

Postgraduate Diploma

NIMV in Specific Pathologies





Postgraduate Diploma NIMV in Specific Pathologies

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

Website: www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-nimv-specific-pathologies

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 22

06

Certificate

p. 30

01

Introduction

The increasing popularity of Non-Invasive Mechanical Ventilation for the management of respiratory conditions has led to the development of research into its potential use in different contexts. As a result, updated indications and contraindications for its use have been found, allowing for the identification of conditions in which it provides benefits for the patient, knowledge that the specialist must acquire to stay at the forefront of medicine. To make this possible, TECH has promoted this certification, through which the student will identify the cutting-edge protocols for the use of NIMV in patients with COPD or PID or analyze the contraindications for its application in children. This update will also be carried out 100% online without giving up their daily responsibilities.





The Postgraduate Diploma in NIMV in Specific Pathologies will allow you to learn the state-of-the-art techniques for adjusting ventilatory parameters in patients with COPD or EPID"

In recent years, the use of Non-Invasive Mechanical Ventilation to address respiratory difficulties with greater safety and less invasiveness for the patient has become increasingly common. This has led to the emergence of numerous studies focused on finding criteria for its application in different types of diseases and individuals, as well as the development of updated monitoring techniques to optimize patient follow-up. Given the significant benefits offered by these advances to ensure the proper treatment and recovery of patients, understanding them is essential for the physician who wants to stay up-to-date in their field.

For that reason, TECH has designed this Postgraduate Diploma, with the idea of providing the specialist with the most up-to-date aspects related to the application of Non-Invasive Mechanical Ventilation in different pathologies and in patients of different ages. Through 450 hours of intensive study, you will delve into the cutting-edge indications and contraindications of NIMV in adults with COPD, ARDS, Acute Hypoxemic Respiratory Failure, or individuals with Obesity. You will also deepen your knowledge of updated monitoring and adjustment techniques of Non-Invasive Mechanical Ventilation for children, as well as the pioneering strategies for monitoring individuals with chronic home ventilation.

All of this will be done through an excellent 100% online methodology, allowing the student to update themselves without the need for daily commutes to a study center. Likewise, you will have access to a series of top-notch educational content, which has been prepared by specialists in Pulmonology who work actively with Non-Invasive Mechanical Ventilation. Therefore, the knowledge acquired during the program will be in full harmony with the latest industry advances.

This **Postgraduate Diploma in the NIMV in Specific Pathologies** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Non-Invasive Mechanical Ventilation
- ♦ 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



Through this certificate, you will deepen in the recent findings on the indications and contraindications of NIMV in Hypoxemic Acute Respiratory Failure"



Through this program, you will delve into the sophisticated techniques of monitoring and adjustment of Non Invasive Mechanical Ventilation in pediatric patients"

Position yourself as a cutting-edge pulmonologist in just 6 months, enjoying the best educational methodology on the market.

Update yourself 24 hours a day and from wherever you desire thanks to the 100% online format of this program.

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

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 immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.



02 Objectives

The Postgraduate Diploma in NIMV in Specific Pathologies has been designed to facilitate the update of the pulmonology specialist in just 6 months. Throughout this academic period, you will be able to delve into the latest scientific evidence regarding the application of Non-Invasive Mechanical Ventilation in pediatric and adult patients with COPD. This update will be preserved through the achievement of the general and specific objectives that TECH has outlined for this program.





“

Incorporate the most up-to-date knowledge about the application of Non-Invasive Mechanical Ventilation in different clinical scenarios into your daily medical practice”



General Objectives

- ♦ Understand the importance and role of Non-Invasive Mechanical Ventilation in the treatment of acute and chronic respiratory pathologies
- ♦ Acquire knowledge of the updated indications and contraindications for the use of Non-Invasive Mechanical Ventilation, as well as the different types of devices and ventilation modes
- ♦ Develop skills and competencies in monitoring patients with Non-Invasive Mechanical Ventilation, including data interpretation and the detection and prevention of complications
- ♦ Explore cutting-edge technologies used in the telemonitoring of patients with Non-Invasive Mechanical Ventilation and the ethical and legal aspects related to its use
- ♦ Delve into the key differences in Non-Invasive Mechanical Ventilation in Pediatrics
- ♦ Delve your understanding of the ethical aspects related to the management of patients requiring NIV





Specific Objectives

Module 1. Non-Invasive Mechanical Ventilation in Specific Pathologies

- ♦ Describe the indications and contraindications of Non-Invasive Mechanical Ventilation (NIV) in various pathologies such as COPD, Heart Failure, ARDS, or Epidemic Infectious Diseases, among others
- ♦ Analyze the selection and adjustment of ventilatory parameters for NIMV in each specific pathology
- ♦ Evaluate the effectiveness of NIMV in each specific pathology
- ♦ Delve into the latest scientific evidence on NIMV management in Epidemic Infectious Diseases
- ♦ Understand the complications associated with the use of NIMV in obese patients and strategies for prevention and treatment

Module 2. Non-Invasive Mechanical Ventilation in Pediatrics

- ♦ Understand the physiological and anatomical differences between pediatric and adult patients in terms of Non-Invasive Mechanical Ventilation
- ♦ Know the indications and contraindications of Non-Invasive Mechanical Ventilation in Pediatrics
- ♦ Properly adjust Non-Invasive Mechanical Ventilation in Pediatrics based on individual patient needs
- ♦ Deepen your knowledge of updated monitoring and adjustment techniques for Non-Invasive Mechanical Ventilation in Pediatrics
- ♦ Manage the main pediatric respiratory pathologies that require Non-Invasive Mechanical Ventilation based on the latest scientific evidence

Module 3. Monitoring in Chronic Home NIMV

- ♦ Understand recent indications for the use of NIMV in chronic home patients
- ♦ Explore telemonitoring as a tool for monitoring and evaluating patients on NIMV
- ♦ Identify updated strategies for the prevention and management of anxiety and depression in patients on NIMV
- ♦ Explore opportunities and challenges of teleeducation and teletraining in NIMV



Delves into the benefits of state-of-the-art telemonitoring for monitoring and assessment of NIMV patients"

03

Course Management

In order to preserve the excellent educational quality that is characteristic of TECH's programs, this Postgraduate Diploma is directed and taught by top specialists in the field of pulmonology. Throughout their professional careers, these physicians have acquired notable expertise in the management of Non-Invasive Mechanical Ventilation. They will, therefore, impart a series of knowledge that is entirely applicable to students' hospital experiences.



“

Stay up-to-date on NIMV in Specific Pathologies with active specialists in pulmonology who work in leading hospitals throughout Spain”

International Guest Director

With a relevant trajectory in the field of Pulmonology and Clinical Research, Dr. Maxime Patout distinguishes himself as an internationally renowned physician and scientist. As such, his involvement and contribution have led him to position himself as Clinical Director in Public Assistance in prestigious hospitals in Paris, standing out for his leadership in the management of Complex Respiratory Diseases. With this, it is worth mentioning his work as Coordinator of the Department of Functional Explorations of Breathing, Exercise and Dyspnea at the famous Hospital de la Pitié-Salpêtrière.

In the field of Clinical Research, Dr. Patout has made valuable contributions in leading areas such as Chronic Obstructive Pulmonary Disease, Lung Cancer and Respiratory Physiology. Accordingly, in his role as a Research Fellow at Guy's and St Thomas' NHS Foundation Trust, he has conducted groundbreaking studies that have expanded and improved the treatment options available to patients.

In this line, his versatility and leadership as a physician give him a vast experience in fields such as Biology, Physiology and Pharmacology of Circulation and Respiration. Therefore, he stands out as a renowned specialist in the Pulmonary and Systemic Diseases unit. In addition, his recognized competence in the Anti-Infectious Chemotherapy unit also places him as an outstanding reference in the field, being a regular advisor to future health professionals.

For all these reasons, his outstanding expertise in the field of Pulmonology has led him to be an active member of prestigious international organizations such as the European Respiratory Society and the French-Language Society of Pneumology, where he continues to contribute to scientific progress. So much so, that he shows an active participation in symposiums that enhance his medical excellence and constant updating in his field.



Dr. Patout, Maxime

- Clinical Director in Public Care at the Salpêtrière Hospital, Paris, France
- Clinical Research Fellow at Guy's and St Thomas' NHS Foundation Trust
- Coordinator of the Breathing, Exercise and Dyspnea Functional Examination Service at the Pitié-Salpêtrière Hospital
- Doctor of Medicine, University of Rouen
- Master's Degree in Biology, Physiology and Pharmacology of the Circulation and Respiration at the University of Paris
- University Expert in Pulmonary and Systemic Diseases from the University of Lille
- University Expert in Anti-infectious Chemotherapy, University of Rouen
- Medical Specialist in Pulmonology from the University of Rouen
- Member of: European Respiratory Society, French-language Society of Pneumology



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

Management



Dr. Landete Rodríguez, Pedro

- ♦ Co-coordinator of the Basic Ventilation Department at La Princesa University Hospital
- ♦ Pulmonologist at La Princesa University Hospital
- ♦ Pulmonologist at Blue Healthcare
- ♦ Researcher in several research groups
- ♦ Professor in undergraduate and postgraduate university studies
- ♦ Author of numerous scientific publications in international journals and participant in several book chapters
- ♦ Speaker at international medical congresses
- ♦ Doctor Cum Laude by the Autonomous University of Madrid

Professors

Dr. Bascuas Arribas, Marta

- ♦ Specialist Pediatrician
- ♦ FEA of Pediatric Pneumology of the Hospital Universitario Infantil Niño Jesús
- ♦ Member of the Mucopolysaccharidosis Committee at the Hospital Universitario Infantil Niño Jesús
- ♦ Author of various scientific publications related to her specialty



Dr. Esteban Ronda, Violeta

- ◆ Head of the Non-Invasive Mechanical Ventilation Clinic at the Hospital Universitario de Sant Joan
- ◆ Pulmonologist at the Hospital Universitario de Sant Joan
- ◆ Master's Degree in Advances in Diagnosis and Treatment of Sleep Disorders from the Universidad Católica San Antonio de Murcia
- ◆ Master's Degree in Biomedical Research from the University of Valencia
- ◆ Member of SEPAR and the Valencian Society of Pulmonology Specialist Radiologist Assistant at the Virgen de la Arrixaca University Hospital in Murcia

Dr. López Padilla, Daniel

- ◆ Pulmonologist Specialist and Researcher
- ◆ FEA in the Intermediate Respiratory Care Unit at the General University Hospital
- ◆ Teacher in undergraduate studies related to Health Sciences
- ◆ Coordinator of the Emerging Group for Mechanical Ventilation and Critical Respiratory Care of the Spanish Society of Pulmonology and Thoracic Surgery
- ◆ Member of the Integrated Research Program on Non-Invasive Ventilation and Intermediate Respiratory Care Units of the Spanish Society of Pulmonology and Thoracic Surgery
- ◆ Editor-in-Chief of the Journal of Respiratory Pathology
- ◆ Author of numerous publications in scientific journals
- ◆ Doctorate in Medicine from the Autonomous University Madrid

04

Structure and Content

The syllabus of this Postgraduate Diploma consists of three excellent modules through which the pulmonologist will complete their update regarding the use of NIMV to address various pathologies. All the educational content of the program will be available in various educational formats, including readings, explanatory videos, and interactive summaries. This, along with its 100% online methodology, ensures effective learning that can be carried out 24 hours a day.





“

The Relearning methodology of the Postgraduate Diploma in NIMV in Specific Pathologies guarantees a learning adapted to your pace and study needs”

Module 1. Non-Invasive Mechanical Ventilation in Specific Pathologies

- 1.1. Non-Invasive Mechanical Ventilation in Acute Chronic Obstructive Pulmonary Disease (COPD)
 - 1.1.1. Indications and Contraindications in Patients with COPD
 - 1.1.2. Selection and Adjustment of Ventilatory Parameters in COPD
 - 1.1.3. Assessment of Efficacy
 - 1.1.4. Weaning Strategies from NIMV in COPD Patients
 - 1.1.5. Criteria for NIMV at Hospital Discharge
- 1.2. Non-Invasive Mechanical Ventilation in Heart Failure
 - 1.2.1. Effects of Non-Invasive Mechanical Ventilation on the Hemodynamics of Heart Failure Patients
 - 1.2.2. Monitoring Heart Failure Patients during Non-Invasive Mechanical Ventilation
 - 1.2.3. Non-Invasive Mechanical Ventilation in Patients with Acutely Decompensated Heart Failure
 - 1.2.4. Non-Invasive Mechanical Ventilation in Patients with Chronic Heart Failure and Its Impact on Patient Quality of Life
- 1.3. Non-Invasive Mechanical Ventilation in Acute Respiratory Distress Syndrome (ARDS)
 - 1.3.1. Definition and Diagnostic Criteria for ARDS
 - 1.3.2. Indications and Contraindications of NIMV in ARDS Patients
 - 1.3.3. Selection and Adjustment of Ventilatory Parameters in ARDS Patients on NIMV
 - 1.3.4. Monitoring and Evaluation of Response to NIMV in ARDS Patients
 - 1.3.5. Comparison of NIMV with IMV in ARDS Patients
- 1.4. Non-Invasive Mechanical Ventilation in Diffuse Interstitial Lung Diseases (DILD)
 - 1.4.1. Pathophysiology of Diffuse Interstitial Lung Diseases (DILD)
 - 1.4.2. Scientific Evidence in the Management of NIMV in DILD
 - 1.4.3. Indications for NIMV in Patients with DILD
 - 1.4.4. Assessment of the Efficacy of NIMV in Patients with DILD
- 1.5. Non-Invasive Mechanical Ventilation in Obesity
 - 1.5.1. Obesity Pathophysiology and Its Relationship with NIMV
 - 1.5.2. Indications and Contraindications in Obese Patients
 - 1.5.3. Specific NIMV Adjustments in Obese Patients
 - 1.5.4. Strategies for Prevention and Treatment of Complications
 - 1.5.5. NIMV in Patients with Obstructive Sleep Apnea
 - 1.5.6. Obesity Hypoventilation Syndrome
- 1.6. Non-Invasive Mechanical Ventilation in Neuromuscular and Rib Cage
 - 1.6.1. Indications
 - 1.6.2. Main Neuromuscular and Rib Cage Diseases
 - 1.6.3. Selection of Ventilatory Modes
 - 1.6.4. Adjustment of Ventilatory Parameters
 - 1.6.5. Assessment of Efficacy and Tolerance of NIMV
 - 1.6.6. Tracheostomy Indications
 - 1.6.7. Management of Complications
- 1.7. Non-Invasive Mechanical Ventilation in COVID-19 Patients
 - 1.7.1. Indications for NIMV in COVID-19 Patients
 - 1.7.2. Adjustment of Ventilatory Parameters
 - 1.7.3. Safety Considerations in NIMV for COVID-19
 - 1.7.4. Assessment of Efficacy
 - 1.7.5. Disconnection Strategies
- 1.8. Non-Invasive Mechanical Ventilation in Acute Hypoxemic Respiratory Failure
 - 1.8.1. Definition of De Novo Respiratory Failure
 - 1.8.2. Indications and Contraindications for NIMV in Acute Hypoxemic Respiratory Failure
 - 1.8.3. Parameters and Adjustments in NIMV for Patients with Acute Hypoxemic Respiratory Failure
 - 1.8.4. Complications Associated with NIMV Use in Acute Hypoxemic Respiratory Failure
 - 1.8.5. Assessment of NIMV Efficacy in Improving Oxygenation and Reducing Respiratory Work in Acute Hypoxemic Respiratory Failure
 - 1.8.6. Comparison of NIMV with Invasive Mechanical Ventilation in Patients with Acute Hypoxemic Respiratory Failure

- 1.9. Non-Invasive Mechanical Ventilation in the asthmatic patient in exacerbation
 - 1.9.1. Indications for NIMV in Asthma Attacks
 - 1.9.2. Ventilatory Parameters to Adjust
 - 1.9.3. Monitoring of the acutely ill asthmatic patient during NIMV
 - 1.9.4. Alarm Criteria for Poor Response to NIMV
- 1.10. Non-Invasive Mechanical Ventilation in Pre-Intubation Preparation
 - 1.10.1. Benefits, Risks, and Limitations
 - 1.10.2. Management of NIMV in Transition to Invasive Mechanical Ventilation

Module 2. Non-Invasive Mechanical Ventilation in Pediatrics

- 2.1. Differences Between Non-Invasive Mechanical Ventilation in Adults and Pediatrics
 - 2.1.1. Lung Physiology in Pediatric Patients
 - 2.1.2. Key Differences in Managing the Pediatric Airway
 - 2.1.3. Common Respiratory Pathologies in Pediatrics Requiring NIMV
 - 2.1.4. Managing Patient Collaboration in Pediatric NIMV
- 2.2. Indications and Contraindications of Non-Invasive Mechanical Ventilation in Pediatrics
 - 2.2.1. Indications for NIMV in Pediatrics
 - 2.2.2. Absolute Contraindications for NIMV in Pediatrics
 - 2.2.3. Relative Contraindications for NIMV in Pediatrics
- 2.3. Equipment and Modes of Non-Invasive Mechanical Ventilation in Pediatrics
 - 2.3.1. NIMV Modes in Pediatrics
 - 2.3.2. Ventilatory Support Equipment in Pediatrics
 - 2.3.3. Accessories and Circuits for Non-Invasive Mechanical Ventilation in Pediatrics
 - 2.3.4. Monitoring and Ventilation Adjustment in Pediatrics
- 2.4. Adjusting Non-Invasive Mechanical Ventilation in Pediatrics
 - 2.4.1. Setting Support Pressures and PEEP
 - 2.4.2. Adjusting Airflow
 - 2.4.3. Adjustment of Respiratory Rate
 - 2.4.4. Setting Inspiratory Time
- 2.5. Monitoring and Adjustment of Non-Invasive Mechanical Ventilation in Pediatrics
 - 2.5.1. Clinical Assessment
 - 2.5.2. Arterial Blood Gas Assessment
 - 2.5.3. Pulse Oximetry Assessment
 - 2.5.4. Capnography Assessment
- 2.6. Non-Invasive Mechanical Ventilation in Pediatric Respiratory Pathologies
 - 2.6.1. Prematurity
 - 2.6.2. Bronchiolitis
 - 2.6.3. Cystic fibrosis
 - 2.6.4. Bronchopulmonary Dysplasia
 - 2.6.5. Neonatal respiratory failure
 - 2.6.6. Tracheostomy
 - 2.6.7. Neuromuscular Diseases
 - 2.6.8. Disconnections for Orotracheal Intubation
- 2.7. Interfaces in NIMV in Pediatric Patients
 - 2.7.1. Nasal Mask
 - 2.7.2. Oro-Nasal Mask
 - 2.7.3. Face Mask
 - 2.7.4. Helmet
 - 2.7.5. Special Considerations in the Use of NIMV Interfaces in Pediatrics
- 2.8. Complications of Non-Invasive Mechanical Ventilation in Pediatrics
 - 2.8.1. Pneumothorax
 - 2.8.2. Hypotension
 - 2.8.3. Hypoxemia
 - 2.8.4. Desaturation during support removal
- 2.9. Home NIMV in Pediatrics
 - 2.9.1. Indications for Home NIMV
 - 2.9.2. Selection of Suitable Patients
 - 2.9.3. Caregiver Training
 - 2.9.4. Home Monitoring
- 2.10. Weaning Techniques in Pediatrics
 - 2.10.1. Gradual withdrawal of NIMV
 - 2.10.2. Assessment of tolerance to NIMV withdrawal
 - 2.10.3. Use of oxygen therapy after withdrawal of NIMV
 - 2.10.4. Assessment of the patient after withdrawal of NIMV

Module 3. Monitoring in Chronic Home NIMV

- 3.1. Chronic Home Ventilation
 - 3.1.1. Definition of Chronic Home Ventilation
 - 3.1.2. Indications for Chronic Home Ventilation
 - 3.1.3. Types of Chronic Home Ventilation
 - 3.1.4. Benefits of Chronic Home Ventilation
- 3.2. Monitoring Patients with Chronic Home Ventilation
 - 3.2.1. Parameters to Monitor
 - 3.2.2. Monitoring Methods
 - 3.2.3. Interpretation of Data Obtained During Monitoring
 - 3.2.4. Follow-Up and Evaluation Techniques
- 3.3. Telemonitoring in Patients with Chronic Home Ventilation
 - 3.3.1. Definition
 - 3.3.2. Advantages and Disadvantages
 - 3.3.3. Technologies Used
 - 3.3.4. Ethical and Legal Aspects
- 3.4. Organization of Consultations for Patients with Chronic Home Ventilation
 - 3.4.1. Definition of the Organization of Consultations for Patients with Chronic Home Ventilation
 - 3.4.2. Methods of Organizing Consultations
 - 3.4.3. Assessment of the Effectiveness of Consultation Organization
- 3.5. Nursing Care for Patients with Chronic Home Ventilation
 - 3.5.1. Role of Nursing in Management
 - 3.5.2. Nursing Care
 - 3.5.3. Patient and Caregiver Education
 - 3.5.4. Prevention and Management of Complications
- 3.6. Management of Psychiatric Issues in Patients with Chronic Home Ventilation
 - 3.6.1. Prevalence of Anxiety and Depression
 - 3.6.2. Clinical Manifestations of Anxiety and Depression
 - 3.6.3. Strategies for Managing Anxiety and Depression
 - 3.6.4. Prevention of Anxiety and Depression



- 
- 3.7. Teleconsultation in Non-Invasive Mechanical Ventilation: Benefits and Limitations
 - 3.7.1. Advantages and Limitations of Teleconsultation in NIMV
 - 3.7.2. Use of Information Technologies in NIMV During the Pandemic
 - 3.7.3. Impact of Teleconsultation on the Quality of NIMV Care
 - 3.7.4. Factors Influencing the Effectiveness of Teleconsultation in NIMV
 - 3.7.5. Need for Protocols and Guidelines for Teleconsultation in NIMV
 - 3.8. Telehealth in NIMV
 - 3.8.1. Teleducation and Teletraining: Opportunities and Challenges
 - 3.8.2. Legal and Ethical Aspects
 - 3.9. Telemedicine and NIMV in Various Contexts
 - 3.9.1. The COVID-19 Pandemic
 - 3.9.2. Rural and Hard-to-Access Areas: Strategies and Solutions
 - 3.9.3. In Developing Countries: Challenges and Opportunities
 - 3.10. Economic and Financial Evaluation of Telemedicine in Non-Invasive Mechanical Ventilation: Cost-Effectiveness and Sustainability
 - 3.10.1. Basic Concepts of Economic Evaluation in Telemedicine
 - 3.10.2. Cost-Effectiveness of Telemedicine in NIMV
 - 3.10.3. Cost Analysis of Teleconsultation in NIMV
 - 3.10.4. Financial Sustainability of Telemedicine in NIMV
 - 3.10.5. Limitations and Challenges in the Economic Evaluation of Telemedicine in NIMV

“*Enrolling in this Postgraduate Diploma, you will enjoy the most cutting-edge didactic contents of the educational environment on NIMV in Specific Pathologies”*

0?

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.





“

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 we use the Case Method

What should a professional do in a given situation? 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. Specialists learn better, faster, and more sustainably over time.

With TECH you will 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 power 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 achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into 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.



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 the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

Professionals will learn through real cases and by resolving 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, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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.

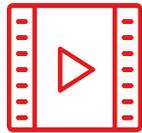
Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

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 highly 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.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and 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 the videos as many times as you like.



Interactive Summaries

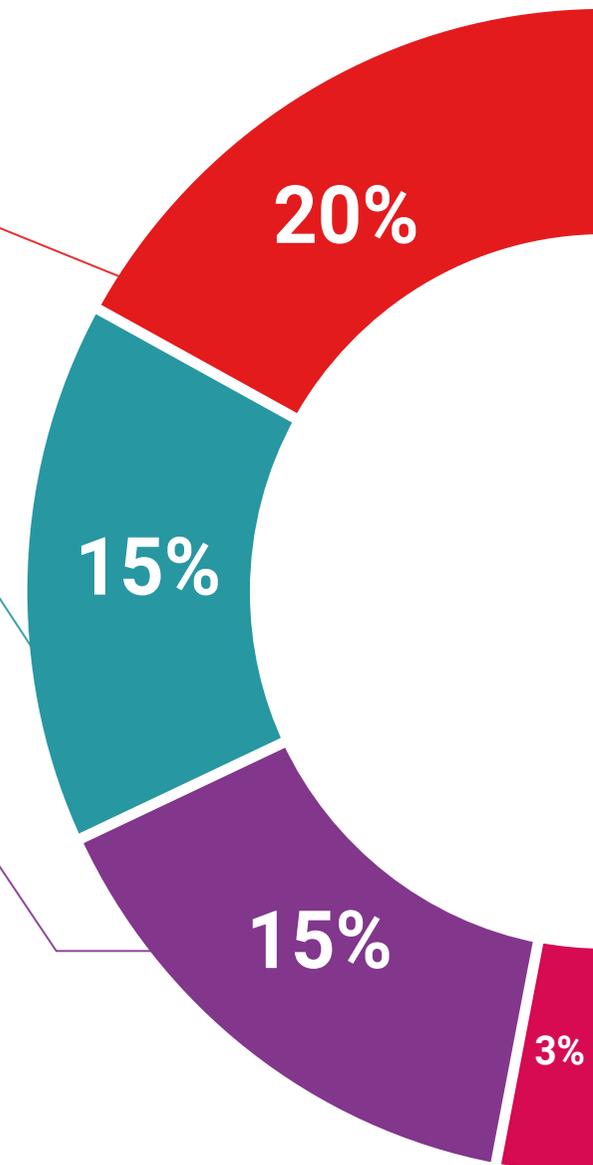
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

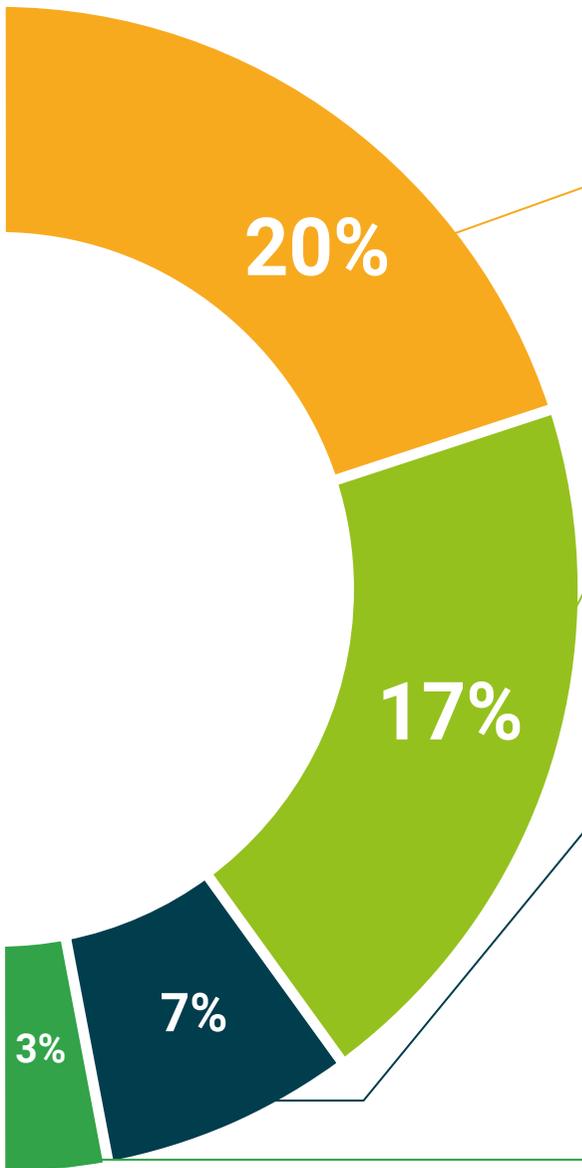
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 on the usefulness of learning by observing experts. The system known as 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 NIMV in Specific Pathologies guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma qualification issued by TECH Global University.





“

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 Diploma in NIMV in Specific Pathologies** 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.

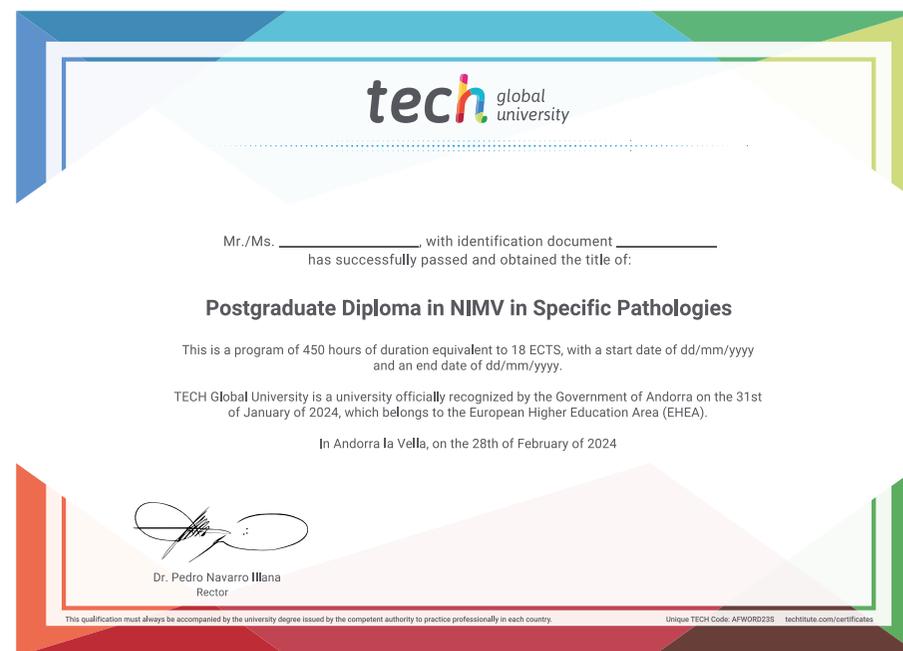
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in NIMV in Specific Pathologies**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**





Postgraduate Diploma

NIMV in Specific Pathologies

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

Postgraduate Diploma

NIMV in Specific Pathologies

