

# Postgraduate Certificate

## Tumors of the Pleura, Mediastinum and Chest Wall



## Postgraduate Certificate

### Tumors of the Pleura, Mediastinum and Chest Wall

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

Website: [www.techtitute.com/us/medicine/postgraduate-certificate/tumors-pleura-mediastinum-chest-wall](http://www.techtitute.com/us/medicine/postgraduate-certificate/tumors-pleura-mediastinum-chest-wall)

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# 01

# Introduction

Tumors of the head and neck, as well as of the thoracic wall, are among the least frequent, so it is extremely important to study in depth their epidemiology, etiology and pathogenesis; so that early diagnoses and effective treatments can be carried out to improve the survival rates of patients. For this reason, TECH has created this program that trains students in the management of four groups of thoracic and head and neck tumor pathologies: tumors of pleural origin, mediastinal tumors (thymoma and thymic carcinoma), tumors of the chest wall and neuroendocrine tumors of pulmonary origin (typical and atypical carcinoid and large cell carcinoma).



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*Expand your knowledge in the diagnosis and treatment of the most infrequent cancers, especially those related to the chest wall and head and neck. You will advance in your profession and achieve better results in your patients"*

The most recent studies on head and neck tumors, as well as those of the thoracic wall, have shown that professionals must be trained and updated to face the new challenges posed by the sector. Therefore, it is essential to deepen in this field, identifying diagnostic techniques and effective treatments. That is why this Postgraduate Certificate will provide all the information that professionals need so much.

On the other hand, during the completion of this program, the student will gain the experience of the multitude of clinical cases that are presented, and will acquire skills in aspects of epidemiology, etiology and pathogenesis, clinical presentation, diagnosis and classification, prognostic factors, treatment and recommendations of clinical guidelines.

Additionally, the professional will have a section dedicated to lung cancer as a paradigm of personalized medicine and will acquire skills in the use of diagnostic techniques and new treatment options. They will also be able to take a tour through the known driver mutations in the context of lung cancer: EGFR, BRAF, MET, KRAS, ALK, ROS-1. And you will learn about the role of translocations and rearrangements or amplifications: NTRK, RET, MET, HER-2.

Finally, students will take a tour of the most infrequent tumors of the otorhinolaryngology and head and neck area, acquiring skills for their diagnosis and treatment: nasopharyngeal carcinoma and salivary gland tumors; nasal and paranasal sinus tumors; melanomas, sarcomas and lymphoproliferative syndromes of the head and neck; dental tumors; ameloblastoma and neuroendocrine tumors of the head and neck.

The experts who belong to the teaching team of this program, all of them referents in each area of knowledge, will develop aspects related to the context of this spectrum of pathologies, will present the clinical and molecular vision of the same, will show their diagnostic and therapeutic approaches and will explain complementary aspects such as their research and institutional environment or the global reality of the patients who suffer from them.

In addition, students will be able to complete the program at their own pace, without being subject to fixed schedules or the travel involved in classroom teaching, so they can combine it with the rest of their daily obligations.

This **Postgraduate Certificate in Tumors of the Pleura, Mediastinum and Chest Wall** contains the most complete and up-to-date scientific program on the market. Its most outstanding features are:

- ◆ Case studies presented by experts in oncology
- ◆ The graphic, schematic and eminently practical contents with which they are conceived gather scientific and practical information on those disciplines that are essential for professional practice
- ◆ News on this type of tumors
- ◆ Practical exercises where the self-assessment process can be carried out to improve learning
- ◆ Special emphasis on innovative methodologies in the approach to this type of tumors
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*Become an expert on driver mutations in the context of lung cancer: EGFR, BRAF, MET, KRAS, ALK, ROS-1"*



*The specialization of oncology professionals achieves improvements in the treatment of patients, so it is crucial to continue learning throughout your medical career"*

*Become proficient in the use of diagnostic techniques and new treatment options for tumors of the Pleura, Mediastinum and Thoracic Wall.*

*This 100% online program will allow you to balance your studies with your professional work while increasing your knowledge in this field.*

The teaching staff includes professionals from the Oncology sector, who bring their experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

The design of this program focuses on Problem Based Learning, through which the specialist must try to solve the different situations of professional practice that arise throughout the academic program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02

## Objectives

The program design of this program in Tumors of the Pleura, Mediastinum and Thoracic Wall will allow the student to delve into a field of medicine that is under constant research due to its rarity. This way, you will update your professional profile and boost your career in a field of study in which there is a lack of specialists. The program has been designed by a team of experts with contents that will enable the future graduate to reach the proposed objectives. However, you will be fully empowered to deal with the latest advances and the newest treatments currently being applied. For this reason, TECH establishes a series of general and specific objectives for greater satisfaction of the future graduate, being the following.





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*You will gain an in-depth understanding  
of the role of lung cancer as a  
paradigm of personalized medicine"*



## General Objectives

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- ◆ Acquire concepts and knowledge regarding the epidemiology, clinical, diagnosis and treatment of infrequent tumors, agnostic diagnoses and cancers of unknown origin
- ◆ Know how to apply the diagnostic algorithms and evaluate the prognosis of this pathology
- ◆ Be able to integrate knowledge and face the complexity of formulating clinical and diagnostic judgments based on the available clinical information
- ◆ Know how to apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the area of study
- ◆ Know how to establish complex therapeutic plans in the context of the pathology in question Have a deeper knowledge of specific treatment networks, reference centers, clinical trials
- ◆ Incorporate new technologies into daily practice, knowing their advances, limitations and future potential
- ◆ Acquire knowledge about molecular biology tools for the study of these tumors
- ◆ Have thorough knowledge and use Tumor Registries
- ◆ Know and use the face-to-face or virtual Molecular Committees
- ◆ Understand fundamental aspects of biobank operation
- ◆ Specialize in interprofessional relationship tools for the treatment of orphan, agnostic and cancer of unknown origin and to access expert networks in the different pathology groups
- ◆ Know how to apply knowledge to solve clinical and research problems in the area of rare pathology
- ◆ Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
- ◆ Acquire the learning skills to enable further studying in a largely self-directed or autonomous manner
- ◆ Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- ◆ Understand the social responsibility due to rare diseases



*A unique, key, and decisive educational experience to boost your professional development"*



## Specific Objectives

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- ◆ Teach students how to manage four groups of pathologies in this area: pleural tumors, mediastinal tumors (thymoma and thymic carcinoma), chest wall tumors and neuroendocrine lung tumors (typical carcinoid, atypical carcinoid and large cell carcinoma)
- ◆ Acquire skills in aspects of epidemiology, etiology and pathogenesis, clinical presentation, diagnosis and classification, prognostic factors, treatment and clinical guideline recommendations
- ◆ Delve deeper into future expectations in each of these pathology contexts
- ◆ Acquire skills on the role of lung cancer as a paradigm of personalized medicine
- ◆ Be able to use diagnostic techniques and new treatment options The skills to be acquired in this block refer to the types of sample according to the diagnostic approach; optimization in sample management, response time and characteristics of the report; tumor heterogeneity; role of liquid biopsy; molecular diagnostic techniques: IHC, FISH, RT-PCR, NGS and guideline recommendations in this context
- ◆ Specialize in driver mutations in the lung cancer context: EGFR, BRAF, MET, KRAS, ALK, ROS-1
- ◆ Know in depth the role of translocations and rearrangements/amplifications: NTRK, RET, MET, HER-2
- ◆ Recognize the most uncommon tumors of the otorhinolaryngological and head and neck area, acquiring skills for their diagnosis and treatment

# 03

# Course Management

In its maxim of offering an elite education for all, TECH counts on renowned professionals so that the professional acquires solid knowledge in the medical specialty of this program. Therefore, this program has a highly qualified team with extensive experience in the sector, which will offer the best tools for the doctor in the development of their skills during the program. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.





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*Oncology experts specializing in rare tumors give you the tools you need to advance professionally in this medical field"*

## Management



### Dr. Beato Zambrano, Carmen

- ◆ Specialist in Medical Oncology at the HU Virgen Macarena
- ◆ Medical Oncologist in the HLA Hospital Group
- ◆ Medical Oncologist at GenesisCare
- ◆ Medical Oncologist at ONCOAVANZE
- ◆ Author and co-author of a large number of scientific articles
- ◆ Master's Degree in Clinical Trials from the University of Seville
- ◆ Expert in Palliative Care by the Comillas Pontifical University
- ◆ Expert in Immuno-Oncology by the University of Navarra
- ◆ Member of the Spanish Group of Orphan and Infrequent Tumors
- ◆ Secretary Spanish Group for Cancer of Unknown Origin

## Professors

### Dr. García-Donas Jiménez, Jesús

- ◆ Medical Oncologist in the Unit of Urological, Gynecological and Dermatological Tumors at HM Hospitals
- ◆ Director of the Translational Oncology Laboratory
- ◆ Expert in Immuno-Oncology at the Clara Campal Comprehensive Oncology Center
- ◆ Treasurer of the Spanish Group of Orphan and Infrequent Tumors (GETHI)
- ◆ Degree in Medicine from the Complutense University of Madrid

### Dr. Fernández Pérez, Isaura

- ◆ Specialist in Medical Oncology. Galician Health Service
- ◆ Oncologist Breast, Gynecologic Cancer of Unknown Origin and Central Nervous System Unit
- ◆ Central Nervous System University Hospital Complex in Vigo-Hospital Álvaro Cunqueiro
- ◆ Member of the Spanish Group for Cancer of Unknown Origin (GECOD)
- ◆ Graduate in Medicine and Surgery from the University of Santiago de Compostela

**Dr. De las Peñas Bataller, Ramón**

- ◆ Medical Director of the Oncology Consortium of the Provincial Hospital of Castellón
- ◆ President of the Spanish Research Group on Orphan and Infrequent Tumors (GETHI)
- ◆ Degree in Medicine and Surgery from the University of Valencia
- ◆ Specialist in Neurology
- ◆ Specialist in Medical Oncology

**Dr. Corral Jaime, Jesús**

- ◆ Oncologist expert in Lung Cancer
- ◆ Medical Oncologist at Navarra University Clinic
- ◆ Consultant in Medical Oncology at the Virgen del Rocío Hospital
- ◆ Master's Degree in Clinical Biomedical Research from the University of Seville
- ◆ Master's Degree in Clinical Trials from the University of Seville
- ◆ Member of the Spanish Society of Medical Oncology, Society for the Study of Thoracic Tumors in Women, Spanish Lung Cancer Group, National Commission, specialty of Medical Oncology

**Dr. Pérez Altozano, Javier**

- ◆ Specialist of the Medical Oncology Service at the Virgen de los Lirios Hospital in Alcoy
- ◆ Medical Oncologist at the Lilly Clinic
- ◆ Assistant Physician of Medical Oncology at the General University Hospital of Elche
- ◆ Assistant Doctor of Medical Oncology at the Vega Baja Hospital in Orihuela
- ◆ Master's Degree in Clinical and Medical Care Management
- ◆ Master's Degree in Immuno-oncology
- ◆ Expert in Medical Management and Health Services Management
- ◆ Expert in Molecular Biology of Lung Cancer
- ◆ Member of the Spanish Society of Oncology

**Dr. Reina Zoilo, Juan José**

- ◆ Medical Specialist in Digestive and Neuroendocrine Tumors
- ◆ Oncologist Digestive and Neuroendocrine Tumor Unit. Virgen Macarena University Hospital
- ◆ Facultative Area Specialist. Juan Ramon Jimenez Hospital
- ◆ Facultative Area Specialist. San Pedro de Alcantara Hospital
- ◆ Resident Intern. Virgen del Rocío University Hospital
- ◆ Member of the Andalusian Cancer Society (SAC), Spanish Society of Medical Oncology (SEOM)

**Dr. Henao Carrasco, Fernando Manuel**

- ◆ Specialist in Oncology Radiotherapy
- ◆ Assistant Physician of the Oncology Unit of the Virgen Macarena University Hospital
- ◆ Specialist Physician of the Extremadura Health Service
- ◆ Member of the Andalusian Society of Medical Oncology

**Dr. Martín Ramos, Francisco Javier**

- ◆ Orthopedic Surgeon expert in spine at Traumaspine
- ◆ Specialist in Traumatology and Spine Surgery, at the Virgen Macarena University Hospital
- ◆ Traumatologist and Orthopedic Surgeon at Hospital de Valme
- ◆ Traumatologist (Spine Unit) in mutual ASEPEYO
- ◆ Specialist in Orthopedic Surgery and Traumatology in the Spine Surgery Unit
- ◆ Postgraduate Diploma in Spine Pathology, Tumors and Infections of the Locomotor System
- ◆ Master's Degree in Clinical Trials at the Virgen Macarena University Hospital

#### **Dr. Calero Domínguez, Raquel**

- ◆ Psychologist expert in Psycho-Oncology
- ◆ Psychologist at the Nisa Sevilla-Aljarafe Hospital
- ◆ Psychologist at the Quirónsalud Los Remedios Medical Center
- ◆ Psychologist at the Quirónsalud Infanta Luisa Hospital
- ◆ Coordinator of the "Meetings of oncology patients"
- ◆ PhD in Psychology, UCM
- ◆ Degree in Psychology from the University of Seville
- ◆ Master's Degree in Psycho-Oncology and Palliative Care by the UCM

#### **Dr. Morillo Rojas, María Dolores**

- ◆ Ophthalmology specialist at the Glaucoma Unit of the University Hospital of Jerez de la Frontera
- ◆ Medical specialist in Ophthalmology at the Virgen Macarena University Hospital
- ◆ Degree in Medicine from the University of Seville
- ◆ Master in Ophthalmology by CEU Cardenal Herrera University
- ◆ Diploma in Advanced Studies by the University of Seville
- ◆ Master's Degree in Clinical Trials from the University of Seville
- ◆ Member and bibliographic commentator of the SEO

#### **Dr. Navarro Alcaraz, Paloma**

- ◆ Researcher at the Genitourinary, Gynecological and Skin Tumors Unit and Rare Tumors Program at the Madrid Hospital Research Foundation
- ◆ Researcher at the National Cancer Research Center
- ◆ Professor of Science at Saint Louis University
- ◆ PhD in Biochemistry and Molecular Biology at the UCM
- ◆ Graduate in Pharmacy from the UCM

#### **Dr. Ruiz Llorente, Sergio**

- ◆ Researcher at the HM Hospitales Research Foundation
- ◆ Researcher at Memorial Sloan-Kettering Cancer Center (United States)
- ◆ Researcher at the National Cancer Research Center
- ◆ Researcher at the Alberto Sols Biomedical Research Institute
- ◆ Researcher at the Translational Oncology Laboratory of the Clara Campal Comprehensive Oncology Center
- ◆ PhD in Biological Sciences from the University of Alcalá
- ◆ Degree in Biological Sciences, specializing in Molecular and Cellular Biology by the University of Alcalá

#### **Dr. Barquín García, Arántzazu**

- ◆ Oncologist specialized in Ovarian Cancer Immunology
- ◆ Oncologist in the Urological, Gynecological and Dermatological Tumor Unit of the Center
- ◆ Comprehensive Oncology Clara Campal
- ◆ Physician at the Princess Margaret Cancer Centre in the United Kingdom
- ◆ Specialist in Medical Oncology at the Ramón y Cajal University Hospital in Madrid
- ◆ Treasurer of the Spanish Group of Orphan and Infrequent Tumors



**Dr. Garcia, David**

- ◆ Pediatric Oncohematologist
- ◆ Specialist in the Oncohematology Unit of the Pediatrics Clinical Management Unit Virgen Macarena University Hospital
- ◆ Resident Medical Intern (M.I.R) of Pediatrics and Specific Areas Reina Sofia Maternal and Child Hospital from Córdoba
- ◆ Rotational external stay in Pediatric Oncohematology and Transplant Service Vall-d'Hebron Maternal-Children's Hospital
- ◆ Area Specialist in the Pediatrics Department of the Reina Sofía Maternal-Children's Hospital in Cordoba, with activity in the Pediatric Oncology Unit and in the Emergency Department
- ◆ Area Specialist Pediatrics Service Pediatric Specialist Hospital Infanta Margarita de Cabra (Córdoba). Complementary work in the Pediatric and Neonatal Hospitalization Ward, assistance in the Emergency Department and Delivery Room
- ◆ Clinical Practice Tutor
- ◆ Researcher
- ◆ University Lecturer
- ◆ Graduate in Medicine from the University of Córdoba
- ◆ Scholarship to study at the University of Concepción, Chile
- ◆ Scholarship from the Spanish Association of Pediatrics (AEP) for external rotation during residency
- ◆ Member of the Spanish Society of Pediatric Hematology and Oncology, Society of Pediatrics of Western Andalusia and Extremadura, Spanish Association of Pediatrics

# 04

# Structure and Content

The syllabus of this program has been designed based on the requirements of medicine applied to the existence of certain tumors classified as rare, a specialization that is scarce in the educational market and of vital importance in health care.

Therefore, it is essential that medical professionals delve deeper into the subject, contributing to the investigation of the conditions that cause these cases and propose treatments that minimize them. Therefore, the content of the program has been structured in ten topics that comprise all the information necessary for the student on their way to medical excellence.



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*This program delves into lung cancer as a paradigm of personalized medicine. You will delve into its diagnostic techniques and the role of liquid biopsy"*

**Module 1.** Pleural, Mediastinal and Chest Wall Tumors: Lung cancer as a paradigm of the new rare, but not orphan, tumors. Head and Neck Cancer.

- 1.1. Pleural Tumors: Mesothelioma
  - 1.1.1. Introduction and Epidemiology
  - 1.1.2. Etiology and Pathogenesis
  - 1.1.3. Clinical Presentation
  - 1.1.4. Diagnosis and Staging
  - 1.1.5. Prognostic Factors
  - 1.1.6. Treatment and Recommendations (Guidelines/Consensus)
  - 1.1.7. Future Perspectives
- 1.2. Mediastinal Tumors: Thymoma and Thymic Carcinoma
  - 1.2.1. Introduction and Epidemiology
  - 1.2.2. Etiology and Pathogenesis
  - 1.2.3. Clinical Presentation
  - 1.2.4. Diagnosis and Staging
  - 1.2.5. Prognostic Factors
  - 1.2.6. Treatment and Recommendations (Guidelines/Consensus)
  - 1.2.7. Future
- 1.3. Chest Wall Tumors
  - 1.3.1. Introduction and Epidemiology
  - 1.3.2. Etiology and Pathogenesis
  - 1.3.3. Clinical Presentation
  - 1.3.4. Diagnosis and Classification
  - 1.3.5. Prognostic Factors
  - 1.3.6. Treatment and Recommendations
  - 1.3.7. Future
- 1.4. Pulmonary Neuroendocrine Tumor: Typical Carcinoid, Atypical Carcinoid, and Large Cell Carcinoma
  - 1.4.1. Introduction and Epidemiology
  - 1.4.2. Etiology and Pathogenesis
  - 1.4.3. Clinical Presentation
  - 1.4.4. Diagnosis and Classification
  - 1.4.5. Prognostic Factors
  - 1.4.6. Treatment and Recommendations
  - 1.4.7. Future
- 1.5. Lung Cancer as a Paradigm for Personalized Medicine: Diagnostic Techniques and the Role of Liquid Biopsy
  - 1.5.1. Introduction
  - 1.5.2. Sample Types According to Diagnostic Approach
  - 1.5.3. Sample Handling Optimization
  - 1.5.4. Response Time and Report Characteristics
  - 1.5.5. Tumor Heterogeneity: Role of Liquid Biopsy
  - 1.5.6. Molecular Diagnostic Techniques: IHQ, FISH, RT-PCR, NGS
  - 1.5.7. Guide Recommendations
- 1.6. Mutations: EGFR, BRAF, MET, KRAS
  - 1.6.1. Introduction: Epidemiology, Patient Profile, Diagnostic Techniques and Brain Disease
  - 1.6.2. Prognostic Factors
  - 1.6.3. First-Line Targeted Therapy
  - 1.6.4. Resistance Mechanisms
  - 1.6.5. Second-Line Therapy and Successive Lines
  - 1.6.6. Role of Chemotherapy +/- Immunotherapy
  - 1.6.7. Future
- 1.7. Translocations: ALK, ROS-1
  - 1.7.1. Introduction: Epidemiology, Patient Profile, Diagnostic Techniques and Brain Disease
  - 1.7.2. Prognostic Factors
  - 1.7.3. First-Line Targeted Therapy
  - 1.7.4. Resistance Mechanisms
  - 1.7.5. Second-Line Therapy and Successive Lines
  - 1.7.6. Role of Chemotherapy +/- Immunotherapy
  - 1.7.7. Future

- 1.8. Rearrangements/Amplifications: NTRK, RET, MET, HER-2
  - 1.8.1. Introduction: Epidemiology, Patient Profile, Diagnostic Techniques and Brain Disease
  - 1.8.2. Prognostic Factors
  - 1.8.3. First-Line Targeted Therapy
  - 1.8.4. Resistance Mechanisms
  - 1.8.5. Second-Line Therapy and Successive Lines
  - 1.8.6. Role of Chemotherapy +/- Immunotherapy
  - 1.8.7. Future
- 1.9. Nasopharyngeal Carcinoma and Salivary Gland Tumors: Nasal and Paranasal Sinus Tumors
  - 1.9.1. Nasopharyngeal Carcinoma
    - 1.9.1.1. Introduction
    - 1.9.1.2. Epidemiological Data
    - 1.9.1.3. Etiology and Etiopathogenesis
    - 1.9.1.4. Clinical Manifestations
    - 1.9.1.5. Diagnostic Methods and Extension Diagnosis
    - 1.9.1.6. Multidisciplinary Treatment
  - 1.9.2. Salivary Gland Tumors
    - 1.9.2.1. Major Salivary Gland Tumors
    - 1.9.2.2. Minor Salivary Gland Tumors
  - 1.9.3. Nasal and Paranasal Sinus Tumors
    - 1.9.3.1. Epidemiology
    - 1.9.3.2. Etiopathogeny, Histology and Natural History
    - 1.9.3.3. Clinical, Diagnostic and Staging
    - 1.9.3.4. Treatment
- 1.10. Melanomas, Sarcomas and Lymphoproliferative Syndromes of the Head and Neck: Rare Tumors. Ameloblastoma. Neuroendocrine Head and Neck Tumors
  - 1.10.1. Head and Neck Melanoma
    - 1.10.1.1. Etiologic, Epidemiologic and Clinical Factors
    - 1.10.1.2. Diagnostic and Therapeutic Aspects
    - 1.10.1.3. Special Presentations of Head and Neck Melanoma
  - 1.10.2. Head and Neck Sarcomas
    - 1.10.2.1. Etiopathogenesis and Epidemiology
    - 1.10.2.2. Clinical Aspects
    - 1.10.2.3. Diagnosis
    - 1.10.2.4. Therapeutic Aspects
  - 1.10.3. Lymphoproliferative Head and Neck Syndromes
    - 1.10.3.1. Etiological Factors
    - 1.10.3.2. Staging Procedures
    - 1.10.3.3. Clinical Scheme of Lymphoid System Neoplasms
  - 1.10.4. Dental Tumors
    - 1.10.4.1. Odontogenic Tumor Classification
  - 1.10.5. Ameloblastoma
  - 1.10.6. Neuroendocrine Head and Neck Tumors
    - 1.10.6.1. Neuroendocrine Carcinomas of Epithelial Origin
    - 1.10.6.2. Atypical Carcinoid
    - 1.10.6.3. Small Cell Neuroendocrine Carcinoma
    - 1.10.6.4. Large Cell Neuroendocrine Carcinoma
    - 1.10.6.5. Neuroendocrine Carcinoma of Neural Origin



*Quality content for a quality  
Students. TECH accompanies  
you on your path to excellence"*

# 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 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.



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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 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 Certificate in Tumors of the Pleura, Mediastinum and Chest Wall 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 Certificate in Tumors of the Pleura, Mediastinum and Chest Wall** 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.

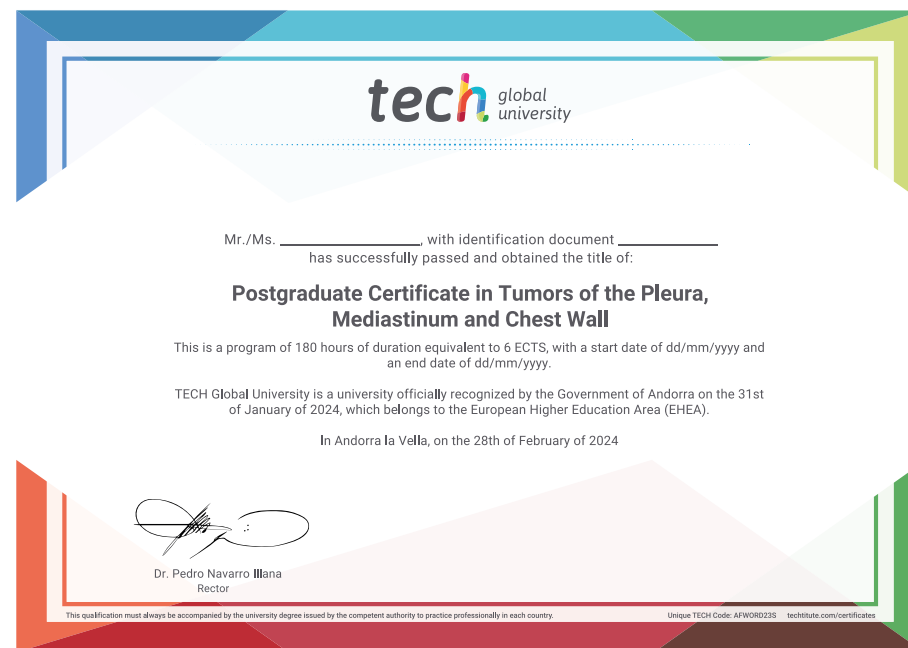
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Tumors of the Pleura, Mediastinum and Chest Wall**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 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 Certificate**  
Tumors of the Pleura,  
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- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Certificate

## Tumors of the Pleura, Mediastinum and Chest Wall

