

# Postgraduate Diploma Nursing and Care for Children with Leukemia

Endorsed by:

A photograph of a young boy with brown hair and freckles, wearing a light blue hospital gown, lying in a hospital bed. He is looking upwards and to the right. An older woman's hands are gently holding his hands. The image is partially obscured by a diagonal white line and a colorful geometric border at the top and bottom.

**tech** technological  
university



## Postgraduate Diploma Nursing and Care for Children with Leukemia

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

Website: [www.techitute.com/pk/nursing/postgraduate-diploma/postgraduate-diploma-nursing-care-children-leukemia](http://www.techitute.com/pk/nursing/postgraduate-diploma/postgraduate-diploma-nursing-care-children-leukemia)

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# 01

# Introduction

The development of this academic program in Nursing and Care for Children with Leukemia arises from nursing professionals' need for specific training in the field of Oncology and, more specifically, given its particularities, in the field of Childhood Leukemia. The increase in the incidence of the disease, the increase in the effect 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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*We offer you the most complete specialization in Nursing for children with leukemia. This knowledge is essential to offer patients and their families highly professionalized comprehensive care"*



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 Nursing professionals are aware of the need for postgraduate specialization to obtain a specific level of competence, which allows them to broaden their clinical care education, in order to respond to the care needs of patients and their families.

The Postgraduate Diploma in Nursing and Care for Children with Leukemia that TECH offers is currently the only specific course directed 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 covers scientific and technical knowledge as well as 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 Leukemia** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ The latest technology in online teaching software
- ♦ A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- ♦ Practical cases presented by practising experts
- ♦ State-of-the-art interactive video systems
- ♦ Teaching supported by telepractice
- ♦ Continuous updating and recycling systems
- ♦ Autonomous learning: full compatibility with other occupations
- ♦ Practical exercises for self-evaluation and learning verification
- ♦ Support groups and educational synergies: questions to the expert, debate and knowledge forums
- ♦ Communication with the teacher and individual reflection work
- ♦ Content that is available from any fixed or portable device with an Internet connection
- ♦ Supplementary documentation databases are permanently available, even after the course



*A great opportunity to learn and incorporate into your daily practice the new scientific and therapeutic systems and protocols, in a convenient and totally accessible way, even for active professionals”*

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*Intensively update on the practical strategies for the management of oncological diseases through a learning process designed to be applied to practice from the very beginning"*

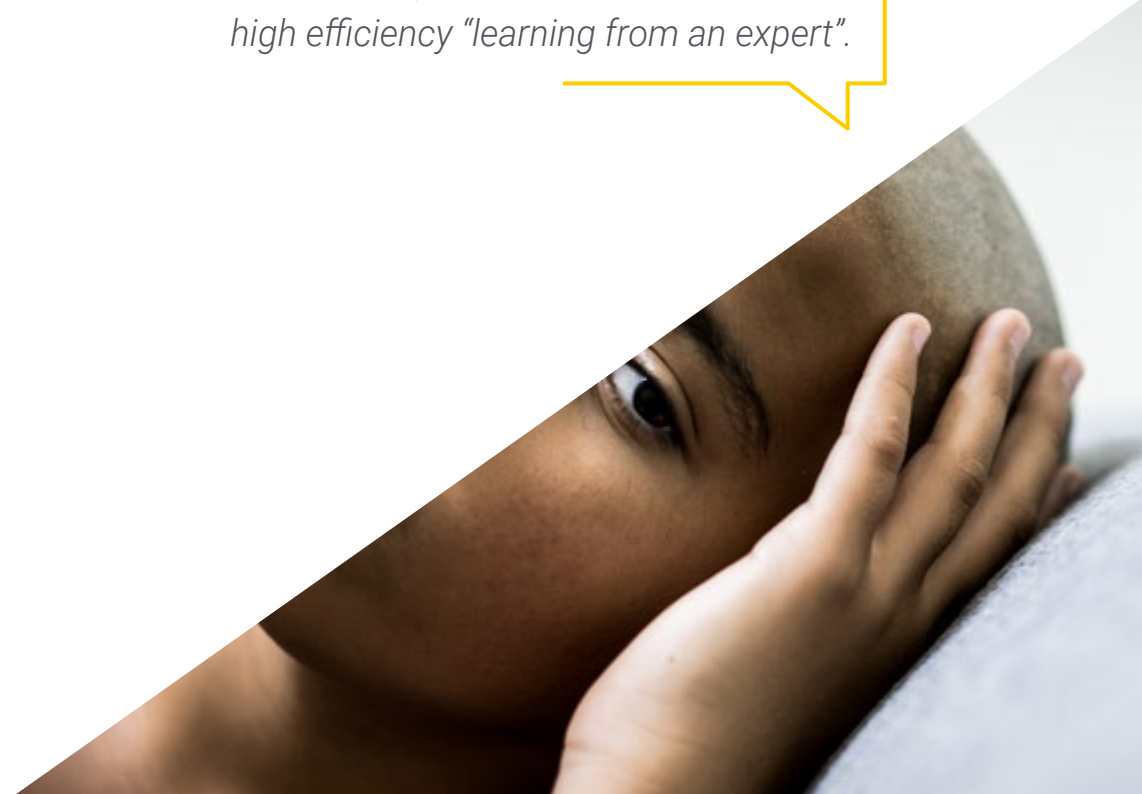
Our teaching staff is made up of working professionals. In this way, TECH makes sure to offer the training update objective it intends. A multidisciplinary team of experts who are trained and experienced in different environments, who will develop the theoretical knowledge in an efficient way, but, above all, who will bring their practical knowledge derived from their own experience to the course: one of the differential qualities of this Postgraduate Diploma.

This mastery of the subject is complemented by the effectiveness of the methodological design of this Postgraduate Diploma. Developed by a team of e-learning experts, it integrates the latest advances in educational technology. In this way, professionals will be able to study with a range of convenient and versatile multimedia tools that will give them the operability they need during the program.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, TECH will use telepractice: with the help of an innovative, interactive video system, and Learning from an Expert, students will be able to acquire the knowledge as if they were facing the case they are learning in real time. A concept that will allow students to integrate and memorize what they have learnt in a more realistic and permanent way.

*The most outstanding aspect of our educational formula is the possibility of hands-on learning, even while learning remotely: a challenge that we have achieved and that provides our students with the best results.*

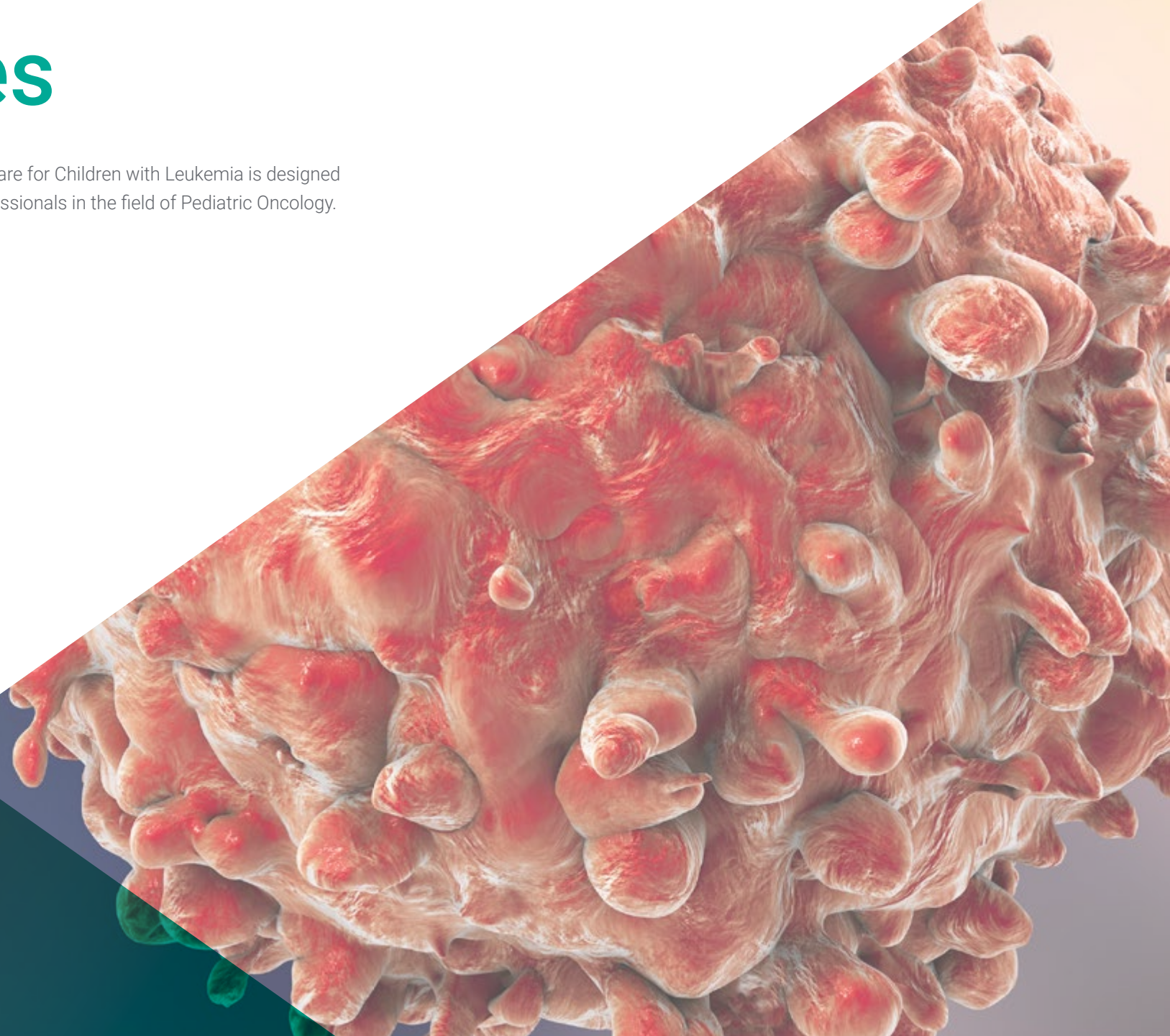
*Observing an expert in the process of performing a task triggers brain mechanisms similar to those activated when performing the same activity: this is the principle behind high efficiency "learning from an expert".*



02

# Objectives

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







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*Our goal is yours: To provide you with the best online training and specialization course in Nursing and Care for Children with Leukemia on the market. A highly qualified step, from the hands of the best professionals in this specialty”*



## General Objectives

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- ♦ Gain up-to-date knowledge of Pediatric Oncology
- ♦ Promote work strategies based on a comprehensive approach to treating 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 offer the possibility to develop through online simulation workshops and/or specific training
- ♦ Encourage professional stimulation through continuing education and research

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





## 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. 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 3. Nursing Care in Pediatric Oncohematology (II)

- ♦ Develop a deeper comprehensive view of the care of children and adolescents with cancer and the care received at home
- ♦ Know the fundamental elements in the organization of pediatric oncohematology units and services

### Module 4. Hematopoietic Progenitor Transplantation in Pediatrics

- ♦ Gain practical knowledge of all the steps in the care of Hematopoietic transplant patients

### Module 5. 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 Care for Children with Leukemia, who contribute their work experience to this 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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*An impressive teaching staff, made up of professionals from different areas of expertise, will be your teachers during your training: a unique opportunity not to be missed”*

## 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 included in the program have been created by establishing an exhaustive overview of each and every one of the essential topics to master nursing practice in the field of pediatric oncology. With a sequential process that will take students through the topics to constantly acquire new knowledge, this program will become an incredible leap toward being highly competitive in the speciality.





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*A complete teaching program, structured in clear and concrete units that will take you through a learning process created to be perfectly compatible with your personal and professional life"*

## 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. Nursing Care in Pediatric Oncohematology (I)

- 2.1. Patient Safety in Unit Nursing Care
  - 2.1.1. Safety in the Pediatric Oncology Unit
  - 2.1.2. Nursing Care at the Onset
  - 2.1.3. Nursing Care for Performing Diagnostic Tests
  - 2.1.4. Nursing Care: Venous Catheters (I)
  - 2.1.5. Nursing Care: Venous Catheters (II) Subcutaneous Reservoir
  - 2.1.6. Nursing Care in the Administration of Antineoplastic Medication
  - 2.1.7. Nursing Care in the Intravenous Administration of Antineoplastic Medication
  - 2.1.8. Nursing Care in the Administration of Supportive Care Medication
  - 2.1.9. Transfusion Support in Pediatric Oncohematology



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

- 3.1. The Importance of Observation and Active Nursing Listening in Pediatric Oncohematology
  - 3.1.1. The Importance of Nursing Assessments in Pediatric Oncohematology
  - 3.1.2. Most Common Nursing Diagnoses in Pediatric Oncohematology
  - 3.1.3. Nursing Care in Symptom Control in Pediatric Oncohematology
  - 3.1.4. Pain Management and Care in Pediatric Oncohematology
  - 3.1.5. Skin Care in Pediatric Oncohematology
  - 3.1.6. Nutrition in Children and Adolescents with Cancer
  - 3.1.7. When Is the Response to Treatment Inadequate?
  - 3.1.8. Carefully Care for Children/Adolescents with Cancer and Their Family
  - 3.1.9. Research in Pediatric Oncohematology Care

**Module 4. Hematopoietic Progenitor Transplantation in Pediatrics**

- 4.1. Introduction to Hematopoietic Progenitor Transplantation
  - 4.1.1. Indications for Hematopoietic Progenitor Transplantation (HPT) in Pediatrics
  - 4.1.2. From Donation to Infusion of Hematopoietic Progenitors
  - 4.1.3. Nursing Care in HPT Conditioning
  - 4.1.4. Nursing Care during HP Infusion
  - 4.1.5. Nursing Care: Medullary Aplasia Phase
  - 4.1.6. Medium-Term Post HPT Nursing Care
  - 4.1.7. Follow-Up HPT Nursing Consultation
  - 4.1.8. New Therapies for Treating Complications after HPT

**Module 5. Multidisciplinary and eHealth Support in Pediatric Oncohematology**

- 5.1. Psychological Support for Children during the Process of Living with Cancer
- 5.2. Psychological Support for Adolescents during the Process of Living with Cancer
- 5.3. Psychological Support Needs of Children and Adolescents Undergoing Hematopoietic Stem Cell Transplantation and Their Families
- 5.4. Educational Support for Children and Adolescents with Cancer
- 5.5. Social Worker Support in Pediatric Oncology
- 5.6. Parents of Children with Cancer Associations and Other Non-Profit Organizations
- 5.7. Volunteering in Pediatric Oncohematology Units
- 5.8. Pediatric Cancer and Society
- 5.9. Use of Information and Communication Technologies (ICT) in Children and Adolescents with Cancer
- 5.10. Use of Information and Communication Technologies (ICTs and eHealth) for Parents of Children and Adolescents with Cancer
- 5.11. Nursing Professionals, ICT and eHealth



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

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 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. 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, 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

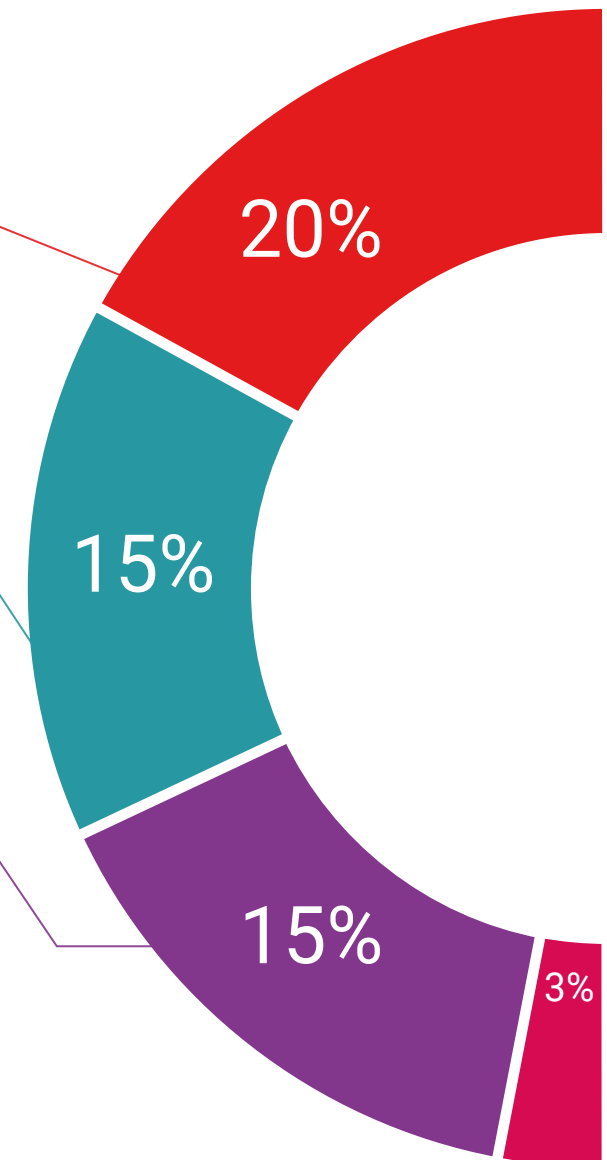
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

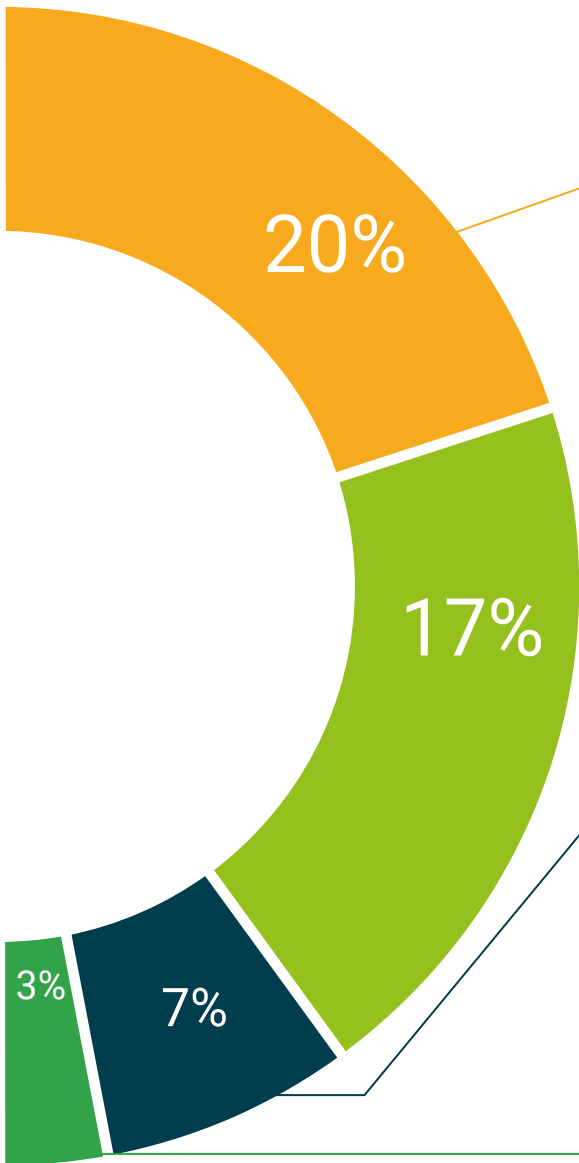
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### 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 Nursing Care for Children with Leukemia 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 Leukemia** 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 certificate 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 Leukemia**

Official N° of Hours: **625 h.**

Endorsed by: **Spanish Society of Oncology Nursing**



\*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 language  
classroom



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