

# Postgraduate Certificate Neonatal Endocrinology, Dysmorphology and Oncology





## Postgraduate Certificate Neonatal Endocrinology, Dysmorphology and Oncology

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

Website: [www.techtute.com/us/medicine/postgraduate-certificate/neonatal-endocrinology-dysmorphology-oncology](http://www.techtute.com/us/medicine/postgraduate-certificate/neonatal-endocrinology-dysmorphology-oncology)

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# 01

# Introduction

Neonatal Endocrinology, Dysmorphology and Oncology are specialized areas in the medical care of newborns and children with pathologies in growth, development and congenital malformations. This makes it necessary to have experts in these fields who can offer adequate and quality care to patients and their families. In this context, TECH presents a program designed to provide health professionals an integrated training in these areas of pediatric medicine. The program is 100% online, and has an innovative pedagogical methodology based on *Relearning*, which allows for a more personalized, effective and professionally focused education. In addition, participants have the flexibility to organize academic resources to suit their needs.



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*Would you like to work in the field of neonatal and pediatric medicine? This program provides you with the necessary skills to become a highly qualified professional. You will learn about hormones, congenital malformations, tumors and much more from leading educators”*

The study of Neonatal Endocrinology, Dysmorphology and Oncology has become a subject of great importance in the field of medicine, since they allow early diagnosis and timely intervention in cases of pathologies in newborns. Endocrinology focuses on the study of hormones and their effects on the body. Dysmorphology deals with the identification and evaluation of congenital malformations and genetic syndromes. Finally, Neonatal Oncology deals with the diagnosis and treatment of tumors in newborns and young children.

The need for training in these areas lies in the importance of having highly trained professionals in the diagnosis and treatment of these pathologies. Because an early diagnosis can make a difference in the health and quality of life of newborns. In addition, these pathologies require a multidisciplinary approach, so it is mandatory to have knowledge in different sectors of medicine in order to provide comprehensive care.

In this context, TECH has designed a program to deepen the study of the aforementioned pathologies, with emphasis on early diagnosis and timely intervention. This program will address topics such as Metabolopathies, Chromosomopathies, Major Structural Alterations and Neonatal Tumors, among others. In addition, different screening techniques for early detection of pathologies, management during heel prick and ways to perform it will be discussed.

The program will be taught in 100% online mode, using TECH's pedagogical methodology, *Relearning*, which will allow participants to have greater flexibility to organize their academic resources according to their needs. In addition, participants will be accompanied by teachers specialized in the areas and will have access to multimedia materials to complement their training.

This **Postgraduate Certificate in Neonatal Endocrinology, Dysmorphology and Oncology** 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 medical experts focused on Neonatology
- ◆ 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



*Don't miss the opportunity to expand your knowledge in Neonatal Endocrinology, Dysmorphology and Oncology. With this program, you will be able to specialize in this area and give good care to your patients"*

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*This Postgraduate Certificate is an excellent opportunity to specialize in these areas of Neonatal Endocrinology, Dysmorphology and Oncology and improve the quality of care in the field of pediatrics”*

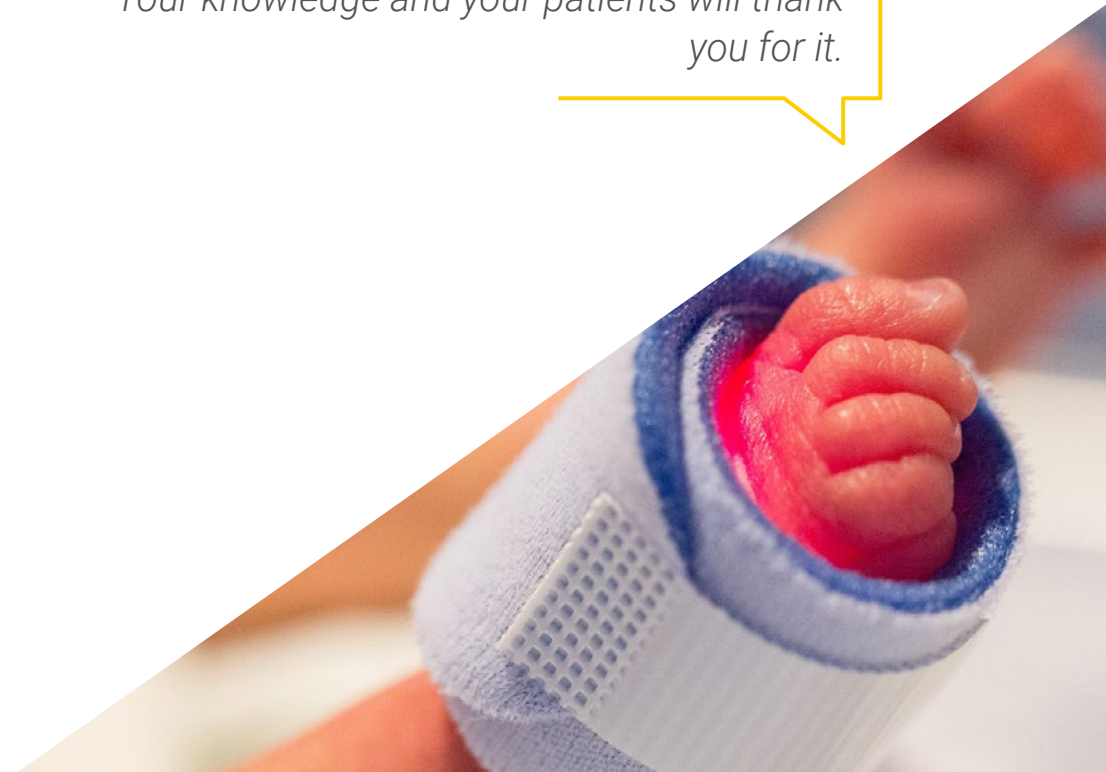
The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its 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 education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. This will be done with the help of an innovative system of interactive videos made by renowned experts.

*This academic program is designed to provide comprehensive training in the field of neonatal care and improve the quality of medical care for newborns and their families.*

*Register now and become an expert in the diagnosis, treatment and follow-up of the main neonatal and oncological pathologies. Your knowledge and your patients will thank you for it.*



# 02

# Objectives

During the development of this Postgraduate Certificate in Neonatal Endocrinology, Dysmorphology and Oncology, TECH seeks to promote the knowledge and skills necessary for the early identification and proper management of endocrine disorders, dysmorphological and oncological problems in neonates. In addition, the aim is to deepen the systematization of the assessment of these problems and their corresponding diagnosis, as well as to identify the essential points in the management of these situations. In this way, it is expected that participants will acquire a global vision of these pathologies and will be able to face these challenges in their professional practice.







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*Within the agenda of this program, the hormonal balance in the neonate will be addressed and the fundamental points in the different modalities of neonatal screening will be delimited”*



## General Objectives

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- ◆ Delve into preterm neonates and their implications
- ◆ Update knowledge of the indications for prevention in sick neonates
- ◆ Be aware of the protocols that optimize the treatment of the sick neonate
- ◆ Describe the main characteristics of the healthy newborn and its basic care
- ◆ Systematize the main problems, disorders and diseases of the newborn, such as weight gain and metabolic development, prematurity, congenital malformations, respiratory or cardiac pathology, metabolic and blood disorders, or digestive or nutritional complications
- ◆ List and describe the main common procedures in neonatology
- ◆ Deepen in the therapeutic activities in the pathologies of the neonate
- ◆ Delve into the basic and specific aspects of complementary examinations in this subspecialty and how to perform them
- ◆ Investigate the knowledge of the different procedures of neonatal nutrition
- ◆ Analyze the follow-up of the newborn once it has been controlled in the acute period
- ◆ Illustrate and reflect on the different moments of care in the models of assistance to the newborn, both healthy and with pathology requiring hospital treatment
- ◆ Explain the various systems of care for the sick neonate, delimiting the continuity between the neonatal period of acute illness and its subsequent follow-up
- ◆ Describe all the accompaniment that the technology means for the adequate monitoring and follow-up of these children, being able to be coupled to the various guides and protocols to finally obtain a global health concept
- ◆ Deepen all the possibilities of on-site and even remote monitoring to achieve a very early and optimal performance on the impact of the disease on the neonate
- ◆ Delve into all aspects of the concepts of complementary knowledge that allow understanding perinatology as a complete subspecialty, from the fetal period to long-term follow-up in outpatient clinics
- ◆ Detail the parameters that will indicate the correct acquisition of all the developmental items of the various organs and apparatuses in order to obtain an optimal long-term result
- ◆ Specify all the elements of the pathological conditions of the sick neonate in order to be able to establish work routines with results at the level of medical excellence



## Specific Objectives

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- ◆ Deepen the systematization of the assessment of dysmorphological problems
- ◆ Deepen the diagnosis of dysmorphological problems
- ◆ Identify the essential points in the adequate management of this type of situations
- ◆ Describe the hormonal balance of the neonate
- ◆ Delineate the key points in the various modalities of neonatal screening

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*Discover the potential of Neonatal Endocrinology, Dysmorphology and Oncology with this Postgraduate Certificate. You will learn from outstanding teachers and gain valuable skills for early diagnosis and intervention”*

# 03

# Course Management

The Postgraduate Certificate in Neonatal Endocrinology, Dysmorphology and Oncology is directed by a team of highly qualified professionals with extensive experience in their respective fields. These experts have been responsible for designing a curriculum that addresses the most relevant and current topics in neonatal care, providing students with the tools and skills necessary for their professional development. The direction of the course focuses on providing students with comprehensive and quality training, providing dynamic and interactive resources on the virtual platform of the program.





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*Teachers in this degree program are committed to providing an enriching and welcoming learning environment in which students can interact with content in an effective and meaningful way”*

## Management



### **Dr. Baca Cots, Manuel**

- ◆ Head of the Pediatrics and Neonatology Service at Hospital Quirón Málaga
- ◆ Head of Neonatology at Hospital Clínica Dr. Gálvez
- ◆ Head of Neonatology at Hospital Qurón of Murcia
- ◆ Head of Andalusian Health Service (SAS)
- ◆ Principal investigator of international multi-center projects
- ◆ Degree in Medicine from the University of Granada



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*A unique, key, and decisive training experience to boost your professional development”*

# 04

## Structure and Content

This academic program focuses on a broad spectrum of topics relevant to neonatal medical care. It addresses crucial topics such as Metabolopathies, their classification, diagnosis, treatment and follow-up, as well as different types of screening for these diseases and the criteria for their inclusion. In addition, the study of chromosomopathies and major structural alterations is studied in depth, and information is provided on Neonatal Oncology and the different types of tumors, etiology, diagnosis, treatment and follow-up of diseases such as Neuroblastoma, Wilms Tumor and Teratomas. All this is taught through a 100% online methodology and together with the innovative resource of *TECH Relearning*.







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*Do you want to be the expert in Neonatal Endocrinology, Dysmorphology and Oncology that your patients need? This program provides you with the necessary knowledge to evaluate pathologies in newborns and young children”*

## Module 1. Neonatal Endocrinology, Dysmorphology and Oncology

- 1.1. Metabolopathies
  - 1.1.1. Classification
  - 1.1.2. Diagnosis
  - 1.1.3. Treatment
  - 1.1.4. Monitoring
- 1.2. Different Types of Screening for the Various Metabolopathies. Criteria for Listing a Metabolopathy in Neonatal Screening
  - 1.2.1. Classification of susceptible diseases *screening*
  - 1.2.2. Criteria for Listing a Metabolopathy in Neonatal Screening
  - 1.2.3. Clinical data
  - 1.2.4. Ways to do it
- 1.3. Screening Techniques: Procedure for the Heel Prick Test
  - 1.3.1. Ways to do it
  - 1.3.2. Diagnosis Classification
  - 1.3.3. Organization
  - 1.3.4. Specific Metabolopathies Centers
- 1.4. Chromosomopathies
  - 1.4.1. Trisomy 21 (Down Syndrome)
  - 1.4.2. Trisomy 18 (Edwards Syndrome)
  - 1.4.3. Trisomy 13 (Patau's Syndrome)
  - 1.4.4. Turner Syndrome (45XO). Klinefelter Syndrome (47XXY)
- 1.5. Study of Chromosomal Alterations
  - 1.5.1. Classification
  - 1.5.2. Clinical diagnosis
  - 1.5.3. Laboratory Diagnosis
  - 1.5.4. Monitoring
- 1.6. Major Structural Changes
  - 1.6.1. Classification
  - 1.6.2. Diagnosis
  - 1.6.3. Subspecialty intervention
  - 1.6.4. Monitoring



- 1.7. General Aspects of Neonatal Oncology
  - 1.7.1. Fundamentals
  - 1.7.2. Tumor types
  - 1.7.3. Staging
  - 1.7.4. Monitoring
- 1.8. Neuroblastoma
  - 1.8.1. Ethological basis
  - 1.8.2. Diagnosis
  - 1.8.3. Treatment
  - 1.8.4. Monitoring
- 1.9. Wilms Tumor
  - 1.9.1. Ethological basis
  - 1.9.2. Diagnosis
  - 1.9.3. Treatment
  - 1.9.4. Monitoring
- 1.10. Teratomas
  - 1.10.1. Ethological basis
  - 1.10.2. Diagnosis
  - 1.10.3. Treatment
  - 1.10.4. Monitoring



*Learn in a flexible way and from anywhere with this 100% online Postgraduate Certificate in Neonatal Endocrinology, Dysmorphology and Oncology”*



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 Neonatal , Dysmorphology and Oncology Endocrinology 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 Neonatal Endocrinology, Dysmorphology and Oncology** 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 Neonatal Endocrinology, Dysmorphology and Oncology**

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.



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