

# Postgraduate Certificate Critical Care in the Pediatric Patient

Endorsed by:





## Postgraduate Certificate

### Critical Care in the Pediatric Patient

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-certificate/critical-care-pediatric-patient](http://www.techtute.com/us/nursing/postgraduate-certificate/critical-care-pediatric-patient)

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# 01

# Introduction

Children, given their physical and personality characteristics, require different health care than adults. In this way, the nurse is obliged to know the updated and particular techniques of assessment of the child or the leading strategies of non-invasive mechanical ventilation, in order to provide cutting-edge care to their pediatric patients. For this reason, TECH has created this program, through which the student will delve in depth into the methods of needs assessment or sophisticated postoperative care required by the youngest. All this, without the need to neglect their professional and personal obligations, since this program is taught through a 100% online mode.







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*With this program, you will delve into the updated care required by the small patient who has undergone a highly complex surgical intervention"*

Dealing with pediatric patients is a huge challenge for nurses working in the Intensive Care Unit, since children require special attention to ensure their optimal quality of life in certain situations. In this line, it is necessary to know the most effective and updated methods to undertake the management of pain, as well as the techniques to ensure their appropriate postoperative care in the most severe cases. Thanks to these mechanisms, it is possible to take excellent care of the physical integrity of the youngest patients. Consequently, identifying them in depth is essential for nurses who wish to position themselves at the forefront of healthcare.

Faced with this situation, TECH has designed this program, which allows students to perfect and update their knowledge regarding Critical Care in the Pediatric Patient. During 6 weeks of intensive learning, you will identify the pediatric assessment scales or delve into the sophisticated strategies for airway management and ventilation. In addition, you will learn the techniques required by the patient in the most critical states and assimilate the methods to address pain with maximum effectiveness.

Thanks to the fact that this program is developed through a completely online modality, the professional will achieve an effective teaching through the management of their own study schedules. In the same way, they will benefit from didactic resources available in formats such as explanatory videos, complementary readings or interactive summaries. Because of that, the student will have the possibility to learn in a pleasant and effective way, adapted to his academic needs.

This **Postgraduate Certificate in Critical Care in the Pediatric Patient** contains the Scientific most complete and updated program on the market. The most important features of the program include:

- ◆ The development of practical cases presented by experts in Intensive Care 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
- ◆ Practical exercises where self-assessment can be used to improve learning
- ◆ Its special emphasis on innovative methodologies
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*Detect state-of-the-art techniques for airway management and ventilation through this Postgraduate Certificate"*

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*Get updated on Critical Care in the Pediatric Patient with the best study facilities in the pedagogical environment"*

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

Its multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*Thanks to the 100% online modality of this program, you will be able to study at any time and from any place you wish.*

*Learn about the most up-to-date strategies for assessing the needs of pediatric patients throughout this academic pathway.*





# 02

# Objectives

The design of this Postgraduate Certificate has been carried out with the idea in mind to provide an exquisite update to the nurse in the field of Critical Care in the Pediatric Patient. Throughout this academic experience, you will be able to adapt Nursing care to the needs of the critically ill child or to deepen the state-of-the-art techniques for pain management in children. This learning will be guaranteed through the achievement of the following general and specific objectives.







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*Be able to learn about cutting-edge strategies for pain management in the pediatric patient through this program”*



## General Objectives

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- ◆ Update the necessary knowledge in the nursing care of critical patients, in order to increase the quality and safety of nursing practice in the Intensive Care Unit
- ◆ Acquire the necessary skills to provide comprehensive care to the critical patient with criteria of speed, efficiency and quality
- ◆ Review the fundamental principles of critical care nursing





## Specific Objectives

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- ◆ Recognize the most frequent pediatric and adult pathological processes in the Intensive Care Unit
- ◆ Adequate nursing care for the pediatric critical patient
- ◆ Perform the nursing role in a basic and/or advanced life support situation according to the latest European Resuscitation Council recommendations



*Delve into the latest scientific evidence on Critical Care in the Pediatric Patient in just 6 weeks"*



03

# Course Management

Thanks to TECH's untiring commitment to provide the highest academic level to all its programs, leading nurses in the field of Critical Care have been appointed to direct and teach this program. These experts have extensive health care experience in prestigious hospitals. Therefore, the knowledge they will provide to the students will be supported by their own professional experience.







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*The guest director of this program has been the head of the Critical Care Unit of prestigious hospitals”*

## International Guest Director

Dr. Anselmo Caricato is a distinguished Italian physician and academic with a prestigious career in the field of Anesthesiology and Intensive Care. Throughout his career, this expert has continuously participated in research projects together with specialists from different European countries and scientific institutions. As a result, he has become a true reference in the management of traumatic injuries and other critical neurological conditions.

Among other lines of work, he has collaborated with several clinical trials, such as the Eurotherm 3235 Trial and with the European Brain Injury Consortium. He has also analyzed the efficacy and safety of several innovative treatments to further the study of neurological contusions.

His results have been widely endorsed by the most prestigious scientific publications. Proof of this are the more than 60 peer-reviewed articles that have been published in high impact global journals such as Stroke, Critical Care Medicine, International Journal of Critical Illness and Injury Science, Neurological Research, and many others. At the same time, he is listed as a member of the Editorial Board of the World Journal of Critical Care Medicine and the Austin Journal of Emergency and Critical Care Medicine.

As for his professional career, this expert, who obtained his degree in Medicine and Surgery at the Catholic University of the Sacred Heart in Rome, has been linked to the "A. Gemelli" University Hospital. From that institution he headed the Trauma Intensive Care Unit in the Emergency Department for several years.

He has also collaborated as an Intensive Care physician in the Vatican City. On the other hand, in parallel to his healthcare work, this specialist has held active academic functions, mainly in conjunction with his alma mater. Based on his distinguished career, he has been selected as Director of the American Trauma Life Support Program at the "A. Gemelli" University Hospital.



## Dr. Caricato, Anselmo

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- Chief of Neurosurgical Intensive Care at A. Gemelli University Hospital, Rome, Italy
- Intensive Care Physician in Vatican City, Italy
- Director of the ATLS (American Trauma Life Support) Program at "A. Gemelli" University Hospital, Rome, Italy
- Academic of the Faculty of Medicine and Surgery of the Catholic University of the Sacred Heart
- Reviewer and contributor to the Editorial Board of the World Journal of Critical Care Medicine and Austin Journal of Emergency and Critical Care Medicine
- Member of: Italian Society of Anesthesia, Analgesia, Resuscitation and Intensive Care Medicine, Neuroanesthesia and Neurointensive Care Study Coordination Group, Neuroanesthesia and Neurointensive Care Group

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

## Guest Director



### Ms. Díez Sáenz, Cristina

- ♦ Head Nurse of the Adult Intensive Care Unit at Gregorio Marañón General University Hospital
- ♦ Nursing supervisor at Gregorio Marañón ICU
- ♦ Nurse Assistant in different hospitalization areas in different health centers and hospitals
- ♦ Participation as collaborating researcher in the multicenter project "National validation of the scale of satisfaction with nursing care from the perspective of the critically ill patient"

## Management



### Ms. Lospitao Gómez, Sara

- ♦ Intensive Care and Interventional Cardiology at University Hospital of Fuenlabrada (UHF)
- ♦ Nurse Cardiac Surgery Post-Surgical Intensive Care Unit PCU 12 de Octubre Hospital
- ♦ Coronary Intensive Care Unit Nurse. 12 de Octubre Hospital
- ♦ Nurse of the Interventional Cardiology Unit (Hemodynamics, EEF and Implants)
- ♦ PR Manager of #TEAyudamos and Member of the group #JuntosxElCáncer
- ♦ Instructor for SVA by the National CPR Plan of SEMICYUC
- ♦ Member of: Care Sub-Commission (HUF), Welfare Commission (HUF), Secretary of the Ulcers and Wounds Working Group (HUF)





## Professors

### Ms. Álvarez Carrascal, Inmaculada

- ◆ Nurse referent of Security in ICU of the Gregorio Marañón General University Hospital
- ◆ Instrumentalist nurse in the operating room of Churchill Hospital
- ◆ Nurse assistant in various hospital and health center services in the Andalusian Health Service
- ◆ Diploma in Nursing from the University of Seville
- ◆ Expert in and Intensive Care from the Complutense University of Madrid

### González Palacios, Rubén

- ◆ Attending Nurse in the Internal Medicine Unit of the 12 de Octubre General University Hospital
- ◆ Nurse assistant in different Primary Care centers in the Community of Madrid
- ◆ Developer of the mobile application "Compatibility drugs" for intravenous compatibility of drugs

### Dr. Ruiz Henestrosa Campos, Manuel Jesús

- ◆ Nurse Assistant in GUH Gregorio Marañón Hospital
- ◆ Nurse Assistant in GUH Puerta del Mar de Cadiz
- ◆ Associate Professor Practicum III of Nursing
- ◆ Collaborating teacher at the International School of Health Sciences
- ◆ Nebrija University Collaborating Professor
- ◆ Esforem Collaborating Teacher
- ◆ Diploma in Nursing

# 04

# Structure and Content

The syllabus of this program has been elaborated with the objective of favoring the update of the nurse in Critical Care in the Pediatric Patient. Each one of its topics has didactic resources available in supports such as complementary readings, explanatory video or self-assessment exercises. As a result, and by means of a 100% online modality, the student will acquire a completely enjoyable, decisive and individualized teaching.



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*This Postgraduate Certificate has a 100% online mode that will allow you to combine your professional and personal tasks with your learning"*



## Module 1. Critical Care in the Pediatric Patient

- 1.1. Most Common Disorders in Newborns
- 1.2. Polytraumatized Children
- 1.3. Needs Assessment and Pediatric Rating Scales
- 1.4. Pediatric Assessment Triangle
- 1.5. Airway and Ventilatory Management for Critically Ill Pediatric Patients
- 1.6. Nursing Techniques for Critically Ill Pediatric Patients
- 1.7. Pediatric Postoperative Care.
- 1.8. Pediatric Pain
- 1.9. Care for Premature Infants
- 1.10. End of Life Care







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*Enroll in this program and enjoy didactic content in a variety of multimedia formats, choosing the one that best suits your study preferences”*

# 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. 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

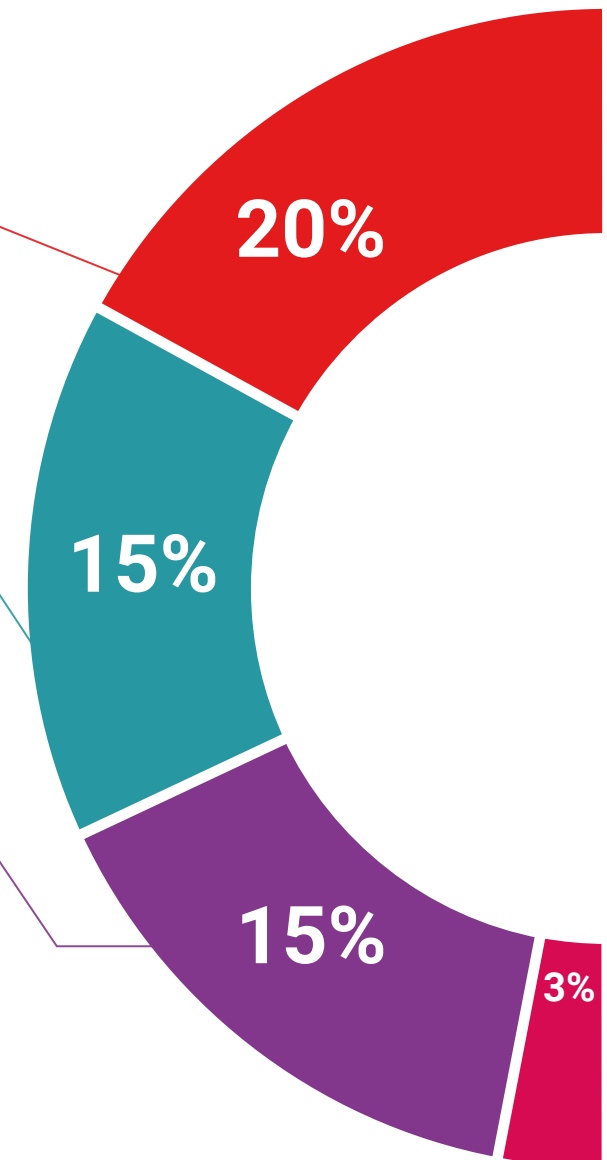
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

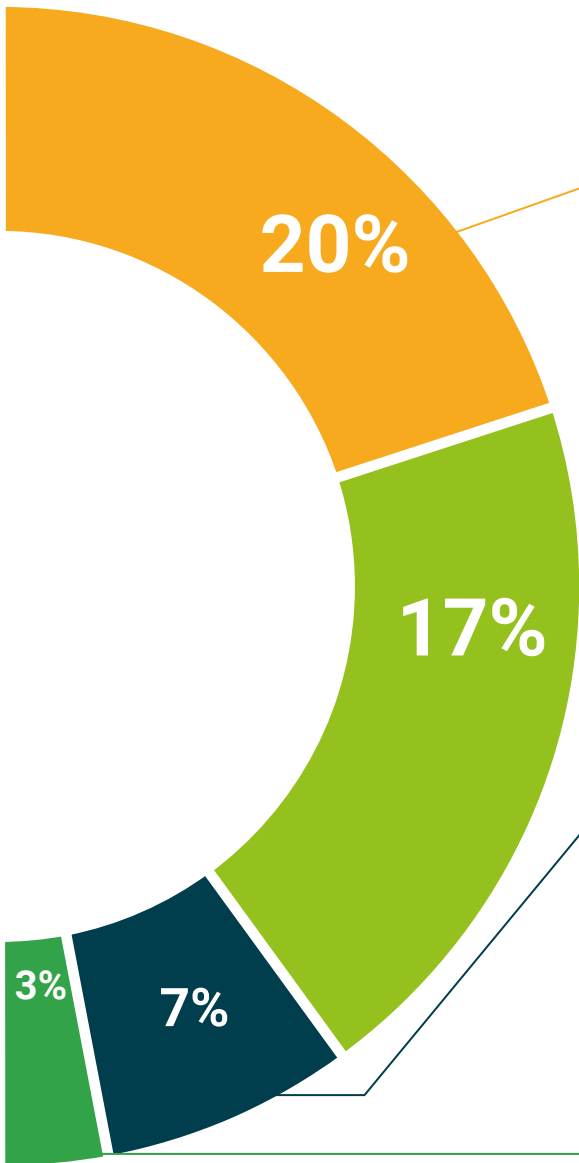


### Additional Reading

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 Certificate in Critical Care in the Pediatric Patient guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in Critical Care in the Pediatric Patient** 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** title 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 Certificate in Critical Care in the Pediatric Patient**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.





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