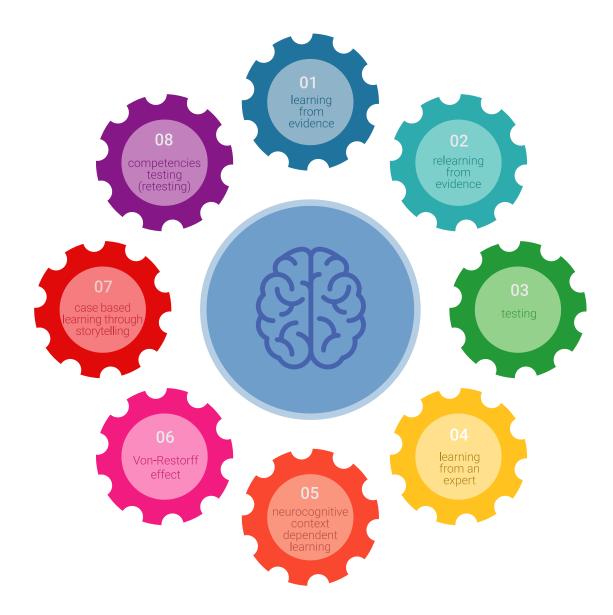


Re-Learning Methodology

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.

The physician will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-theart software to facilitate immersive learning.



Methodology | 25 tech

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 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socioeconomic profile and an average age of 43.5 years.

Re-learning 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 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.

tech 26 | Methodology

In this program you will have access to the best educational material, prepared with you in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Latest Techniques and Procedures on Video

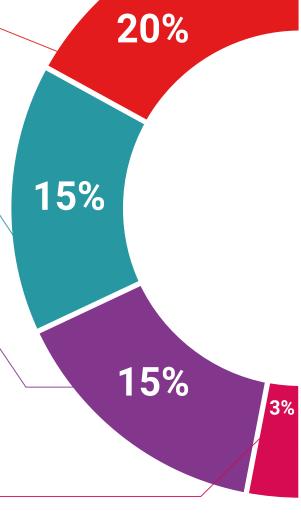
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



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.

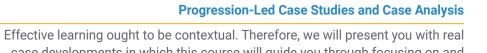
This unique training system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





Additional Reading

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



Effective learning ought to be contextual. Therefore, we will present you with real case developments in which this course will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding..

Testing & Re-testing



We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.

Classes



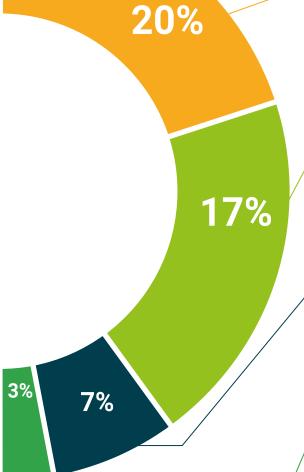
There is scientific evidence suggesting that observing third-party Progression can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.

Quick Action Guides



We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.







tech 32 | Certificate

This Postgraduate Certificate in HBOT in Physical and Neurological Rehabilitation contains the most complete and up-to-date scientific program on the market.

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

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

Title: Postgraduate Certificate in HBOT in Physical and Neurological Rehabilitation

ECTS: 6

Official Number of Hours: 150



POSTGRADUATE CERTIFICATE

in

HBOT in Physical and Neurological Rehabilitation

This is a qualification awarded by this University, with 6 CTS credits and equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

ine 17, 2020 Z

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each count

us TECH Code: AEWORD23S techtitute com/certificat

health

Information

guarantee

technological

university

Postgraduate Certificate HBOT in Physical and Neurological Rehabilitation

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

