Postgraduate Certificate
Shoulder Ultrasound in Physiotherapy

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Postgraduate Certificate
Shoulder Ultrasound in Physiotherapy

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

Website: www.techtitute.com/pk/physiotherapy/postgraduate-certificate/shoulder-ultrasound-physiotherapy

Index

01

Introduction

Accurately detecting the extent of tendinitis or shoulder bursitis suffered by the patient is the main key to establishing the most appropriate therapy and shortening recovery times. For this reason, ultrasound devices are increasingly present in rehabilitation centers and clinics, which leads to the need for highly specialized physiotherapists in their domain to preserve the welfare of users with injuries in this area. In this context, TECH has created this degree with which, in a 100% online mode, the student will expand their skills in the exploration for possible dislocations or tendinopathies, in order to place them as a first level professional.

The Postgraduate Certificate in Shoulder Ultrasound in Physiotherapy will allow you to expand your skills in the exploration for possible dislocations or tendinopathies produced in this area"

The shoulder is one of the parts of the body in which most injuries occur, either by sports, work or simply by actions of everyday life, leading to physiotherapy consultations receive numerous patients with complaints in this area. In order to detect the extent of a pathology, to carry out an adequate follow-up of the same and to adapt the rehabilitation program to the state of the injury, it is essential to handle the latest and most widespread ultrasound devices with ease.

For these reasons, TECH has created this program, which will enable the physiotherapist to master the most updated techniques of exploration of ailments produced in the different areas of the shoulder and, consequently, to establish a therapy adapted to each patient and each type of injury to ensure their recovery in the minimum interval of time. Throughout this academic pathway, you will increase your skills in the detection of supraspinatus tendinopathy or subacromial syndrome. Along the same lines, you will assimilate the new procedures to diagnose a possible calcification or establish the best dynamic tests to analyze shoulder stability.

Given the 100% online delivery mode in which this course is developed, students will be able to combine excellent learning with their personal and professional obligations. Likewise, they will have access to didactic resources available in different types of textual and multimedia supports, with TECH's intention to provide them with a teaching adapted to the study methods that are most efficient for them.

This **Postgraduate Certificate in Shoulder Ultrasound in Physiotherapy** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical case studies presented by experts in Physical Rehabilitation Medicine and in Physiotherapy
- 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

Acquire, thanks to this program, the best knowledge in the detection of supraspinatus tendinopathy to undertake an effective treatment adapted to the particularities of each injury"

Combine your personal and professional life with your learning thanks to the study facilities offered by this TECH qualification"

Improve your physiotherapeutic praxis through this program and multiply your chances of accessing the best professional opportunities in this area.

Study a program taught by high caliber professionals in the field of Physical Medicine and Rehabilitation and Physiotherapy.

The program includes, in its teaching staff, professionals from the sector who contribute to this program with their work experience, as well as renowned 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 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 during the academic year For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

02

Objectives

TECH has created this program with the aim of promoting the expansion of knowledge in the diagnosis, monitoring and treatment of shoulder injuries using ultrasound devices by the physiotherapist. In this way, you will assimilate the most efficient exploration techniques for each side of this muscle, guaranteeing an excellent learning through the following general objectives that have been designed.

Expand your competences in the detection of shoulder injuries by means of ultrasound techniques through this program"

General Objectives

- Learn to locate the different anatomical structures of the region
- Identify pathologies to ensure correct ultrasound guided physiotherapy treatment
- Define the limits of ultrasound
- Learn about the use of ultrasound in the framework of physiotherapist skills

Specific Objectives

- Identify the main structures of the shoulder that are visible in ultrasound
- Describe the normal examination of the structures of the anterior aspect of the shoulder
- Describe the normal examination of the structures of the lateral aspect of the shoulder
- Describe the normal examination of the structures of the posterior aspect of the shoulder
- Recognize the most common lesions of the shoulder, to ensure correct ultrasound-guided treatment and/or monitoring of their evolution
- Describe the least common pathologies that can affect the shoulder joint
- Learn how to perform ultrasound-guided dynamic assessment tests for the shoulder

Through these objectives designed by TECH, your excellent learning in the area of Shoulder Ultrasound in Physiotherapy will be guaranteed"

04

Course Management

In order to provide its students with a first class education, this TECH program is directed and taught by professionals who are actively practicing in the field of Physical Medicine and Rehabilitation or Physiotherapy. These experts are responsible for the elaboration of all the didactic materials to which the student will have access during the duration of this academic program, which is why the contents they will provide will be fully updated.

The teachers in charge of teaching this program have extensive experience in ultrasound management in order to provide you with the most applicable skills in this field"

Management

Dr. Castillo Martín, Juan Ignacio

- Head of Physical Medicine and Rehabilitation Service. 12 de Octubre Hospital. Madrid
- Doctor Specialist in Physical and Rehabilitation Medicine, Hospital Complex Ruber Juan Bravo
- Rehabilitation Physician at the Traffic Accidents Unit of the Ruber Juan Bravo Hospital Complex
- Rehabilitation Physician. Recoletas Cuenca Hospital
- Coordinator of continuing education of the Spanish Society of Cardiology in Exercise Testing with Oxygen Consumption
- Associate Professor, Complutense University of Madrid. Faculty of Medicine
- Teaching coordinator in continuing education courses at the Madrid Regional Ministry of Health: "Tertiary prevention in chronic cardiopathic patients. Cardiac Rehabilitation"
- Degree in Medicine and Surgery. University of Salamanca
- Master's Degree in Cardiac Rehabilitation. SEC-UNED
- Master in Disability Assessment Autonomous University Madrid
- Master Child Disability. Complutense University of Madrid
- Doctorate Course: Neurosciences University of Salamanca
- Member of the Spanish Society of Cardio

Coordinators

Dr. Santiago Nuño, Fernando

- Physiotherapist and podiatrist at the Armstrong International Clinic
- Professor of Musculoskeletal Ultrasound and Ultrasound-guided Infiltrations at the Complutense University of Madrid and the European University of Madrid
- Doctor in Podiatry from the University of La Coruña

Dr. Rivillas Gómez, Alberto

- Rehabilitation Physician at European Musculoskeletal Institute
- Physician at the Knee Unit of the European Musculoskeletal Institute
- Resident Medical Intern in Physical Medicine and Rehabilitation at 12 de Octubre University Hospital

Dr. Juano Bielsa, Álvaro

- Specialised Physician of Physical Medicine and Rehabilitation at the University Hospital 12 de Octubre
- Specialised Physician of Physical Medicine and Rehabilitation at the University Hospital HLA Moncloa
- Speaker at Rehabilitation Scientific Conferences

Dr. Uzquiano Guadalupe, Juan Carlos
- Associate Professor in the Master in Neurorehabilitation at the Institut Guttmann
- Master's Degree in Clinical Reasoning and Clinical Practice, Alcalá University
- Specialist in Physical Medicine and Rehabilitation at 12 de Octubre Hospital

Dr. Carmona Bonet, María A
- Teacher in university studies of Medicine
- Collaborating doctor in practical teaching for medical studies
- Doctor by the Universidad Complutense de Madrid with the thesis Shockwave treatment of skin ulcers with long evolution time

Dr. López Sáez, Mireya
- Specialised Physician of Physical Medicine and Rehabilitation at the University Hospital 12 de Octubre
- Collaborating doctor in practical teaching for medical studies
- Member of the Illustrious Official College of Physicians of the Community of Madrid

Dr. García Gómez, Nuria
- Physician in health care centers in the Southeast Health Area of Madrid
- Degree in Medicine and Surgery from the University of Alcalá
- Specialised Faculty Physical Medicine and Rehabilitation at the Hospital 12 de Octubre

Dr. Sevilla Torrijos, Gustavo
- FEA of the Rehabilitation Service at the of Torrejón University Hospital
- FEA of Rehabilitation of the Hospital de Guadarrama
- Member of the Spanish Society of Rehabilitation and Physical Medicine (SERMEF)

Dr. Casado Hernández, Israel
- Associate Teacher in university studies
- Author of 20 scientific articles and 7 book chapters
- Doctorate in Health Sciences from the Rey Juan Carlos University

Dr. García Expósito, Sebastián
- Radiodiagnostic technician at the Sanitas Women's Center
- Radiodiagnostic Technician at Hospital de la Zarzuela
- Degree in Bioimaging Production from the National University of Lomas de Zamora

Dr. Moreno, Cristina Elvira
- Physiotherapist in Parkinson's Association Madrid
- Degree in Physiotherapy from the Complutense University of Madrid
- Master's Musculoskeletal Ultrasound in Physiotherapy from CEU San Pablo University

Dr. Nieri, Martín Alejandro
- Diagnostic Imaging Technician at the University Hospital Son Espases
- CEO of in Ultrasound Assistance & Teleradiology Service SL

Dr. Pérez Calonge, Juan José
- Doctorate in Health Sciences from the Public University of Navarra
- Official Master Degree in Health Expertise from the Complutense University of Madrid
- Official Master's Degree in Advanced Podiatry by CEU

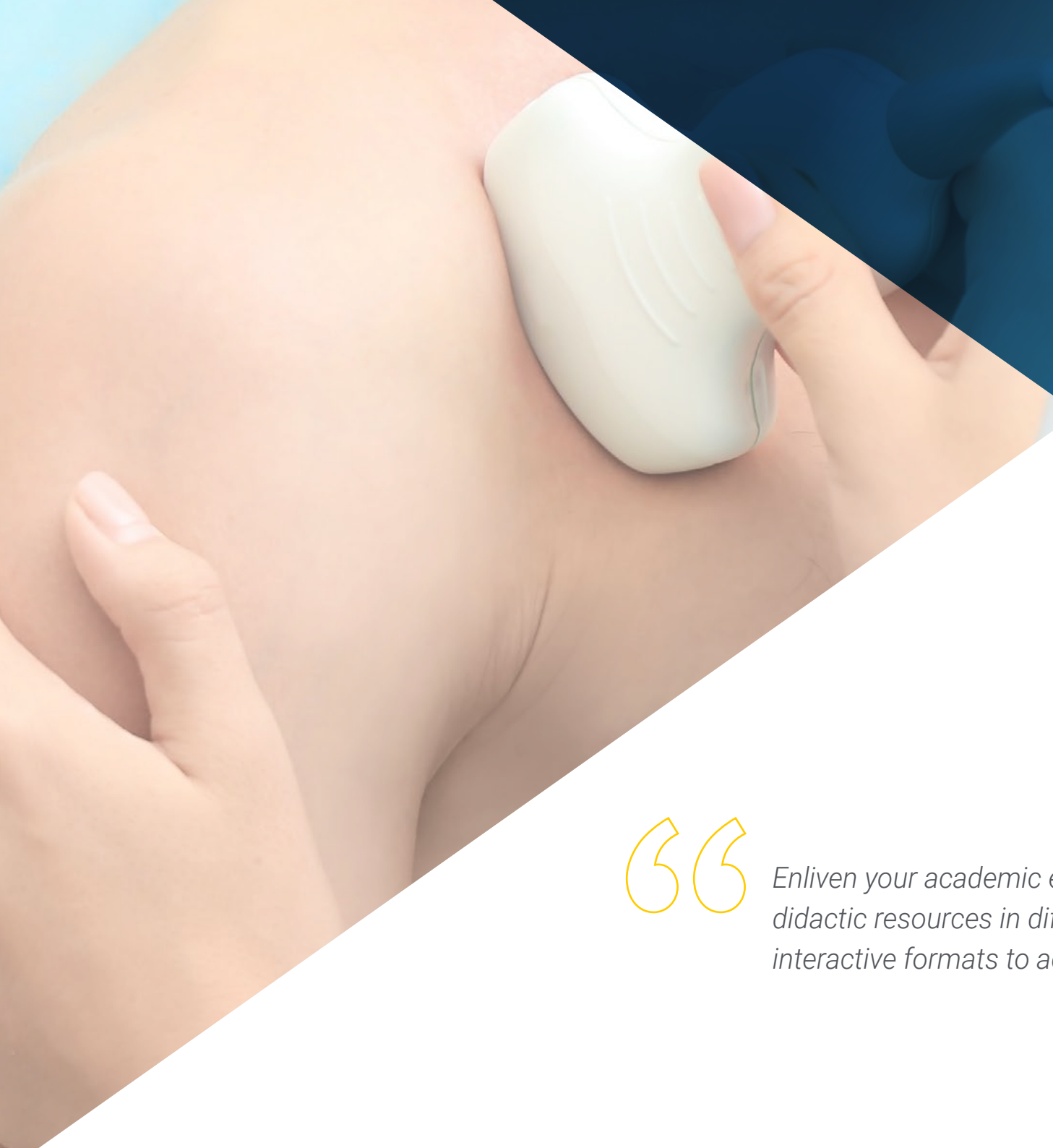
Dr. Sánchez Marcos, Julia
- Physiotherapist and osteopath in Isabel Amoedo Physiotherapy Clinic
- Physiotherapist at the Vithas Hospital Nuestra Señora de Fátima
- Physiotherapist at-ASPODES-FEAPS

Dr. Santiago Nuño, José Ángel
- Dietician and nutritionist in different physiological situations in Medicadiet
- Diploma in Physiotherapy from San Pablo CEU University
- Postgraduate Certificate in Human Nutrition and Dietetics from San Pablo CEU University

05

Structure and Content

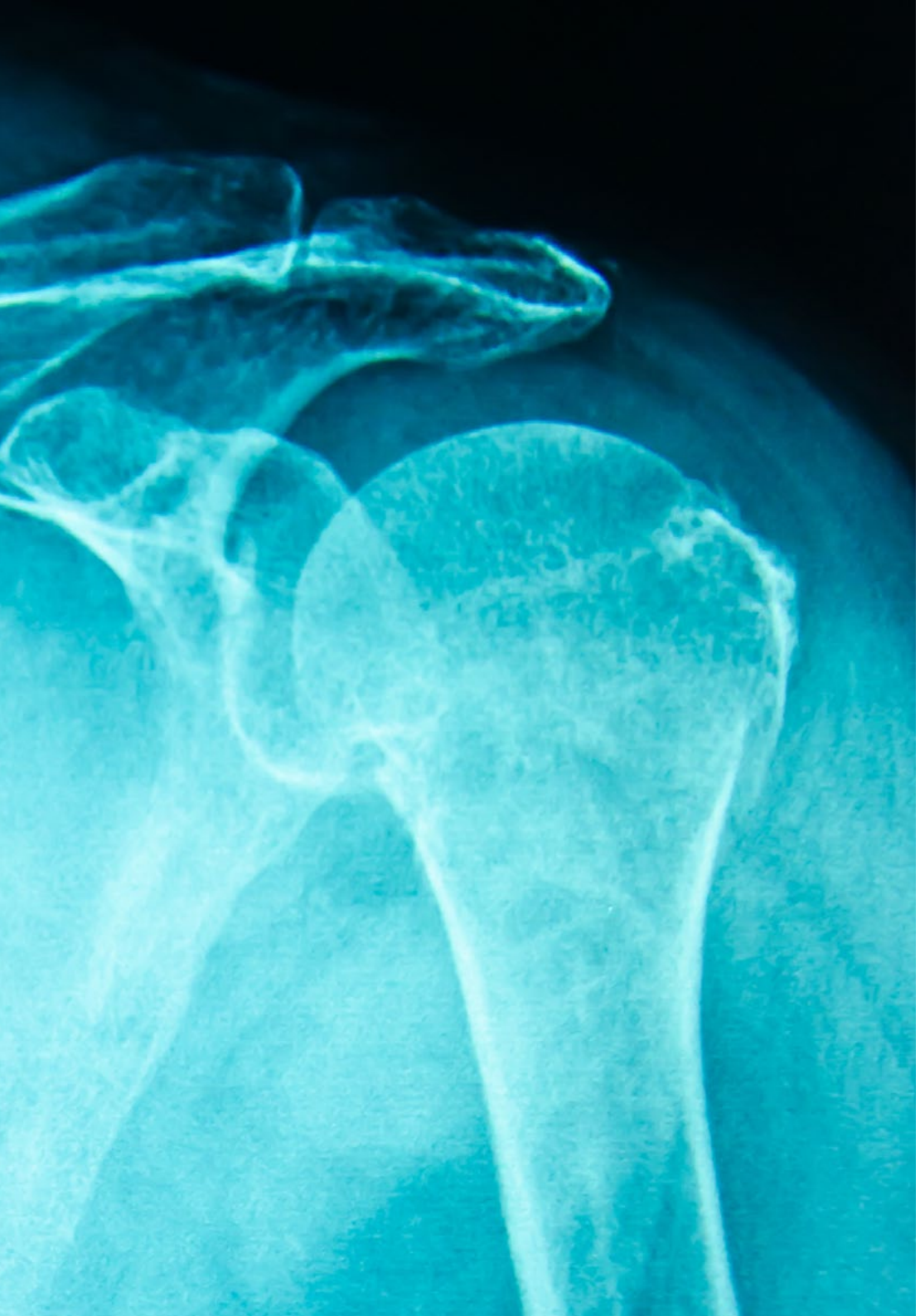
The curriculum of this Diploma consists of 1 module through which students will increase their knowledge in the use of ultrasound to detect and optimize the treatment of injuries in various areas of the shoulder. The didactic materials that will be available throughout the duration of this program are present in a wide range of textual and interactive media, with the aim of providing learning based on your personal and academic requirements, through a 100% online methodology.



Enliven your academic experience, accessing didactic resources in different textual and interactive formats to achieve effective learning"

Module 1. Ultrasound of the Upper Limb: Shoulder

1.1. Normal Sonoanatomy of the Shoulder
  1.1.1. Examination of the Anterior Aspect Structures
  1.1.2. Examination of the Lateral Aspect Structures
  1.1.3. Examination of the Posterior Aspect Structures
1.2. Shoulder Pathology
  1.2.1. Most Common Tendon Pathology
  1.2.2. Other Shoulder Joint Pathology
1.3. Dynamic Tests on the Shoulder



Enroll in this program to access the most updated didactic contents of the pedagogical market in Shoulder Ultrasound in Physiotherapy"

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

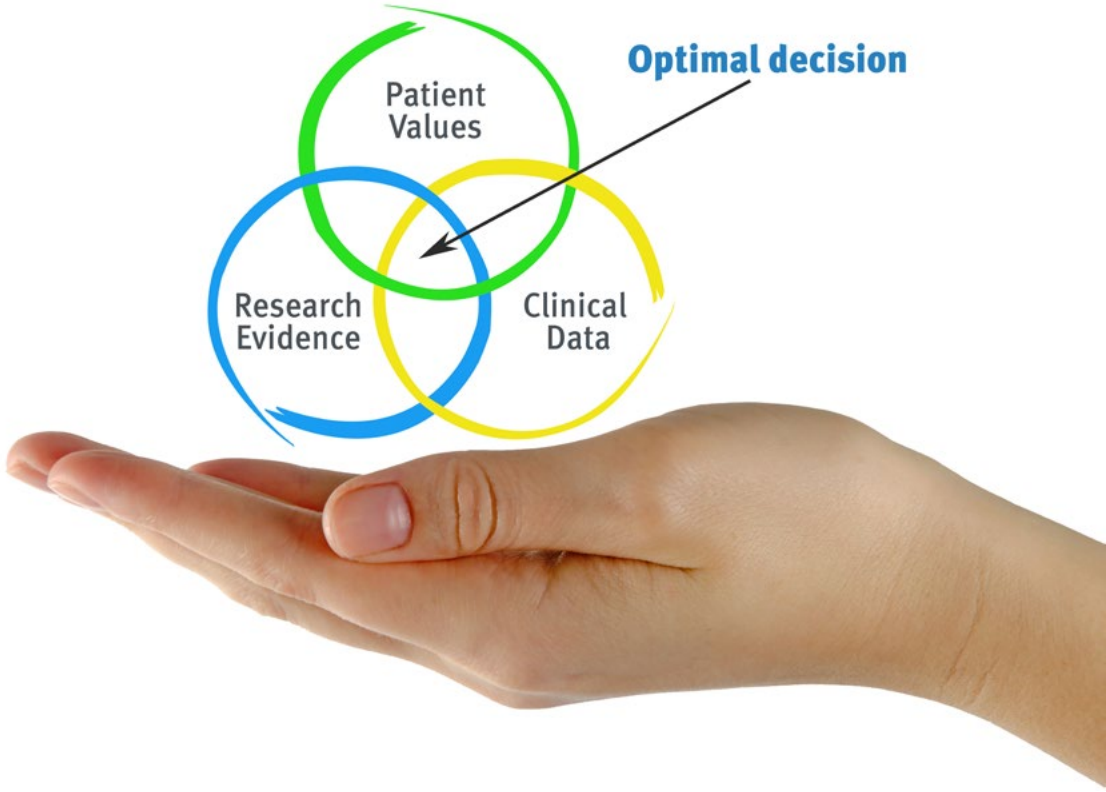
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

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:

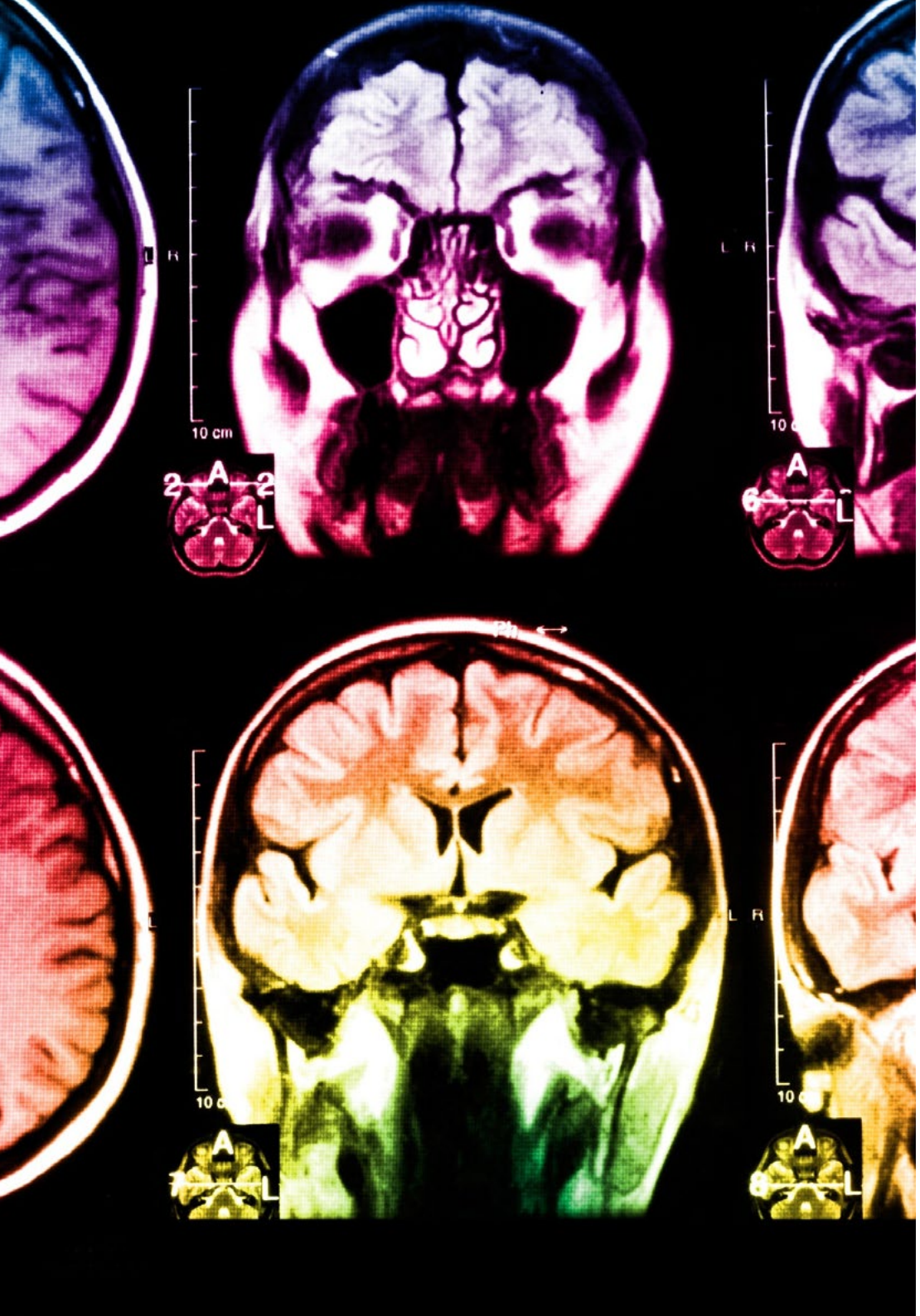
1. Physiotherapists/kinesiologists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the physiotherapist/kinesiologist to better integrate 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.

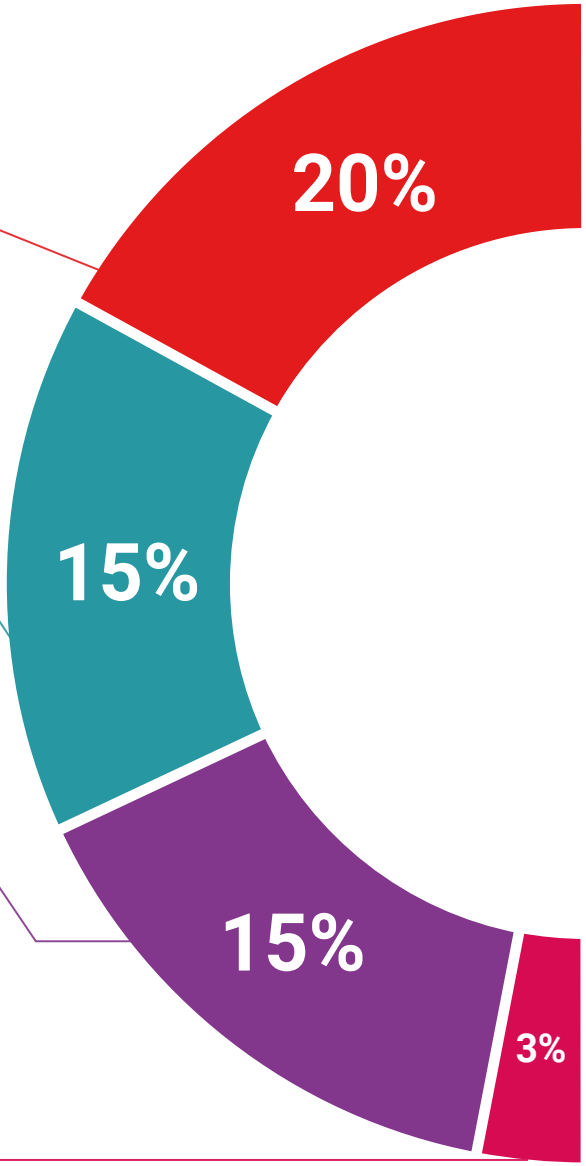
Interactive Summaries

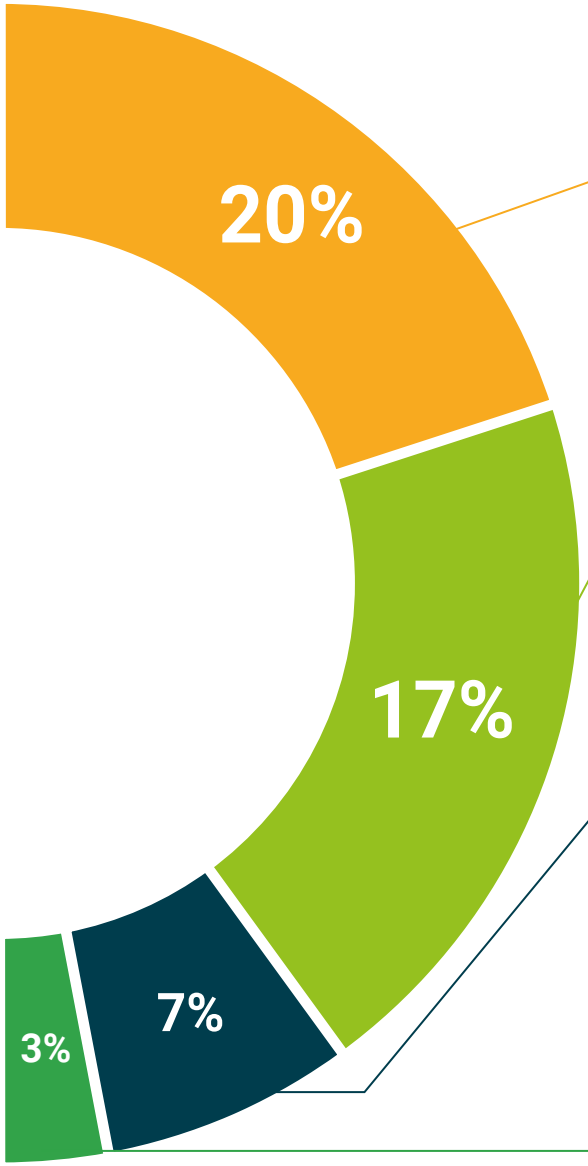
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 Shoulder Ultrasound in Physiotherapy guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This **Postgraduate Certificate in Shoulder Ultrasound in Physiotherapy** contains the most complete and up-to-date scientific 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 reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Shoulder Ultrasound in Physiotherapy**

Official Nº of Hours: **100 h.**


tech technological university

Awards the following

CERTIFICATE

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Shoulder Ultrasound in Physiotherapy

This is a qualification awarded by this University, equivalent to 100 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.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

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

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