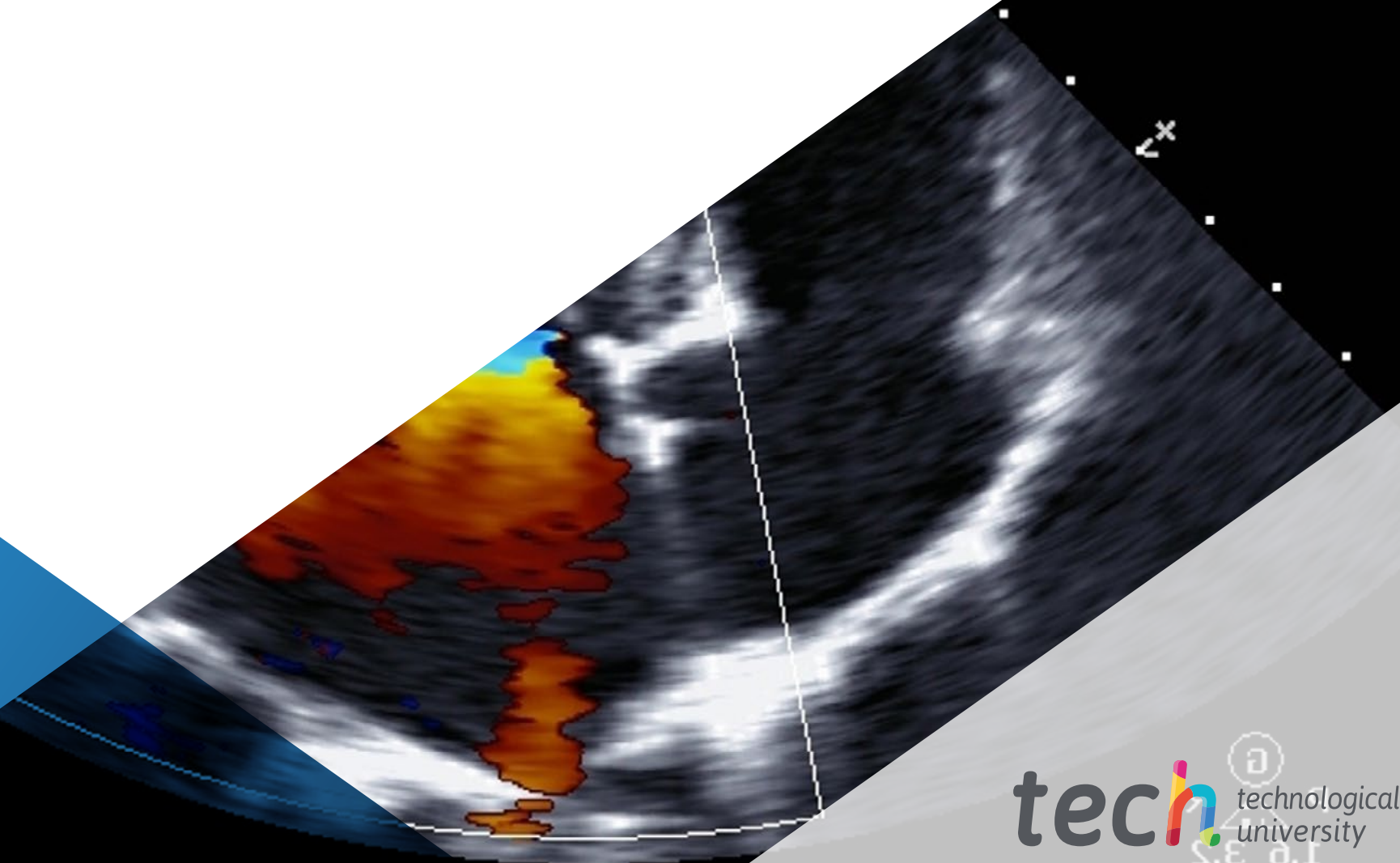


# Postgraduate Certificate

## Fetal Congenital Heart Diseases





## Postgraduate Certificate Fetal Congenital Heart Diseases

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

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

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# 01

# Introduction

Fetal Echocardiography is a technique in constant evolution and development. Early detection of congenital cardiac pathologies has become one of the main challenges in the field of Fetal Medicine. Therefore, continuous updating in this field is essential. This TECH Technological University program provides comprehensive coverage of the most frequent and complex conditions and pathologies, with a practical and specialized orientation. Additionally, the program is conducted completely online, allowing medical professionals and specialists to catch up from anywhere, at any time and at their own pace, without the need for travel and without geographical restrictions.



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*This Postgraduate Certificate provides an in-depth understanding of the pathology of the aortic arch and its relationship with congenital heart diseases”*

Fetal echocardiography is an essential tool for the early diagnosis of congenital cardiac anomalies in the fetus, allowing early intervention and improving patient prognosis. Therefore, this area faces specific challenges, such as the need to detect and treat increasingly complex pathologies, in an environment where technology is constantly evolving.

In view of this scenario, the Postgraduate Certificate in Fetal Congenital Heart Diseases is presented, based on a complete syllabus that covers from fetal circulation to the study of fetal cardiac function and fetal arrhythmias. This program is designed to update the knowledge of medical professionals and specialists, providing them with a complete and updated vision of fetal echocardiography techniques to detect Congenital Heart Diseases.

The program is 100% online, which allows students to access the contents from anywhere and at any time, adapting to their learning pace and schedules. Additionally, they will have access to various multimedia materials such as clinical case studies, in-focus videos or interactive summaries, among many others. In short, the Postgraduate Certificate in Fetal Congenital Heart Diseases is a unique opportunity to update knowledge and improve the quality of medical care in the specialty.

This **Postgraduate Certificate in Fetal Congenital Heart Diseases** 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 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
- ♦ The practical exercises where the self-evaluation 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



*Get updated with the latest procedures in Fetal Echocardiography to detect Congenital Heart Diseases. Don't wait any longer and enroll"*

“

*Update your knowledge in Conotruncal Congenital Heart Disease and update your diagnostic skills”*

*Study in a 100% online format and make your professional updating process compatible with the rest of your daily activities.*

*Delve into the latest advances in Fetal Echocardiography based on clinical cases.*

The program includes in its teaching staff professionals of the sector who pour into this training the experience of their work, in addition to recognized specialists of 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.

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



# 02 Objectives

The objectives of this Postgraduate Certificate in Fetal Congenital Heart Diseases are to provide students with the knowledge and skills necessary to update in the procedure of Fetal Echocardiography, including the identification of congenital heart anomalies, early screening and evaluation of fetal cardiac function. It also seeks to train participants to make accurate diagnoses based on the latest advances in this discipline, for which TECH Technological University has created a high-level academic program.







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*The main objective of this program is to provide you with an immediate update in the technique of Fetal Echocardiography”*



## 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 research 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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- ♦ Have a thorough and updated knowledge of the early study and screening of congenital heart diseases
- ♦ Update on the systematics of fetal cardiac screening
- ♦ Identify the main congenital heart diseases that can be diagnosed prenatally



*Enroll now and access the most advanced multimedia resources in the academic market in the area of Fetal Echocardiography”*

# 03

## Course Management

The teaching staff of this Postgraduate Certificate in Fetal Congenital Heart Diseases is composed of highly specialized professionals in the field of Fetal Medicine and Fetal Echocardiography. All teachers have extensive clinical experience in the management of congenital heart diseases, as well as in health research in this area. In this way, the student will be able to get up to date with a faculty of great prestige in this field.



“

*This teaching staff has been carefully selected by TECH Technological University, and will allow you to update your knowledge based on their extensive professional experience”*

## Management



### Dr. Gallardo Arozena, Margarita

- ◆ FEA in Obstetrics and Gynecology at HU Nuestra Señora of Candelaria
- ◆ Faculty Specialist at Hospital Clínico San Carlos
- ◆ 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
- ◆ Diploma 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. 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. García Delgado, Raquel**

- ♦ Doctor Specialist in Obstetrics and Gynecology at HU Nuestra Señora of Canary
- ♦ Coordinator of the Regional Committee of Congenital Heart DiseaseS of the Canary Islands
- ♦ Doctor in Medicine and Surgery from the University of Las Palmas of the Canary Islands
- ♦ Author of scientific publications in high impact journals and participation in several book chapters
- ♦ Speaker at national and international congresses and courses related to Fetal Medicine
- ♦ Expert level in Obstetric-Gynecologic Ultrasound by SESEGO
- ♦ Certificate of Competence in first trimester ultrasound and ultrasound of fetal anomalies in the second trimester by the Fetal Medicine Foundation

**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 national and international research projects on fetal anomalies, placental abnormalities, preeclampsia, preterm delivery and fetal and maternal complications during gestation
- ♦ Regular reviewer of articles in multiple international and national journals in his speciality

**Dr. Molina García, Francisca Sonia**

- ♦ Doctor Specialist in Obstetrics and Gynecology at HU Nuestra Señora of Granada
- ♦ Head of the Ultrasound Unit of the Gutenberg Center of Granada
- ♦ Director of several research lines of funded projects on preeclampsia, preterm delivery, fetal and maternal complications during pregnancy and fetal surgery
- ♦ Regular reviewer of articles in five international and national journals on Gynecology and Obstetrics
- ♦ Contributing editor of Fetal Diagnosis and Therapy
- ♦ European PhD in Medicine and Surgery from the University of Granada
- ♦ Subspecialization in Fetal Medicine and Surgery at the King's College University Hospital in London

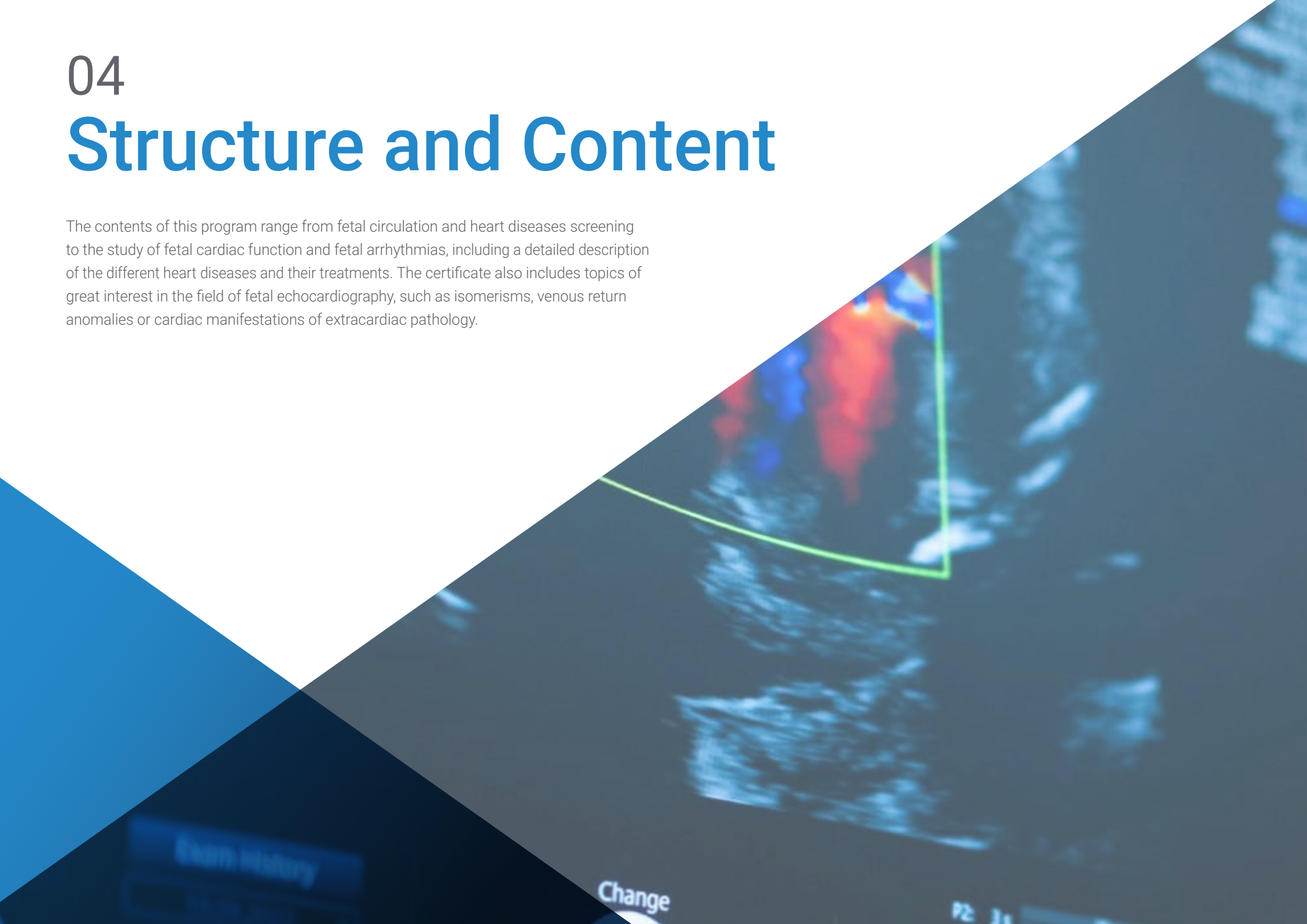
**Dr. Gibbone, Elena**

- ♦ Specialist in the Obstetrics and Gynecology Unit of the HU Cruces de Vizcaya
- ♦ Specialist at Ecography and Fetal Medicine Unit of Zuatzu clinic
- ♦ Researcher in several lines related to Preeclampsia, twin pregnancy and its complications and maternal pathology in pregnancy
- ♦ International Doctorate in Biomedical Research, University of the Basque Country
- ♦ Graduate in Medicine and Surgery
- ♦ Specialist in Gynecology and Obstetrics
- ♦ Subspecialization in Fetal Medicine and Surgery at the King's College University Hospital in London
- ♦ Subspecialty in Fetal Medicine and Surgery at the San Cecilio Clinical Hospital in Granada
- ♦ Author of over 10 scientific publications in international high-impact journals

# 04

# Structure and Content

The contents of this program range from fetal circulation and heart diseases screening to the study of fetal cardiac function and fetal arrhythmias, including a detailed description of the different heart diseases and their treatments. The certificate also includes topics of great interest in the field of fetal echocardiography, such as isomerisms, venous return anomalies or cardiac manifestations of extracardiac pathology.



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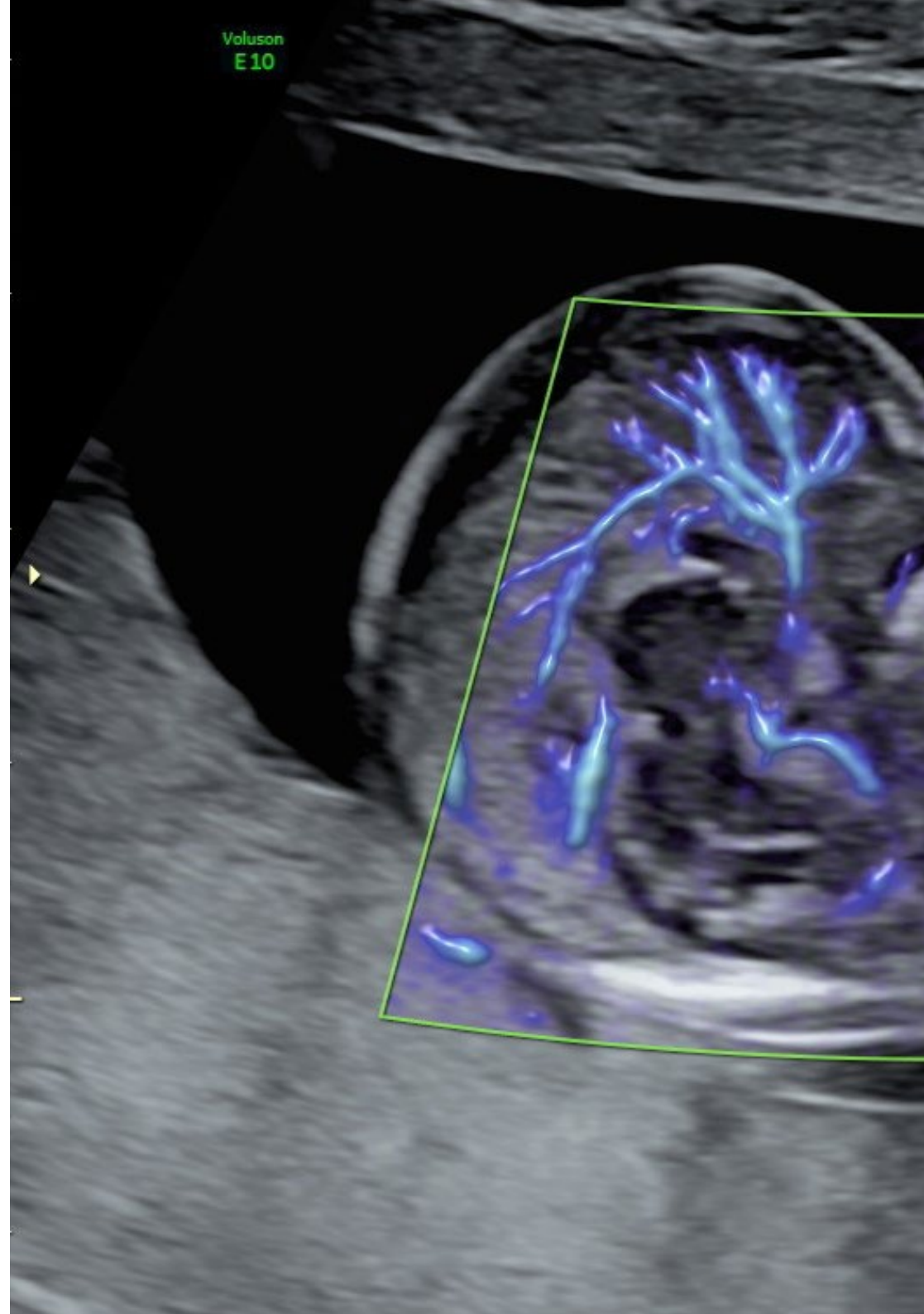


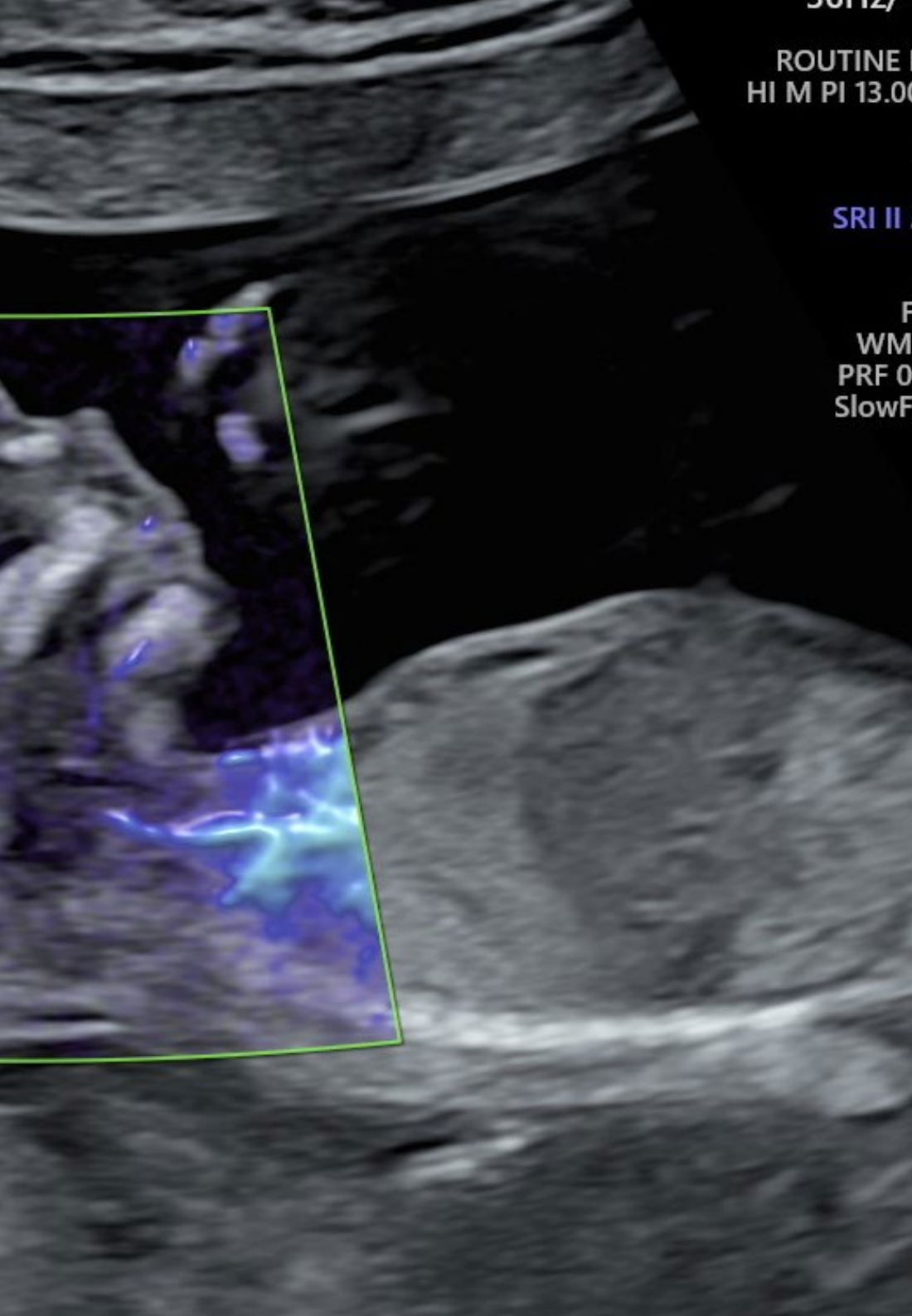
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*This Postgraduate Certificate is composed of a specific module through which you can delve into the screening of Congenital Heart Disease through Fetal Echocardiography”*

## Module 1. Fetal Echocardiography

- 1.1. Fetal Circulation. Congenital Heart Disease Screening and Early Fetal Echocardiography
- 1.2. Septal CHDs
  - 1.2.1. VSD
  - 1.2.2. Atrioventricular Septal Defects
- 1.3. Left CHDs
  - 1.3.1. Aortic Stenosis
  - 1.3.2. Left Cavity Hypoplasia
  - 1.3.3. Aortic Arch Pathology: Coarctation of the Aorta Interruption of the Aortic Arch. Lateral Aortic Arch Anomalies
- 1.4. Right CHDs
  - 1.4.1. Tricuspid Atresia
  - 1.4.2. Ebstein
  - 1.4.3. Stenosis/ Pulmonary Atresia with Intact Septum
- 1.5. Conotruncal CHDs I
  - 1.5.1. Transposition of Main Arteries
  - 1.5.2. Corrected Transposition
- 1.6. Conotruncal CHDs II
  - 1.6.1. Tetralogy of Fallot
  - 1.6.2. Double Outlet Right Ventricle
- 1.7. Conotruncal CHDs III or Single Arterial Outflow
  - 1.7.1. Truncus Arteriosus
  - 1.7.2. Pulmonary Atresia with VSD
- 1.8. Miscellaneous
  - 1.8.1. Isomerisms
  - 1.8.2. Venous Return Anomalies
  - 1.8.3. Single Ventricle Cardiomyopathies
  - 1.8.4. Tumours
  - 1.8.5. Cardiac Manifestations of Extracardiac Pathology
- 1.9. Fetal Arrhythmias
  - 1.9.1. Irregular Rhythms. Extrasystoles:
  - 1.9.2. Tachycardia
  - 1.9.3. Bradycardia
- 1.10. Study of Fetal Cardiac Function





“

*This program combines a complete and updated syllabus with a learning methodology of high pedagogical rigor that will allow you to take advantage of every minute you spend studying”*

# 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. 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. 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 in the physician's professional 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 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 Congenital Heart Diseases guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Fetal Congenital Heart Diseases** contains the most complete and up-to-date scientific program 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 diploma 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 Fetal Congenital Heart Diseases**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION 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  
development language  
virtual classroom



**Postgraduate Certificate**  
Fetal Congenital  
Heart Diseases

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

## Fetal Congenital Heart Diseases