

# Postgraduate Diploma Pediatric Nutrition in Medicine





## Postgraduate Diploma Pediatric Nutrition in Medicine

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

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

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# 01

# Introduction

Nutrition in the growth stage is fundamental for the correct physical and mental development of the child.

Inadequate nutrition in childhood increases risk factors such as obesity and other diseases in adulthood. Therefore, it is essential for the medical professional to know the latest advances in food and nutrition in the origin, treatment and support of different pathologies in children.



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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 possibility to deepen and update knowledge in nutrition, with the use of the latest educational technology. It offers a global vision of Pediatric Nutrition in Medicine 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 provides specialization in the field of Paediatric Nutrition in areas of particular 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 qualification you will have the opportunity to study a program that brings together the most advanced and in-depth knowledge in the field, where a group of highly regarded professors with extensive international experience provides you with the most complete and up-to-date information on the latest advances and techniques in Pediatric Nutrition in Medicine.

This **Postgraduate Diploma in Pediatric Nutrition in Medicine** 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 Nutrition in Medicine 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 Nutrition in Medicine, you will obtain a qualification from TECH Technological University"*

*This Postgraduate Diploma offers learning 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.*

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.



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 Nutrition in Medicine





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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 knowledge on new trends in human nutrition in both health and 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.
- Encourage the learning of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online workshops for simulation and/or specific specialization
- Encourage professional stimulation through continuous education and research
- Train the professional for research into patients with nutritional problems



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





## Specific Objectives

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### Module 1. New Developments in Food

- ♦ Review the basics of a balanced diet in the different stages of the life cycle, as well as in exercise
- ♦ Assess and calculate nutritional requirements in health and disease at any stage of the life cycle
- ♦ Review the new dietary guidelines, nutritional objectives, and recommended dietary allowances (RDA)
- ♦ Manage food databases and composition tables
- ♦ Acquire skills in reading and understanding new food labeling methods
- ♦ Update the drug-nutrient interaction and its implication in the patient's treatment.
- ♦ Incorporate the possibilities of phytotherapy as an adjuvant treatment in clinical practice

### Module 2. Physiology of Infant Nutrition

- ♦ Apply Food Science and Nutrition to the practice of pediatric dietetics
- ♦ Update the different educational methods of application in health sciences, as well as communication techniques applicable to food and human nutrition with a special focus on children and adolescents
- ♦ Reflect on the usefulness of the school cafeteria as an educational vehicle
- ♦ Review the relation between physiology and nutrition in the different stages of infant development

- ♦ Analyze the implications of nutrition in the growth process and in the prevention and treatment of different childhood pathologies
- ♦ Identify the repercussion that a pregnant and lactating mother's nutrition has on the intrauterine growth and evolution of new-borns and infants
- ♦ Describe the nutritional requirements in the different periods of childhood
- ♦ Apply the knowledge acquired on nutritional assessment in Pediatrics

### Module 3. Artificial Nutrition in Pediatrics

- ♦ Explore the general Information about enteral and parenteral nutrition in pediatrics
- ♦ Study nutritional supplements as a fundamental support of the conventional diet
- ♦ Understand the role of probiotics and prebiotics in infant feeding

# 03

# Course Management

The professionals in charge of all the educational content that make up this program have years of teaching experience and have come together to help give a boost to the graduate's professional career. TECH has assembled an expert faculty in Pediatric Nutrition in Medicine that has a wide prestige in the profession. For this reason, they have developed this Postgraduate Diploma with recent updates on the subject that will allow you to learn and increase your Skills in this sector.





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

## Management



### Ms. Auni3n 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 the program in daily medical practice, aware of the relevance of the current qualification in Pediatric Nutrition in Medicine, and committed to quality teaching through new educational technologies.





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

## Module 1. New Developments in Food

- 1.1. Molecular Foundations of Nutrition
- 1.2. Update on Food Composition
- 1.3. Food Composition Tables and Nutritional Databases
- 1.4. Phytochemicals and Non-Nutritive Compounds
- 1.5. New Food
  - 1.5.1. Functional Nutrients and Bioactive Compounds
  - 1.5.2. Probiotics, Prebiotics and Symbiotics
  - 1.5.3. Quality and Design
- 1.6. Organic food
- 1.7. Transgenic Foods
- 1.8. Water as a Nutrient
- 1.9. Food Safety.
  - 1.9.1. Physical, Chemical, and Microbiological Hazards
- 1.10. New labelling and consumer information
- 1.11. Phytotherapy Applied to Nutritional Pathologies

## Module 2. Physiology of Infant Nutrition

- 2.1. Influence of Nutrition on Growth and Development
- 2.2. Nutritional Requirements in the Different Periods of Childhood
- 2.3. Nutritional Assessment in Children
- 2.4. Physical Activity Evaluation and Recommendations
- 2.5. Nutrition During Pregnancy and its Impact on the New-born
- 2.6. Current Trends in the Premature New-born Nutrition
- 2.7. Nutrition in Lactating Women and its Impact on the Infant
- 2.8. Nutrition of Newborns with Intrauterine Growth Delay. Implications on Metabolic Diseases
- 2.9. Breastfeeding
  - 2.9.1. Human Milk as a Functional Food
  - 2.9.2. Process of Milk Synthesis and Secretion
  - 2.9.3. Reasons for it to be Encouraged
- 2.10. Human Milk Banks
  - 2.10.1. Milk Bank Operation and Indications





- 2.11. Concept and Characteristics of the Formulae Used in Infant Feeding
- 2.12. The Move to a Diversified Diet. Complementary Feeding During the First Year of Life
- 2.13. Feeding 1–3-Year-Old Children
- 2.14. Feeding During the Stable Growth Phase. Schoolchild Nutrition
- 2.15. Adolescent Nutrition. Nutritional Risk Factors
- 2.16. Child and Adolescent Athlete Nutrition
- 2.17. Other Dietary Patterns for Children and Adolescents. Cultural, Social, and Religious Influences on Infant Nutrition
- 2.18. Prevention of Childhood Nutritional Diseases. Objectives and Guidelines

### Module 3. Artificial Nutrition in Pediatrics

- 3.1. Concept of Nutritional Therapy
  - 3.1.1. Evaluation of Patients in Need of Nutritional Support
  - 3.1.2. Indications
- 3.2. General Information about Enteral and Parenteral Nutrition
- 3.3. Dietary Products Used for Sick Children or Children with Special Needs
- 3.4. Implementing and Monitoring Patients with Nutritional Support
  - 3.4.1. Critical Patients
  - 3.4.2. Patients with Neurological Pathologies
- 3.5. Artificial nutrition at home
- 3.6. Nutritional Supplements to Support the Conventional Diet
- 3.7. Probiotics and prebiotics in infant feeding

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

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 Diploma in Pediatric Nutrition in Medicine guarantees students, in addition to the most accurate 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”*

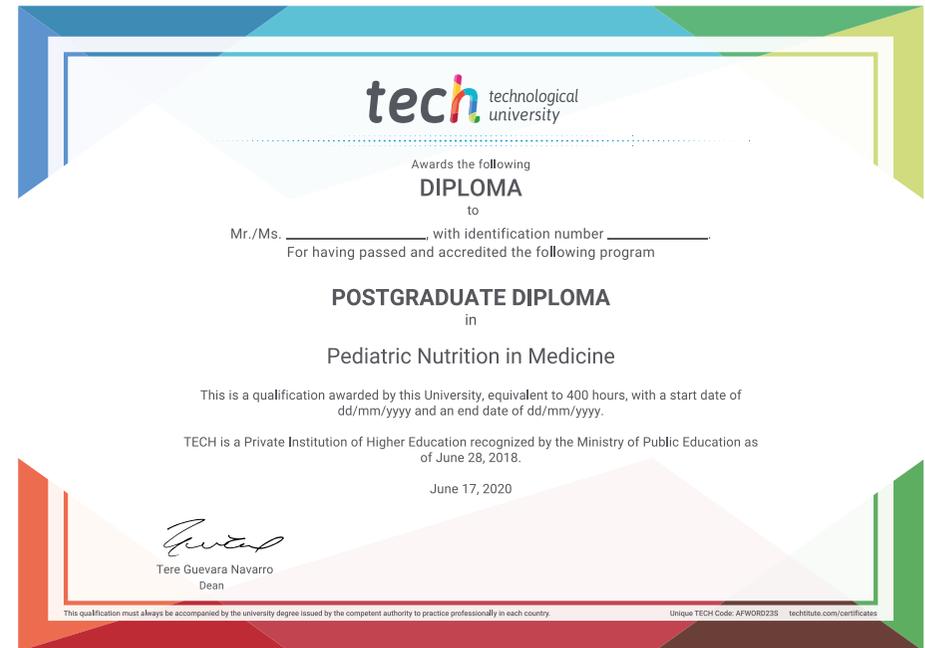
This **Postgraduate Diploma in Pediatric Nutrition in Medicine** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees

Title: **Postgraduate Diploma in Pediatric Nutrition in Medicine**

Official N° of Hours: **400 hours**.



\*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.

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



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