

# Postgraduate Diploma

## NIMV in Specific Pathologies for Nursing





## Postgraduate Diploma NIMV in Specific Pathologies for Nursing

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-nimv-specific-pathologies-nursing](http://www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-nimv-specific-pathologies-nursing)

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# 01

# Introduction

NIMV has been shown to be beneficial, according to recent scientific research, in the management of pathologies such as COPD, ARDS or heart failure. Thanks to this method, it is possible to administer respiratory support to the patient without resorting to aggressive intubation methods, which helps to reduce the risks associated with these procedures. Therefore, it is essential for nurses who wish to optimize their professional update to keep up to date with the adjustment of their parameters and the management of complications in different clinical contexts. Because of this, TECH has created this 100% online program, which provides the student with cutting-edge knowledge in these fields without the need for cumbersome daily commutes to a study center.



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*It delves into the state-of-the-art methods for the adjustment of NIMV ventilatory parameters in conditions such as COPD or ARDS”*

Numerous scientific studies have shown in recent years that Non-Invasive Mechanical Ventilation has innumerable advantages in the management of different conditions related to respiratory function. Consequently, the most recent research has focused on developing state-of-the-art techniques and sophisticated care to increase the efficacy and safety of NIMV in the management of respiratory diseases. Therefore, nurses who wish to position themselves at the forefront of their profession are obliged to be continuously updated in this field.

For this reason, TECH has designed this program, through which the student will receive a complete update on the use of NIMV in a wide range of clinical contexts. Throughout this academic period, students will delve into the state-of-the-art care required by both pediatric and adult patients undergoing Non-Invasive Mechanical Ventilation. In the same way, you will learn about the updated methods of NIMV monitoring in conditions such as ARDS, COPD or Heart Failure.

This Postgraduate Diploma will be offered in a 100% online format that will allow nurses to access the educational materials at any time and from any location. In addition, the innovative *Relearning* study method will be implemented, which guarantees the acquisition of knowledge adapted to the academic pace of each student.

This **Postgraduate Diploma in NIMV in Specific Pathologies for Nursing** 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 Respiratory Care
- ♦ 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 the self-assessment process can be carried out 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



*This Postgraduate Diploma will allow you to delve into cutting-edge NIMV monitoring strategies in different clinical contexts"*

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*Get up to date 100% online without obliged to giving up your professional and personal life”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this 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.

*Delve into the latest recommendations to consider when administering NIMV in the pediatric patient.*

*Enjoy a curriculum designed by pulmonologists with extensive hospital experience related to NIMV management.*



# 02 Objectives

This program aims to provide the nurse with state-of-the-art knowledge regarding the application of NIMV in various pathologies. In this way, they will be able to provide optimal and updated care to patients who require this type of respiratory therapy. To achieve this, TECH offers a series of first class multimedia didactic resources, designed by excellent experts in the use of Non-Invasive Mechanical Ventilation.





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*Enhance your healthcare profile in a dynamic and highly effective way through educational resources such as interactive summaries and simulations of real cases”*



## General Objectives

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- ◆ Understand the importance and role of Non-Invasive Mechanical Ventilation in the treatment of acute and chronic respiratory pathologies
- ◆ Know the updated indications and contraindications for the use of Non Invasive Mechanical Ventilation, as well as the different types of devices and modes of ventilation
- ◆ Acquire skills and competences in the monitoring of the patient with Non Invasive Mechanical Ventilation, including the interpretation of the data obtained and the detection and prevention of complications
- ◆ Investigate the state-of-the-art technologies used in the telemonitoring of patients with Non Invasive Mechanical Ventilation and the ethical and legal aspects related to their use
- ◆ Delve into the main differences in Non Invasive Mechanical Ventilation in Pediatrics
- ◆ Delve into the ethical aspects related to the management of patients requiring NIV





## Specific Objectives

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### Module 1. Non-Invasive Mechanical Ventilation in Specific Pathologies

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

### Module 2. Non-Invasive Mechanical Ventilation In Pediatrics

- ♦ Understand the physiologic and anatomic differences between pediatric and adult patients regarding Non-Invasive Mechanical Ventilation
- ♦ Know the indications and contraindications for Non-Invasive Mechanical Ventilation in Pediatrics
- ♦ Correctly adjust Non-Invasive Mechanical Ventilation in Pediatrics according to the patient's individual needs
- ♦ Delve into the updated techniques for monitoring and adjustment of Non-Invasive Mechanical Ventilation in Pediatrics
- ♦ Manage the main pediatric respiratory pathologies requiring Non-Invasive Mechanical Ventilation based on the latest scientific evidence

### Module 3. Monitoring in Chronic Home NIMV

- ♦ Know the recent indications for the use of NIMV in chronic patients at home
- ♦ Explore telemonitoring as a tool for the follow-up and evaluation of NIMV patients
- ♦ Identify updated strategies for the prevention and management of Anxiety and Depression in NIMV patients
- ♦ Explore the opportunities and challenges of tele-education and tele-training in NIMV



*Complete your clinical update  
in only 6 weeks and enjoy the  
best educational methodology  
in the academic panorama"*

03

# Course Management

With the purpose of maintaining the outstanding academic quality that distinguishes TECH programs, this program is directed by excellent specialists in the field of Pulmonology. These professionals, throughout their hospital career, have acquired great skills in the management of Non-Invasive Mechanical Ventilation. In this way, they will share with the students a series of knowledge fully applicable in their hospital clinical experiences.





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*This program is taught by a highly prestigious teaching team, composed of the best experts in the use of Non-Invasive Mechanical Ventilation"*

## 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

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- 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

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*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. López Padilla, Daniel

- ♦ Pulmonology Specialist and researcher
- ♦ FEA in the Intermediate Respiratory Care Unit of the Hospital General Universitario Gregorio Marañón
- ♦ Lecturer in undergraduate university studies related to Health Sciences
- ♦ Coordinator of the Emerging Group of Diagnostic and Therapeutic Techniques and Lung Transplantation of the Spanish Society of Pulmonology and Thoracic Surgery
- ♦ Member of the Integrated Non-Invasive Ventilation and Intermediate Respiratory Care Units Research Program of the Spanish Society of Pulmonology and Thoracic Surgery
- ♦ Editor-in-Chief of the Revista de Patología Respiratoria (Journal of Respiratory Pathology)
- ♦ Author of various publications in scientific journals
- ♦ Doctorate in Medicine from the Autonomous University Madrid

### Dr. Esteban Ronda, Violeta

- ♦ Specialist in Pulmonology
- ♦ Responsible for the Non Invasive Mechanical Ventilation consultation at the University Hospital of Sant Joan
- ♦ Pulmonologist at the Hospital Universitario de Sant Joan
- ♦ Master's Degree in Advances in Diagnosis and Treatment of sleep disorders San Antonio Catholic University of Murcia
- ♦ Master's Degree in Biomedical Research at the University of Valencia
- ♦ Member of: SEPAR and the Valencian Society of Pulmonology

### Dr. Bascuas Arribas, Marta

- ♦ Specialist Pediatrician
- ♦ FEA of Pediatric Pulmonology at the University Children's Hospital Niño Jesús
- ♦ Member of the Mucopolysaccharadosis Committee of the University Children's Hospital Niño Jesús
- ♦ Author of several scientific publications linked to her specialty



*Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"*

# 04

# Structure and Content

The content addressed in this Postgraduate Diploma encompasses the most relevant and innovative concepts in the field of Non-Invasive Mechanical Ventilation. In this way, the nurse will delve into the NIMV adjustment techniques in pediatric or adult patients with different conditions, as well as the particularities of home mechanical ventilation. All this, enjoying a 100% online modality that will allow you to be updated 24 hours a day.





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*Through the Relearning methodology, you will optimize your study time by focusing efficiently on the most relevant concepts, avoiding long hours of dedication"*

## Module 1. Non-Invasive Mechanical Ventilation in Specific Pathologies

- 1.1. Non-Invasive Mechanical Ventilation in Chronic Obstructive Pulmonary Disease (COPD)
  - 1.1.1. Indications and Contraindications in COPD Patients
  - 1.1.2. Selection and Adjustment of Ventilatory Parameters in COPD
  - 1.1.3. Evaluation of the Efficacy
  - 1.1.4. NIMV Weaning Strategies 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 the Heart Failure Patient
  - 1.2.2. Monitoring of the Patient with Heart Failure during Non-Invasive Mechanical Ventilation
  - 1.2.3. Non-Invasive Mechanical Ventilation in Patients with Acute Decompensated Heart Failure
  - 1.2.4. Non-Invasive Mechanical Ventilation in Patients with Chronic Heart Failure and its Impact on the Patient's 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 for NIMV in Patients with ARDS
  - 1.3.3. Selection and Adjustment of Ventilatory Parameters in Patients with ARDS in NIMV
  - 1.3.4. Monitoring and Assessment of Response to NIMV in Patients with ARDS
  - 1.3.5. Comparison of NIMV with IMV in Patients with ARDS
- 1.4. Non-Invasive Mechanical Ventilation in Diffuse Interstitial Lung Diseases (ILD)
  - 1.4.1. Pathophysiology Between Interstitial Lung Diseases (ILD)
  - 1.4.2. Scientific Evidence in the Management of NIMV in ILD
  - 1.4.3. Indications for NIMV in Patients with ILD
  - 1.4.4. NIMV Efficiency Assessment in ILD Patients
- 1.5. Non-Invasive Mechanical Ventilation In Obesity
  - 1.5.1. Pathophysiology of Obesity and its Relation to NIMV
  - 1.5.2. Indications and Contraindications in Obese Patients
  - 1.5.3. Specific NIMV settings in Obese Patients
  - 1.5.4. Strategies for the 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 Disease and Ribcage
  - 1.6.1. Indications
  - 1.6.2. Main Neuromuscular and Ribcage Diseases
  - 1.6.3. Selection of Ventilatory Modes
  - 1.6.4. Ventilatory Parameter Adjustment
  - 1.6.5. NIMV Efficacy and Tolerance Assessment
  - 1.6.6. Indications for Tracheostomy
  - 1.6.7. Addressing Complications
- 1.7. Non-Invasive Mechanical Ventilation in COVID-19 Patients
  - 1.7.1. Indications for NIMV in Patients with COVID-19
  - 1.7.2. Ventilatory Parameter Adjustment
  - 1.7.3. Safety Considerations in NIMV in COVID-19
  - 1.7.4. Evaluation of the 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 the Use of NIMV in Acute Hypoxemic Respiratory Failure
  - 1.8.3. NIMV Parameters and Settings in Patients with Acute Hypoxemic Respiratory Failure
  - 1.8.4. Complications Associated with the Use of NIMV in Acute Hypoxemic Respiratory Failure
  - 1.8.5. Evaluation of the Effectiveness of NIMV in Improving Oxygenation and Reducing Work of Breathing in Hypoxemic Acute Respiratory Failure
  - 1.8.6. Comparison of NIMV with Invasive Mechanical Ventilation in Patients with Hypoxemic Acute Respiratory Failure
- 1.9. Non-Invasive Mechanical Ventilation in the Asthmatic Patient in Acute Asthma
  - 1.9.1. Indications for NIMV in Asthmatic Crisis
  - 1.9.2. Ventilatory Parameters to be Adjusted
  - 1.9.3. Monitoring of the Acute Asthmatic Patient During NIMV
  - 1.9.4. Alarm Data for Poor NIMV Response
- 1.10. Non-Invasive Mechanical Ventilation in Pre-intubation Preparation
  - 1.10.1. Benefits, Risks and Limitations
  - 1.10.2. Management of NIMV in the Transition to Invasive Mechanical Ventilation

## Module 2. Non-Invasive Mechanical Ventilation In Pediatrics

- 2.1. Differences between Non-Invasive Mechanical Ventilation in Adult and Pediatric Patients
  - 2.1.1. Pulmonary Physiology in Pediatric Patients
  - 2.1.2. Main Differences in the Management of the Pediatric Airway
  - 2.1.3. Common Respiratory Pathologies in Pediatrics requiring NIMV
  - 2.1.4. Management of 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. Modes for NIMV 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 Adjustment of Ventilation in Pediatrics
- 2.4. Adjustments of Non-Invasive Mechanical Ventilation In Pediatrics
  - 2.4.1. Adjustment of Support Pressures and PEEP
  - 2.4.2. Adjustment of Airflow
  - 2.4.3. Adjustment of the Respiratory Frequency
  - 2.4.4. Inspiratory Time Setting
- 2.5. Monitoring and Adjustments of Non-Invasive Mechanical Ventilation In Pediatrics
  - 2.5.1. Clinical Assessment
  - 2.5.2. Assessment of Arterial Blood Gas Analysis
  - 2.5.3. Pulse Oximetry Evaluation
  - 2.5.4. Assessment of Capnography
- 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 Insufficiency
  - 2.6.6. Tracheostomy
  - 2.6.7. Neuromuscular Diseases
  - 2.6.8. Disconnections for Orotracheal Intubation

- 2.7. Interfaces in Pediatric Patient NIMV
  - 2.7.1. Nasal Mask
  - 2.7.2. Oronasal 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 Removal of the Support
- 2.9. Home NIMV in Pediatrics
  - 2.9.1. Indications for Home NIMV
  - 2.9.2. Selection of Suitable Patients
  - 2.9.3. Training of Caregivers
  - 2.9.4. Home Monitoring
- 2.10. NIMV Withdrawal Techniques in Pediatrics
  - 2.10.1. Gradual withdrawal of NIMV
  - 2.10.2. Evaluation of Tolerance to the Withdrawal of NIMV
  - 2.10.3. Use of Oxygen Therapy After Withdrawal of NIMV
  - 2.10.4. Patient Evaluation after the Withdrawal of NIMV

### Module 3. Monitoring in Chronic Home NIMV

- 3.1. Chronic Home Ventilation Therapy
  - 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 Therapy
  - 3.2.1. Parameters to Monitoring
  - 3.2.2. Monitoring Methods
  - 3.2.3. Interpretation of Data Obtained During Monitoring
  - 3.2.4. Monitoring and Evaluation Techniques

- 3.3. Monitoring Patients with Chronic Home Ventilation Therapy
  - 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 in the Patient with Chronic Ventilation at Home
  - 3.4.1. Definition of the Organization of Consultations in the Patient with Chronic Ventilation at Home
  - 3.4.2. Methods of Organizing Consultations
  - 3.4.3. Evaluation of the Effectiveness of the Organization of the Consultations
- 3.5. Nursing Care in the Patient with Chronic Ventilation at Home
  - 3.5.1. Role of Nursing in Management
  - 3.5.2. Nursing Care
  - 3.5.3. Education of the Patient and the Patient's Carer
  - 3.5.4. Prevention and Management of Complications
- 3.6. Management of the Psychiatric Sphere in the Patient with Chronic Ventilation at Home
  - 3.6.1. Prevalence of Anxiety and Depression
  - 3.6.2. Clinical Manifestations of Anxiety and Depression
  - 3.6.3. Management Strategies for of Anxiety and Depression
  - 3.6.4. Prevention of Anxiety and Depression
- 3.7. Teleconsultation in Noninvasive Mechanical Ventilation: Benefits and Limitations
  - 3.7.1. Advantages and Limitations of 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. The Need for NIMV Teleconsultation Protocols and Guidelines
- 3.8. Telehealth in NIMV
  - 3.8.1. Tele-education and Tele-training: Opportunities and Challenges
  - 3.8.2. Legal and Ethics Aspects
- 3.9. Telemedicine and NIMV in Different Contexts
  - 3.9.1. The COVID-19 Pandemic
  - 3.9.2. Rural and Hard-to-Reach Areas: Strategies and Solutions
  - 3.9.3. In Developing Countries: Challenges and Opportunities



- 3.10. Economic and Financial Evaluation of Telemedicine in Noninvasive 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 Teleconsultations in NIMV
  - 3.10.4. Financial Sustainability of Telemedicine in NIMV
  - 3.10.5. Limitations and Challenges in the Economic Evaluation of NIMV Telemedicine

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*Get the most up-to-date knowledge on NIMV in Specific Pathologies for Nurses by enrolling in this Postgraduate Diploma"*

05

# Methodology

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

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



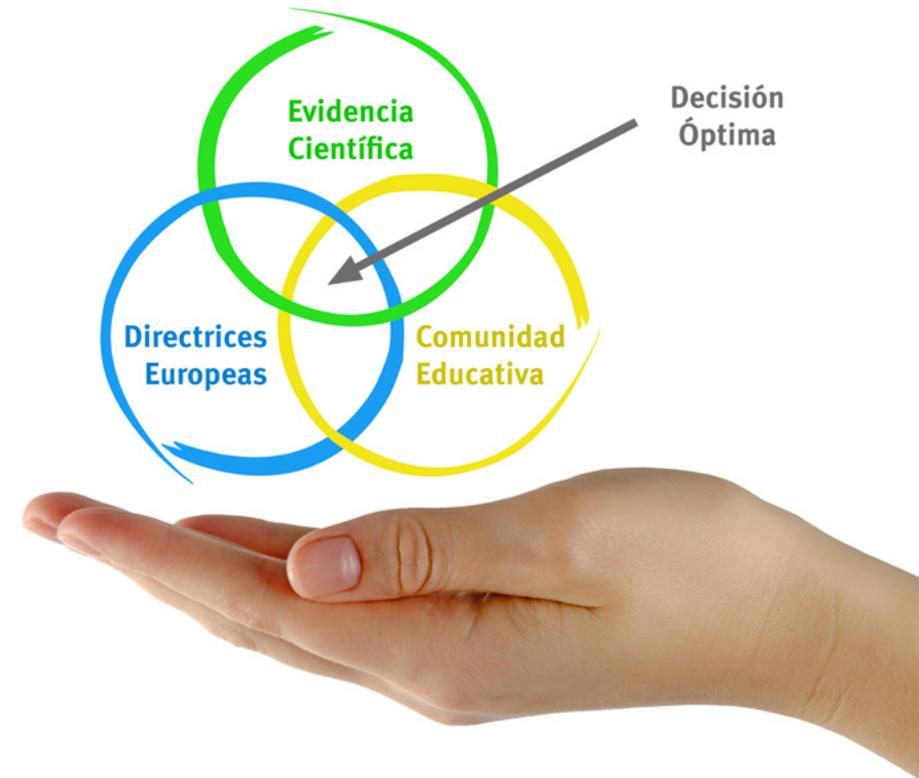
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.*



According to Dr. 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.

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

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

1. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



*The nurse will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

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

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is really specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you want.



### Interactive Summaries

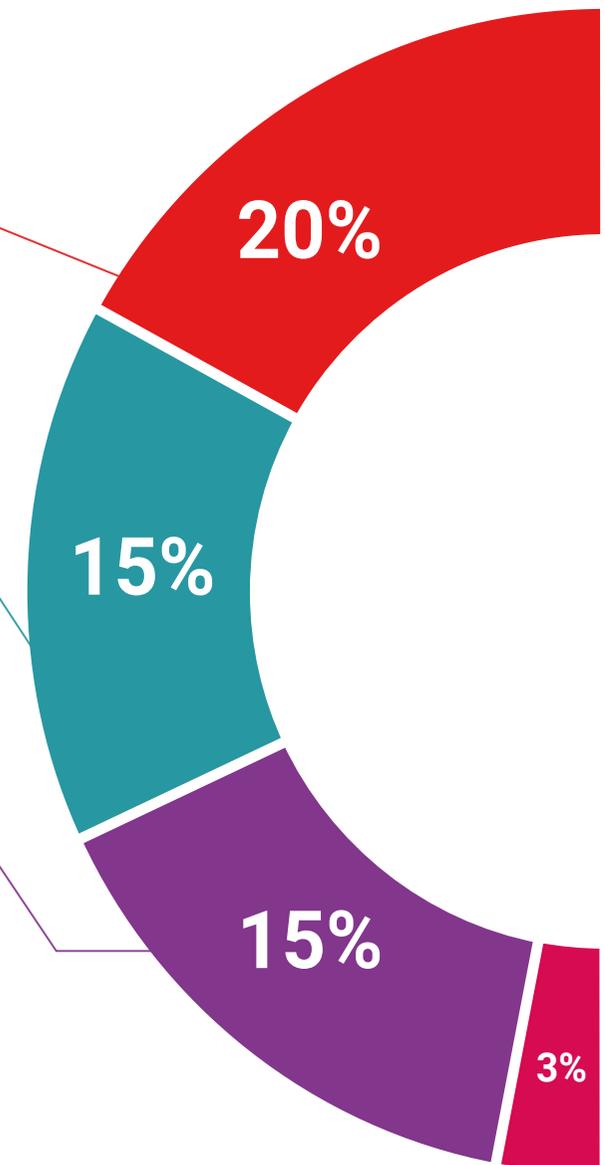
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

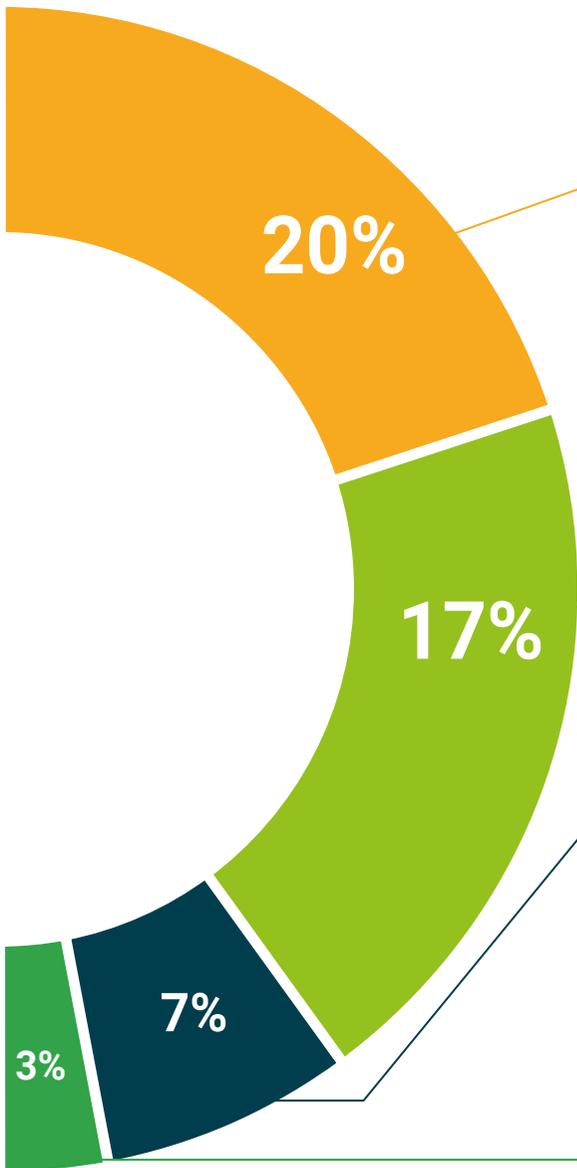
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

# Certificate

The Postgraduate Diploma in NIMV in Specific Pathologies for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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

This program will allow you to obtain your **Postgraduate Diploma in NIMV in Specific Pathologies for Nursing** endorsed by **TECH Global University**, the world's largest online university.

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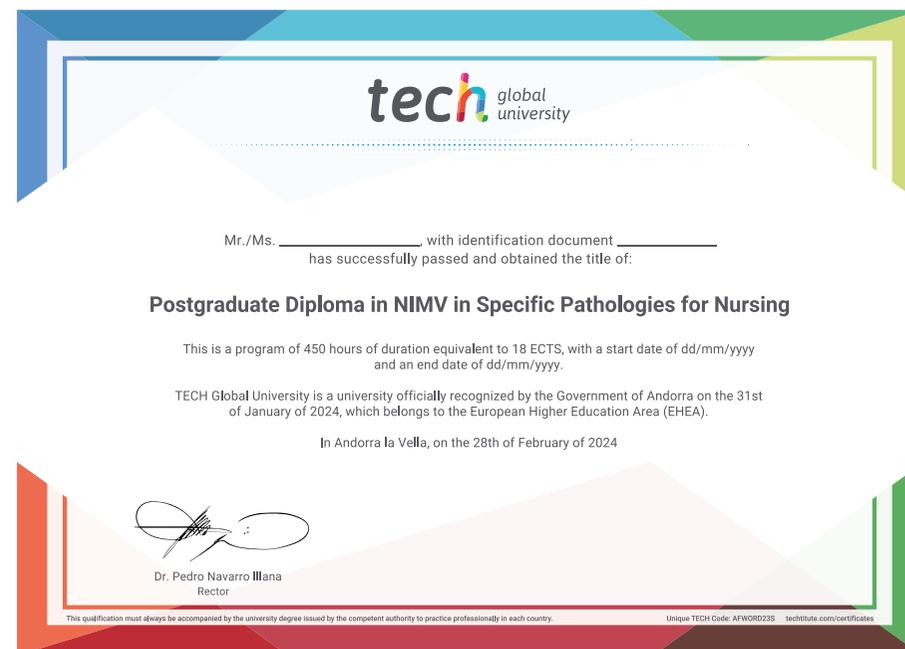
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Title: **Postgraduate Diploma in NIMV in Specific Pathologies for Nursing**

Modality: **online**

Duration: **6 months**

Credits: **18 ECTS**



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

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**Postgraduate Diploma**  
NIMV in Specific  
Pathologies for Nursing

- » Modality: online
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- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma NIMV in Specific Pathologies for Nursing

