

Postgraduate Certificate
Pediatric Respiratory Physiotherapy
in Rehabilitation Medicine





Postgraduate Certificate
Pediatric Respiratory
Physiotherapy in
Rehabilitation Medicine

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH - Technological University**

6 ECTS Credits

Teaching Hours: **150 hours**

Website: www.techtitute.com/us/medicine/postgraduate-certificate/pediatric-respiratory-physiotherapy-rehabilitation-medicine

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

The specialization of rehabilitation physicians in respiratory physiotherapy is very necessary, especially in the field of pediatrics, since the presence of these professionals is increasingly demanded in different health areas, due to the advantages that their intervention brings to respiratory pathologies in children. Therefore, with this program, at TECH we want to give professionals in this field the opportunity to acquire superior training and offer higher quality care to their patients.





“

Study with us and acquire superior training which will allow you to apply respiratory physiotherapy techniques to children and teenagers”

Respiratory physiotherapy techniques focus on the pathophysiology of the respiratory system, both medical and surgical, requiring a demanding knowledge of the respiratory system and the existing techniques for its treatment, healing and stabilization. Highly trained professionals are required to offer personalized treatments that allow patients to recover effectively.

For this purpose, this course will cover important points such as the assessment and treatment of respiratory physiotherapy of bronchitis and pneumonia. In addition, the rehabilitation physician will acquire all the necessary knowledge to treat patients with brain damage, emergency patients and pediatric patients in palliative care.

The Postgraduate Certificate has specialised teaching staff in Respiratory Physiotherapy, who contribute both their practical experience from their day-to-day work in practice, as well as their extensive experience in teaching at a national and international level. In addition, it has the advantage of being a 100% online training, so the student can decide from where to study and at what time. This way, you will be able to flexibly self-direct your study hours.

This **Postgraduate Certificate in Pediatric Respiratory Physiotherapy in Rehabilitation Medicine** contains the most complete and up-to-date scientific program on the market.

The most important features of the program include:

- ♦ Clinical cases presented by experts in Respiratory Physiotherapy.
- ♦ The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- ♦ The presentation of practical workshops on procedures and techniques.
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ♦ Action protocols and clinical practice guidelines, which cover the most important and latest developments in this specialist area.
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- ♦ Special emphasis on test-based medicine and research methodologies.
- ♦ Content that is accessible from any fixed or portable device with an Internet connection.



This Postgraduate Certificate is the best option you can find to increase your knowledge about Respiratory Physiotherapy and add a plus to your professional career"

“

This program is the best investment you can make when studying a specialist course to update your knowledge in Respiratory Physiotherapy”

Do not hesitate to take this training with us. You will find the best teaching material with virtual lessons

This 100% online course will allow you to combine your studies with your professional work while expanding your knowledge in this field

The teaching staff includes a team of prestigious urologists, who bring their experience to this training program, as well as renowned specialists from leading scientific societies.

The 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 training experience designed to train for real-life situations.

This program is designed around Problem Based Learning, whereby the physician must try to solve the different professional practice situations that arise during the academic year. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of Respiratory Physiotherapy with extensive teaching experience.



02 Objectives

The Postgraduate Certificate in Pediatric Respiratory Physiotherapy in Rehabilitation Medicine is aimed at facilitating the medical professional's performance with the latest advances and most innovative treatments in the sector. Its objective is to take you through a training that will allow you to acquire the most updated knowledge for the most advanced and competitive praxis in this field.





“

With a real practical objective, this course will allow you to achieve your training goals by boosting your CV to a higher level of excellence"



General Objectives

- ♦ Promote specialization in respiratory physiotherapy.
- ♦ Update knowledge and manage physiotherapy in different patients with respiratory pathologies.
- ♦ Possess knowledge of the pathophysiology and advanced exploration of the respiratory system.
- ♦ Execute, direct and coordinate the respiratory physiotherapy intervention plan for each patient.



Specific Objectives

- ♦ Gain up-to-date knowledge of different respiratory pathologies in children.
- ♦ Gain a deeper knowledge of pediatric respiratory emergencies.
- ♦ Apply the instrumental techniques of infant respiratory physiotherapy.
- ♦ Delve into the treatment of physical therapy in pediatric palliative care.





“

Highly specialized objectives in a training course created to train the best professionals in Respiratory Physiotherapy”

03

Course Management

The materials in the course have been created by a team of leading professionals in Respiratory Physiotherapy, who work in the main reference hospitals, bringing to the program the experience they have gained in their jobs throughout their careers.





“

The best professionals in this area have joined forces to offer you the most specialized and up-to-date knowledge in the field"

Management



García Coronado, Luis Pablo

- Physiotherapist at La Paz University Hospital
- Supervisor of the Physiotherapy Department at La Paz University Hospital.
- Specialist in sports Physiotherapy, Re-training, electrotherapy, Pilates and Therapeutic exercise.
- Director at Fisioespaña C. B.
- Director at Fisioganas S.L.
- Director at Pilates Wellness & Beauty S.L.

Professors

Dr. Macías Gaspar María José

- ♦ Physiotherapist at Beata Maria Ana Hospital since 20216. Physiotherapy in hospitalized patients, neurological patients and patients with surgeries and traumatic injuries. Internship tutor for students of the European University.
- ♦ Physiotherapist at La Paz University Hospital since 2018.

Physiotherapy in Pediatrics: On the ward, in rooms, in neonates and ICU,
Physiotherapy in patients hospitalized in

ICU, AER, patients with surgeries and traumatic injuries, and patients with
traumatologic injuries.

- ♦ Diploma in Physiotherapy with specialization in Pediatric Physical Therapy and Manual Therapy in Traumatology and Orthopedics.
- ♦ Master's Degree in Pediatric Physiotherapy at CEU San Pablo in Madrid
- ♦ Master's Degree in Osteopathy at the D. François Ricard School of Osteopathy in Madrid
- ♦ Teaching, assistance and management functions. Clinical reasoning adapted to each individual.
- ♦ Expert in Respiratory and Cardiac Physiotherapy.



04

Structure and Content

The structure of the syllabus has been designed by a team of professionals who are knowledgeable regarding the implications of medical training in the approach to patients, aware of the relevance of current training and committed to quality teaching through new educational technologies.



“

A very complete syllabus that will take you gradually through each and every one of the lessons that the Respiratory Physiotherapy professional needs. With an added bonus: the commitment to excellence that characterizes us"

Module 1. Pediatric Respiratory Physiotherapy II

- 1.1. Bronchitis in Pediatric Patients
 - 1.1.1. Etiology
 - 1.1.2. Clinical Presentation
 - 1.1.3. Medical Treatment
- 1.2. Pneumonia in Pediatric Patients
 - 1.2.1. Etiology
 - 1.2.2. Clinical Presentation
 - 1.2.3. Medical Treatment
- 1.3. Assessment in Respiratory Physiotherapy of the Pediatric Patient (3)
 - 1.3.1. Spirometry
 - 1.3.2. Stress Tests
 - 1.3.3. Peak Flow
- 1.4. Assessment in Respiratory Physiotherapy in Pediatric Patients with Brain Damage
 - 1.4.1. Assessment of the Respiratory System
 - 1.4.2. Evaluation of Other Systems That Could Influence the Respiratory System
- 1.5. Non-Instrumental Techniques in Children's Respiratory Physiotherapy (3)
 - 1.5.1. EDIC
 - 1.5.2. Autogenous Drainage
 - 1.5.3. Cough Assistance
- 1.6. Non-Instrumental Techniques in Children's Respiratory Physiotherapy: Adaptation in Patients with Brain Damage
 - 1.6.1. ELPR
 - 1.6.2. Nasal Wash
 - 1.6.3. Provoked Cough
- 1.7. Instrumental Techniques in Children's Respiratory Physiotherapy (1)
 - 1.7.1. Cough Assist
 - 1.7.2. High-Frequency Oscillation Vest®





- 1.8. Instrumental Techniques in Children's Respiratory Physiotherapy (2)
 - 1.8.1. Ambu
 - 1.8.1. Secretion Aspirator
- 1.9. Respiratory Physiotherapy in Pediatric Palliative Care
 - 1.9.1. What Is Palliative Care?
 - 1.9.1. Typical Respiratory Pathologies of These Patients
 - 1.9.3. Physiotherapy Treatment in Pediatric Palliative Care
- 1.10. Respiratory Emergencies in Pediatrics
 - 1.10.1. Resuscitation in Pediatrics



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

05

Methodology

This training provides you with a different way of learning. Our methodology uses a cyclical learning approach: Re-learning.

This teaching system is used 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.



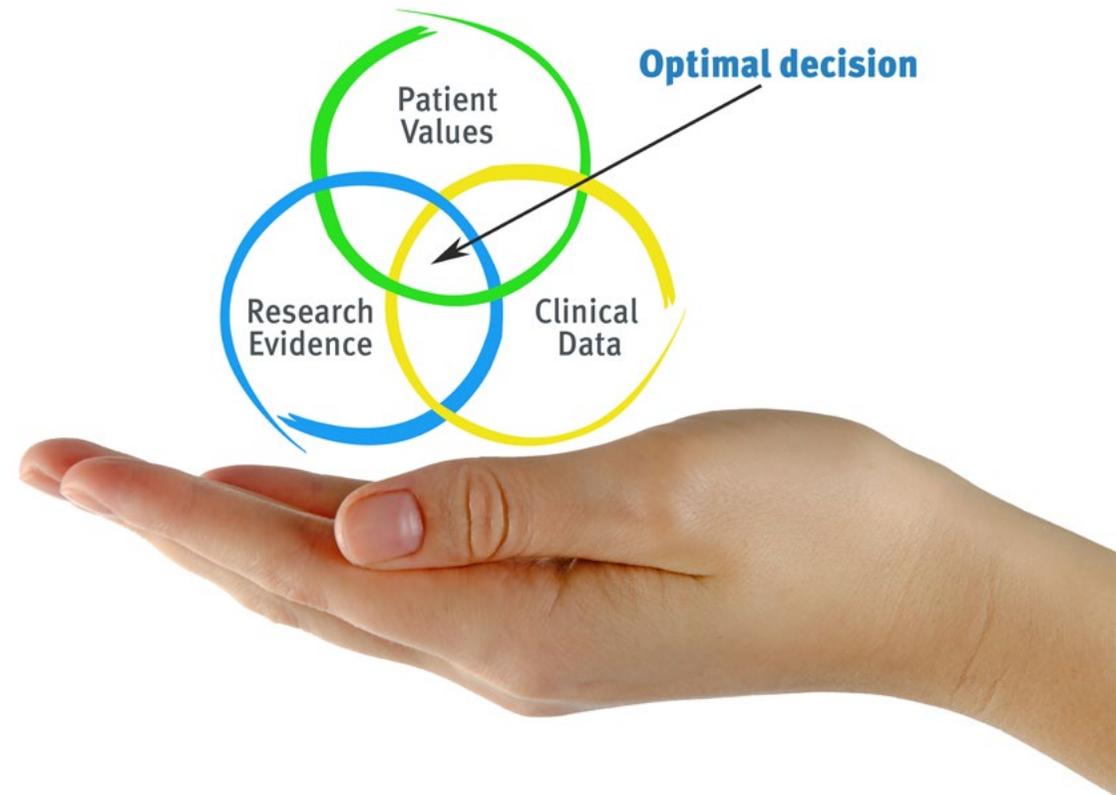
“

Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

In a given situation, what would you do? Throughout the program you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can experience a way of learning 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 potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

“

Did you know that this method was developed in 1912 at Harvard for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only 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 student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.



The physician 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Re-learning will allow you to learn with less effort and better performance, involving you more in your training, 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this program you will have access to the best educational material, prepared with you in mind:



Study Material

All the teaching materials are specifically created for the course, by specialists who teach on the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Latest 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 this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

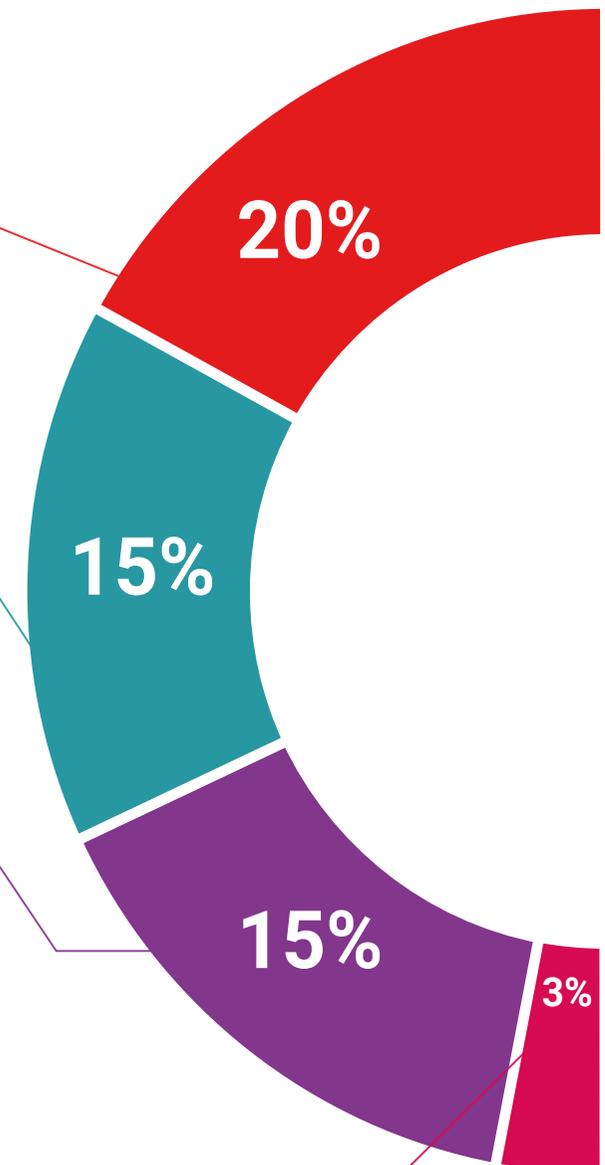
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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



Additional Reading

Recent articles, consensus documents, international guides... in our virtual library you will have access to everything you need to complete your training.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Re-Testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your 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 our future difficult decisions.



Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



06

Certificate

The **Postgraduate Certificate in Pediatric Respiratory Physiotherapy in Rehabilitation Medicine** guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by **TECH Technological University**.



“

Successfully complete this training and receive your university qualification without travel or laborious paperwork”

This **Postgraduate Certificate in Pediatric Respiratory Physiotherapy in Rehabilitation Medicine** contains the most complete and up-to-date scientific program on the market.

After students have passed the evaluations, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will specify the qualification obtained through the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Pediatric Respiratory Physiotherapy in Rehabilitation Medicine**

ECTS: 6

Official Number of Hours: 150



*Apostille Convention. In the event that the student wishes to have their paper diploma Apostilled, CEU EDUCATION will make the necessary arrangements to obtain it at an additional cost of €140 plus shipping costs of the Apostilled diploma.

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



Postgraduate Certificate
Pediatric Respiratory
Physiotherapy
in Rehabilitation Medicine

Course Modality: Online

Duration: 6 weeks

Certificate: TECH - Technological University

6 ECTS Credits

Teaching Hours: 150 hours

Postgraduate Certificate Pediatric Respiratory Physiotherapy in Rehabilitation Medicine

