



## Postgraduate Certificate

Respiratory Therapy for Pediatric Patients in Nursing

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 4 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nursing/postgraduate-certificate/respiratory-therapy-pediatric-patients-nursing

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06 Certificate





### tech 06 | Introduction

Patients undergoing respiratory treatment require proper care and therapeutic attention; when correctly applied, such practices empower patients and facilitate individualized care. Nurses are responsible for a large percentage of the success obtained when solving medical problems.

As this is a program provided entirely online, students can organize their own time and adapt the pace of learning to their own schedule. The contents of this Postgraduate Certificate can be accessed from any computer or mobile device and be consulted at any time, as long as students have an internet connection or have previously downloaded them onto their computer.

The contents of this Postgraduate Certificate can be accessed from any computer or mobile device and be consulted at any time, as long as students have an internet connection or have previously downloaded them onto their computer.

This Postgraduate Certificate in Respiratory Therapy for Pediatric Patients in Nursing contains the most complete and up to date scientific program on the market. Its most important features include:

- Development of clinical cases presented by experts in related, multidisciplinary areas
- Graphic, schematic, and practical contents created in order to provide scientific and practical information on those disciplines that are essential for professional practice
- New developments in Respiratory Therapy for Pediatric Patients in Nursing
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Special emphasis on evidence-based nursing and research methodologies in Respiratory Therapy for Pediatric Patients in 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





This program is the best investment you can make in selecting a refresher program, for two reasons: in addition to updating your knowledge of Respiratory Therapy for Pediatric Patients in Nursing, you will earn a Postgraduate Certificate from TECH Global University"

Its teaching staff includes health professionals in the field of Respiratory Therapy for Pediatric Patients in Nursing, who bring the experience of their work to this program, in addition to recognized specialists belonging to leading scientific societies.

Its multimedia content, developed with the latest educational technology, will provide the professional with situational and contextual learning, i.e., a simulated environment that will provide immersive training for 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 course. This will be done with the help of an innovative interactive video system developed by renowned experts in the field of nephrology with extensive teaching experience.

Increase your decision-making confidence by bringing your knowledge up to date through this Postgraduate Certificate in Respiratory Therapy for Pediatric Patients in Nursing.

Don't miss out on the opportunity to update your knowledge in Respiratory Therapy for Pediatric Patients in Nursing, and improve your patient care.



# 02 Objectives

The main objective of the program is to develop theoretical and practical learning, so that nurses can achieve practical and rigorous mastery of Respiratory Therapy for Pediatric Patients in Nursing through specialized studies.



### tech 10 | Objectives



### **General Objectives**

- Acquire up to date knowledge of existing respiratory therapies in which nursing staff is involved
- Promote strategies to provide individualized quality care for respiratory patients and to serve as a basis for achieving excellence in care
- Provide technical skills in respiratory therapies through audiovisual means and the presentation of quality clinical cases
- Encourage professional stimulation through specialized continuing education and research







### **Specific Objectives**

- Gain in depth knowledge of anatomo-physiological characteristics in pediatric patients
- Know the different respiratory pathologies that pediatric patients may present
- Explain the correct method for applying respiratory therapies in pediatric patients
- Know the different supportive therapies that pediatric patients may need in conjunction with other therapies
- Describe the various devices for monitoring vital signs in pediatric patients



Make the most of this opportunity and get up to date on the latest developments in Respiratory Therapy for Pediatric Patients in Nursing"







### tech 14 | Course Management

#### **Guest Director**



### Dr. Amado Canillas, Javier

- Nursing Supervisor at 12 de Octubre H. Hospitalization of Pneumology Endocrinology and Rheumatology
- Associate Professor of Health Sciences at the Complutense University of Madrid: Associate Clinician of Medical-Surgical Nursing
- Evaluator of teaching activities for the Technical Secretariat of the Directorate General of Planning, Research and Training of the Community of Madrid
- PhD Outstanding Cum Laude, Complutense University of Madrid, 2014
- Degree in Nursing and Master's Degree in Research in Care from the Complutense University of Madrid
- Bachelor's Degree in Computer Science IT, Complutense University
- Currently studying a PhD in Audiovisual Communication at the Complutense University
- More than 10,000 accredited teaching hours as a professor of specialized care for different organizations, in particular the Nursing College of Madrid and FUDEN

**Co-Direction** 



### Ms. Santamarina López, Ana

- Nurse with extensive experience in home respiratory therapy
- Graduate in Nurses Medicine from the University of Leon, Spain
- Postgraduate Diploma in Digital Teaching in Nursing, CEU Cardenal Herrera University
- Master's Degree in Research in Dental Sciences, (University of León)

### **Professors**

### Ms. Castaño Menéndez, Alba

- UCRI (Intermediate Respiratory Care Unit) at 12 Octubre University Hospital
- · Bachelor's Degree in Nursing, Complutense Univeristy, Madrid
- Postgraduate Diploma in Respiratory Patient Care of FUDEN Graduate School of Postgraduate Studies
- Nurse in home respiratory therapies, MMNI, MMI Completing TRD at the 12 de Octubre University Hospital
- Emergency Department and Internal Medicine at San Carlos Clinical University Hospital

#### Ms. Almeida Calderero, Cristina

- Pneumology, Endocrine and Rheumatology Service, 12 de Octubre University Hospital, Madrid
- University Diploma in Nursing University of Salamanca
- University Diploma in Occupational Therapy University of Salamanca
- Collaborator of the Faculty of Nursing, Physiotherapy and Podiatry at the Complutense University of Madrid
- Pediatric Surgical Unit Gregorio Marañón Maternity Hospital, Madrid
- Intensive Care Unit. Clinical University Hospital Salamanca
- Surgical Resuscitation Unit Clinical University Hospital Salamanca
- Nurse in Primary Care in Health Center in Salamanca

### Ms. De Prado de Cima, Silvia

- Graduate in Physiotherapy from the University of Valladolid, Spain
- Master's Degree in Thoracic Physiotherapy by Gimbernat and Tomás Cerdà University (Campus Sant Cugat)
- Physiotherapist in home respiratory therapies

### Ms. García Vañes, Cristina

- Graduate in Nurses Medicine from the University of Cantabria, Spain
- Nurse in home respiratory therapies

#### Ms. Rojo Rojo, Angélica

- Graduate in Nurses Medicine from the University of Valladolid, Spain
- Postgraduate Diploma in Nursing in the Integral Care of Respiratory Patients
- Nurse in home respiratory therapies

#### Mr. Amado Durán, Alfredo

- Diploma in Physiotherapy from European University
- Móstoles Hospital, Madrid Clinical training: cervical spine treatment
- Traditional Thai Massage Training at Wat Po School of Traditional Medicine Bangkok, Thailand
- Degree in Nursing from European University
- Master's Degree in Osteopathy, Belgian College of Osteopathy, FBO First, Structural
- Consultations in Chembenyoumba, Mayotte
- · Consultations en Sainte Suzanne Reunión Island
- Consultations at the Frejus-Saint-Raphael Hospital Frejus, France

### Ms. García Pérez, Silvia

- Pneumology, Endocrine and Rheumatology Service, 12 de Octubre University Hospital, Madrid
- Senior Technician in Dietetics and Nutrition I.E.S San Roque Madrid
- Certificate in Nursing from the Complutense University, Madrid
- Nuclear Medicine Service at the 12 de Octubre University Hospital, Madrid
- Neurosurgery Department, 12 de Octubre University Hospital, Madrid
- UCI and Pediatrics Service, 12 de Octubre University Hospital, Madrid
- Member of teaching staff at the Faculty of Nursing, Physiotherapy and Podiatry,
   Complutense University, Madrid, for clinical practice sessions of the Nursing degree





### tech 18 | Structure and Content

### **Module 1.** Respiratory Therapies in Pediatric Patients

- 1.1. Pediatric Patient Anatomophysiology
  - 1.1.1. Respiratory Apparatus Anatomy in Pediatrics
  - 1.1.2. Respiratory System Physiology in Pediatrics
- 1.2. Respiratory Pathology in Pediatric Patients
  - 1.2.1. Foreign Bodies
  - 1.2.2. Pharyngotonsillitis
  - 1.2.3. Laryngitis
  - 1.2.4. Hyaline Membrane Disease
  - 1.2.5. Childhood Asthma
  - 1.2.6. Bronchiolitis
  - 1.2.7. Cystic Fibrosis
  - 1.2.8. Acute Laryngotracheobronchitis (Croup)
  - 1.2.9. Neurological Disorders: Cerebral Palsy in Children
  - 1.2.10. Summary of Main Respiratory Viruses in Childhood
- 1.3. Pediatric Respiratory Therapy
  - 1.3.1. Respiratory Physiotherapy in Children
  - 1.3.2. Aerosol Therapy
  - 1.3.3. Oxygen Therapy
  - 1.3.4. Mechanical Ventilation
- 1.4. Support Therapies
  - 1.4.1. Cough Assistance
  - 1.4.2. Secretion Aspirator
  - 1.4.3. Smartvest
  - 1.4.4. Bag Valve Mask (Ambu)
- 1.5. Counter Monitoring
  - 1.5.1. Apnea Monitor
  - 1.5.2. Pulse Oximetry





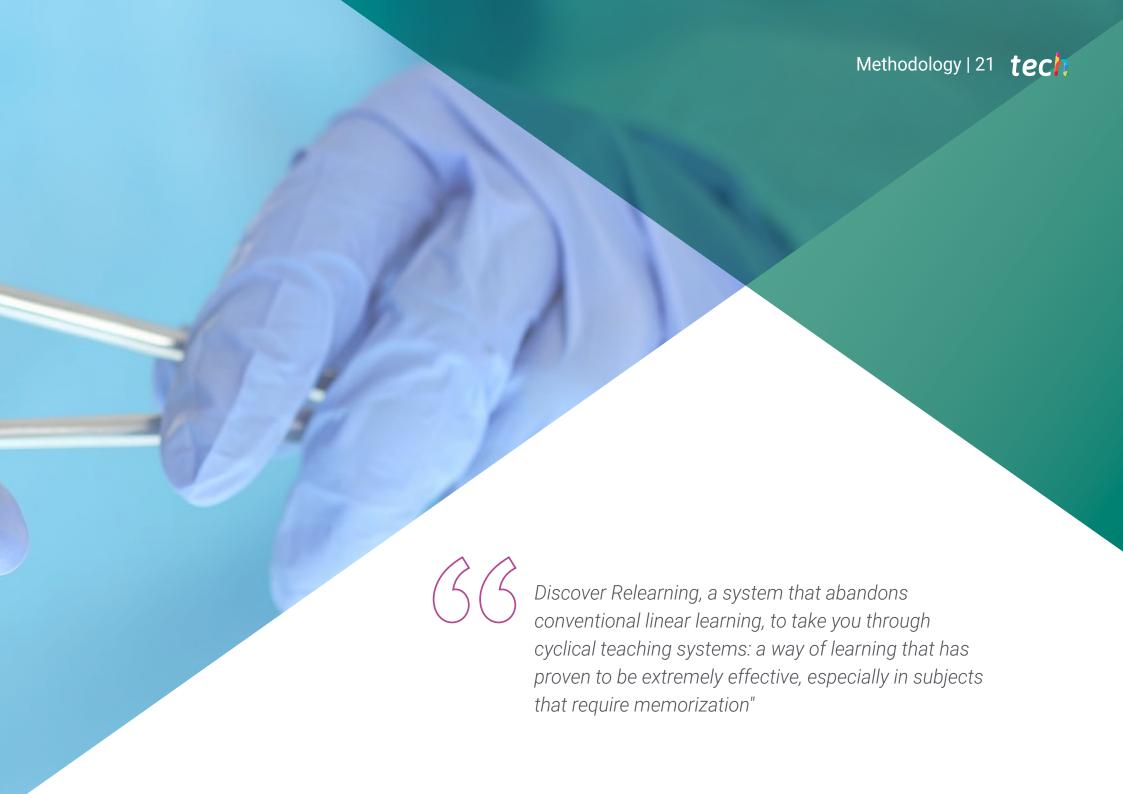






This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

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.

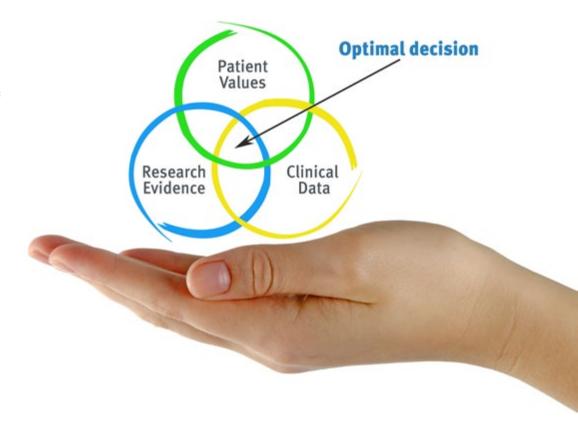


### tech 22 | Methodology

### 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.



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:

- 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.



### Methodology | 25 tech

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.



### **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.





20%

17%





### tech 30 | Certificate

This program will allow you to obtain your Postgraduate Certificate in Respiratory Therapy for Pediatric Patients in Nursing 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 Respiratory Therapy for Pediatric Patients in Nursing

Modality: online

Duration: 6 weeks

Accreditation: 4 ECTS



#### Postgraduate Certificate in Respiratory Therapy for Pediatric Patients in Nursing

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



<sup>\*</sup>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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## Respiratory Therapy for Pediatric Patients in Nursing

- » Modality: online
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- » Certificate: **TECH Global University**
- » Credits: 4 ECTS
- » Schedule: at your own pace
- » Exams: online

