

# Postgraduate Certificate

Monitoring in  
Chronic Home  
NIMV for Nursing





## Postgraduate Certificate Monitoring in Chronic Home NIMV for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/nursing/postgraduate-certificate/monitoring-chronic-home-nimv-nursing](http://www.techtitute.com/in/nursing/postgraduate-certificate/monitoring-chronic-home-nimv-nursing)

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# 01

# Introduction

Telemonitoring devices have significantly changed the way in which patients with home mechanical ventilation are cared for. Thanks to them, it is possible to continuously monitor the clinical situation of patients without them physically coming to the office. Since this generates greater comfort for the patient and ensures constant surveillance of their state of health, nurses must become familiar with these advances in order to position themselves at the forefront of healthcare. For this reason, TECH has created this program, which will allow the student to know in depth these tools and the state-of-the-art care required by the individual with home mechanical ventilation. This update, moreover, will be done 100% online and without the need to leave your home.





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*Delve into the state-of-the-art monitoring tools that allow you to establish a rigorous follow-up of the patient with HMV”*



Scientific evolution has led to the development of telemonitoring devices that have transformed the way in which care is provided to patients with home mechanical ventilation. Therefore, these advances have been fundamental to guarantee an optimal follow-up of the patients' health without forcing them to make uncomfortable trips to hospital centers. Likewise, in the face-to-face consultation, improved care has been incorporated that contributes to improving the quality of life of people with HMV. Consequently, nurses must be fully aware of developments in these fields in order to optimize their professional update.

That is why TECH has created this Postgraduate Certificate, through which the student will delve into the latest developments surrounding the world of home mechanical ventilation. During 150 hours of study, students will learn about the operation of cutting-edge telemonitoring technologies and the sophisticated care required by patients to prevent complications associated with HMV, among other issues.

This educational proposal is offered in a 100% online format, which will allow the student to access the didactic content of the program at any time and place through a device with Internet access. In addition, this program has the revolutionary *Relearning* methodology, which enables the nurse to deepen in the key concepts of the syllabus at their own pace of study.

This **Postgraduate Certificate in Monitoring in Chronic Home NIMV for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practical cases presented by specialists in Pulmonology
- ♦ 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 Certificate allows you to identify the advanced care required by the patient with Home Mechanical Ventilation"*

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*Get your desired health update from the best experts in Home NIMV”*

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.

*Throughout this academic period, you will delve into the state-of-the-art techniques for interpreting and analyzing data obtained during monitoring.*

*Do you want to update your knowledge in Monitoring in Chronic Home NIMV for Nursing? This program provides you with the best tools to achieve it in only 150 hours!.*



# 02 Objectives

The purpose of this program is to provide the nurse with updated knowledge in the field of monitoring in chronic home NIMV, as well as in the state-of-the-art care required by the patient undergoing the same. This learning will be carried out in only 6 weeks and enjoying the most complete didactic materials of the educational panorama.







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The 100% online methodology of this Postgraduate Certificate will allow you to optimize your learning while you carry out your daily activities”



## 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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- ◆ 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

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*Thanks to this program, you will delve into the challenges that technology has generated in the healthcare environment”*



03

# Course Management

In order to preserve the excellent educational quality that characterizes TECH programs, this Postgraduate Certificate is taught by leading experts in the field of Pneumology, who have vast experience in the management of Non Invasive Mechanical Ventilation. Since these professionals are in charge of developing the didactic materials of this program, the knowledge they will transmit to the students will be highly applicable in daily clinical practice.





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*TECH has selected the best specialists in Pulmonology and experts in NIV so that you can be updated in the field of home mechanical ventilation"*



## Management



### Dr. Landete Rodríguez, Pedro

- ♦ Head of the Intermediate Respiratory Care Unit of the Hospital Emergencias Nurse Isabel Zenda
- ♦ Co-coordinator of the Basic Ventilation Unit of the Hospital Universitario de La Princesa
- ♦ Pulmonologist at the Hospital Universitario de La Princesa
- ♦ Pulmonologist at Blue Healthcare
- ♦ Researcher in several research groups
- ♦ Professor in undergraduate and postgraduate university studies
- ♦ Author of scientific numerous publications International journals and participation in book chapters
- ♦ Speaker at international medical congresses
- ♦ Doctorate *Cum Laude* by the Autonomous University of Madrid

## Professors

### 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



# 04

# Structure and Content

This qualification is made up of the most relevant and updated concepts in Chronic Home NIMV Monitoring. Each of the related topics can be found in various multimedia formats, including explanatory video, interactive summary or practical exercises. Thanks to this and by means of an online methodology, an enjoyable and feasible learning process is guaranteed 24 hours a day.







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*Enjoy fully updated academic content available in various multimedia formats to optimize your study process”*

## Module 1. Monitoring in Chronic Home NIMV

- 1.1. Chronic Home Ventilation Therapy
  - 1.1.1. Definition of Chronic Home Ventilation
  - 1.1.2. Indications for Chronic Home Ventilation
  - 1.1.3. Types of Chronic Home Ventilation
  - 1.1.4. Benefits of Chronic Home Ventilation
- 1.2. Monitoring Patients with Chronic Home Ventilation Therapy
  - 1.2.1. Parameters to Monitoring
  - 1.2.2. Monitoring Methods
  - 1.2.3. Interpretation of Data Obtained During Monitoring
  - 1.2.4. Monitoring and Evaluation Techniques
- 1.3. Monitoring Patients with Chronic Home Ventilation Therapy
  - 1.3.1. Definition
  - 1.3.2. Advantages and Disadvantages
  - 1.3.3. Technologies Used
  - 1.3.4. Ethical and Legal Aspects
- 1.4. Organization of Consultations in the Patient with Chronic Ventilation at Home
  - 1.4.1. Definition of the Organization of Consultations in the Patient with Chronic Ventilation at Home
  - 1.4.2. Methods of Organizing Consultations
  - 1.4.3. Evaluation of the Effectiveness of the Organization of the Consultations
- 1.5. Nursing Care in the Patient with Chronic Ventilation at Home
  - 1.5.1. Role of Nursing in Management
  - 1.5.2. Nursing Care
  - 1.5.3. Education of the Patient and the Patient's Carer
  - 1.5.4. Prevention and Management of Complications
- 1.6. Management of the Psychiatric Sphere in the Patient with Chronic Ventilation at Home
  - 1.6.1. Prevalence of Anxiety and Depression
  - 1.6.2. Clinical Manifestations of Anxiety and Depression
  - 1.6.3. Management Strategies for of Anxiety and Depression
  - 1.6.4. Prevention of Anxiety and Depression







- 1.7. Teleconsultation in Noninvasive Mechanical Ventilation: Benefits and Limitations
  - 1.7.1. Advantages and Limitations of NIMV
  - 1.7.2. Use of Information Technologies in NIMV During the Pandemic
  - 1.7.3. Impact of Teleconsultation on the Quality of NIMV Care
  - 1.7.4. Factors Influencing the Effectiveness of Teleconsultation in NIMV
  - 1.7.5. The Need for NIMV Teleconsultation Protocols and Guidelines
- 1.8. Telehealth in NIMV
  - 1.8.1. Tele-education and Tele-training: Opportunities and Challenges
  - 1.8.2. Legal and Ethics Aspects
- 1.9. Telemedicine and NIMV in Different Contexts
  - 1.9.1. The COVID-19 Pandemic
  - 1.9.2. Rural and Hard-to-Reach Areas: Strategies and Solutions
  - 1.9.3. In Developing Countries: Challenges and Opportunities
- 1.10. Economic and Financial Evaluation of Telemedicine in Noninvasive Mechanical Ventilation: Cost-Effectiveness and Sustainability
  - 1.10.1. Basic Concepts of Economic Evaluation in Telemedicine
  - 1.10.2. Cost-effectiveness of Telemedicine in NIMV
  - 1.10.3. Cost Analysis of Teleconsultations in NIMV
  - 1.10.4. Financial Sustainability of Telemedicine in NIMV
  - 1.10.5. Limitations and Challenges in the Economic Evaluation of NIMV Telemedicine



*Enroll in this program and study through the Relearning method, which will allow you to acquire complex concepts with less effort and more performance"*

# 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 Certificate in Monitoring in Chronic Home NIMV for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Monitoring in Chronic Home NIMV for Nursing** contains the most complete and up-to-date scientific on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The certificate 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 Monitoring in Chronic Home NIMV for Nursing**

Official N° of Hours: **150 h.**



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

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education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development languages  
virtual classroom



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