

Postgraduate Certificate Intrauterine Fetal Therapy and Invasive Procedures



Postgraduate Certificate Intrauterine Fetal Therapy and Invasive Procedures

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

Website: www.techtute.com/in/medicine/postgraduate-certificate/intrauterine-fetal-therapy-invasive-procedures

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01

Introduction

Thanks to technological advances and surgical techniques, it is possible to improve the prognosis of fetuses affected by various conditions, which translates into a better quality of life and survival for the fetus and, subsequently, for the newborn. Therefore, an update in Intrauterine Fetal Therapy will be of great value for the medical specialist, something that you will have thanks to TECH Technological University with a focus on Fetal Surgery and other invasive procedures. The syllabus includes from the principles of Fetal Therapy to the present and future of Fetal Surgery, which allows students to obtain a complete and updated vision of the field. All this with the convenience of a 100% online certificate.



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*Update yourself in Fetal Surgery and other
invasive procedures in only 150 hours"*

Intrauterine Fetal Therapy has been consolidated as an area of Medicine that has had an enormous development in the last decades, which has allowed to improve the prognosis and quality of life of fetuses with severe pathologies. That is why it is increasingly necessary the high preparation of Health professionals in this field.

For this reason, the present University Course aims to provide physicians with a quality update in Intrauterine Fetal Therapy and in the range of related invasive procedures. In this sense, the course's agenda is broad and includes from the basic principles of Fetal Therapy, through a tour of Fetal Surgery and other invasive procedures, to the prenatal treatment of Spina Bifida and Selective Cord Occlusion, among other points.

Through an innovative pedagogical methodology such as Relearning, the program seeks that students develop advanced skills in the performance of the different surgical procedures and techniques necessary to improve their approach and patient care.

It is also a 100% online certificate that allows students to manage their own academic time so that they can combine the University Course with their medical activity without major problems.

This **Postgraduate Certificate in Intrauterine Fetal Therapy and Invasive Procedures** 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 Intrauterine Fetal Therapy and Invasive Procedures
- ♦ 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



Position yourself as a referring physician in invasive procedures in the fetus such as Amniocentesis or Chorionic Biopsy"

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"Manage with solvency each and every one of the ultrasound-guided procedures in this area so that you can update your medical strategies with this program"

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.

Develop advanced skills that will allow you to act with the best guarantees in clinical situations susceptible to Prenatal Surgery.

Take a look at the present and future of Fetal Surgery thanks to this University Program.



02 Objectives

TECH Technological University has created this University Program to meet the growing need to prevent and treat complications in early stages of pregnancy, through the use of advances in maternal-fetal medicine. Therefore, the objective of this program is to provide professionals in the area of Gynecology and Obstetrics with an updated and complete tool in Fetal Medicine and Prenatal Diagnosis, ensuring safe pregnancies for the mother and fetus.



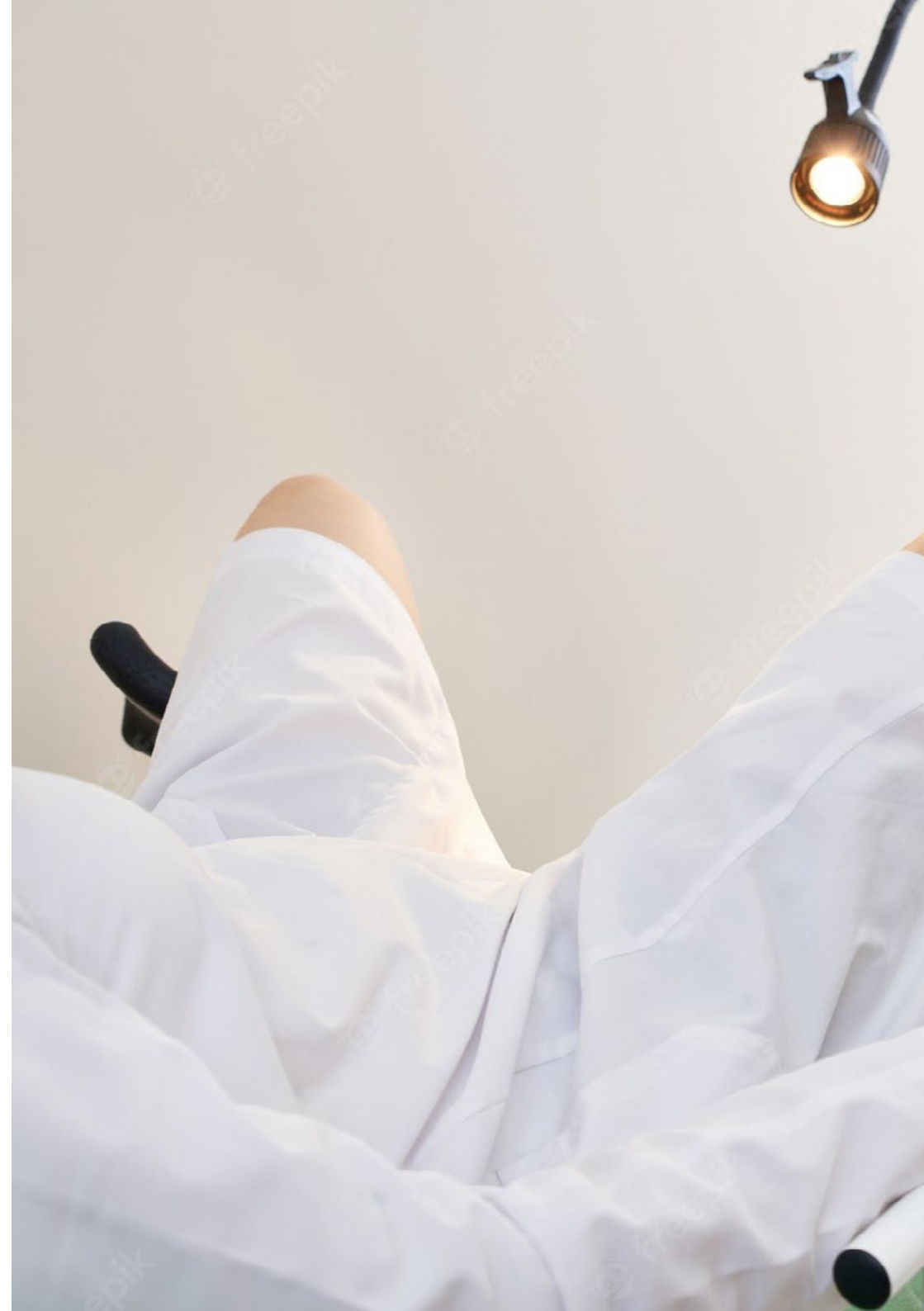
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Your approach to the pathologies subsidiary to Fetal Surgery will be fully updated if you achieve these objectives”



General Objectives

- 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

- ♦ Have an exhaustive knowledge of the current state of fetal surgery and its future projection
- ♦ To know how to identify, based on the most updated medical standards, the pathologies that require fetal surgery
- ♦ Update the techniques and approach routes of the different invasive procedures
- ♦ Acquire updated theoretical knowledge necessary to implement the main invasive procedures in fetal medicine and therapy



Improve all your career prospects through a unique degree in the field of Gynecology and Obstetrics”

03

Course Management

TECH Technological University has carefully chosen the teaching team for this University Program composed of leading professionals in the field of Gynecology and Prenatal Obstetrics. This teaching team has extensive experience in clinical practice in renowned international hospitals and have maintained their continuous training in Women's Health by teaching in different programs. Thanks to this, students will have the opportunity to acquire diverse perspectives on Fetal Medicine in the current context, all based on international standards of clinical care.



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Succeed with experts in Gynecology and Prenatal Obstetrics who aim to take your medical career to the next level"

Management



Dr. Gallardo Arozena, Margarita

- ◆ FEA in Obstetrics and Gynecology at the HU Nuestra Señora de Candelaria Medical Specialist at the San Carlos Clinical Hospital
- ◆ 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. 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
- ♦ Subspecialization in Fetal Medicine and Surgery at the San Cecilio Clinical Hospital in Granada
- ♦ Author of over 10 scientific publications in international high-impact journals

Dr. De Ganzo Suárez, Tania del Carmen

- ♦ Doctor Specialist in Obstetrics and Gynecology at HU Nuestra Señora of Candelaria
- ♦ Specialised doctor of the Fetal Medicine Unit, Tenerife Hospiten Group
- ♦ 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 Author of scientific articles published in high-impact journals

Dr. Gil Mira, María del Mar

- ♦ Obstetrics and Gynecology Specialist at the HU of Torrejón de Ardoz
- ♦ Main Researcher at the Torrejón University Hospital
- ♦ Director of doctoral theses in the field of Gynecology and Obstetry
- ♦ Author of multiple scientific articles published in high-impact journals
- ♦ Associate Professor in the Department of Gynecology and Obstetry. Faculty of Medicine. Francisco de Vitoria University (UFV), Madrid
- ♦ Co-founder and Vice President of the iMaterna Foundation and leader of the iMaterna research group for the UFV
- ♦ Advisor to the Prenatal Screening Working Group. Commissions of Public Health Ministry of Health. Government of Spain
- ♦ Doctor of Medicine and Surgery from the Autonomous University of Madrid
- ♦ Board member of World Association in Perinatal Medicine (WAMP)
- ♦ Editor at Perinatal Journal and Editorial board member of Ultrasound in Obstetrics and Gynecology magazine

04

Structure and Content

The teaching team has developed the curriculum of this University Program following TECH's Technological University high quality standards and the latest advances in FetalTherapy. As a result, they have created a diverse theoretical, practical and additional content of 150 hours, presented in various formats to maintain the dynamism of the certificate. Additionally, all material will be available for download on any device with an Internet connection, allowing students to access the content while being in control of managing their academic deadlines.



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Access a complete syllabus with the latest advances in Shunts, EXIT Surgery or Amnioinfusion"

Module 1. Intrauterine Fetal Therapy and Invasive Procedures

- 1.1. Fetal Therapy Principles
- 1.2. Training in Fetal Surgery and Other Invasive Procedures
 - 1.2.1. Referral Centers
 - 1.2.2. Learning Curve and Skills Maintenance
- 1.3. Invasive Procedures
 - 1.3.1. Amniocentesis, Chorionic Biopsy and Cordocentesis
 - 1.3.2. Indications and Technique
 - 1.3.3. Contribution of Invasive Procedures in Fetal Surgeries
- 1.4. Fetal and Maternal Anesthesia and Analgesia
- 1.5. EXIT Surgery
 - 1.5.1. Concept and Indications
 - 1.5.2. Evolution and Surgical Technique
- 1.6. Prenatal Treatment of Spina Bifida
 - 1.6.1. Indications and Approaches
 - 1.6.2. Prognosis and Post-Surgical Results
- 1.7. Ultrasound-Guided Procedures
 - 1.7.1. Shunts
 - 1.7.2. Intrauterine Transfusion
 - 1.7.3. Selective Cord Occlusion
 - 1.7.4. Amnioinfusion/Amniodrainage
- 1.8. Fetoscopic Procedures
 - 1.8.1. Clinical Situations Susceptible to Prenatal Surgery: HDC, Bridle, MC, etc
 - 1.8.2. Approach, Indications and Technique
 - 1.8.3. Postnatal Results
- 1.9. Cardiac Intervention and Treatment of Arrhythmias
- 1.10. Present and Future of Fetal Surgery





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Do not hesitate and sign up to perfect your medical strategies for the prenatal treatment of Spina Bifida"

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. 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.

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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 Intrauterine Fetal Therapy and Invasive Procedures 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 **University Program in Intrauterine Fetal Therapy and Invasive Procedures** 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 certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Intrauterine Fetal Therapy and Invasive Procedures**
Official N° of Hours: **150 h.**



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

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



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