



Other Uses of Clinical Ultrasound in Primary Care for Nursing

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Accreditation: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nursing/postgraduate-certificate/other-uses-clinical-ultrasound-primary-care-nursing

Index

02 Introduction to the Program Why Study at TECH? p. 4 p. 8 05 03 Syllabus **Teaching Objectives** Study Methodology p. 16 p. 12 p. 20 06 **Teaching Staff** Certificate p. 30 p. 36





tech 06 | Introduction to the Program

A recent study conducted by the World Health Organization highlights that more than 70% of European health centers already integrate ultrasound as a first-line diagnostic tool. In this regard, an increasing number of healthcare institutions are demanding the incorporation of highly trained nurses in the use of Clinical Ultrasound in Primary Care for tasks such as monitoring Chronic Pathologies, evaluating musculoskeletal complications, and non-invasive control of internal vital signs. This tool allows for optimized real-time clinical decision-making, reduced diagnostic wait times, and a significant increase in healthcare efficiency. Therefore, professionals need to acquire a competitive edge that sets them apart from other candidates

With this in mind, TECH Global University offers an exclusive Postgraduate Certificate in Other Uses of Clinical Ultrasound in Primary Care for Nursing. Designed by renowned experts, this academic pathway will delve into aspects ranging from the technical requirements for handling ultrasound devices and the basics of anatomical recall to performing ultrasound scans. In line with this, the curriculum will cover the key strategies for using ultrasound equipment to monitor prevalent conditions in real time, such as Gallstones, Cardiomyopathy, and even Inflammatory Skin Diseases. Additionally, the educational content will provide numerous strategies for producing detailed ultrasound reports to actively contribute to evidence-based clinical decision-making. In this way, graduates will develop advanced competencies to apply Clinical Ultrasound in a variety of healthcare settings to provide more personalized care to individuals.

Regarding methodology, this academic option relies on the disruptive Relearning system to promote a natural, progressive knowledge update. Furthermore, nurses will only need a device with internet access to enter the Virtual Campus.

To conclude, a distinguished International Guest Director will deliver one comprehensive Masterclass.

This **Postgraduate Certificate in Other Uses of Clinical Ultrasound in Primary Care for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical cases presented by experts in Other Uses of Clinical Ultrasound in Primary Care
- 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 the self-assessment process can be carried out 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



A distinguished International Guest Director will deliver one exclusive Masterclass to delve deeper into the Uses of Clinical Ultrasound in Primary Care"

Introduction to the Program | 07 tech

66

You will acquire advanced skills to effectively assess soft tissues, Edemas, and collections using ultrasound"

The teaching staff includes professionals from the field of Clinical Ultrasound in Primary Care, who share the experience of their work in this program, alongside renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive learning experience designed to prepare for real-life situations.

This program is designed around Problem-Based Learning, whereby the student must try to solve the different professional practice situations that arise throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

You will ensure safe practice through the application of standardized ultrasound protocols based on scientific evidence.

With the Relearning system from TECH Global University, you will not have to invest excessive hours of study, allowing you to focus on the most relevant concepts.







tech 10 | Why Study at TECH?

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.









World's
No.1
The World's largest
online university

The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.









0

Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.

The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.

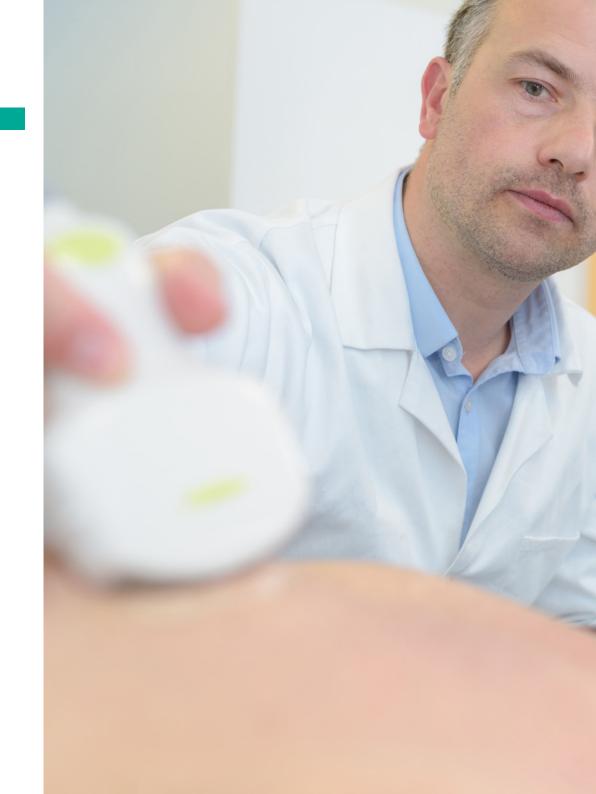


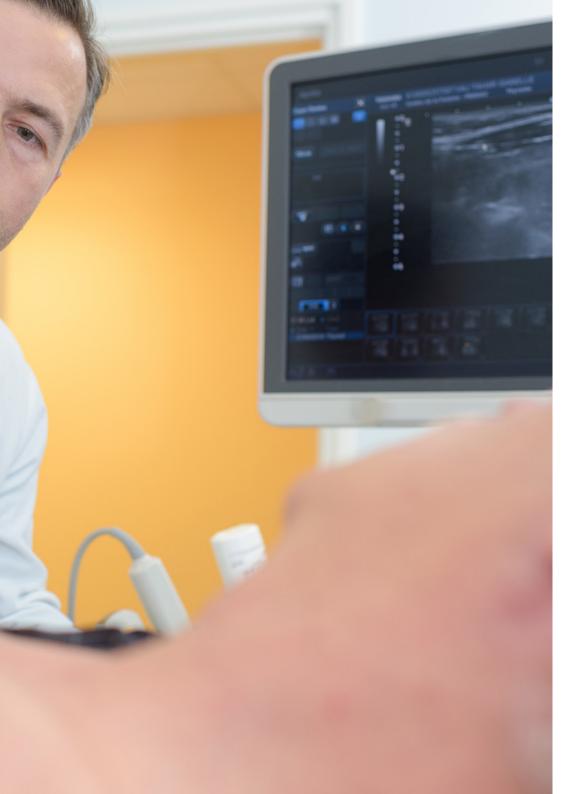


tech 14 | Syllabus

Module 1. Other Uses of Clinical Ultrasound

- 1.1. Radial Breast Ultrasound
 - 1.1.1. Anatomical Review
 - 1.1.2. Technical Requirements
 - 1.1.3. Ultrasound Slices
 - 1.1.4. Ultrasound Characteristics. Breast Disorders
 - 1.1.5. Breast Elastography
- 1.2. Dermatological Ultrasound
 - 1.2.1. Ultrasound Anatomy of the Skin and Appendages
 - 1.2.2. Ultrasound of Cutaneous Tumors
 - 1.2.3. Ultrasound of Inflammatory Skin Diseases
 - 1.2.4. Ultrasound in Dermo-Aesthetics and its Complications
- 1.3. Ultrasound in Diabetes
 - 1.3.1. Atherosclerosis in the Aorta/Carotid Arteries of Diabetic Patients
 - 1.3.2. Parenchymal Echogenicity in Diabetic Patients
 - 1.3.3. Gallstones in Diabetic Patients
 - 1.3.4. Neurogenic Bladder in Diabetic Patients
 - 1.3.5. Cardiomyopathy in Diabetic Patients
- 1.4. Ultrasound Report
 - 1.4.1. The Ultrasound Note
 - 1.4.2. The Ultrasound Referral
 - 1.4.3. The Ultrasound Report in Primary Care
- 1.5. Safety in Ultrasound during the COVID-19 Era







The interactive summaries of each topic will allow you to more dynamically consolidate the concepts related to the particularities of Ultrasound in Cutaneous Tumors"



tech 18 | Teaching Objectives



General Objectives

- Acquire the necessary knowledge in the use of ultrasound for handling common situations in nursing practice
- Apply the skills acquired in the performance of the duties of a specialist in Ultrasound
- Incorporate the latest clinical advancements into the daily tasks of the Nursing professional
- Understand the indications and limitations of Clinical Ultrasound and its application in the most common clinical situations







Specific Objectives

- Explore new applications of Ultrasound in evaluating Dermatological, Endocrine, and Ophthalmologic Pathologies
- Analyze the use of Ultrasound in assessing the musculoskeletal system for common pathologies in Primary Care
- Evaluate the potential of Pulmonary Ultrasound in diagnosing Infections, inflammatory processes, and Chronic Respiratory Diseases
- Expand knowledge on the use of Ultrasound in unconventional settings, such as sports medicine or home care



An online qualification that is not bound by rigid schedules and allows you to personalize your studies according to your needs and interests. What are you waiting for to enroll?"







The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.







The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.



TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"

tech 24 | Study Methodology

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

Relearning 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.



tech 26 | Study Methodology

A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

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

- 1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
- 2. Learning is solidly translated into 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.

Study Methodology | 27 tech

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

As such, the best educational materials, thoroughly prepared, will be available in this program:



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.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



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 exclusive educational 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 education.

Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

Testing & Retesting



We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

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 for future difficult decisions.

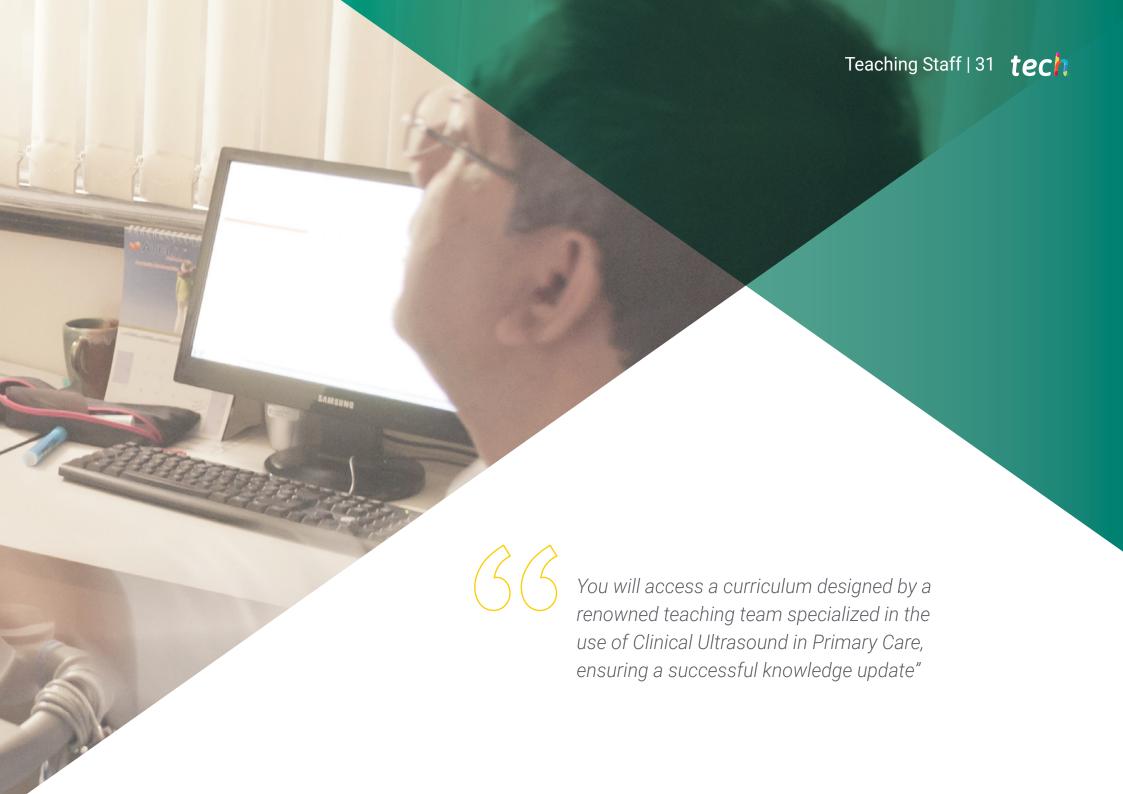
Quick Action Guides



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.







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 at 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 the Primary Care Center of Els Muntells
- · Head of the Emergency Ultrasound Group of the Spanish Society of General and Family Physicians (SEMG)
- Graduate in Clinical Ultrasound and Training of Trainers from the University of Montpelier
- 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
- Professor on the Master's Degree in Clinical Ultrasound for Emergencies and Critical Care at the CEU Cardenal Herrera University



Dr. Pérez Morales, Luis Miguel

- Primary Care Physician in the Canarian Health Service
- Family physician at the Primary Care Center of Arucas (Gran Canaria, Canary Islands)
- 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
- Expert in Thoracic Ultrasound by the University of Barcelona
- Expert in Clinical Abdominal and Musculoskeletal Ultrasound for Emergencies and Critical Care by the University CEU Cardenal Herrera
- Diploma of the Curs d'Ecografia en Atenció Primària by the University Rovira i Virgili from the Institut Catalá de la Salut



Teachers

Dr. Barceló Galíndez, Juan Pablo

- Medical Director at Bridgestone Hispania, S.A., Bilbao
- Ultrasound Service in Mutualia Ercilla Clinic
- Medical Specialist in Occupational Medicine

Dr. Álvarez Fernández, Jesús Andrés

- Head Physician at the Juaneda Miramar Hospital
- Specialist in Intensive Care Medicine and Burn Patient Management at the University Hospital of Getafe
- Associate Researcher in the area of Neurochemistry and Neuroimaging at the University of La Laguna

Dr. Corcoll Reixach, Josep

- Coordinator Responsible for Clinical Ultrasound for the Medical Directorate of the Primary Care Management of Mallorca
- Former Director General of Planning and Financing at the Ministry of Health of the Balearic Islands
- Family Doctor at the Tramuntana Health Center.
- Master's Degree in Management and Administration from the National School of Health of the Carlos III Health Institute.
- Diploma in Pulmonary Ultrasound in Disease by COVID-19
- Member of the Spanish Society of Family and Community Medicine.





tech 38 | Certificate

This private qualification will allow you to obtain a diploma for the **Postgraduate** Certificate in Other Uses of Clinical Ultrasound in Primary Care for Nursing 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 Certificate in Other Uses of Clinical Ultrasound in Primary Care for Nursing

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS





Postgraduate Certificate Other Uses of Clinical Ultrasound in Primary Care for Nursing

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

