

# Postgraduate Diploma Comprehensive Airway Management





## Postgraduate Diploma Comprehensive Airway Management

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

Website: [www.techtitute.com/pk/medicine/postgraduate-diploma/postgraduate-diploma-comprehensive-airway-management](http://www.techtitute.com/pk/medicine/postgraduate-diploma/postgraduate-diploma-comprehensive-airway-management)

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# 01

# Introduction

Advances in intubation and resuscitation devices and materials requires specialists to be constantly updated to be able to perform with guarantees the intubation procedures and techniques for difficult airway adapted to the new reality. This program offers the opportunity to achieve this through the latest educational technology for a safe approach to critically ill patients.

*Keeping up to date on the procedures in comprehensive airway management is key to providing better patient care.*



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*The new scenarios in anesthesia procedures in critically ill patients motivate us to propose new training programs that meet the real needs of experienced professionals, so that they can incorporate advances in difficulties in airway (DA) management into their medical practice”*



Proper airway management is one of the main challenges and concerns for anesthesiologists in their daily practice, so its correct knowledge and treatment is an aspect of vital importance in the specialty. Although the incidence of DA is low, lack of skills and knowledge in this area can lead to permanent brain damage and even death due to critical hypoxia in DA emergency.

Airway management and control, ventilation and oxygenation are also essential and priority components of cardiopulmonary resuscitation. Although the different training programs contemplate them, their teaching is different and should be separated, since more exhaustive training increases "team" efficiency and contributes to greater patient safety.

Furthermore, the latest advances in anesthesiology in recent years are included. Thus, aspects such as the general approach to perioperative bleeding, new anesthetic drugs, new non-invasive ventilation systems, perioperative medicine, and aspects related to research, training, simulation and clinical safety are also covered in this Postgraduate Diploma.



*You will be able to learn, through the latest educational technology, the most recent advances in comprehensive airway management"*

This **Postgraduate Diploma in Comprehensive Airway Management** is the most complete and up-to-date scientific program on the market. The most important features of the program include:

- Clinical cases presented by specialists in anesthesiology and other areas. 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.
- Real high-resolution images of pathologies, diagnostic imaging tests and guided procedures.
- Presentation of practical workshops on procedures and techniques.
- Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- Action protocols with the most important advances in the specialty.
- All this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- With a special emphasis on evidence-based medicine and research methodologies in anesthesiology.
- Content that is accessible from any fixed or portable device with an Internet connection.

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*This Postgraduate Diploma may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge of Comprehensive Airway Management, you will obtain a qualification from TECH - Technological University”*

The teaching staff is made up of a team of leading anesthesiologists, who bring to this training the experience of their work, in addition to recognized specialists in other medical areas.

The multimedia content developed with the latest educational technology will provide the physician with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

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

*Incorporate the latest developments in of Comprehensive Airway Management to your medical practice and improve patient prognosis.*

*It includes real clinical cases to bring medical practice as close as possible to the development of the program.*

# 02 Objectives

The main objective is to facilitate the incorporation of advances in comprehensive airway management, so that specialists can update their knowledge in a practical way, using the latest educational technology and adapting the educational process to their real needs.







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*This refresher program will generate a sense of confidence in decision making in Comprehensive Airway Management, and will help you grow professionally”*



## General Objective

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- Update specialist physicians on the procedures and techniques performed in comprehensive airway management, incorporating the latest advances to increase the quality of their daily medical practice and improve patient prognosis.



## Specific Objectives

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- Define Difficult Airway (DA), both anticipated and emergent, and identify the main aspects of its detection and effective establishment.
- Determine the management strategy through the recommended algorithms.
- Update on the techniques and resources necessary for the correct application of each DA management strategy.
- Identify the anatomical "guide" points for the performance of intubation techniques.
- Design the "Airway Trolley" integrating the repositioning circuit.
- DA management in awake and anesthetized patients.
- Review the phases of Rapid Sequence Intubation (RSI).
- Recognize the role of regional techniques in airway management.
- Acquire technical knowledge of the approach to the DA with extraglottic devices, videolaryngoscopy and fibrobronchoscopy.
- Update on criteria for difficult post intubation extubation.
- Predict and evaluate pediatric DA.
- Predict and evaluate Obstetric DA.



- ♦ Describe the types of airway trauma.
- ♦ Analyze the implication of anesthesiology in perioperative medicine, its contributions and interest.
- ♦ Review the new drugs included in the anesthetic therapeutic arsenal.
- ♦ Incorporate new antiplatelet and anticoagulant drugs into routine clinical therapy, as well as new hemostasis monitoring systems.
- ♦ Update new strategies for hemodynamic management.
- ♦ Discuss the new invasive and non-invasive mechanical ventilation modalities.
- ♦ Incorporate new perspectives in clinical training through virtual simulators in medical procedures.
- ♦ Contrast therapeutic empiricism versus goal-directed monitoring, the role of advanced hemodynamic optimization.
- ♦ Value simulation and teaching as a postgraduate training tool.
- ♦ Evaluate the predictive factors in morbi-mortality risk determinants.





03

# Course Management

The materials have been created by a team of leading professionals in the field of comprehensive airway management, who work in prestigious hospitals. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.





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*Learn the latest advances in comprehensive airway management from leading professionals”*



## Management



### Dr. Muedra Navarro, Vicente

- ♦ Head of the Anesthesia Service at the General University Hospital Consortium of Valencia.
- ♦ Professor-Doctor of Anesthesiology at the Universitat de Valencia
- ♦ Degree in Medicine from the University of Valencia
- ♦ MIR Specialist in Anesthesiology, Resuscitation and Pain Therapeutics at La Fe University Hospital in Valencia
- ♦ PhD in Medicine and Surgery from the University of Valencia.
- ♦ Professor of the Department of Biomedical Sciences. Faculty of Medicine. CEU Cardenal Herrera University. Valencia
- ♦ Director of doctoral theses and Master's Degree theses
- ♦ Member of several Health Care Improvement Commissions at La Ribera University Hospital
- ♦ University Expert in the Comprehensive Management of the Airway, by the Catholic University of Valencia
- ♦ Vice-president of the Department of Anesthesiology and Critical Care in Cardiac Surgery of the Valencian Community
- ♦ Member of the Spanish Society of Anesthesiology, Resuscitation and Pain Therapy
- ♦ Member of the Spanish Society of Multimodal Rehabilitation
- ♦ Head researcher in several research projects with competitive funding from Public Institutions (Carlos III Health Institute)
- ♦ Collaborating Researcher in the Prometeo Program for research groups of Excellence in the Department of Education and Science at Generalitat Valenciana.
- ♦ Research member of the Translational Medicine Doctoral Program in the research line Multidisciplinary Intervention in Prevention and Clinical Therapeutics of International Doctoral School CEINDO

## Coordination

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- ♦ Denia hospital Valencia

## Professors

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- ♦ Attending Physician. Denia Hospital. Alicante

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- ♦ Attending Physician. Denia Hospital. Alicante

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- ♦ Attending Physician. Gregorio Marañón General Hospital. Madrid.

### Dr. Escribá, Francisco

- ♦ Attending Physician. La Fe Polytechnic and University Hospital. Valencia

### Dr. Escudero, S.

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- ♦ Attending Physician. Gregorio Marañón General Hospital. Madrid.

### Dr. Gomar Sancho, Carmen

- ♦ Chair of Anesthesiology. Department Director. Barcelona Clinical Hospital.

### Dr. González, Antonio M.

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### Dr. Pérez violating, Ignacio

- ♦ Research Vice-Rector CEU Cardenal Herrera University

# 04

# Structure and Content

The curriculum structure has been designed by a team of professionals who recognize the implications of medical training in comprehensive airway management, who are aware of the relevance of current professional training and are committed to quality teaching through new educational technologies.



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*This Postgraduate Diploma in Comprehensive Airway Management is the most complete and up-to-date scientific program on the market”*

### Module 1. Latest Advances in Anesthesiology

- 1.1. Perioperative Medicine and Multimodal Rehabilitation: Future of Anesthesiology
- 1.2. Hemodynamic Optimization and Target-Guided Fluid Therapy
- 1.3. Clinical Simulation as a Teaching Tool in Postgraduate Education
- 1.4. Evidence-Based Medicine (EBM) in Anesthesiology
- 1.5. Contributions of Anesthesiology to Current Patient Expectations: Clinical Safety Pain Treatment
- 1.6. Pharmacological Developments in Anesthesiology
- 1.7. Perioperative Hemorrhage Preoperative Optimization, Monitoring, New Transfusion Strategies
- 1.8. Research as a Source of Progress in Anesthesiology
- 1.9. New Antiplatelet and Anticoagulant Drugs Involvement in Anesthetic Practice

### Module 2. Advanced Airway Management

- 2.1. Airway Anatomy
- 2.2. Airway Evaluation
- 2.3. DA Equipment
- 2.4. DA Definition and Incidence
- 2.5. DA Algorithms
- 2.6. Patient Intubation Indication and Preparation
- 2.7. Aspiration Prevention
- 2.8. Pre-oxygenation
- 2.9. Non-Invasive Ventilation for DA
- 2.10. DA Management without Intubation
- 2.11. Surgical Options in DA Management
- 2.12. DA Management in Polytraumatized Patients
- 2.13. DA Management in Extubation
- 2.14. DA Patient Clinical Pathway and DA Alert
- 2.15. Ventilatory Modes







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*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.



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*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 an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in professional medical 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. 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 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.

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

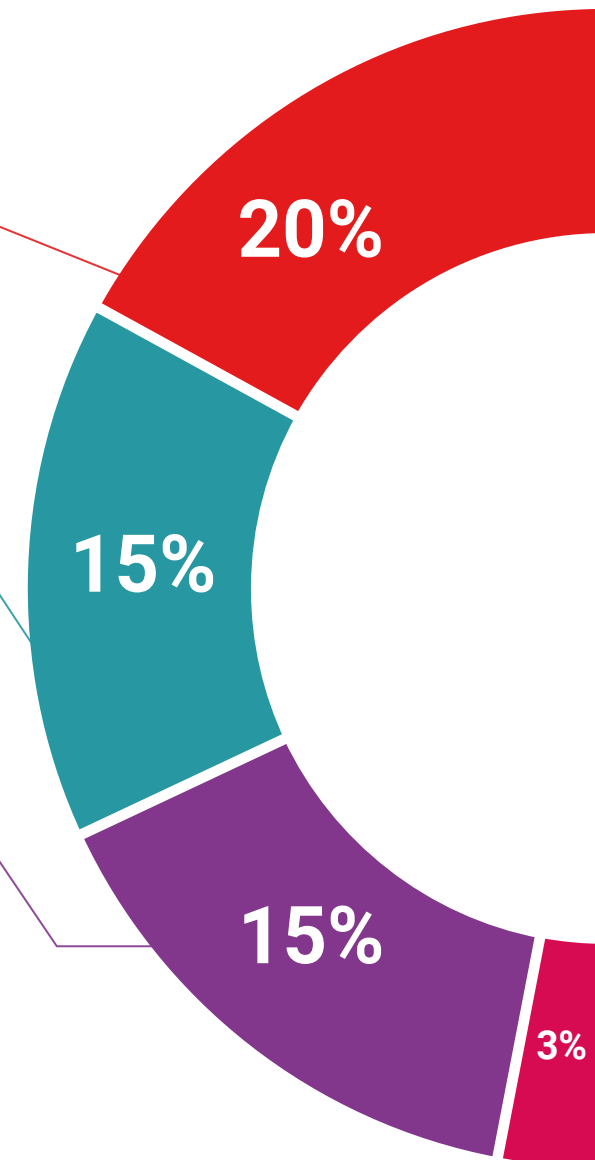
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 & Retesting

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 difficult future 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 Diploma in Comprehensive Airway Management** guarantees, in addition to the most accurate and updated training, access to a qualification issued by **TECH - Technological University**.





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

This Postgraduate Diploma in **Comprehensive Airway Management** contain the most complete and up-to-date scientific program on the market.

After the student has passed the evaluations, they will receive their corresponding certificate issued by **TECH - Technological University** via tracked delivery.

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

Title: Postgraduate Diploma in Comprehensive Airway Management

ECTS: 16

Official Number of Hours: 450



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

future

health

confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

personalized services **tech** technological university

knowledge present quality

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