

# Postgraduate Diploma

## Pediatric Endocrinology and Nutrition





## Postgraduate Diploma Pediatric Endocrinology and Nutrition

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Credits: 17 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-pediatric-endocrinology-nutrition](http://www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-pediatric-endocrinology-nutrition)

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01

# Introduction

In pediatric pathology, nutrition intervenes as an etiological factor and as a complication of other diseases. Therefore, there is a growing interest in the study of food and nutrition in the origin, treatment and support of a large number of pathologies in children as future healthy adults.



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*Improve your knowledge through this program, where you will find the best educational material supported by real clinical cases" Learn here about the latest advances in the specialty to be able to perform a quality medical practice"*

This program offers the student the possibility of expanding and updating knowledge in clinical nutrition, using the latest educational technology. It offers a global vision of child nutrition while focusing on the most important and innovative aspects of feeding in the pediatric age, including from the intrauterine phase to adolescence, as well as the diseases in which feeding plays a highly relevant role.

This program allows specialization in the field of child nutrition in areas of special interest such as:

- ♦ Nutrigenetics
- ♦ Nutrigenomics.
- ♦ Nutrition and obesity
- ♦ Hospital dietetics
- ♦ Nutritional trends

This program is methodologically designed for distance learning in order to guarantee optimal supervision.

With this program, students will have the opportunity to study an educational program that brings together the most advanced and in-depth knowledge in the field, where a group of professors of high scientific and extensive international experience offers the most complete and up-to-date information on the latest advances and techniques in Pediatric Endocrinology and Nutrition.

This **Postgraduate Diploma in Pediatric Endocrinology and Nutrition** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The graphic, schematic and practical contents of the course are designed to provide all the essential information required for professional practice.
- ♦ It contains exercises where the self-assessment process can be carried out to improve learning
- ♦ Algorithm-based interactive learning system for decision-making for patients with feeding problems.
- ♦ All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- ♦ Availability of content from any fixed or portable device with internet connection



*Increase your skills in the approach to Pediatric Endocrinology and Nutrition with this Postgraduate Diploma"*



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*This Postgraduate Diploma is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Pediatric Endocrinology and Nutrition, you will obtain a qualification from TECH Technological University"*

Its teaching staff includes renowned specialists in nutrition based on clinical practice, who bring the experience of their work to this program.

The multimedia content developed with the latest educational technology will provide the physician with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

This program is designed around Problem-Based Learning, whereby the physician must try to solve the different professional practice situations that arise throughout the program.

For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of radiology with extensive teaching experience.

*This Postgraduate Diploma offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.*

*It includes clinical cases to bring the program as close as possible to the reality of care in medicine.*



# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the doctor can master in a practical and rigorous way Pediatric Endocrinology and Nutrition







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*This refresher program will generate a sense of confidence when practising medicine, which will help you grow both personally and professionally”*



## General Objectives

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- Update the physician's knowledge on the latest trends in human nutrition, both in health and in pathological situations, through evidence-based medicine
- Promote work strategies based on the practical knowledge of the new trends in nutrition and its application to adult pathologies, where nutrition plays a fundamental role in treatment
- Promote the acquisition of technical skills and competencies through robust audiovisual systems, complemented by opportunities for development via online simulation workshops and/or specialized training
- Encourage professional stimulation through continuing education and research
- Train to conduct research on patients with nutritional issues



*Seize the opportunity and take the step to get up to date on the latest developments in Pediatric Endocrinology and Nutrition"*





## Specific Objectives

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### Module 1. Assessment of Nutritional Status and Diet. Practical Application

- ♦ Analyze the different methods for assessing nutritional status
- ♦ Interpret and integrate anthropometric, clinical, biochemical, hematological, immunological and pharmacological data in the nutritional assessment of the patient and in their dietary- nutritional treatment
- ♦ Predict patients' nutritional risk
- ♦ Manage the different types of nutritional surveys to assess food intake
- ♦ Early detection and evaluation of quantitative and qualitative deviations from the nutritional balance due to excess or deficiency
- ♦ Review basic aspects of food microbiology, parasitology and toxicology related to food safety

### Module 2. Pediatric Malnutrition

- ♦ Develop plans to prevent child malnutrition
- ♦ Address vitamin and trace element deficiencies with modern treatment methods
- ♦ In-depth study of the prevention and nutritional treatment of childhood obesity
- ♦ Get to know the most relevant psychosocial aspects of malnutrition

### Module 3. Nutrition and Pathologies in Childhood

- ♦ Study the role of nutrition in the various pathologies of childhood
- ♦ Explore eating difficulties and disorders in children
- ♦ Address common disorders such as Bulimia and Anorexia
- ♦ Delve into the nutrition of children with Autism, Diabetes, Cancer, or Bone Pathologies

03

# Course Management

A successful faculty that has been assembled by TECH to provide students with the most up-to-date content on Pediatric Endocrinology and Nutrition. The professionals in charge of all the educational content have years of teaching experience and have come together to help give a boost to the graduate's professional career. To this end, they have developed this Postgraduate Diploma with recent updates on the subject, the purpose of which will be to train and increase the student's skills in their profession.







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*Learn with the best professionals in  
the industry and become a successful  
professional yourself"*



## International Guest Director

Dr. Sumantra Ray is an internationally recognized specialist in **Nutrition** and his main areas of interest are **Nutrition Education in Health Systems** and **Cardiovascular Disease Prevention**. With his outstanding experience in this health field, he has served as a consultant on special assignment for the **Nutrition Management** of the **World Health Organization** Headquarters in Geneva. He has also worked as **Director of Research** in Food Security, Health and Society in the Faculty of Humanities and Social Sciences at the University of Cambridge.

For his constant commitment to the dissemination of **healthy eating habits**, he has received the **Josephine Lansdell Award** from the British Medical Association. Specifically, this recognition highlighted his contributions related to nutrition and **Cardiovascular Prevention**. Also, as an international expert, he has participated in a work program on **Food, Nutrition and Education** in India, led by the University of Cambridge and funded by the UK Global Challenges Research Fund.

Dr. Sumantra Ray's studies are worldwide references, focusing on **global food security**, as it is a fundamental aspect for the development of societies. In addition, he has demonstrated his leadership skills as a **Senior Clinical Scientist** at the **Medical Research Council**, focusing on **Nutrition** and **Vascular Health** studies. In this position, he directed an experimental medicine facility dedicated to Human **Nutrition** studies.

Throughout his career he has authored more than **200 scientific publications** and has written the **Oxford Handbook of Clinical and Health Research**, aimed at strengthening the basic research skills of health care workers around the world. In this sense, he has shared his scientific findings in numerous presentations and congresses, in which he has participated in different countries.



## Dr. Ray, Sumantra

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- Executive Director and Founder, NNEdPro Global Nutrition and Health Centre, Cambridge, UK
- Director of Research in Food Security, Health and Society in the Faculty of Humanities and Social Sciences, University of Cambridge
- Co-Founder and President of the BMJ Scientific Journal Nutrition, Prevention and Health
- Presidential Advisor at the School of Advanced Studies on Food and Nutrition, University of Parma
- Vice President of the Conference of Medical Academic Representatives of the BMA
- Consultant on special assignment for the Nutrition Directorate of the World Health Organization Headquarters in Geneva
- Honorary International Dean of the Cordia Colleges in India
- Senior Clinical Scientist with the Medical Research Council
- Bachelor's Degree in Medicine

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*Thanks to TECH, you will be able to learn with the best professionals in the world”*

## Management



### **Ms. Aunió Lavarías, María Eugenia**

- ♦ Pharmacist and Clinical Nutrition Expert
- ♦ "Author of the reference book in the field of Clinical Nutrition "Dietetic Management of Overweight in the Pharmacy Office". (Panamerican Medical Publishing House)
- ♦ Pharmacist with extensive experience in the public and private sector
- ♦ Pharmacist in Valencia Pharmacy
- ♦ Pharmacy Assistant in the British pharmacy and health and beauty retail chain Boots, UK
- ♦ Degree in Pharmacy and Food Science and Technology. University of Valencia
- ♦ Director of the University Course "Dermocosmetics in the Pharmacy Office"



04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of education in daily medical practice, aware of the current relevance of the qualification in Pediatric Endocrinology and Nutrition; and committed to quality teaching through new educational technologies.





A photograph of a person's midsection wearing a light blue short-sleeved shirt. A red measuring tape is being used to measure the waist. The background is a solid blue color with a white diagonal line separating it from the white area below.

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*This Postgraduate Diploma in Pediatric Endocrinology and Nutrition contains the most complete and up-to-date scientific program on the market”*

## Module 1. Assessment of Nutritional Status and Diet. Practical Application

- 1.1. Bioenergy and Nutrition
  - 1.1.1. Energy Needs
  - 1.1.2. Methods of Assessing Energy Expenditure
- 1.2. Assessment of Nutritional Status
  - 1.2.1. Body Composition Analysis
  - 1.2.2. Clinical Diagnosis. Symptoms and Signs
  - 1.2.3. Biochemical, Hematological and Immunological Methods
- 1.3. Intake Assessment
  - 1.3.1. Methods for Analyzing Food and Nutrient Intake
  - 1.3.2. Direct and Indirect Methods
- 1.4. Update on Nutritional Requirements and Recommended Intakes
- 1.5. Nutrition in a Healthy Adult. Objectives and Guidelines. Mediterranean Diet
- 1.6. Nutrition in Menopause
- 1.7. Nutrition in the Elderly

## Module 2. Pediatric Malnutrition

- 2.1. Pediatric Malnutrition and Undernutrition
  - 2.1.1. Psychosocial Aspects
  - 2.1.2. Pediatric Assessment
  - 2.1.3. Treatment and Follow-up
- 2.2. Nutritional Anemias
  - 2.2.1. Other Nutritional Anemias in Childhood
- 2.3. Vitamin and Micronutrient Deficiencies
  - 2.3.1. Vitamins
  - 2.3.2. Micronutrients
  - 2.3.3. Detection and Treatment
- 2.4. Fats in Pediatric Nutrition
  - 2.4.1. Essential Fatty Acids





- 2.5. Childhood Obesity
  - 2.5.1. Prevention
  - 2.5.2. Impact of Childhood Obesity
  - 2.5.3. Nutritional Treatment

### Module 3. Nutrition and Pathologies in Childhood

- 3.1. Nutrition of Children with Oral Pathologies
- 3.2. Nutrition of Infants and Children with Gastroesophageal Reflux
- 3.3. Nutrition in Acute Diarrhea Situation
- 3.4. Nutrition in Children with Celiac Disease
- 3.5. Nutrition in Children with Inflammatory Bowel Disease
- 3.6. Nutrition in Children with Digestive Malabsorption Syndrome
- 3.7. Nutrition in Children with Constipation
- 3.8. Nutrition in Children with Liver Disease
- 3.9. Eating Difficulties and Disorders in Children
  - 3.9.1. Physiological Aspects
  - 3.9.2. Psychological Aspects
- 3.10. Eating Disorders
  - 3.10.1. Anorexia
  - 3.10.2. Bulimia
  - 3.10.3. Others
- 3.11. Innate Problems With Metabolism
  - 3.11.1. Principles for Dietary Treatment
- 3.12. Nutrition in Dyslipidemias
- 3.13. Nutrition in the Diabetic Child
- 3.14. Nutrition in Autistic Children
- 3.15. Nutrition in Children with Cancer
- 3.16. Nutrition in Children with Chronic Pulmonary Pathology
- 3.17. Nutrition in Children with Nephropathy
- 3.18. Nutrition in Children with Food Allergies and/or Intolerances
- 3.19. Childhood and Bone Pathology Nutrition

# 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

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*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 adapted in 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.







# 06 Certificate

The Postgraduate Diploma in Pediatric Endocrinology and Nutrition guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 private qualification will allow you to obtain a **Postgraduate Diploma in Pediatric Endocrinology and Nutrition** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

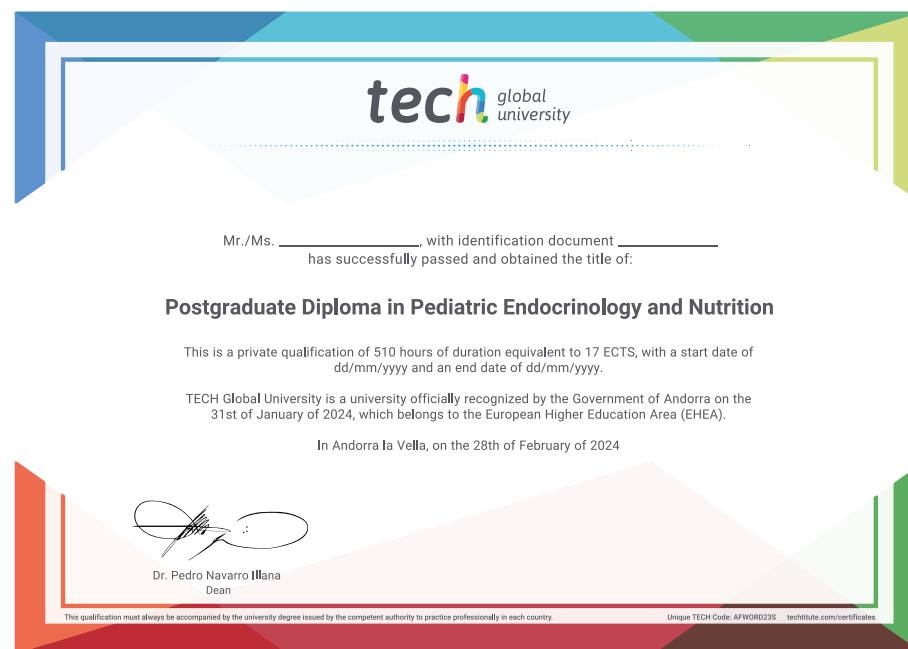
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Pediatric Endocrinology and Nutrition**

Modality: **online**

Duration: **6 months**

Accreditation: **17 ECTS**



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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