

Postgraduate Certificate

Respiratory Physiotherapy Techniques in Rehabilitation Medicine





Postgraduate Certificate Respiratory Physiotherapy Techniques 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/respiratory-physiotherapy-techniques-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

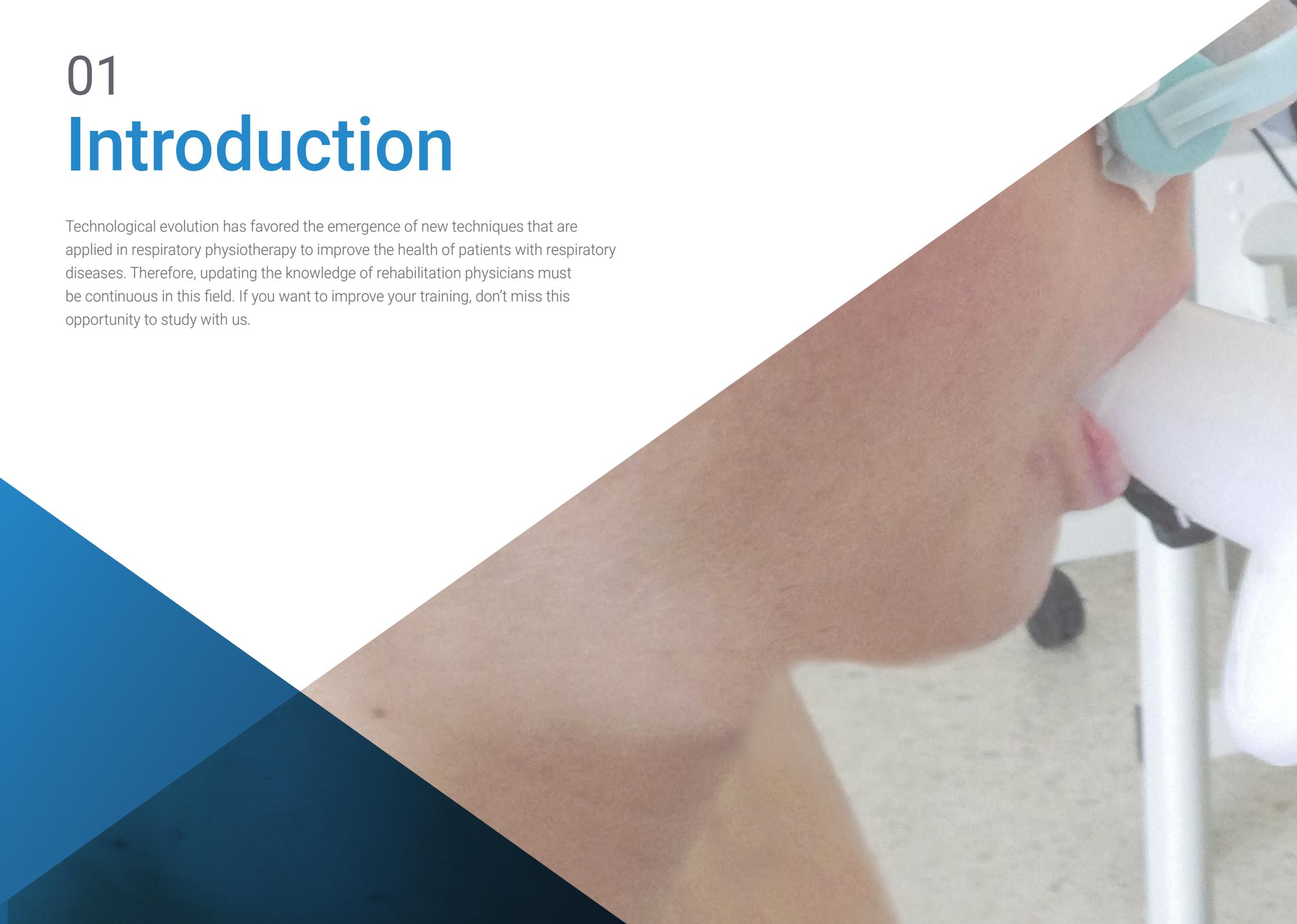
Certificate

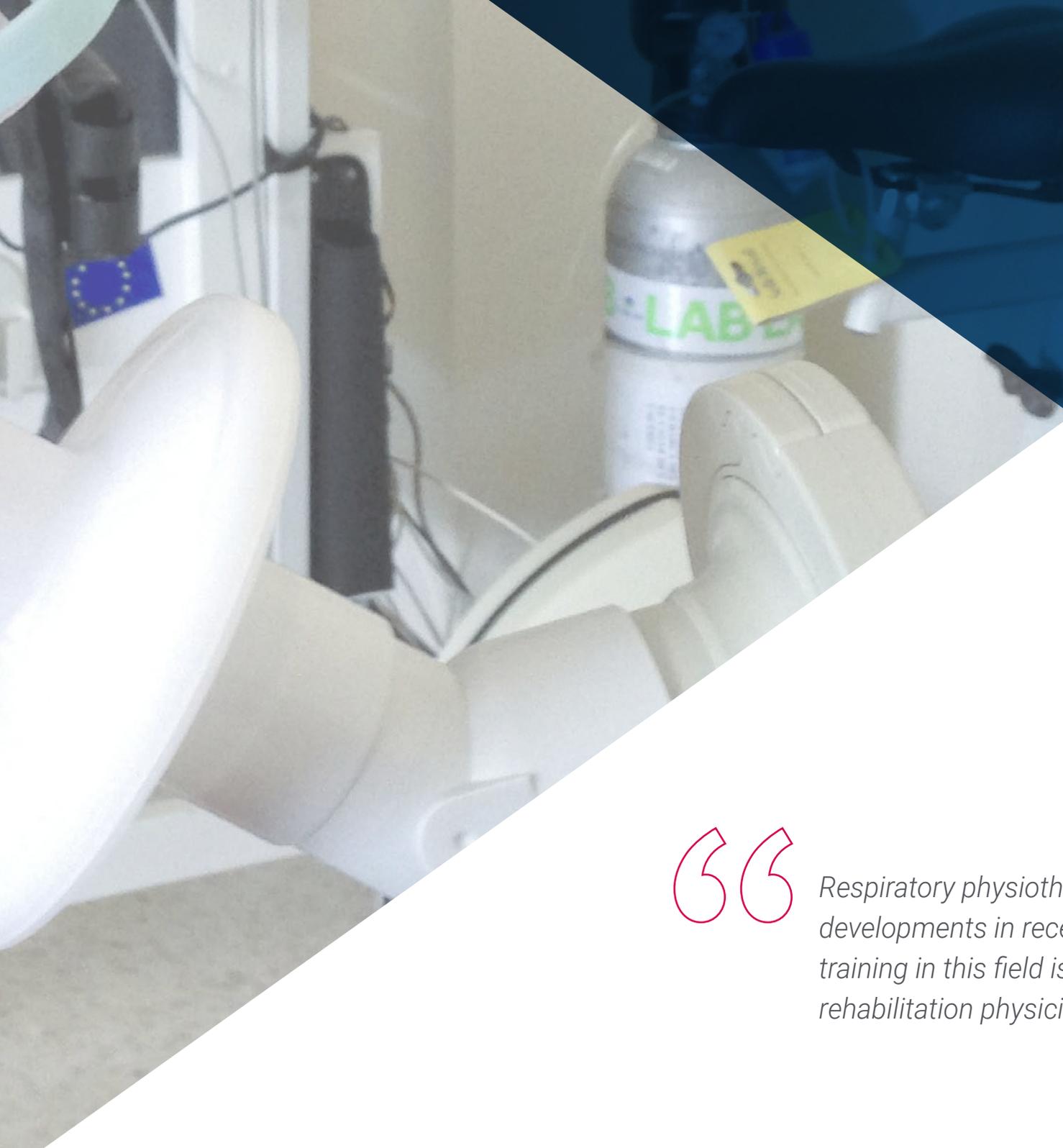
p. 28

01

Introduction

Technological evolution has favored the emergence of new techniques that are applied in respiratory physiotherapy to improve the health of patients with respiratory diseases. Therefore, updating the knowledge of rehabilitation physicians must be continuous in this field. If you want to improve your training, don't miss this opportunity to study with us.





“

Respiratory physiotherapy has seen great developments in recent years, so specific training in this field is paramount for rehabilitation physicians”

With this academic program at TECH, rehabilitation medicine professionals will be able to expand their knowledge of the main respiratory techniques in physiotherapy which they can then use in their daily practice in the management of patients with this type of pathology.

In this way, through our updated program you will be able to make a journey through the history of respiratory physiotherapy, to know in depth the current state of this increasingly valued and useful technique. Furthermore, you will have the opportunity to understand the importance of the respiratory system in order to understand the best way to use respiratory physiotherapy techniques.

Respiratory physiotherapy is part of physiotherapy, but focusing 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.

The Postgraduate Certificate has been designed by a teaching team specializing in respiratory physiotherapy who bring to the course 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 Respiratory Physiotherapy Techniques 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 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 of Respiratory Physiotherapy and add another dimension 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”

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 course. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field with extensive teaching experience.

This 100% online Postgraduate Certificate will allow you to study from anywhere in the world. All you need is a computer or mobile device with an internet connection

Our innovative teaching methodology will allow you to study as if you were dealing with real cases, and therefore increasing your training



02 Objectives

The Postgraduate Certificate in Respiratory Physiotherapy Techniques 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 specialist knowledge of respiratory physiotherapy
- Gain knowledge of how to manage physiotherapy in different patients with respiratory pathologies
- Have knowledge of the pathophysiology and advanced exploration of the respiratory system
- Execute, direct and coordinate the Respiratory Physiotherapy intervention plan for each patient

“

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





Specific Objectives

- ♦ Gain in-depth knowledge of the physiological mechanisms of the respiratory system
- ♦ Gain in-depth knowledge of the treatment techniques in respiratory physiotherapy
- ♦ Applying different techniques
- ♦ Handling of instrumental devices



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.

Professor

Peroy Badal, Renata

- Physiotherapist in charge of Respiratory Rehabilitation for COPD Virgen de la Torre Hospital
- Respiratory physiotherapy in critical patients admitted to the ICU and in pre- and postoperative patients undergoing abdominal surgery discharged from the inpatient unit.
- Respiratory physiotherapy in adult and pediatric patients with spinal cord injuries and different neuromuscular pathologies associated with respiratory disorders
- Degree in Physiotherapy: 1996-1999 Gimbernat University School of Nursing and Physiotherapy (Autonomous University of Barcelona)
- Graduate in Physiotherapy: 2013-2014 Complutense de Madrid with the dissertation "Health Education in Respiratory Rehabilitation in COPD in primary care"
- Official Master's Degree in Respiratory and Cardiac Physiotherapy: 2015-2016. ONCE University School of Physiotherapy (Complutense University of Madrid)
- D.U EN KINESITHERAPIE RESPIRATORIE ET CARDIOVASCULAIRE: 2007-2008. Claude Bernard-Lyon University with the article "Education on Upper Abdominal Surgery: Patient-Physiotherapist Co-construction of a Therapy Booklet"



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. Respiratory Techniques in Physiotherapy

- 1.1. Historical Evolution of Respiratory Physiotherapy
 - 1.1.1. Different Schools of Respiratory Physiotherapy
 - 1.1.2. Different Classification of Respiratory Physiotherapy
- 1.2. Respiratory Physiotherapy Objectives
 - 1.2.1. General Objectives
 - 1.2.2. Specific Objectives
- 1.3. Physiological Mechanisms to Understand the Techniques of Respiratory Physiotherapy
 - 1.3.1. Rocher Equation
 - 1.3.2. Poiseuille's Law
 - 1.3.3. Collateral Ventilation
- 1.4. Treatment Techniques in Respiratory Physiotherapy
 - 1.4.1. Forced Inspiratory Techniques
 - 1.4.2. Slow Expiratory Techniques
 - 1.4.3. Forced Expiratory Techniques
 - 1.4.4. Slow Inspiratory Techniques
- 1.5. Secretions Drainage Techniques
 - 1.5.1. Techniques Based on Gravity
 - 1.5.2. Techniques Based on Shock Waves
 - 1.5.3. Techniques Based on Air Flow
- 1.6. Lung Expansion Techniques
 - 1.6.1. EDIC
 - 1.6.2. Encouraged Spirometry
 - 1.6.3. Air Staking





- 1.7. Ventilatory Techniques
 - 1.7.1. Directed Costal Ventilation Technique
 - 1.7.2. Targeted Abdomino-Diaphragmatic Ventilation Technique
- 1.8. Instrumental Devices
 - 1.8.1. Cough Assist ®
 - 1.8.2. Vibration Vests ®
 - 1.8.3. Percussionaire ®
 - 1.8.4. PEP Devices
- 1.9. Aerosol Therapy
 - 1.9.1. Type of Nebulizers
 - 1.9.2. Type of Inhalers
 - 1.9.3. Inhalation Technique
- 1.10. Health Education and Relaxation
 - 1.10.1. Importance of Health Education in Chronic Pathologies
 - 1.10.2. Importance of Relaxation in Chronic Pathologies

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

05

Methodology

This training program 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. 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 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 professional medical 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.

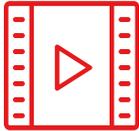
Re-learning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success

In our program, learning is not a linear process, but rather a spiral (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

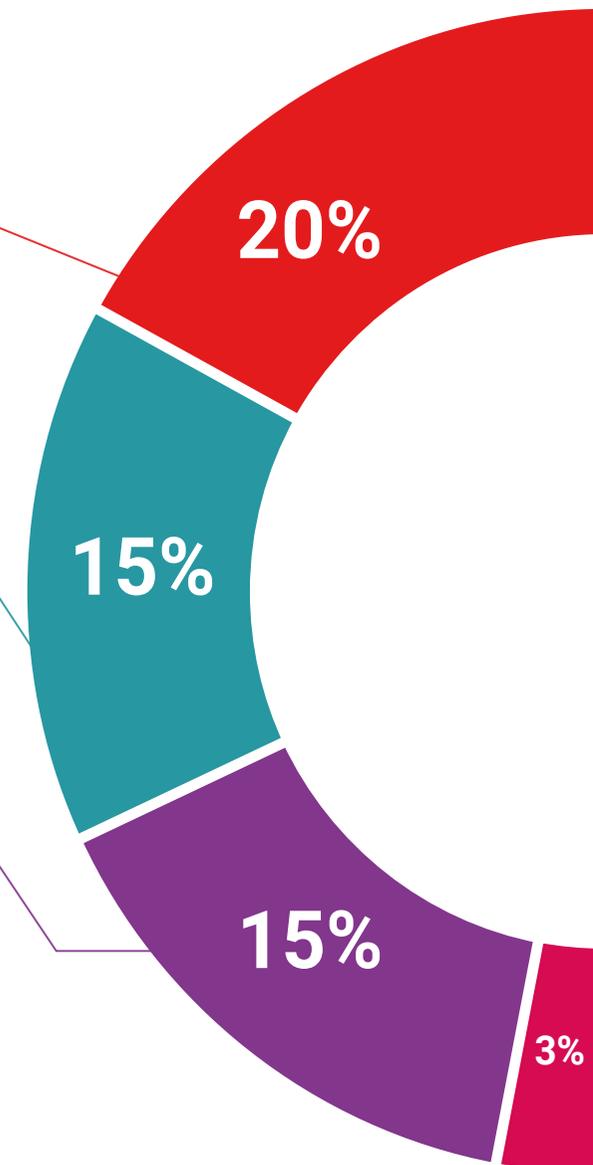
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

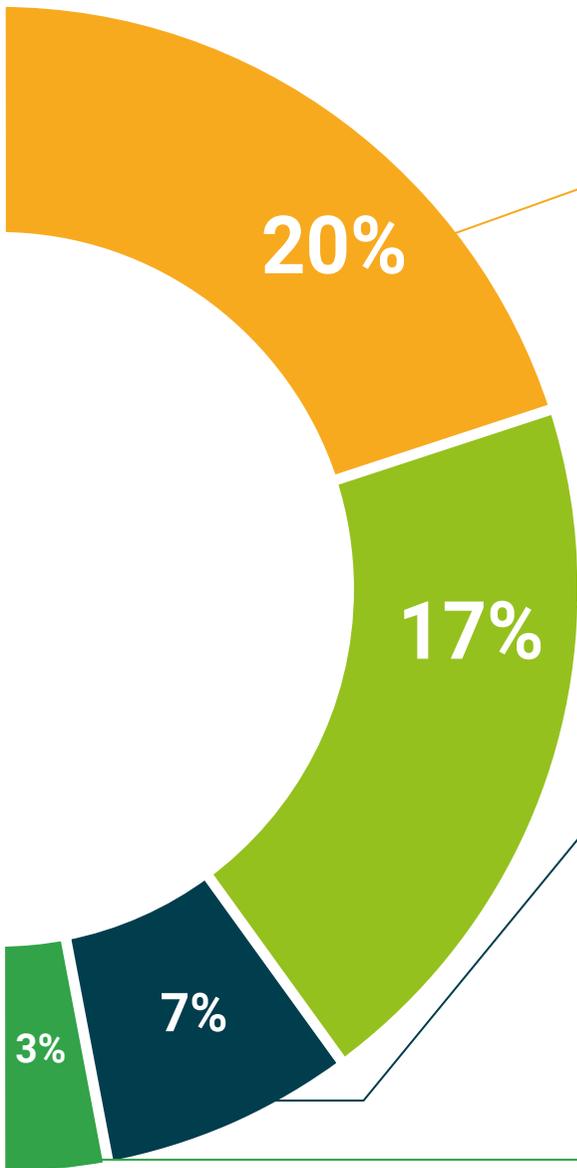
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



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 Respiratory Physiotherapy Techniques in Rehabilitation Medicine guarantees you, in addition to the most rigorous 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 Respiratory Physiotherapy Techniques in Rehabilitation Medicine** contains the most complete and up-to-date scientific program on the market.

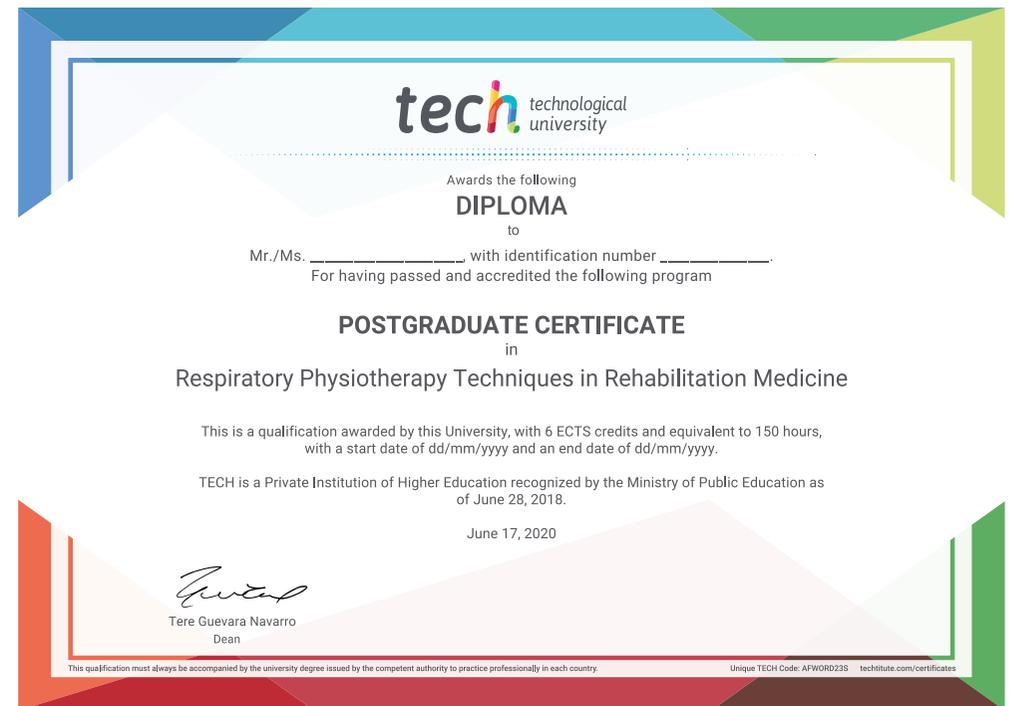
After students have passed the evaluations, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

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

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

ECTS: **6**

Official Number of Hours: **150 hours**.



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

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



Postgraduate Certificate
Respiratory Physiotherapy
Techniques in Rehabilitation
Medicine

Course Modality: Online

Duration: 6 weeks

Certificate: TECH - Technological University

6 ECTS Credits

Teaching Hours: 150 hours

Postgraduate Certificate

Respiratory Physiotherapy Techniques in Rehabilitation Medicine

