Postgraduate Diploma

Thoracic and Vascular Ultrasound

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Postgraduate Diploma

Thoracic and Vascular Ultrasound

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

Website: www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-thoracic-vascular-ultrasound

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01

Introduction

Thoracic and vascular ultrasound is among the most demanded disciplines in primary care. In recent years, it has become an indispensable tool in the physical examination of patients and for guiding diagnostic and therapeutic interventions.

Due to its growing demand, and with the aim of training physicians in this specialty, the Postgraduate Diploma in Thoracic and Vascular Ultrasound has been created, so that health professionals can update their knowledge in this field and integrate ultrasound into their daily practice.

Expand your knowledge in Thoracic and Vascular Ultrasound through this program, account with the best didactic material and real practical cases"

Thoracicand Vascular Ultrasound Scan are techniques of scanning the body, which allows the detection of any anomaly that requires medical intervention. Thanks to technological advances, their size and price have been reduced, making it easier to incorporate them into dental practices.

Going deeper into these specialties, thoracic ultrasound is very useful in the assessment of diseases of the peripheral lung parenchyma, pleura, chest wall, diaphragm and mediastinum. Among its advantages are the ability to scan in real time and the possibility of performing the scan at the patient's bedside.

On the other hand, vascular ultrasound allows rapid detection of any irregularities in the blood vessels (arteries and veins), as well as in the blood flow, making it easier for the health professional to create an accurate diagnosis of the disease.

Despite the many benefits of the incorporation of the ultrasound scanner in primary care, there are no university teaching offers at Specialist level, which contain the necessary format itinerary for the practice of ultrasound and ultrasound-guided procedures in the field of Primary Care.

With this expert you will have the opportunity to take a teaching program that brings together the most advanced and in-depth knowledge of **Thoracic and Vascular Ultrasound**, where a group of teachers of high scientific rigor and extensive international experience offers you the most complete and updated information on the use of ultrasound as a complement to the physical examination in Primary Care.

It endorses the latest advances in ultrasound with a robust and didactic teaching program, which positions it as a product of the highest scientific rigor at international level, aimed at health professionals. In addition, the program is based on a multidisciplinary approach to its subjects, which allows training and professional development in different areas:

The **Postgraduate Diploma in Thoracic and Vascular Ultrasound** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- Development of numerous clinical cases presented by experts in ultrasound.
- 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.
- New diagnostic-therapeutic developments on evaluation, diagnosis, and intervention in problems or disorders that can be addressed with ultrasound.
- It contains practical exercises where the self-evaluation process can be carried out to improve learning.
- Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- Special emphasis on evidence-based medicine and research methodologies in ultrasound processes.
- Content that is accessible from any fixed or portable device with an Internet connection.
- All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.

Thanks to the Postgraduate Diploma in Thoracic and Vascular Ultrasound you will learn the latest advances in the specialty, to be able to perform a quality medical praxis"

You will have distinguished experts in the field , who will guide and advise you throughout format process"

This program has been designed following the fundamentals of the e-learning methodology, allowing you to assimilate the knowledge more quickly and for a longer period of time.

Update your knowledge on advances in ultrasound diagnostics and incorporate them into your daily medical practice.

Its teaching staff is made up of prestigious and renowned professionals, with extensive experience in healthcare, teaching, and research in various countries, contributing their extensive professional to this Postgraduate Diploma.

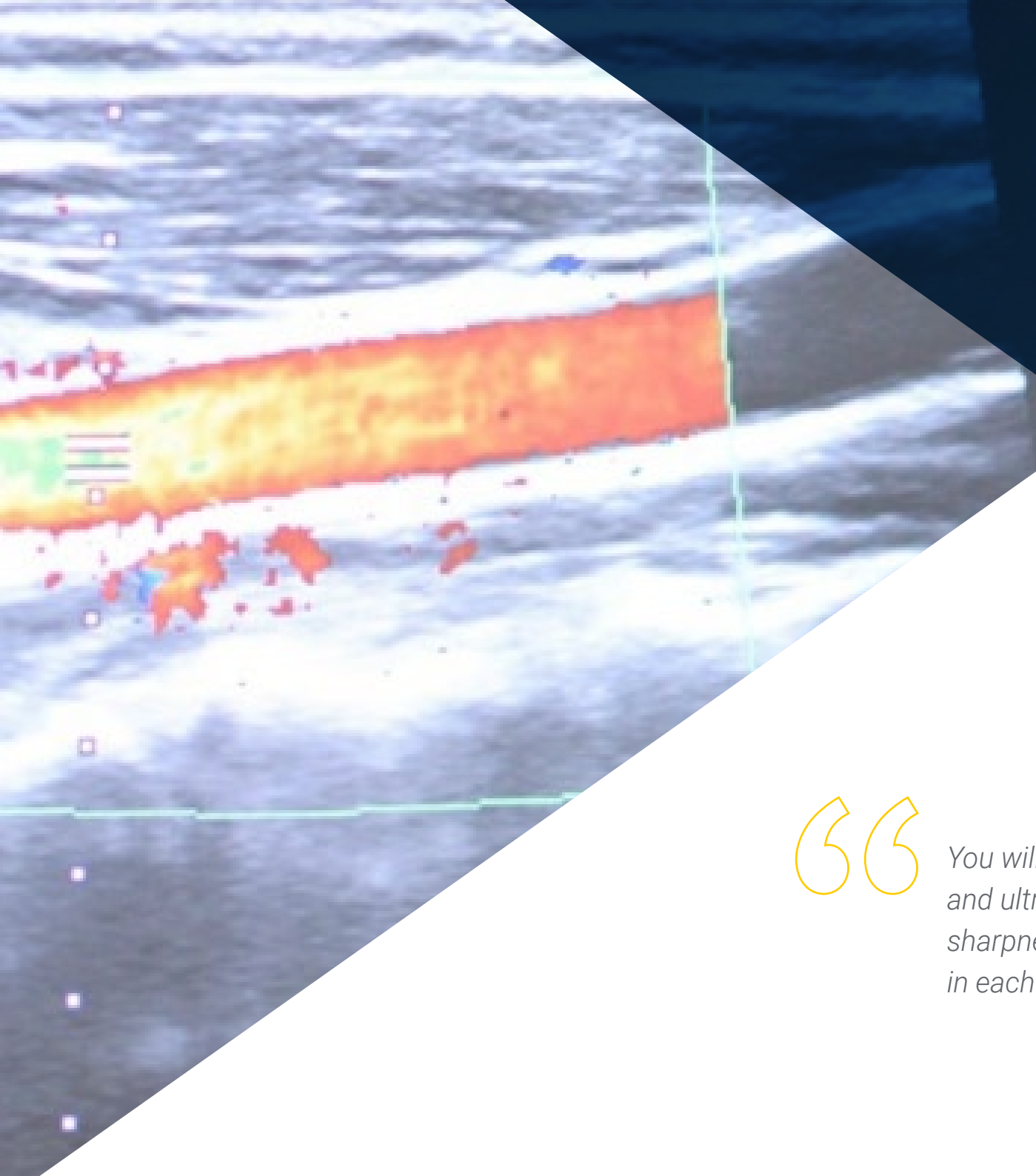
The methodological design of this master's degree, developed by a multidisciplinary team of e-learning experts, integrates the latest advances in educational technology in order to create numerous multimedia tools that allow the professional to solve real-life situations in their daily practice. These will enable you to advance by both acquiring knowledge and developing new skills in your future professional work.

The contents generated for this Postgraduate Diploma, as well as the videos, self-exams, clinical cases, and modular exams, have been thoroughly reviewed, updated, and integrated by the professors and the team of experts that make up the working group, in order to facilitate, in a gradual and educational manner, a learning process that allows the objectives of the teaching program to be achieved.

02

Objectives

The academic journey fosters the development of advanced competencies to conduct thoracic and vascular ultrasound studies with high precision, optimizing clinical reasoning in both critical and outpatient settings. Additionally, it enhances the anatomical-physiological correlation with ultrasound findings, strengthening diagnostic and therapeutic decision-making. This program consolidates communication skills, enabling you to deliver clear, well-supported reports, improving the quality of care and the comprehensive approach to the patient, backed by updated criteria and a rigorously scientific perspective.



You will be capable of integrating clinical and ultrasound criteria with analytical sharpness, enhancing safety and efficacy in each healthcare procedure"

General Objectives

- Integrate Clinical Ultrasound into daily medical practice, enabling faster and more accurate patient assessment in Primary Care
- Develop the ability to interpret real-time ultrasound images, improving decision-making and optimizing diagnosis
- Apply ultrasound as a complementary tool to physical examination, reducing the need for invasive tests and accelerating treatment
- Enhance patient safety by using ultrasound for early detection of pathologies and treatment monitoring
- Acquire skills in identifying anatomical structures and normal and pathological ultrasound patterns in different body systems
- Manage the main ultrasound techniques for common pathologies in Primary Care, such as abdominal, musculoskeletal, cardiovascular, and pulmonary conditions
- Optimize the use of ultrasound in image-guided procedures, facilitating minimally invasive techniques with greater precision
- Promote critical thinking and clinical analysis based on scientific evidence, applying standardized protocols in Clinical Ultrasound
- Train for the integration of ultrasound in managing chronic patients, emergencies, and immediate care situations in outpatient settings
- Enhance the use of technology and new digital tools applied to ultrasound, encouraging continuous updating and innovation in medical practice

Specific Objectives

Module 1. Ultrasound Imaging

- Optimize ultrasound imaging through in-depth knowledge of the physical principles of ultrasound devices, controls and operation
- Master basic and advanced ultrasound procedures, both diagnostic and therapeutic
- Practice all ultrasound modalities in the safest way for the patient
- Understand the indications and limitations of Clinical Ultrasound and its application in the most common clinical situations

Module 2. Clinical Ultrasound of the Head and Neck

- Investigate the correct processes for performing ultrasound on the upper part of the patient's body
- Know the main reasons and diseases that require a brain ultrasound
- Manage the correct postures to properly carry out ultrasound
- Identify and recognize the possible results of the ultrasound sample

Module 3. Thoracic Ultrasound

- Identify respiratory and cardiological problems for which ultrasound examinations are necessary
- Perform the due process of taking examinations for rapid diagnosis of possible thoracic problems
- Identify lung problems in elderly patients through ultrasound
- Identify the risks of myocardial infarction through ultrasound

Module 4. Clinical Vascular Ultrasound in Primary Care

- Identify vascular anatomy and physiology using Doppler ultrasound in the context of Primary Care
- Apply ultrasound in the assessment of common vascular pathologies, such as venous insufficiency, deep vein thrombosis, and peripheral arterial disease
- Interpret ultrasound findings to differentiate between functional and structural alterations of the vascular system
- Develop skills in using ultrasound for the monitoring and follow-up of chronic vascular diseases

Enhance your professional judgment to make therapeutic decisions based on ultrasound findings, even in high-complexity contexts"

03

Course Management

The program's teaching staff includes leading specialists in clinical ultrasound and other related areas, who bring their years of work experience to this training. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.

You will learn the latest Ultrasound Techniques , from distinguished professionals in the sector"

International Guest Director

Dr. Lauren Ann J. Selame is a recognized professional in the field of Medicine, specializing in Clinical Ultrasound. Her expertise focuses on the application of ultrasound in emergency medical, diagnostic imaging, simulation and public health. With a deep interest in procedural competence and in the development of advanced techniques to detect various disorders, she has contributed significantly to the use of Anatomical Ultrasound to improve response times and accuracy in emergency treatments.

Throughout his career, he has played key roles in prestigious institutions. At Brigham Women's Hospital, recognized among the best hospitals in the world by Newsweek magazine, she has been Director of Ultrasound Education in Emergency Medicine, in addition to serving as an emergency physician. Her experience also includes her time at Massachusetts General Hospital as an Emergency Ultrasound Assistant, and at Thomas Jefferson Hospital, where she was a resident in Emergency Medicine, after training at the Sidney Kimmel School of Medicine of Thomas Jefferson University.

At the international level, she is noted for her contributions, especially in Emergency Medicine. She has worked in some of the most prestigious healthcare centers in the United States, which has allowed her to hone her skills and bring significant advances to the medical community. Her work has earned her a reputation for her expertise in diagnostic ultrasound, and she is a reference in the use of this technology in emergencies.

As a researcher associated with university institutions, she has written numerous scientific articles on its emphasis, addressing both its application in critical situations and its advances in medical diagnosis. Her publications are consulted by professionals worldwide, consolidating her role as one of the most influential voices in the field of clinical ultrasound.

Dr. Selame, Lauren Ann J.

- Director of Ultrasound in Emergency Medicine Brigham Women's Hospital, Boston, United States
- Emergency Medicine Physician Specialist at Brigham Women's Hospital
- Emergency Ultrasound Physician Specialist at Massachusetts General Hospital, Massachusetts
- Resident Physician in Emergency Medicine at Thomas Jefferson University Hospital
- Research Assistant at the Perelman School of Medicine, University of Pennsylvania
- M.D., Thomas Jefferson University
- Medical Degree, Sidney Kimmel School of Medicine at the Thomas Jefferson University

Thanks to TECH, you will be able to learn with the best professionals in the world"

Management

Dr. Fumadó Queral, Josep

- Family physician at Els Muntells Primary Care Center (Amposta, Tarragona).
- Graduate in Clinical Ultrasound and Training of Trainers from the University of Montpelier-Nîmes (France).
- Lecturer at the Associació Mediterrània of General Medicine
- Teacher at the Spanish School of Ultrasound of the Spanish Society of General and Family Physicians (SEMG).
- Honorary Member of the Canary Society of Ultrasound (SOCANECO) and Professor of its Annual Symposium.
- Lecturer on the Master's Degree in Clinical Ultrasound for Emergencies and Critical Care at the CEU Cardenal Herrera University.

Dr. Pérez Morales, Luis Miguel

- Family physician at the Primary Care Center of Arucas (Gran Canaria, Canary Islands).
- Diploma in Ultrasound in Primary Care. Univ. Rovira i Virgili. Catalan Institute of Health.
- Expert in Thoracic Ultrasound. University of Barcelona.
- Expert in Abdominal and Musculoskeletal Clinical Ultrasound for Emergency and Critical Care. CEU Cardenal Herrera University.
- President and Professor of the Canary Society of Ultrasound (SOCANECO) and Director of its Annual Symposium.
- Professor on the Master's Degree in Clinical Ultrasound for Emergency and Critical Care at the CEU Cardenal Herrera University.

Scientific Committee

Professor. Dr. Álvarez Fernández, Jesús Andrés

- Specialist in Intensive Care Medicine.
- Intensive Care Medicine and Major Burns Unit. Getafe University Hospital. Getafe, Madrid.
- Head of the Master's Degree in Clinical Ultrasound in Emergency and Critical Care, CEU Cardenal Herrera University.
- Head of the Master's Degree in Clinical Imaging in Emergency and Critical Care, CEU Cardenal Herrera University.
- Teacher in the Specialist Degree in Thoracic Ultrasound at the University of Barcelona.

Dr. Herrera Carcedo, Carmelo

- Family Physician and Head of the Ultrasound Unit at the Briviesca Health Center (Burgos).
- Tutor at the Family and Community Medicine Teaching Unit in Burgos.
- Teacher at the Spanish School of Ultrasound of the Spanish Society of General and Family Physicians (SEMG).
- Member of the Spanish Society of Ultrasound (SEECO) and the Spanish Association of Prenatal Diagnosis (AEDP).

Professor. Dr. Jiménez Díaz, Fernando

- Specialist in Sports Medicine.
- Professor in the Faculty of Sports Sciences at the University of Castilla La Mancha. Toledo.
- Director of the International Chair of Musculoskeletal Ultrasound of the Catholic University of Murcia.
- Teacher on the Master's Degree in Clinical Imaging in Emergency and Critical Care, CEU Cardenal Herrera University.

Dr. Sánchez Sánchez, José Carlos

- Radiodiagnosis Specialist.
- Director of the Integrated Diagnostic Imaging Management Area and Intrahospital Coordinator of the Breast Cancer Early Detection Program. Poniente Hospital. El Ejido, Almería.
- Teacher on the Specialist Degree in Clinical Ultrasound for Family Physicians at the University of Barcelona.

Professors

Dr. Arancibia Zemelman, Germán
- Radiology Department Specialis at Clínica Meds. Santiago de Chile (Chile)

Dr. Argüeso García, Mónica
- Intensive Care Medicine Department. Gran Canaria Maternity Complex. Las Palmas de Gran Canaria (Canary Islands)

Dr. Barceló Galíndez, Juan Pablo
- Specialist in Occupational Medicine and medical sonographer at Mutualia. Bilbao

Dr. Cabrera González, Antonio José
- Family Physician. Tamaraceite Health Center. Las Palmas de Gran Canaria (Canary Islands)

Dr. Corcoll Reixach, Josep
- Family Physician. Tramuntana Health Center (Mallorca, Balearic Islands)

Dr. De Varona Frolov, Serguei
- Angiology and Vascular Surgery Specialist. General University Hospital of Gran Canaria Dr. Negrín. Las Palmas de Gran Canaria (Canary Islands)

Dr. Donaire Hoyas, Daniel
- Specialist in Orthopedic Surgery and Traumatology. Poniente Hospital. El Ejido, Almería

Sr. Fermoso, Antonio Fabián
- Global Clinical Insights Leader Point of Care. General Electric Healthcare. Madrid

Sr. Gálvez Gómez, Francisco Javier
- Ultrasound Portfolio Solutions Manager España. SIEMENS Healthcare. Madrid

Dr. García García, Nicasio
- Family Physician (Schamann Health Center).

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- Specialist in the Intensive Care and Major Burns Unit Getafe University Hospital. Madrid

Dr. Igeño Cano, José Carlos
- Head of the Emergency and Intensive Care Unit. San Juan de Dios Hospital. Córdoba

Dr. León Ledesma, Raquel
- Specialist in General and Digestive System Surgery and Obstetrics and Gynecology. Getafe University Hospital. Madrid

Dr. López Cuenca, Sonia
- Family Physician and Assistant in the Intensive Care and Major Burns Unit at Getafe Hospital (Madrid).

Dr. López Rodríguez, Lucía
- Specialist in the Intensive Care and Major Burns Unit Getafe University Hospital. Madrid

Dr. Martín del Rosario, Francisco Manuel
- Rehabilitation Specialist. Insular University Hospital Complex, Maternity and Infant. Las Palmas de Gran Canaria

Sr. Moreno Valdés, Javier
- Business Manager Ultrasound. Cannon (Toshiba) Medical Systems. Madrid

Dr. Núñez Reiz, Antonio
- Intensive Care Medicine Department Specialist. San Carlos University Hospital. Madrid

Dr. Ortigosa Solorzano, Esperanza
- Specialist in Anesthesiology, Resuscitation, and Pain Management. Getafe University Hospital. Madrid

Dr. Segura Blázquez, José María
- Family Physician. Canalejas Health Center. Las Palmas de Gran Canaria (Canary Islands).

Professor. Dr. Santos Sánchez, José Ángel
- Specialist in the Radiology Department. Salamanca University Hospital. Salamanca

Dr. Wagüemert Pérez, Aurelio
- Specialist in Pulmonology. San Juan de Dios Hospital. Santa Cruz de Tenerife (Canary Islands).

04

Structure and Content

This Postgraduate Diploma offers a rigorous journey through the fundamentals of ultrasound imaging, enhancing the accurate interpretation of findings and the optimal use of the ultrasound machine. Additionally, the focus on thoracic ultrasound will strengthen your ability to identify critical pulmonary abnormalities, while the vascular examination in Primary Care reinforces early diagnosis of thrombosis and facilitates hemodynamic monitoring. This program consolidates advanced competencies, elevating the profile of specialists in making clinical decisions with confidence and comprehensive scientific rigor.

You will acquire an in-depth mastery of ultrasound imaging, perfecting essential diagnostic skills for early screening and timely intervention"

Module 1. Ultrasound Image

1.1. Physical Principles
- 1.1.1. Sound and Ultrasound
- 1.1.2. The Nature of Sound
- 1.1.3. Interaction of Sound with Matter
- 1.1.4. Concept of Ultrasound Imaging
- 1.1.5. Ultrasound Safety

1.2. Ultrasound Sequence
- 1.2.1. Ultrasound Emission
- 1.2.2. Tissue Interaction
- 1.2.3. Echo Formation
- 1.2.4. Ultrasound Reception
- 1.2.5. Ultrasound Image Generation

1.3. Ultrasound Modes
- 1.3.1. A-Mode and M-Mode
- 1.3.2. B-Mode
- 1.3.3. Doppler Modes (Color, Angio, and Spectral)
- 1.3.4. Combined Modes

1.4. Ultrasound Scanners
- 1.4.1. Common Components
- 1.4.2. Classification
- 1.4.3. Transducers

1.5. Ultrasound Maps and Echonavigation
- 1.5.1. Spatial Layout
- 1.5.2. Ultrasound Maps
- 1.5.3. Transducer Movements
- 1.5.4. Practical Advice

1.6. Trends in Ultrasound
- 1.6.1. 3D/4D Ultrasound
- 1.6.2. Sonoelastography
- 1.6.3. Echopotentiation
- 1.6.4. Other Modes and Techniques

Module 2. Clinical Ultrasound of the Head and Neck

2.1. Anatomical Review
- 2.1.1. Cranium and Face
- 2.1.2. Tubular Structures
- 2.1.3. Glandular Structures
- 2.1.4. Vascular Structures

2.2. Ocular Ultrasound
- 2.2.1. Ultrasound Anatomy of the Eye
- 2.2.2. Ocular Ultrasound Technique
- 2.2.3. Indications and Contraindications of Ocular Ultrasonography
- 2.2.4. Ultrasound Report

2.3. Ultrasound of Salivary Glands
- 2.3.1. Regional Sonoanatomy
- 2.3.2. Technical Aspects
- 2.3.3. Most Common Tumor and Non-Tumor Pathologies

2.4. Thyroid Ultrasound
- 2.4.1. Ultrasound Technique
- 2.4.2. Indications
- 2.4.3. Normal and Pathological Thyroid
- 2.4.4. Diffuse Goiter

2.5. Ultrasound Study of Lymphadenopathies
- 2.5.1. Reactive Lymph Nodes
- 2.5.2. Non-Specific Inflammatory Diseases
- 2.5.3. Specific Lymphadenitis (Tuberculosis)
- 2.5.4. Primary Lymph Node Diseases (Sarcoidosis, Hodgkin's Lymphoma, Non-Hodgkin's Lymphoma)
- 2.5.5. Lymph Node Metastases

2.6. Ultrasound of the Supra-Aortic Trunks
- 2.6.1. Sonoanatomy
- 2.6.2. Exploration Protocol
- 2.6.3. Extracranial Carotid Pathology
- 2.6.4. Vertebral Pathology and Subclavian Steal Syndrome

Module 3. Thoracic Ultrasound

3.1. Thoracic Ultrasound Fundamentals
- 3.1.1. Anatomical Review
- 3.1.2. Echoes and Artifacts in the Thorax
- 3.1.3. Technical Requirements
- 3.1.4. Exploration Systematics

3.2. Ultrasound of the Chest Wall, Mediastinum, and Diaphragm
- 3.2.1. Soft Tissues
- 3.2.2. Thoracic Cage
- 3.2.3. Mediastinum
- 3.2.4. Diaphragm

3.3. Pleural Ultrasound
- 3.3.1. Normal Pleura
- 3.3.2. Pleural Effusion
- 3.3.3. Pneumothorax
- 3.3.4. Solid Pleural Pathology

3.4. Pulmonary Ultrasound
- 3.4.1. Pneumonia and Atelectasis
- 3.4.2. Pulmonary Neoplasms
- 3.4.3. Diffuse Lung Disease
- 3.4.4. Pulmonary Infarction

3.5. Cardiac Ultrasound and Basic Hemodynamics
- 3.5.1. Normal Cardiac Sonoanatomy and Hemodynamics
- 3.5.2. Examination Technique
- 3.5.3. Structural Alterations
- 3.5.4. Hemodynamic Alterations

3.6. Trends in Thoracic Ultrasound
- 3.6.1. Pulmonary Sonoelastography
- 3.6.2. 3D/4D Thoracic Ultrasound
- 3.6.3. Other Modes and Techniques

Module 4. Clinical Vascular Ultrasound in Primary Care

4.1. Vascular Ultrasound
- 4.1.1. Description and Applications
- 4.1.2. Technical Requirements
- 4.1.3. Procedure
- 4.1.4. Interpretation of Results. Risks and Benefits
- 4.1.5. Limitations

4.2. Doppler
- 4.2.1. Fundamentals
- 4.2.2. Applications of SOFCs
- 4.2.3. Types of Eco-Doppler
- 4.2.4. Color Doppler
- 4.2.5. Power Doppler
- 4.2.6. Dynamic Doppler

4.3. Normal Ultrasound of the Venous System
- 4.3.1. Anatomy Recap: Venous System of the Upper Extremities
- 4.3.2. Anatomy Recap: Venous System of the Lower Extremities
- 4.3.3. Normal Physiology
- 4.3.4. Regions of Interest
- 4.3.5. Functional Tests
- 4.3.6. Report. Vocabulary

4.4. Chronic Venous Disease of the Lower Limbs
- 4.4.1. Definition
- 4.4.2. CEAP Classification
- 4.4.3. Morphological Criteria
- 4.4.4. Examination Technique
- 4.4.5. Diagnostic Manoeuvres
- 4.4.6. Sample Report

4.5. Acute/Subacute Venous Thrombosis of the Upper Limbs
- 4.5.1. Anatomical Review
- 4.5.2. Manifestations of Venous Thrombosis of the Upper Limbs
- 4.5.3. Ultrasound Characteristics
- 4.5.4. Examination Technique
- 4.5.5. Diagnostic Manoeuvres
- 4.5.6. Technical Limitations

4.6. Acute/Subacute Venous Thrombosis of the Lower Limbs
- 4.6.1. Description
- 4.6.2. Manifestations of f Venous Thrombosis of the Lower Limbs
- 4.6.3. Ultrasound Characteristics
- 4.6.4. Examination Technique
- 4.6.5. Differential Diagnosis
- 4.6.6. Vascular Report

Explore a syllabus that enhances technical precision and strengthens your ability to correlate ultrasound findings with real clinical scenarios"

05

Methodology

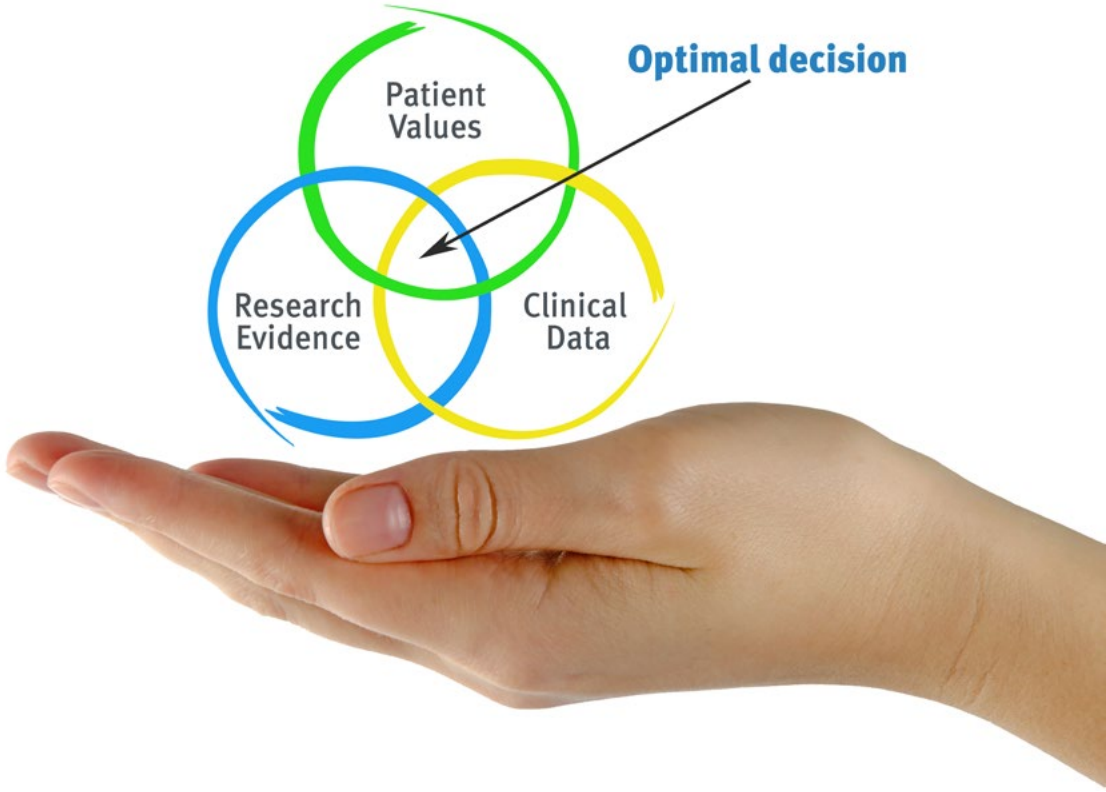
This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.
This teaching system is used in the most prestigious medical schools in the world, and major publications such as the ***New England Journal of Medicine*** have considered 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 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 professional medical 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:

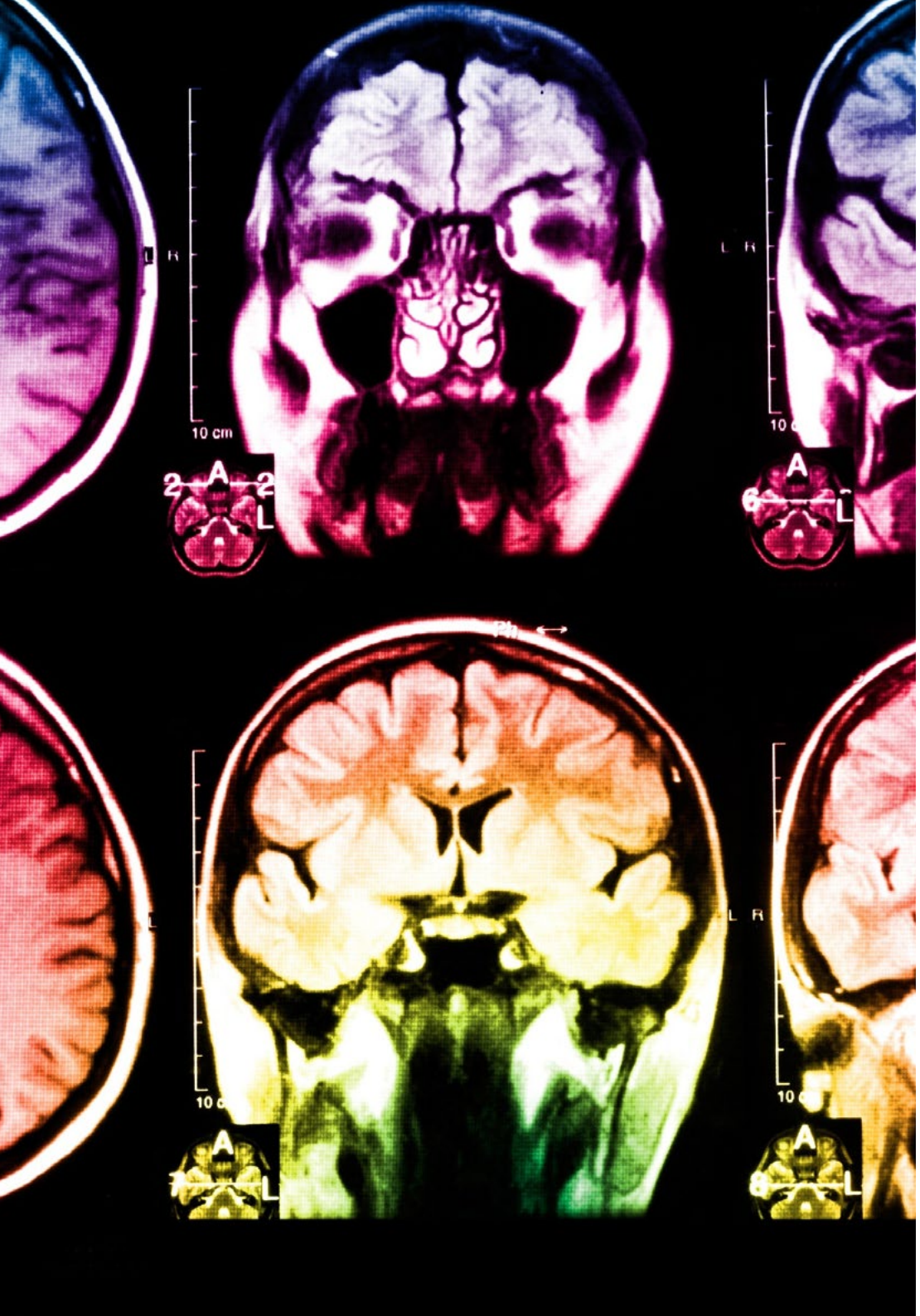
1. Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts 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-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 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 socio-economic 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 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 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.

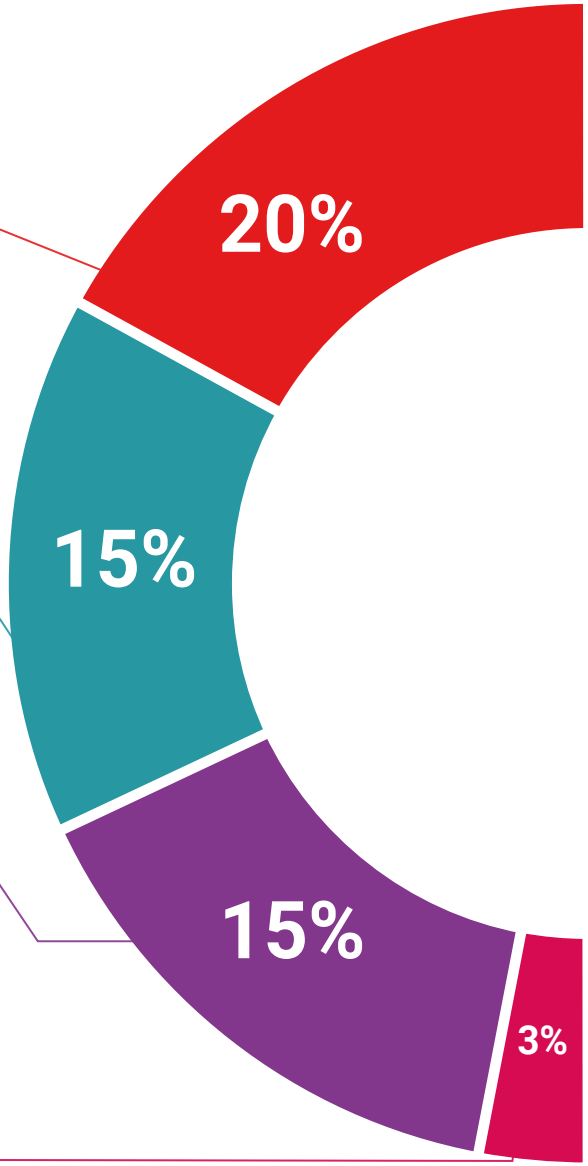
Interactive Summaries

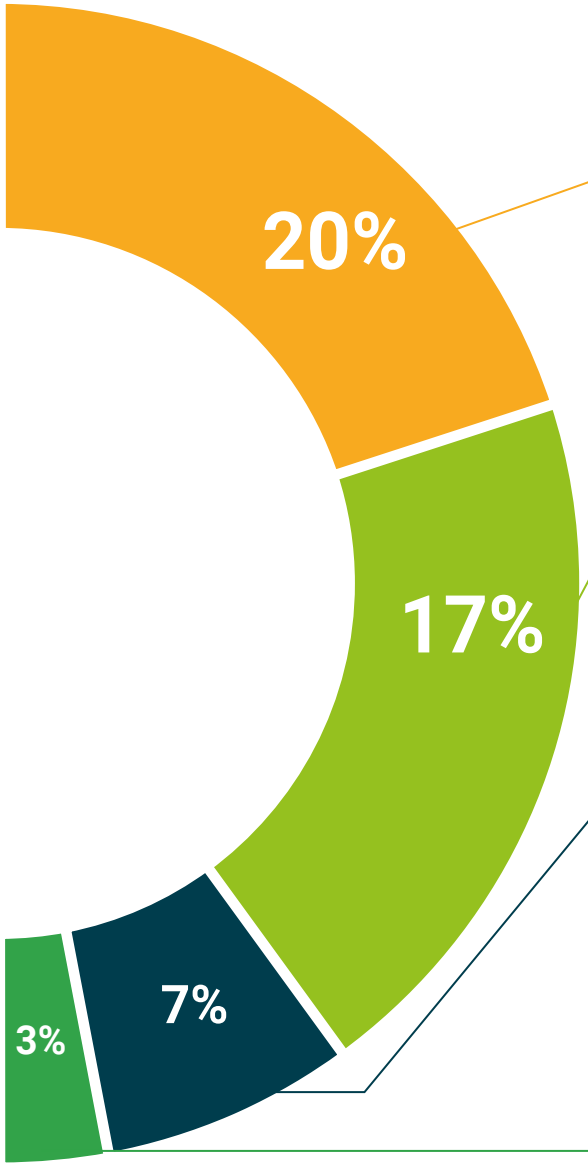
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system 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

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert 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 experts 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.

06

Certificate

The **Postgraduate Diploma in Thoracic and Vascular Ultrasound** guarantees, in addition to the most rigorous and updated training, access to a Postgraduate Diploma degree issued by **TECH Global University.**

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 Thoracic and Vascular Ultrasound** 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.

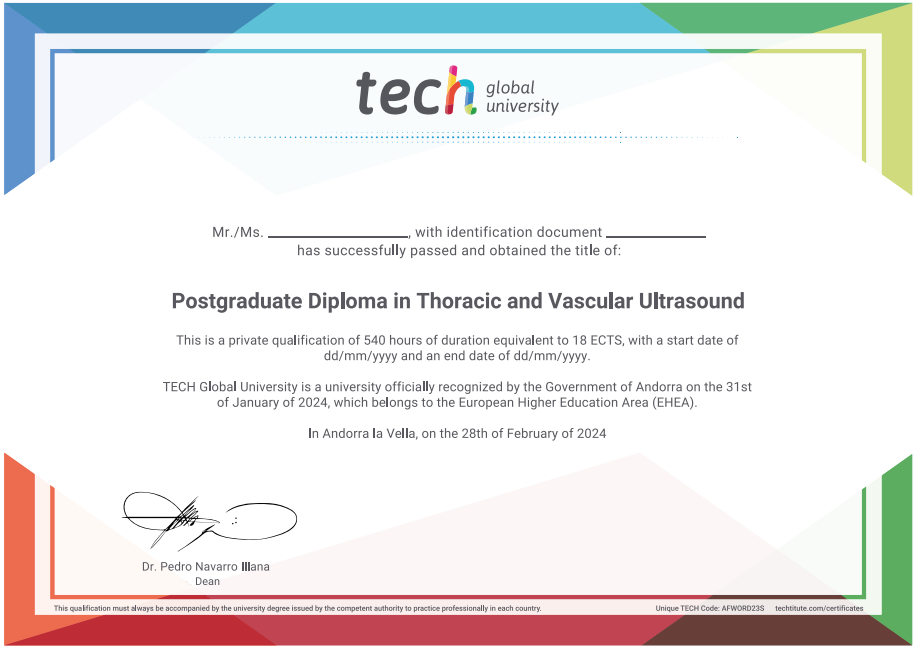
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Thoracic and Vascular Ultrasound**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**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Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Postgraduate Diploma in Thoracic and Vascular Ultrasound

This is a private qualification of 540 hours of duration equivalent to 18 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
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 diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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Postgraduate Diploma

Thoracic and Vascular Ultrasound

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

Postgraduate Diploma

Thoracic and Vascular Ultrasound

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