

Internship Program Hyperbaric Medicine



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Internship Program
Hyperbaric Medicine

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01 Introduction

In its more than 200 years of history, Hyperbaric Medicine has experienced a multitude of advances and developments that, to this day, do not stop occurring. The expansion of the use of hyperbaric oxygenation treatment in different medical specialties, as well as the creation of more accessible chambers have created an unbeatable framework for action. This makes it essential that the professional has access to the latest developments in the area in a direct and practical way, in a real scenario that allows them to continue developing their professional practice. This TECH program responds to this need, providing the best environment and the most qualified tutors for a complete and advanced update, so they can relate directly with the daily clinical practice for 3 weeks in a national or international reference center. They will be in a dynamic and modern environment, treating real patients, always side by side with the best professionals in the field.



Enjoy the best learning experience, directly with real patients and in a modern clinical environment. Enroll now”





The new areas of action of Hyperbaric Medicine have forced professionals to modernize their techniques and update their practical methodology, including the most successful and current treatments. This implies that the most experienced specialists must be familiar with the latest analyses and assessments in wound healing, oncology, toxicology and other areas of special interest. Delivered in a direct way, this practical approach allows the specialist to get to know all these new developments first hand.

This treatment is recommended both for athletes and for patients with fibromyalgia and chronic fatigue, ailments that have increased considerably in recent years due to the lifestyle of the population. Thanks to the increase of oxygen in the blood obtained through Hyperbaric Medicine, anti-inflammatory, healing and tissue repair effects can be achieved by increasing the antioxidant capacity.

Undoubtedly, a treatment increasingly demanded for its high effectiveness in improving physical performance, recovery from injuries and musculoskeletal pathologies. This translates into an increase in the quality of life of patients who wish to improve their performance, treat a specific pathology, improve their physical or aesthetic condition, since it is also effective for the recovery of burns, ulcers or skin problems.

In this sense, training in this area is a tremendous option for the specialist who wishes to expand their professional perspectives and offer innovative methods to improve the health of their patients. In this case, TECH has developed this eminently practical program where the student will have an on-site stay in a clinical center of reference in terms of treatment with Hyperbaric Medicine. Therefore, they will be directly involved in the attention of real cases and will be prepared in the use of the technical equipment necessary for its application.

02

Why Study an Internship Program?

For today's specialist it is essential to advance beyond the theoretical study. Verifying the amount of advanced technology that exists regarding the application of Hyperbaric Medicine, in a modern, clinical scenario and with the help of renowned specialists, will allow the student to configure a high-level professional background. This will translate into the professional improvements they desire immediately. In just a few weeks of on-site study, in a medical center specialized in Hyperbaric Medicine, they will be up-to-date with the most advanced therapeutics. They will be able to join a multidisciplinary team, where they will demonstrate the usefulness of this type of treatment in various types of patients. They will participate in the care of wound healing and infectious pathology, pain treatment, rheumatic pathology and medical clinic. In addition, in physical and neurological rehabilitation, oncology, toxicology, as well as dysbaric pathology. A unique academic opportunity that not only revolutionizes traditional pedagogical systems, but also puts the specialist at the center of the equation to offer learning with real utility and adapted to their needs.

1. Updating from the latest technology available

Hyperbaric chambers themselves have proven to be one of the latest advances in medicine, with various applications in patients with different pathologies or needs to improve their quality of life. This treatment, which consists of supplying oxygen through this pressurized chamber at a higher atmospheric pressure than normal, needs to be studied in depth and in real scenarios. Therefore, the student will be able to understand how it works, since it is a very specialized technical equipment.

2. Gaining In-Depth Knowledge from the Experience of Top Specialists

TECH allows the student to be accompanied at all times by high-level professionals. From the choice of the clinical practice center, the tutoring of the best specialists in the area of study is already considered, which will allow the learning process to flow smoothly. The student will be provided with all the necessary technical resources for a good performance in the clinical internship and, therefore, the desired professional background.

3. Entering First-Class Clinical Environments

TECH carefully selects all available centers for Internship Programs. Thanks to this, the specialist will have guaranteed access to a prestigious clinical environment in the field of Hyperbaric Medicine. In this way, you will be able to see the day-to-day work of a demanding, rigorous and exhaustive sector, always applying the latest theses and scientific postulates in its work methodology.

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4. Putting the acquired knowledge into daily practice from the very first moment

TECH presents an innovative proposal, 100% practical, where the professional in 3 weeks will be able to expand their knowledge in a real clinical space in person. This will allow them to work directly with multidisciplinary professionals and with the technical resources available for the treatment of patients in Hyperbaric Medicine.

5. Expanding the Boundaries of Knowledge

With the possibility that students can choose to do the practical training in one of the most recognized clinical centers of Hyperbaric Medicine, this program offers the possibility of a 3-week stay in a national or international center. This way, they will be able to expand their perspective and learn new methods and ways of application from the vision of specialized and technologically verified human teams.



You will have full practical immersion at the center of your choice"

03 Objectives

Being a field in resurgence and continuous expansion, TECH has oriented this Internship Program for the specialist to delve and modernize their knowledge in Hyperbaric Medicine. All this with an eminently practical focus, with the accompaniment of renowned professionals who will guide you at all times through the different types of treatments and clinical pictures that arise.



General Objectives

- ♦ Master 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
- ♦ Define, evaluate and determine the diagnostic and therapeutic focus in chronic patients in Hyperbaric Medicine with a neuropathic, musculoskeletal, oncological and visceral origin





Specific Objectives

- ♦ Master the current state of new indications and applications based on the development of evidence, the evolution of the different models and types of hyperbaric chambers, and the origin of scientific societies related to the specialty
- ♦ Identify the types of hypoxia described and the scenarios of hypoxia-related disorders in different pathologies
- ♦ Perform the analysis of different clinical cases which can benefit from the therapeutic effects of HBOT
- ♦ Demonstrate the experience of HBOT in clinical cases of chronic pain, intoxications and clinical medicine
- ♦ Training in the oncological safety of HBOT (angiogenesis and tumor growth)
- ♦ Indicate HBOT in carbon monoxide poisoning, poisoning and lesions caused by venomous animal bites or iatrogenic embolism
- ♦ Manage the requirements and regulations for the installation of the different hyperbaric chambers
- ♦ Identify different contraindications of HBOT in real patient cases
- ♦ Discuss different clinical cases based on the integration of validated applications and the potential future applications of HBOT

04 Educational Plan

This program includes an internship period of 3 weeks in a leading center of Hyperbaric Medicine. Always accompanied by a highly qualified professional, the specialist will have access to real patients and clinical pictures, in which they will be able to apply and verify all the recent advances in hyperbaric oxygenation treatment.

In this completely practical Internship Program, the activities are aimed at developing and perfecting the skills necessary to provide hyperbaric treatments, and are oriented towards specific expertise for practicing the activity, in a safe environment for the patient and with highly professional performance.

This is a unique opportunity to get up-to-date by working side by side with the most cutting-edge professionals, getting to know the different types of HBOT examinations to be performed, as well as the most scientifically rigorous analyses and assessments currently in use.

The activities to be completed by the specialist during their internship are designed to provide the most complete update possible. The technical and therapeutic safety of the new generation of hyperbaric chambers will be addressed, as well as the absolute contraindications of this therapy in certain types of patients and the assessment of special care at different pressure levels.

The practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of knowledge (learning to learn and learning to do), with the accompaniment and guidance of teachers and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for the practice of Hyperbaric Medicine (learning to be and learning to relate).

The procedures described below will form the basis of the practical part of the training, and their implementation is subject to both the suitability of the patients and the availability of the center and its workload, with the proposed activities being as follows:



Receive specialized education in an institution that can offer you all these possibilities, with an innovative academic program and a human team that will help you develop your full potential"



Module	Practical Activity
Hyperbaric Chamber Configuration	Apply the strictest protocols of technical and therapeutic safety in new generation hyperbaric chambers
	Regulate the indicated pressure of each session according to the intended treatment
	Analyze the patient's ability to compensate the pressure in their ears, regulating the pressurization speed accordingly
	Perform average pressures, micropressure and hyperbaric pressure test
Verification of Physiological Therapeutic Effects of HBOT	Perform vasoconstriction analysis and other types of assessments in various conditions
	Analyzing oxidative stress and hyperbaric oxygen
	Test the anti-inflammatory effect of hyperbaric oxygen and the antimicrobial effect of hyperbaric oxygen
Indications of Level 1 Hyperbaric Medicine	Assess the use of Hyperbaric Medicine in patients with serious disorders such as Limb Crush Syndrome, Compromised Grafts and Flaps, Sudden Deafness, Chronic Osteomyelitis
	Assess patients with ulcers, gangrene or situations of Chronic Critical Ischemia where the use of Hyperbaric Medicine may be beneficial
	Follow up the patient's evolution based on vascular permeability
Indications of Level 2 Hyperbaric Medicine	Participate in therapeutic processes where Hyperbaric Medicine serves as a reinforcement in patients with limb reimplantation surgeries, cerebral anoxia or burns of more than 20% and second degree
	Examine cases of diabetic foot, cerebral vascular insufficiency, peripheral ischemic syndromes or sports injuries where Hyperbaric Medicine can intervene
	Assess the benefits of Hyperbaric Medicine in patients undergoing neurological and orthopedic rehabilitation, as well as in recovery from plastic or reconstructive surgeries
Indications and Contraindications of Hyperbaric Medicine	Analyze absolute and relative contraindications of Hyperbaric Medicine according to the clinical history of patients
	Assess patients with absolute contraindications such as untreated pneumothorax, proven oxygen toxicity or claustrophobia
	Study the use of Hyperbaric Medicine in patients with relative contraindications such as congenital anomalies of the nose and throat, narcolepsy or acute nephritis

05 Where Can I Do the Internship Program?

TECH always seeks the highest quality education for all specialists who wish to continue offering the best professional praxis. Therefore, the most prestigious Hyperbaric Medicine centers have been selected in order to ensure a rigorous, complete and faithful update to the most urgent reality of HBOT. All this is a guarantee of quality for the specialist, who will have access to the latest machinery and the most successful practical developments.



TECH has already chosen the best centers for you, you just have to take the step and get up-to-date in a practical way in all the latest developments in Hyperbaric Medicine”





The student will be able to do this program at the following centers:



Medicine.

Oxiclínico - Centro Odontoclínico Integral

Country: Spain City: Madrid

Address: Calle Puerto de los Leones, 2 Planta primera, oficina 10, 28220 Majadahonda, Madrid

Specialized Clinic in General Dentistry and Hyperbaric Medicine

Related internship programs:
- Hyperbaric Medicine



Medicine.

CornerSalud

Country: Spain City: Madrid

Address: Av. de la Coruña, 68, 28231 Las Rozas de Madrid, Madrid

Hyperbaric Medicine Clinical Center with oxygen therapy

Related internship programs:
- Hyperbaric Medicine



Medicine.

Hospital HM Montepíncipe

Country: Spain City: Madrid

Address: Av. de Montepíncipe, 25, 28660, Boadilla del Monte, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:
- Palliative Care
- Aesthetic Medicine



Medicine.

Pilares del Rosario

Country	City
Argentina	Santa Fe

Address: Paraguay 2041 Rosario, Santa Fe

Clinic of integral neurorehabilitation for adults and children

Related internship programs:

- Physiotherapy in Early Care
- Hyperbaric Medicine





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Take advantage of this opportunity to surround yourself with expert professionals and learn from their work methodology”

06

General Conditions

Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical training period. This way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.



General Conditions of the Internship Program

The general terms and conditions of the internship agreement for the program are as follows:

1. TUTOR: During the Internship Program, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor, whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both practical and academic.

2. DURATION: The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

3. ABSENCE: If the students does not show up on the start date of the Internship Program, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

4. CERTIFICATION: Professionals who pass the Internship Program will receive a certificate accrediting their stay at the center.

5. EMPLOYMENT RELATIONSHIP: The Internship Program shall not constitute an employment relationship of any kind.

6. PRIOR EDUCATION: Some centers may require a certificate of prior education for the Internship Program. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

7. DOES NOT INCLUDE: The Internship Program will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.

07 Certificate

This Internship **Program in Hyperbaric Medicine** contains the most complete and up-to-date program in the professional and academic landscape.

After the student has passed the assessments, they will receive their corresponding Internship Program diploma issued by TECH Technological University via tracked delivery*.

The diploma issued by TECH will reflect the grade obtained in the test.

Title: **Internship Program in Hyperbaric Medicine**

Duration: **3 weeks**

Attendance: **Monday to Friday, 8-hour consecutive shifts**

Total Hours: **120 h. of professional practice**



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