

# Postgraduate Diploma

## Nursing and Care for Children with Solid Neoplasm

Endorsed by:

The background of the slide is a photograph of a young child with light brown hair lying in a hospital bed, looking up at a healthcare professional. The professional is wearing teal scrubs and a white surgical mask. The image is partially obscured by large, diagonal, semi-transparent geometric shapes in shades of teal and white.

**tech** technological  
university



## Postgraduate Diploma Nursing and Care for Children with Solid Neoplasm

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

Website: [www.techtitute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-nursing-care-children-solid-neoplasm](http://www.techtitute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-nursing-care-children-solid-neoplasm)

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# 01

# Introduction

The development of this program in Nursing and Care for Children with Solid Neoplasm arises from the need for specific training in the field of Oncology for nursing professionals and, more specifically, given its particularities, in the field of Pediatric Oncology. The increase in the incidence of the disease, the increase in the casuistry and the impact that this disease has not only on pediatric patients, but also on their families and environment, makes it relevant for professionals in the field of nursing to be perfectly updated with the fundamental techniques and novelties that enable them to carry out their professional duties.





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*This training program will generate a sense of confidence in professional nursing practice in the field of Pediatric Oncology, which will help you grow both personally and professionally”*

Thanks to scientific and technological advances in recent years, there has been a significant increase in the possibilities for treating and curing children and adolescents with oncological diseases. These scientific and therapeutic advances are continuous and require constant specialization and updating from nursing professionals that work in Pediatric Oncohematology units in order to offer quality care to people who require specific and increasingly complex assistance.

Nursing care for pediatric patients with neoplastic pathology and their families is a challenge due to the impact of the disease itself, its evolution, the intensive and specific treatment required, its side effects, and the emotional and social repercussions it has on those it affects.

Pediatric oncology nurses are aware of the need for postgraduate specialization in order to obtain a specific level of competence that will allow them to broaden their clinical training so as to meet the care needs of patients and their families.

The Postgraduate Diploma in Nursing and Caring for Children with Solid Neoplasms that TECH offers is currently the only specific course directed both by and for nurses in the treatment and care of children and adolescents with cancer and their families.

Our teaching team is made up of renowned professionals with extensive experience in international reference units in the treatment and care of childhood cancer.

The Postgraduate Diploma will impart the scientific and technical knowledge as well as the knowledge of comprehensive care so students acquire the skills required to provide care to children with cancer and their families while observing the physical, psychological, emotional, social and spiritual dimensions involved.

This **Postgraduate Diploma in Nursing and Care for Children with Solid Neoplasm** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ More than 75 clinical cases presented by experts in Pediatric Oncology Nursing
- ♦ 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
- ♦ Novelties in care and intervention in Pediatric Oncology
- ♦ It contains practical exercises where the self-evaluation process can be carried out to improve learning
- ♦ Algorithm-based interactive learning system for decision-making in the situations that are presented to the student
- ♦ Its special emphasis on evidence-based medicine and research methodologies in Pediatric Oncology Nursing
- ♦ All of this will be complemented by 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



*Improve your knowledge in Nursing and Caring Children with Solid Neoplasm with this program, where you will find the best teaching material with real clinical cases”*

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*This Postgraduate Diploma is the best investment you can make when selecting a refresher program for two reasons: in addition to updating your knowledge of Nursing and Care for Children with Solid Neoplasm, you will obtain a qualification from TECH University Technological”*

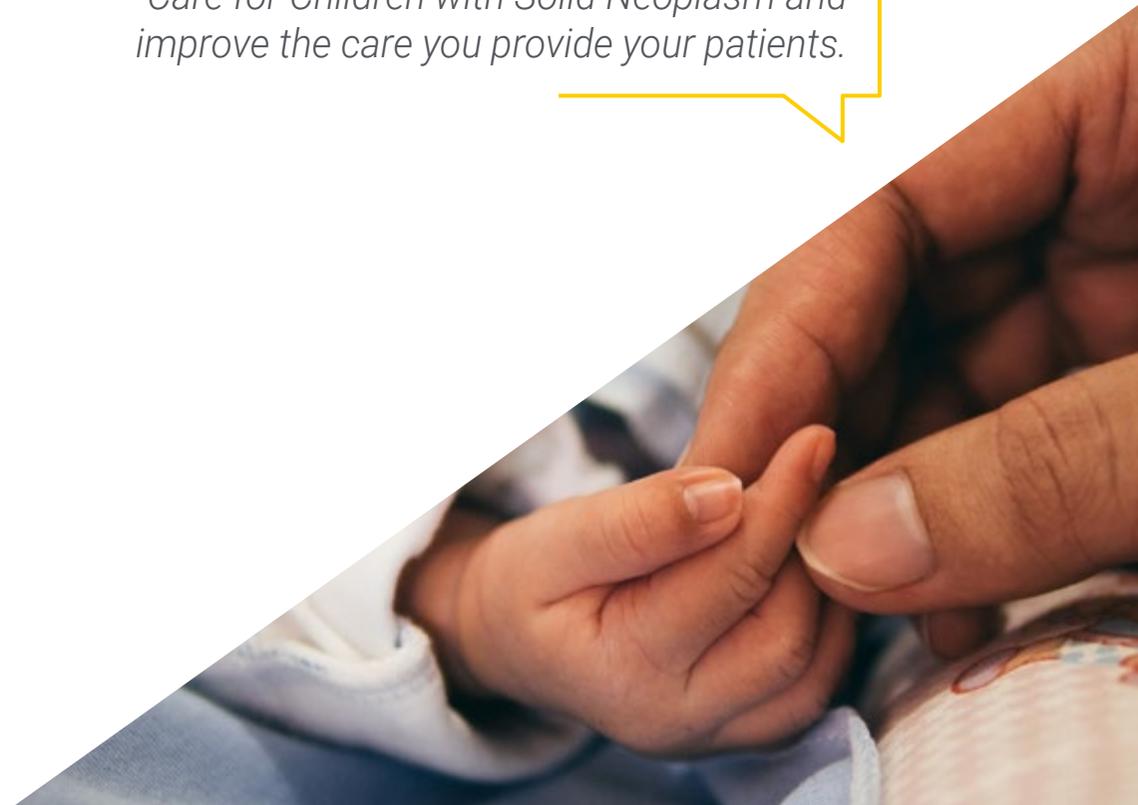
Its teaching staff includes professionals belonging to the field of Nursing and Care for Children with Solid Neoplasm, who bring their work experience to this training program, as well as renowned specialists belonging to leading scientific societies.

Thanks to its multimedia content developed with the latest educational technology, professionals will benefit from situated and contextual learning, namely, a simulated environment that will provide immersive learning programmed to learn in real situations.

The design of the program is based on Problem-Based Learning, by means of which nursing professionals must try to solve the different professional practice situations that arise throughout the course. For this purpose, professionals will be assisted by an innovative, interactive video system developed by recognized experts in the field of Nursing and Care for Children with Solid Neoplasm.

*Increase your decision-making confidence by updating your knowledge with this University Expert course.*

*Make the most of the opportunity to learn about the latest advances in Nursing and Care for Children with Solid Neoplasm and improve the care you provide your patients.*



02

# Objectives

The Postgraduate Diploma in Nursing and Care for Children with Solid Neoplasm is designed to facilitate the performance of nursing professionals in the field of Pediatric Oncology.





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*This Postgraduate Diploma is designed to help you update your knowledge in Nursing and Care for Children with Solid Neoplasm, with the use of the latest educational technology, to contribute with quality and confidence to decision-making, care, treatment and patient support"*



## General Objectives

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- ♦ Gain up-to-date knowledge of Pediatric Oncology
- ♦ Promote work strategies based on a comprehensive approach to tend to Pediatric Oncology patients as a standard model for providing excellent care
- ♦ Encourage the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online simulation workshops and/or specific training
- ♦ Encourage professional stimulation through continuous education and research



*Take the opportunity to learn about the latest advances in this area in order to apply it to your daily practice"*





## Specific Objectives

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### Module 1. Introduction to Pediatric Cancer and Main Treatments

- ♦ Optimize the quality of care for pediatric patients with oncologic pathologies, acquiring a higher qualification
- ♦ Establish standards of excellence in practice

### Module 2. Malignant Oncohematologic Pathology in Pediatrics

- ♦ Know all the symptoms and effects that leukemias and myelodysplastic indromes have in pediatric patients
- ♦ Analyze the anatomophysiological and cognitive differences in children and adolescents with cancer according to their age and degree of maturation

### Module 3. Nursing Care in Pediatric Oncohematology (I)

- ♦ Develop a comprehensive view of the care of children and adolescents with cancer and the care received in hospital
- ♦ Analyze and emphasize the rights of hospitalized children

### Module 4. Multidisciplinary and E-Health Support in Pediatric Oncohematology

- ♦ Acquire the essential competencies to offer comprehensive care for children and adolescents with cancer and their families
- ♦ Present the general context and severity of childhood cancer in society

# 04

# Course Management

The program includes in its teaching staff renowned experts in Nursing and Care for Children with Solid Neoplasm, who contribute their work experience to this training program. Additionally, other recognized specialists participate in the design and preparation, which means the program is developed in an interdisciplinary manner.





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*Learn from leading professionals  
about the latest procedural advances  
in the field of Nursing and Care for  
Children with Solid Neoplasm”*

## Management



### Ms. Coronado Robles, Raquel

- Nurse specialized in Pediatric Nursing
- Pediatric Oncohematology Unit, Vall d'Hebron Hospital, Barcelona
- Associate Professor and Coordinator, Nursing Degree Childhood Mention, Autonomous University of Barcelona (UAB)

## Professors

### Ms. Bonfill Ralló, Marina

- ♦ Psycho-oncologist Pediatric Oncohematology Unit, Vall d'Hebron Barcelona, Hospital Campus

### Ms. Fernández Angulo, Verónica

- ♦ Day Hospital Pediatric Oncohematology Unit, Vall d'Hebron Hospital, Barcelona

### Ms. Hladun Álvaro, Raquel

- ♦ Medical specialist and head of Clinical Trials in the Pediatric Oncohematology Unit, Vall d'Hebron Barcelona, Hospital Campus

### Ms. Muñoz Blanco, María José

- ♦ Supervisor of the Paediatric Intensive Care Unit (PICU) Vall d'Hebron Barcelona, Hospital Campus

### Ortegón Delgadillo, Ramiro

- ♦ Pediatric Oncohematology Unit, Vall d'Hebron Barcelona, Hospital Campus
- ♦ Co-director of SEER (Emotional Health and Education)



**Ms. Rodríguez Gil, Raquel**

- ♦ Pediatric Intensive Care Unit (PICU) Vall d'Hebron Barcelona, Hospital Campus

**Ms. Saló Rovira, Anna**

- ♦ Psycho-oncologist Pediatric Hematology/Oncology Unit, Vall d'Hebron Barcelona, Hospital Campus

**Toro Guzmán, Antonio**

- ♦ Pediatric Hematology/Oncology Unit, Vall d'Hebron Hospital, Barcelona
- ♦ Associate Professor, Degree in Nursing, Autonomous University of Barcelona (UAB)

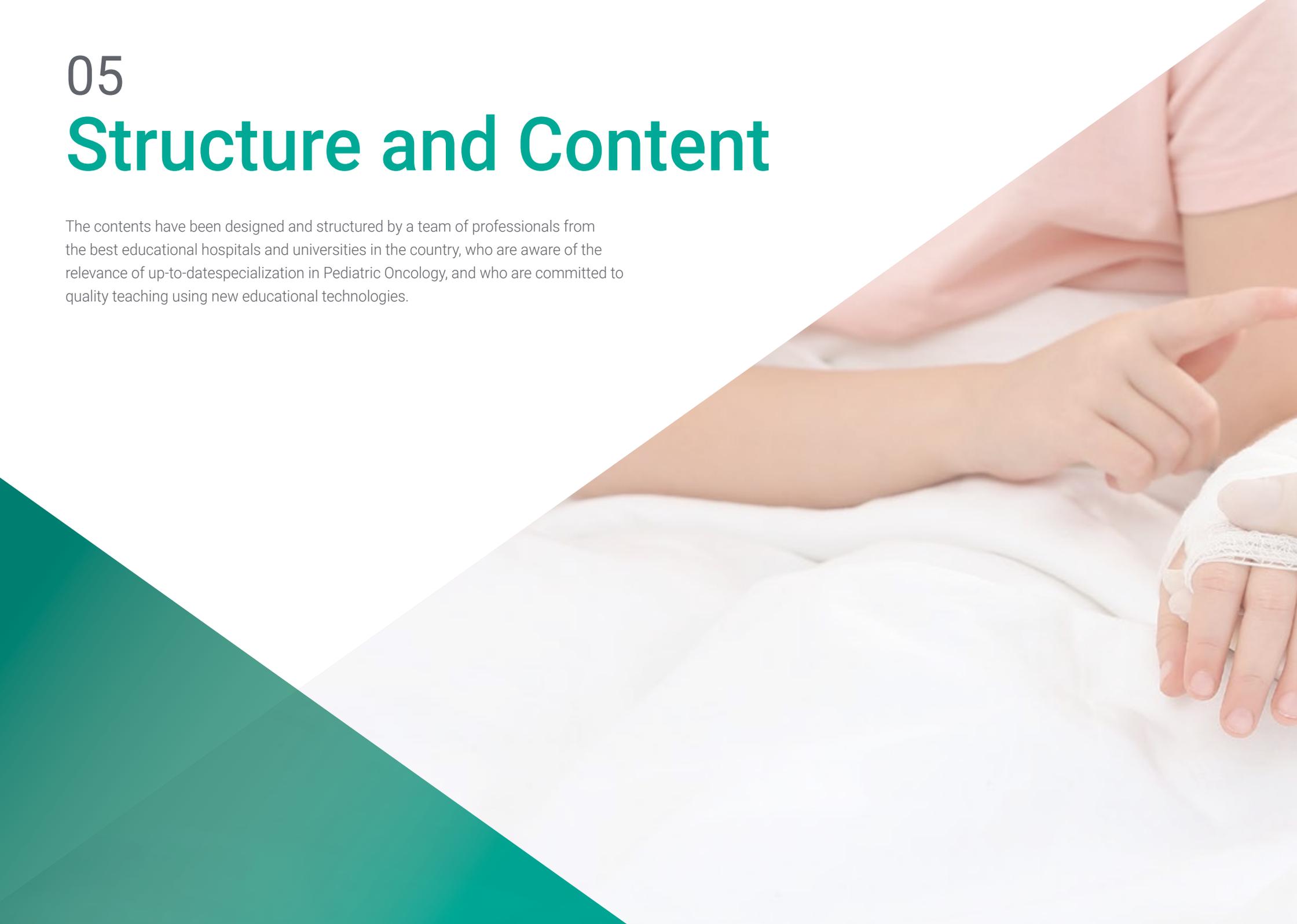
**Ms. Vidal Laliena, Miriam**

- ♦ Biologist PhD. Ph.D cell biology, immunology and neuroscience at IDIBAPS- UB. Clinical Data Manager-Study Coordinator, Pediatric Oncohematology Unit, Vall d'Hebron Barcelona, Hospital Campus, 2016-2017 Current clinical trial monitor in the pharmaceutical industry (contact, support and coordination with hospital units)

05

# Structure and Content

The contents have been designed and structured by a team of professionals from the best educational hospitals and universities in the country, who are aware of the relevance of up-to-date specialization in Pediatric Oncology, and who are committed to quality teaching using new educational technologies.





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*This Postgraduate Diploma in Nursing and Care for Children with Solid Neoplasm contains the most complete and up-to-date scientific program on the market”*

## Module 1. Introduction to Pediatric Cancer and Main Treatments

- 1.1. Children and Cancer
  - 1.1.1. Epidemiology of Pediatric Cancer
    - 1.1.2. Pathophysiology of Pediatric Cancer: Characteristics Shared by Tumor Cells
    - 1.1.3. Aetiology of Pediatric Cancer
    - 1.1.4. Fundamentals of the Hematopoietic System and Blood Cells
    - 1.1.5. Types of Pediatric Cancer
    - 1.1.6. Diagnostic and Follow-Up Procedures in Pediatric Oncohematology
    - 1.1.7. Treatment of Pediatric Cancer
    - 1.1.8. Chemotherapy (I)
    - 1.1.9. Chemotherapy (II)
    - 1.1.10. Late Side Effects of Treatments in Pediatric Cancer Survivors

## Module 2. Malignant Oncohematologic Pathology in Pediatrics

- 2.1. Leukemias and Myelodysplastic Syndromes in Pediatrics
  - 2.1.1. B-Cell Pediatric Acute Lymphoblastic Leukemia
  - 2.1.2. Lymphomas in Pediatrics
  - 2.1.3. CNS Tumors and Miscellaneous Intracranial and Intraspinal Neoplasms in Pediatrics
  - 2.1.4. Neuroblastomas and Other Peripheral Nerve Cell Tumors in Pediatrics
  - 2.1.5. Retinoblastomas in Pediatrics
  - 2.1.6. Renal Tumors in Pediatrics
  - 2.1.7. Hepatic Tumors in Pediatrics
  - 2.1.8. Bone Tumors in Pediatrics
  - 2.1.9. Soft Tissue Sarcomas and Other Extrasosseous Sarcomas in Pediatrics
  - 2.1.10. Other Malignant and Unspecified Neoplasms in Pediatrics



**Module 3. Nursing Care in Pediatric Oncohematology (I)**

- 3.1. Patient Safety in Unit Nursing Care
  - 3.1.1. Safety in the Pediatric Oncology Unit
  - 3.1.2. Nursing Care at the Onset
  - 3.1.3. Nursing Care for Performing Diagnostic Tests
  - 3.1.4. Nursing Care: Venous Catheters (I)
  - 3.1.5. Nursing Care: Venous Catheters (II) Subcutaneous Reservoir
  - 3.1.6. Nursing Care in the Administration of Antineoplastic Medication
  - 3.1.7. Nursing Care in the Intravenous Administration of Antineoplastic Medication
  - 3.1.8. Nursing Care in the Administration of Supportive Care Medication
  - 3.1.9. Transfusion Support in Pediatric Oncohematology

**Module 4. Multidisciplinary and eHealth Support in Pediatric Oncohematology**

- 4.1. Psychological Support for Children during the Process of Living with Cancer
- 4.2. Psychological Support for Adolescents during the Process of Living with Cancer
- 4.3. Psychological Support Needs of Children and Adolescents Undergoing Hematopoietic Stem Cell Transplantation and Their Families
- 4.4. Educational Support for Children and Adolescents with Cancer
- 4.5. Social Worker Support in Pediatric Oncology
- 4.6. Parents of Children with Cancer Associations and Other Non-Profit Organizations
- 4.7. Volunteering in Pediatric Oncohematology Units
- 4.8. Pediatric Cancer and Society
- 4.9. Use of Information and Communication Technologies (ICT) in Children and Adolescents with Cancer
- 4.10. Use of Information and Communication Technologies (ICTs and eHealth) for Parents of Children and Adolescents with Cancer
- 4.11. Nursing Professionals, ICT and eHealth

06

# 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 Nursing School we use the Case Method

In a given situation, what should a professional do? 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. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, 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, in an attempt to recreate the real conditions in professional nursing 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. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



*The nurse will learn through real cases and by solving 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 we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. 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 really 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.



### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, 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 them as many times as you want.



### Interactive Summaries

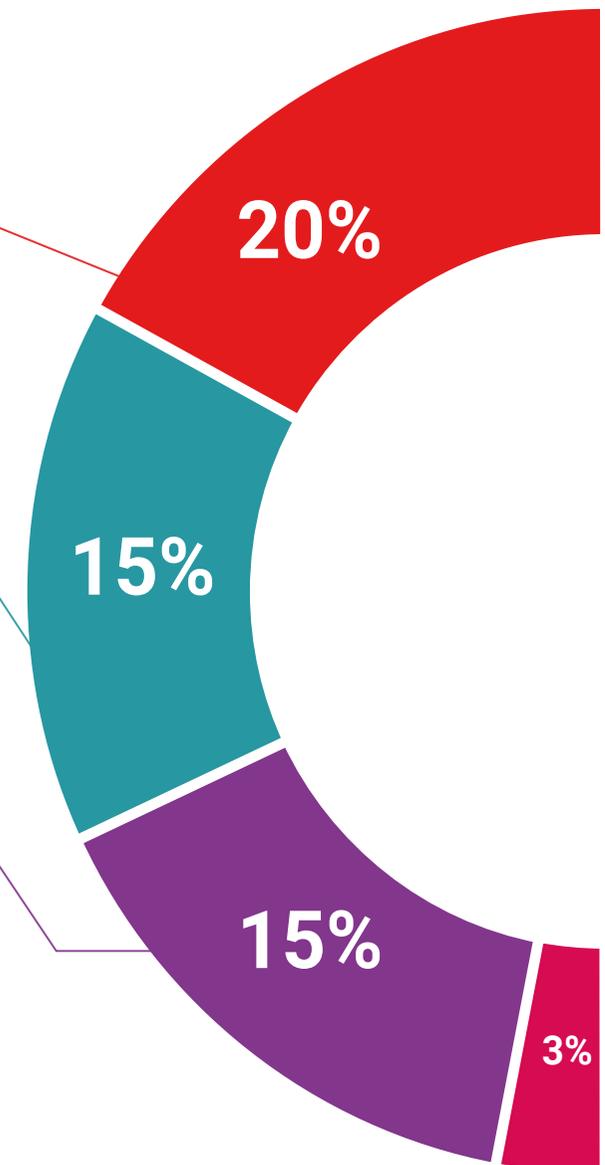
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 suggesting that observing third-party experts can be useful.

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 the Nursing and Care for Children with Solid Neoplasm 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 **Postgraduate Diploma in Nursing and Care for Children with Solid Neoplasm** 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 Nursing and Care for Children with Solid Neoplasm**

Official N° of hours: **475 h.**

Endorsed by: Spanish Society of Oncology Nursing



\*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  
online training  
development language  
classroom



## Postgraduate Diploma Nursing and Care for Children with Solid Neoplasm

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

# Postgraduate Diploma Nursing and Caring for Children with Solid Neoplasm

Endorsed by:

