

# Postgraduate Certificate Fetal Neurosonography



## Postgraduate Certificate Fetal Neurosonography

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

Website: [www.techtitute.com/us/medicine/postgraduate-certificate/fetal-neurosonography](http://www.techtitute.com/us/medicine/postgraduate-certificate/fetal-neurosonography)

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# 01

# Introduction

The area of Fetal Neurosonography has presented important advances and challenges in recent years. Specialists who wish to update their knowledge in this specialty can access this academic program that addresses in detail the most common conditions of the fetal nervous system, including anomalies of the ventricular system and midline, vascular malformations and neural tube lesions. Additionally, this program is offered in a 100% online format, allowing the pace of study to be adapted to the personal and professional needs of each student, which is a great advantage in terms of flexibility and accessibility.



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*Enroll in this Postgraduate Certificate in Fetal Neurosonography and update your prenatal diagnostic skills with the most advanced techniques”*

Fetal neurosonography is an area in constant evolution, and its importance in the detection and diagnosis of fetal brain pathologies is fundamental. In this sense, the incorporation of new techniques and tools, as well as the continuous updating of knowledge, are essential in order to offer the continuous updating of knowledge, are essential to offer accurate diagnosis and quality care.

In this context, the Course in Fetal Neurosonography, a program that seeks to provide medical professionals and specialists with the most updated knowledge on the systematics of fetal neurosonographic studies and the different anomalies that can be detected in the fetus.

The program is designed to address in a detailed and rigorous manner the different pathologies that can occur in the ventricular system, midline, cerebellum and posterior fossa, as well as vascular malformations, space occupying lesions, cortical development anomalies, destructive lesions of the CNS, neural tube lesions and the most common infections.

Additionally, the program is presented in a 100% online format, which is a great advantage for professionals interested in updating their knowledge in this field. Thanks to this modality, participants can access the content from anywhere, at any time and with total flexibility, allowing them to combine their studies with their work and personal activity.

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

- ◆ The development of case studies presented by experts in Fetal in Medicine
- ◆ 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 for experts, discussion forums on controversial issues and individual reflection work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*TECH's 100% online methodology will allow you to study without interrupting your professional work"*

“*Deepen, throughout 180 hours of intensive learning, in the latest advances in the detection of Hydrocephalus or Dural Sinus Thrombosis*”

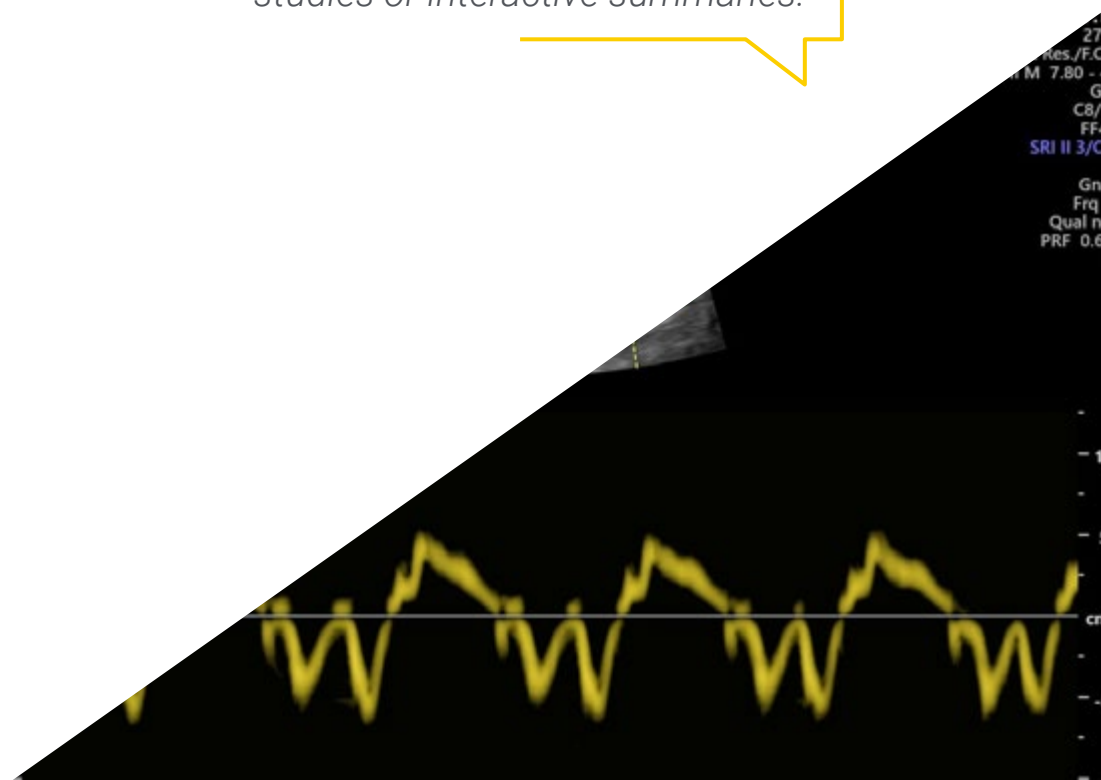
*Fetal Medicine has undergone numerous changes in recent years. Enroll and get up to date immediately with TECH.*

*Get up to date through numerous multimedia resources of great pedagogical rigor such as case studies or interactive summaries.*

The program includes in its teaching staff professionals of the sector who pour into this training the experience of their work, as well as renowned specialists from reference societies and prestigious universities.

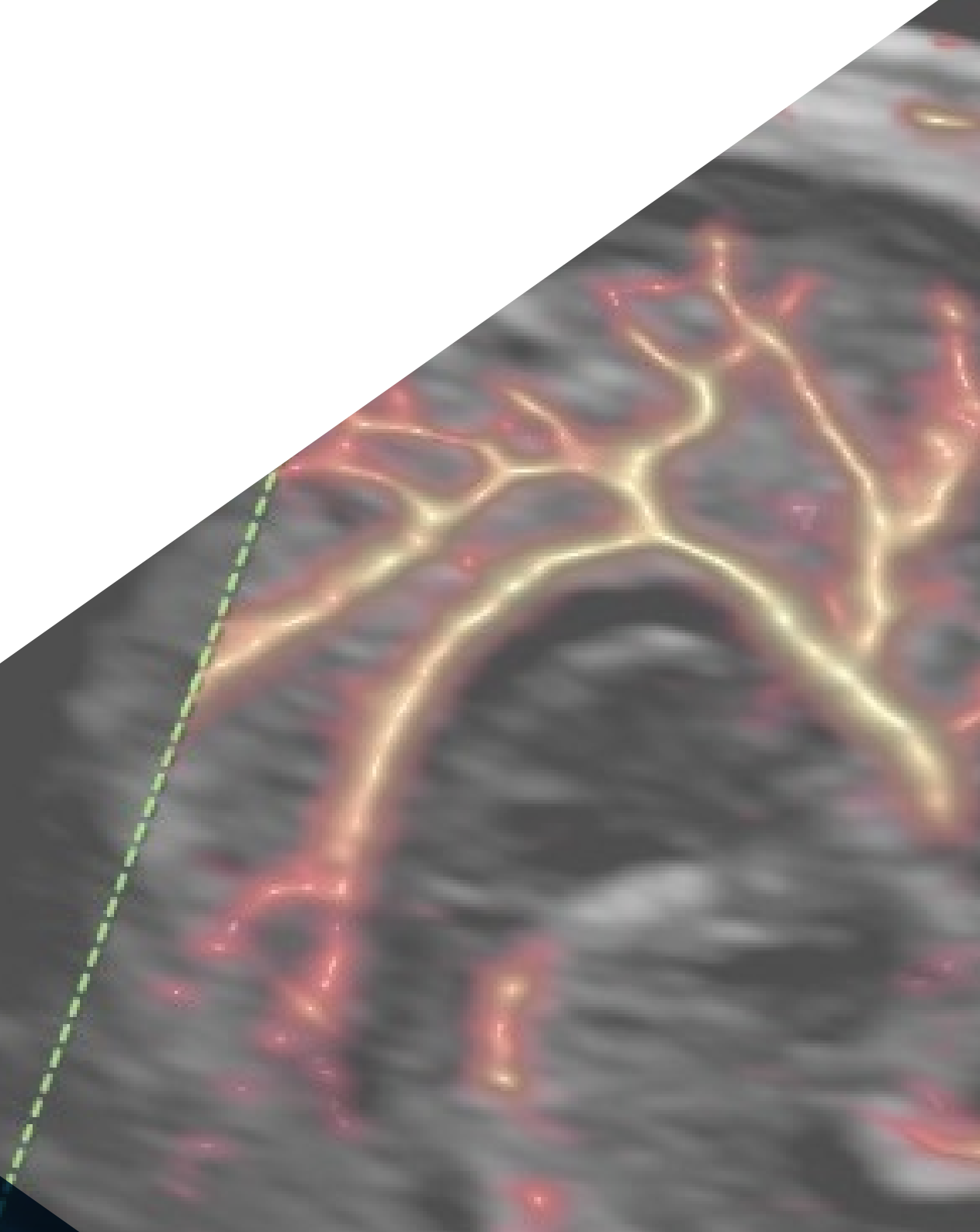
Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

The design of this program focuses on Problem-Based Learning, in which the professional will have to try to solve the different professional practice situations that will arise throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.



# 02 Objectives

The objective of the Postgraduate Certificate in Fetal Neurosonography is to provide medical professionals and specialists an updated and detailed preparation in the main anomalies of the fetal nervous system. Through its syllabus, the program addresses from the most common anomalies of the ventricular system and midline, to vascular malformations and neural tube lesions. At the end of the program, students will be able to apply the knowledge acquired in their daily clinical practice, therefore updating their clinical techniques.





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*Achieve your professional goals by  
keeping up to date with the latest  
advances in Fetal Neurosonography”*



## General Objectives

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- ♦ Provide a specific update that allows physicians to update their skills to exercise and lead the functions as specialists in the area of Fetal Medicine and Prenatal Diagnosis
- ♦ Update theoretical knowledge in the different fields of Fetal Medicine: basic and advanced obstetric ultrasound, prenatal diagnosis, maternal-fetal pathologies and placental pathologies
- ♦ Link the improvement of their medical practice with scientific so that they can contribute to change and progress in their clinical environment through the application of the most innovative and effective guidelines and strategies in the field





## Specific Objectives

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- ◆ Update the graduate's knowledge in the systematic study of the fetal central nervous system
- ◆ Identify the main anomalies based on the latest scientific advances



*Enroll now and master the most advanced neurosonographic techniques"*

# 03

## Course Management

In this program, students will be able to update their knowledge with a highly specialized teaching staff in the subject. Among the professionals who will teach the classes are experts in fetal neurosonography and neuroradiology, as well as renowned obstetricians and gynecologists. Thanks to their extensive experience and up-to-date knowledge, the teaching staff will guide enrolled professionals through a complete and detailed program that covers from the most common anomalies of the fetal nervous system to the most complex neural tube lesions and fetal infections.





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*A teaching staff of great prestige in the field of Fetal Medicine will accompany you throughout the academic itinerary, guaranteeing a first class academic experience"*

## Management



### Dr. Gallardo Arozena, Margarita

- ◆ FEA in Obstetrics and Gynecology at HU Nuestra Señora of Candelaria
- ◆ Founder and Medical Director of Natum Center - Ultrasound and Fetal Medicine
- ◆ Doctor in Health Sciences, University of La Laguna
- ◆ Master's Degree in Refresher for Gynecologists and Obstetricians from the University of Barcelona
- ◆ Master's Degree in Healthcare Management in Gynecology and Obstetrics from the Francisco de Vitoria University
- ◆ Postgraduate Certificate in Fetal Medicine and Surgery from the Fetal Medicine Foundation (King's College Hospital, London). Invasive techniques and intrauterine fetal therapy at San Cecilio Granada University Hospital
- ◆ Postgraduate Certificate Training in obstetric-gynecological ultrasound by the Spanish Society of Gynecology and Obstetrics (SEGO)
- ◆ Researcher and Author of scientific articles published in high-impact journals
- ◆ Member of the Prenatal Diagnosis Unit at the Human Reproduction Assistance Center of the Canary Islands (FIVAP)

## Professors

### Dr. Azumendi Gómez, Pedro

- ◆ FEA in the Gynecology and Obstetrics Service of the Regional University Hospital of Malaga
- ◆ Doctor Specialist in Obstetrics and Gynecology at Gutenberg Center of Malaga
- ◆ University Experts in Professional Updating for Gynecologists, Uterine Pathology in
- ◆ Menopause and Reproduction, Ultrasound Diagnosis of Endometrial and Uterine Pathology
- ◆ Gynecologic Exploration and Mammary and Vulvar Pathology, Medical Genetics
- ◆ Author of scientific publications in high impact journals and participation in several book chapters

### Dr. García Rodríguez, Raquel

- ◆ Doctor Specialist in Obstetrics and Gynecology at HU Nuestra Señora of Canary
- ◆ Expert level in Obstetric-Gynecologic Ultrasound by SESEGO
- ◆ Author of scientific publications in high impact journals and participation in several book chapters
- ◆ Reviewer of articles in international journals on Gynecology and Obstetrics
- ◆ Speaker at national and international congresses and courses related to Prenatal Diagnosis
- ◆ Accredited by the Fetal Medicine Foundation to perform first trimester and second trimester screening, echocardiography and fetal Doppler

**Dr. Plasencia Acevedo, Walter**

- ◆ Doctor Specialist in Obstetrics and Gynecology at HU of Canary
- ◆ Specialised doctor of the Fetal Medicine Unit of Canary Hospiten Group
- ◆ Doctor in Medicine and Surgery from the University of La Laguna
- ◆ Subspecialization in Fetal Medicine and Surgery at the King's College University Hospital in London
- ◆ Supervisor of more than 3,000 ultrasound studies per year
- ◆ Author of over 50 scientific publications in international high-impact journals
- ◆ Director of several lines of research in national and international projects
- ◆ on fetal anomalies, placental anomalies, preeclampsia, preterm labor and delivery and fetal and maternal complications during gestation
- ◆ Regular reviewer of articles in multiple international and national journals in his specialty

**Dr. Pérez de la Rosa, Beatriz**

- ◆ FEA in Obstetrics and Gynecology at the University Hospital of the Canary Islands in the Prenatal Diagnosis Unit
- ◆ Medical Specialist in Obstetrics and Gynecology at the Martinez Wallin Clinic at the Taco Medical Center and Demamedicin Clinic
- ◆ Contributor to various courses and workshops as well as speaker at conferences and author of book chapters related to the specialty
- ◆ Master's Degree in Gynecologic Oncology by CEU Cardenal Herrera University
- ◆ Postgraduate Diploma in: Vulvar cancer, Cervical cancer, Endometrial cancer, Uterine sarcoma, Ovarian cancer and rare gynecological tumors

**Dr. Hernández Suárez, Mercedes**

- ◆ Doctor Specialist in Obstetrics and Gynecology at HU of Canary
- ◆ Ph.D in Health Sciences (Maternal and Child and Adolescent Health), University of La Laguna
- ◆ Master's Degree in Refresher for Gynecologists and Obstetricians from the University of Barcelona
- ◆ University experts in Obstetric Diagnosis and Pathology, Uterine Pathology
- ◆ Menopause and Reproduction, Gynecological Exploration and Mammary and Vulvar Pathology
- ◆ Participation as author in papers presented at conferences and courses related to the specialty

**Dr. De Ganzo Suárez, Tania del Carmen**

- ◆ Specialist in Obstetrics and Gynecology at the University Hospital Nuestra Señora de Candelaria
- ◆ Medical Specialist in Obstetrics and Gynecology at the University Hospital Nuestra Señora de Candelaria
- ◆ Specialist Physician at the Fetal Medicine Unit of the Hospiten Tenerife Group
- ◆ Graduated in Fetal Medicine and Surgery from the Fetal Medicine Foundation, King's College Hospital, London
- ◆ Invasive Techniques and Intrauterine Fetal Therapy at the University Hospital San Cecilio, Granada
- ◆ Training Diploma in Obstetric-Gynecological Ultrasound by the Spanish Society of Gynecology and Obstetrics (SEGO)
- ◆ Researcher and Author of scientific articles published in high impact journals

04

# Structure and Content

The syllabus of the Postgraduate Certificate in Fetal Neurosonography is complete and detailed, covering from the systematics of fetal neurosonographic study to fetal infections. The participants of the program will be able to acquire updated knowledge on the most common anomalies of the fetal nervous system, including anomalies of the ventricular system, midline, cerebellum and posterior fossa, vascular malformations and space occupying lesions. Additionally, destructive CNS lesions, neural tube lesions, and infections, including CMV and infections, including CMV, toxoplasmosis, Zika, herpes and lupus.



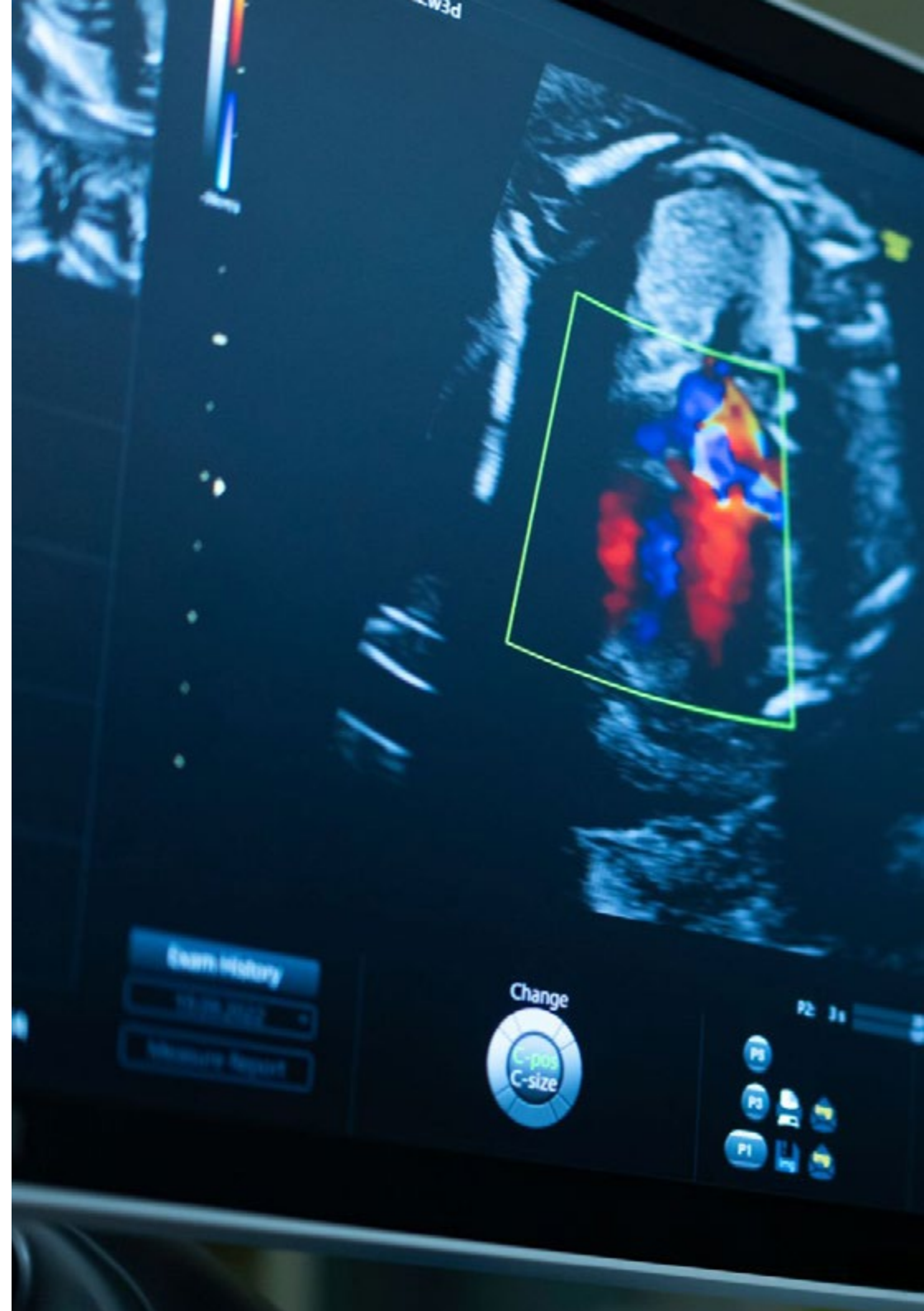


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*This syllabus will allow you to delve into the latest advances in the approach to ventricular system and cerebellar anomalies in a 100% online format"*

## Module 1. Fetal Neurosonography

- 1.1. Systematic of the Fetal Neurosonographic Study
- 1.2. Abnormalities of the Ventricular System
  - 1.2.1. Ventriculomegaly
  - 1.2.2. Hydrocephalus
- 1.3. Midline Abnormalities
  - 1.3.1. Holoprosencephaly
  - 1.3.2. CC Agenesis
  - 1.3.3. CSP Agenesis
  - 1.3.4. Interhemispheric Lesions (cysts, solid, vascular, etc.)
- 1.4. Anomalies of the Cerebellum and Posterior Fossa.
  - 1.4.1. Blake's Cyst
  - 1.4.2. Megacisterna Magna
  - 1.4.3. Dandy Walker Complex or Cerebellar Vermis Anomalies.
  - 1.4.4. Cerebellar Hypoplasia
- 1.5. Vascular Malformations
  - 1.5.1. Vein of Galen Aneurysm
  - 1.5.2. Dural Sinus Thrombosis
- 1.6. Space Occupying Abnormalities
  - 1.6.1. Intracranial Cystic Lesions
  - 1.6.2. Tumours
- 1.7. Cortical Development Anomalies
  - 1.7.1. Proliferation: Hemimegalencephaly, Sclerosing Tuberosis.
  - 1.7.2. Migration: Heterotopias, Lissencephaly
  - 1.7.3. Organization: Polymicrogyria, Schizencephaly
- 1.8. Destructive Lesions of the CNS
  - 1.8.1. Hypoxic-Ischemic
  - 1.8.2. Intracranial Hemorrhages
- 1.9. Neural Tube Lesions
- 1.10. Infections
  - 1.10.1. CMV
  - 1.10.2. Toxoplasmosis
  - 1.10.3. Zika
  - 1.10.4. Herpes
  - 1.10.5. Lues



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*Study through real clinical cases and technical videos of neurosonographic procedures and techniques”*

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.



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*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. Specialists 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. Gervas, 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 in the physician's professional practice.

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*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 achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate 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.



## 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.

*Professionals will learn through real cases and by resolving 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, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 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 (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's 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 highly 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.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. 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 the videos as many times as you like.



#### 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 exclusive educational system for presenting multimedia content 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 Fetal Neurosonography guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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

This program will allow you to obtain your **Postgraduate Certificate in Fetal Neurosonography** 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** title 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 Fetal Neurosonography**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



\*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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present quality  
development languages  
virtual classroom



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