

Postgraduate Certificate Diagnosis and Staging in Thoracic Oncology





Postgraduate Certificate Diagnosis and Staging in Thoracic Oncology

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 8 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/diagnosis-staging-thoracic-oncology

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 28

05

Methodology

p. 32

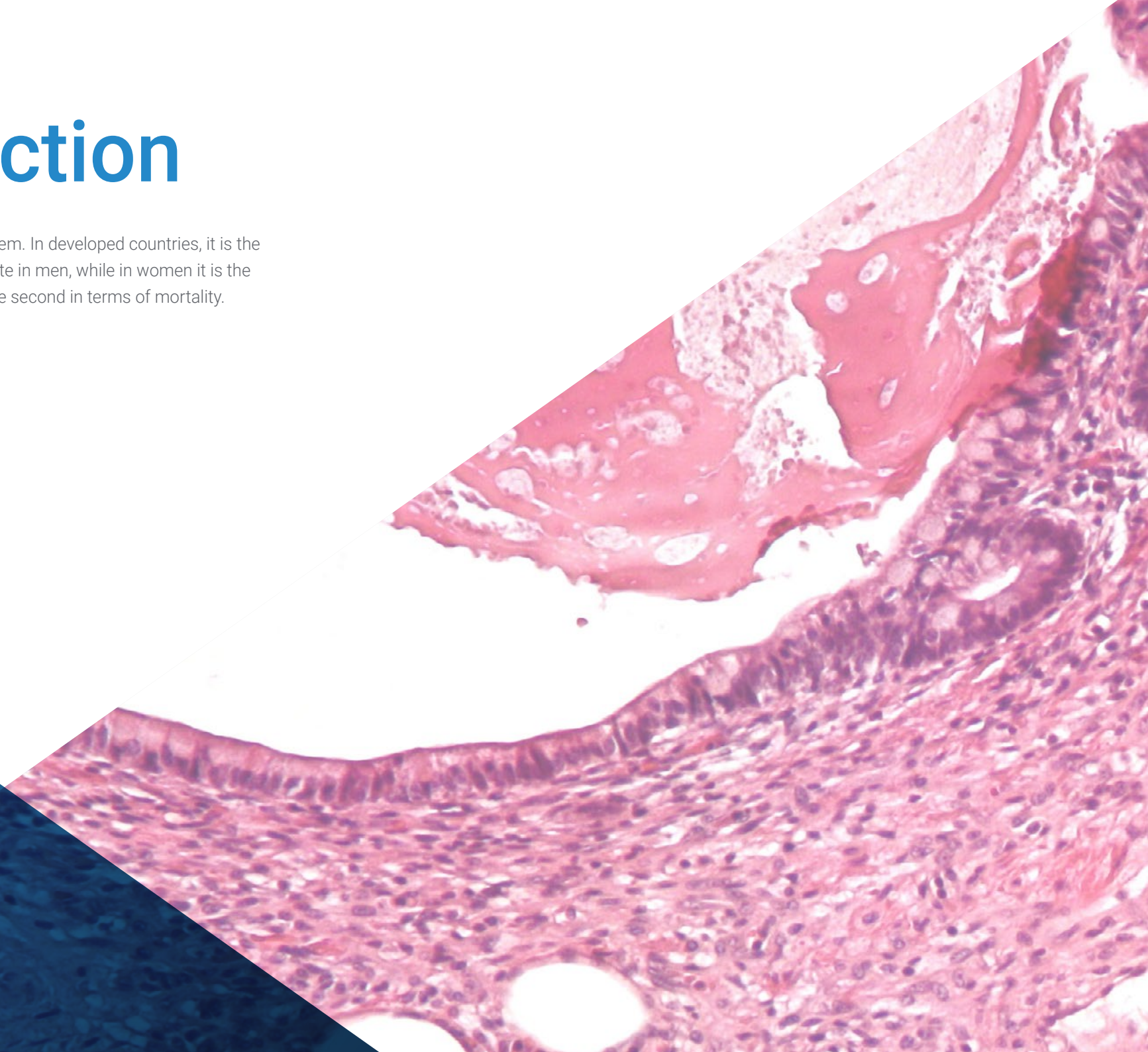
06

Certificate

p. 40

01 Introduction

Lung cancer is a major health problem. In developed countries, it is the cancer with the highest mortality rate in men, while in women it is the fourth most frequent cancer and the second in terms of mortality.



A large, high-magnification microscopic image of tissue, likely stained with hematoxylin and eosin (H&E), showing a dense cellular structure with various nuclei and cytoplasmic details. The image is positioned on the left side of the slide, partially overlapping a dark blue background.

“

Improve your knowledge through this program, where you will find the best didactic material with real clinical cases. Learn here about the latest advances in the specialty to be able to perform a quality medical practice"

Recent studies have reported a reduction in lung cancer mortality among current and former smokers with a minimum of 30 packs/year following the use of low dose helical computed tomography, and have provided sufficient evidence to establish strong international recommendations for lung cancer prevention.

Therefore, a more frequent future presentation of lung cancer will be by a solitary pulmonary nodule, a relevant fact because diagnosis at advanced stages has been the norm in the last 30 years and the reason for the low prevalence of this disease.

Nowadays, talking about oncology means talking about "multidisciplinary teams", about advances in fields of science that are increasingly involved, and this, apart from being interesting, requires continuous specialization that is often difficult to acquire in other training programs or congresses since they are oriented to a very specific area and related to a single specialty.

Not losing this multidisciplinary vision is very important because many advances in one area can have implications in the diagnostic and therapeutic algorithms used in oncology. In fact, one of the skills that TECH intends the students to achieve with this Postgraduate Certificate is to have a broad and clear vision of Oncology, and to use the comparison of scientific advances in each area as a tool that will allow them to advance in their knowledge.

This **Postgraduate Certificate in Diagnosis and Staging in Thoracic Oncology** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Development of clinical cases presented by experts in Thoracic Oncology
- ♦ 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
- ♦ New diagnostic and therapeutic developments on the performance of Thoracic Oncology
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ With a special emphasis on evidence-based medicine and research methodologies in Diagnosis and Staging in Thoracic Oncology
- ♦ All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Availability of content from any fixed or portable device with internet connection



Update your knowledge through the Postgraduate Certificate in Diagnosis and Staging in Thoracic Oncology, in a practical way and adapted to your needs"

“

This Postgraduate Certificate may be the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Diagnosis and Staging in Thoracic Oncology, you will obtain a qualification endorsed by TECH Global University"

Its teaching staff includes health professionals belonging to the field of Thoracic Oncology, who contribute their work experience to this program, in addition to renowned specialists belonging to leading scientific societies.

Thanks to its multimedia content developed with the latest educational technology, it will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to study in real situations.

This program is designed around Problem-Based Learning, whereby the physicians must try to solve the different professional practice situations that arise throughout the program. For this reason, they will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of thoracic oncology who have extensive teaching experience.

The Postgraduate Certificate includes real clinical cases and exercises to bring the content of the program closer to the clinical practice of a physician.

Make the most of this opportunity to update your knowledge in Diagnosis and Staging of Thoracic Oncology and improve the care of your patients.



02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the physician can master in a practical and rigorous way the Diagnosis and Staging in Thoracic Oncology.





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This program will provide you with the skills to carry out your medical practice with confidence and will help you to grow both personally and professionally”

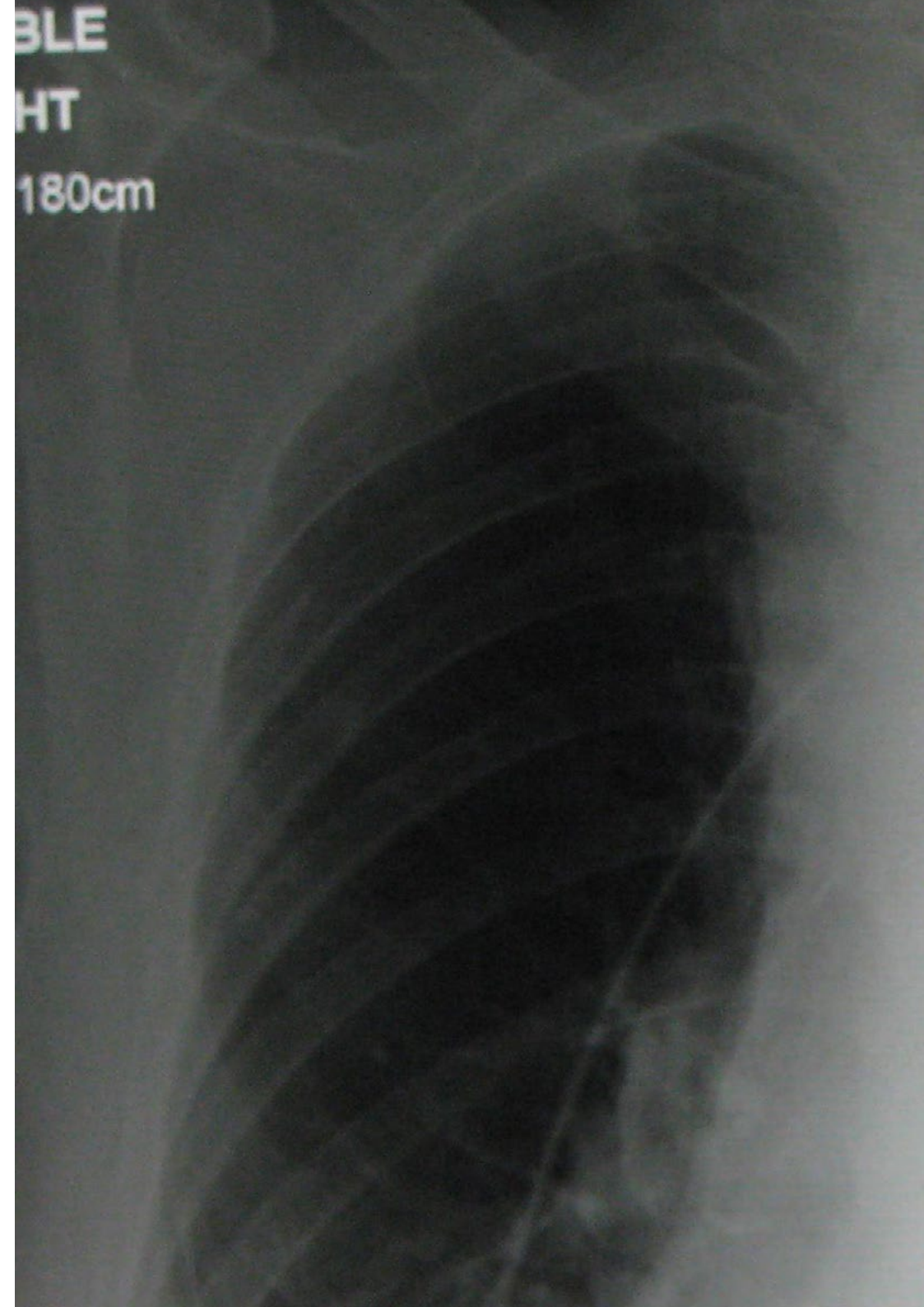


General Objective

- To create a global and up to date vision of thoracic oncology and all its aspects, allowing the student to acquire useful knowledge and, at the same time, to generate interest in expanding the information and discovering its application in daily practice



Make the most of this opportunity and take the step get up to date on the latest developments in Diagnosis and Staging of Thoracic Oncology”





Specific Objectives

- ♦ Review the performance and usefulness of each of the tests used in the diagnosis of thoracic tumors
- ♦ Describe the usefulness and performance of PET/CT with F18-FDG in the diagnosis, staging, treatment control and monitoring of thoracic tumors
- ♦ Learn more about thoracic MRI since it provides very complete anatomical information that can be fundamental for the patient's treatment, in addition to a functional assessment, and on many occasions its tissue characterization
- ♦ Review of available diagnostic tests for the assessment of cardiopulmonary reserve, necessary for the identification of patients at high risk of developing perioperative complications and significant long-term functional limitation after resection surgery
- ♦ Review the changes proposed for the new edition of the TNM, which imply a more accurate tumor staging

03

Course Management

This program includes in its teaching staff health professionals of recognized prestige, who belong to the field of Thoracic Oncology, and who bring to this training the experience of their work. In addition, renowned specialists, members of prestigious national and international scientific communities, are involved in designing and preparing the program.

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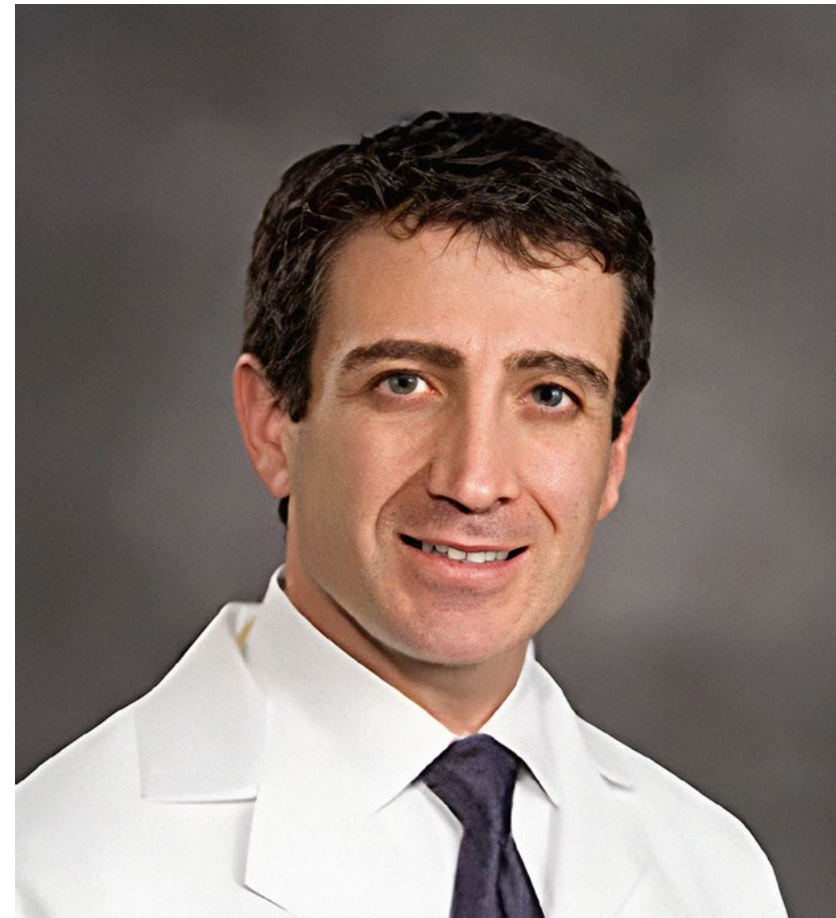
*Learn from leading professionals,
the latest advances in Diagnosis
and Staging of Thoracic Oncology”*

International Guest Director

Awarded for his contribution to innovative advances in the field of **Radiation Oncology**, Dr. Drew Moghanaki is a reference in the treatment of **Lung Cancer**. He specializes in advanced techniques such as **Intensity Modulated Radiation Therapy** to offer more precise, effective and less invasive treatments to his patients. In this sense, he has performed his work in reference health institutions such as **UCLA Health in California, United States**.

He has also been a pioneer in the implementation of **Stereotactic Body Radiotherapy for Lung Tumors**. Through this technique, he has managed to increase survival rates and significantly optimize the quality of life of numerous users. It has also developed a multidisciplinary approach in the management of **Neoplasms**, which has helped specialists to design personalized treatments to improve their clinical results. On the other hand, he has managed more than **50 million dollars in Lung Cancer program** development through the **U.S. Department of Veterans Affairs**. His initiatives have been instrumental in driving progress in diagnosis, treatment and access to high quality care for people who have served in the Armed Forces.

Committed to excellence, he balances this work with his role as a **clinical researcher**. In this sense, he has published numerous scientific articles on subjects such as **Magnetic Resonance Guided Radiotherapy**. One of his most outstanding works is the **VALOR** trial, focused on the analysis of the effectiveness of surgery and Stereotactic Radiotherapy in Lung Cancer. Thanks to this, physicians have obtained solid scientific evidence to make **informed decisions** about the best approach for the treatment of this pathology taking into account the specific characteristics of the patients. In addition, he participates as a speaker at scientific congresses to discuss the latest innovations in **Radiation Oncology**.



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- Chief of the Thoracic Oncology Service at UCLA Health, California, United States
- Director of Clinical Research at the U.S. Department of Veterans Affairs
- Director of Pulmonary Precision Oncology at the West Los Angeles VA Medical Center
- Section Chief of Radiation Oncology at VA Greater Los Angeles Health System
- Chair of Diagnostic Research Team at UCLA Jonsson Comprehensive Cancer Center
- Radiation Epidemiology Oncology Residency at the University of Pennsylvania
- General Surgery Internship at Vanderbilt University Medical Center
- M.D. from Vanderbilt University School of Medicine
- Master's Degree in Public Health and Epidemiology from University of California
- Bachelor of Science degree in Biochemistry from California Polytechnic State University.
- Member of: American Cancer Society, American Society for Radiosurgery, International Association for the Study of Lung Cancer



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

Management



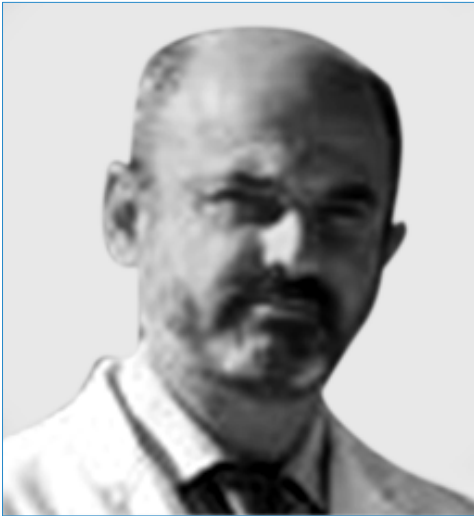
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Dr. Bellido Reyes, Yuri Anthony

- ♦ Degree in Medicine and Surgery
- ♦ Thoracic Surgery Department, Villalba General Hospital

Dr. Martínez Muñoz, Francisco de Borja

- ♦ Pulmonology Department, Príncipe de Asturias University Hospital

Dr. Flandes Aldeyturriaga, Javier

- ♦ Pulmonology Department, Príncipe de Asturias University Hospital

Dr. Carrillo, Esteban

- ♦ Degree in Medicine and Surgery
- ♦ Antares Consulting

Dr. Astudillo González, Aurora

- ♦ Degree in Medicine and Surgery
- ♦ Anatomical Pathology Service
- ♦ Associate Professor at the University of Oviedo linked to the Central University Hospital of Asturias (HUCA)
- ♦ Scientific Director of the Principality of Asturias Biobank. Spain

Dr. Calles Blanco, Antonio

- ♦ Degree in Medicine and Surgery
- ♦ Department of Medical Oncology, Gregorio Marañón General University Hospital. Madrid, Spain

Dr. Couselo, María Luz

- ♦ Degree in Medicine and Surgery
- ♦ Department of Radiation Oncology, Gómez Ulla University Hospital. Madrid, Spain

Dr. Vallejo Ocaña, Carmen

- ♦ Degree in Medicine and Surgery
- ♦ Department of Radiation Oncology, Ramón y Cajal University Hospital. Madrid, Spain

Dr. Mejías Estevez, Manuel

- ♦ Degree in Medicine and Surgery
- ♦ Clinical Management Unit Oncology and Palliative Care, Jerez Hospital. Cádiz, Spain

Dr. Puente Muñoz, Ana Isabel

- ♦ Degree in Medicine and Surgery
- ♦ Clinical Neurophysiology Service, Red Cross Hospital. Madrid, Spain

Dr. Rodríguez Pérez, Aurora

- ♦ Degree in Medicine and Surgery
- ♦ Head of Radiation Oncology Department, Ruber International Hospital. Madrid, Spain

Dr. García Baquero, María Teresa

- ♦ Degree in Medicine and Surgery from the University of Extremadura
- ♦ Former Regional Coordinator of Palliative Care of the Community of Madrid. Spain

Dr. Ahechu Garayoa, Patricia

- ♦ Clinical University of Navarra, Resident

Dr. Dujovne Lindenbaum, Paula

- ♦ Specialist Area Physician, Alcorcón Foundation University Hospital

Dr. Jarabo Sarceda, José Ramón

- ♦ Thoracic Surgery Department, San Carlos Clinical Hospital, Madrid, Spain

Dr. Lladó Garriga, Laura

- ♦ Specialist Area Physician, Bellvitge University Hospital

Dr. Tuero Ojanguren, Carlota

- ♦ Clinical University of Navarra, Resident

Dr. Hoyos Mejía, Lukas

- ♦ Area Specialist, Puerta de Hierro University Hospital. Majadahonda

Dr. Vega López, Laura

- ♦ General Surgery Specialist at the Fundación Alcorcón University Hospital
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Specialist in General and Digestive System Surgery at the Fundación Alcorcón University Hospital
- ♦ Master's Degree in Clinical Management, Medical and Healthcare Administration at TECH Technological University
- ♦ Postgraduate Diploma in Digital Teaching for Medicine at TECH Technological University
- ♦ Specialist Degree in Leadership and Management Skills in Health at CEU University
- ♦ Specialist Degree in Medical Quality Management in CEU University
- ♦ Spanish Association of Surgeons (AEC)
- ♦ Member of the Spanish Association of Coloproctology (AACP)

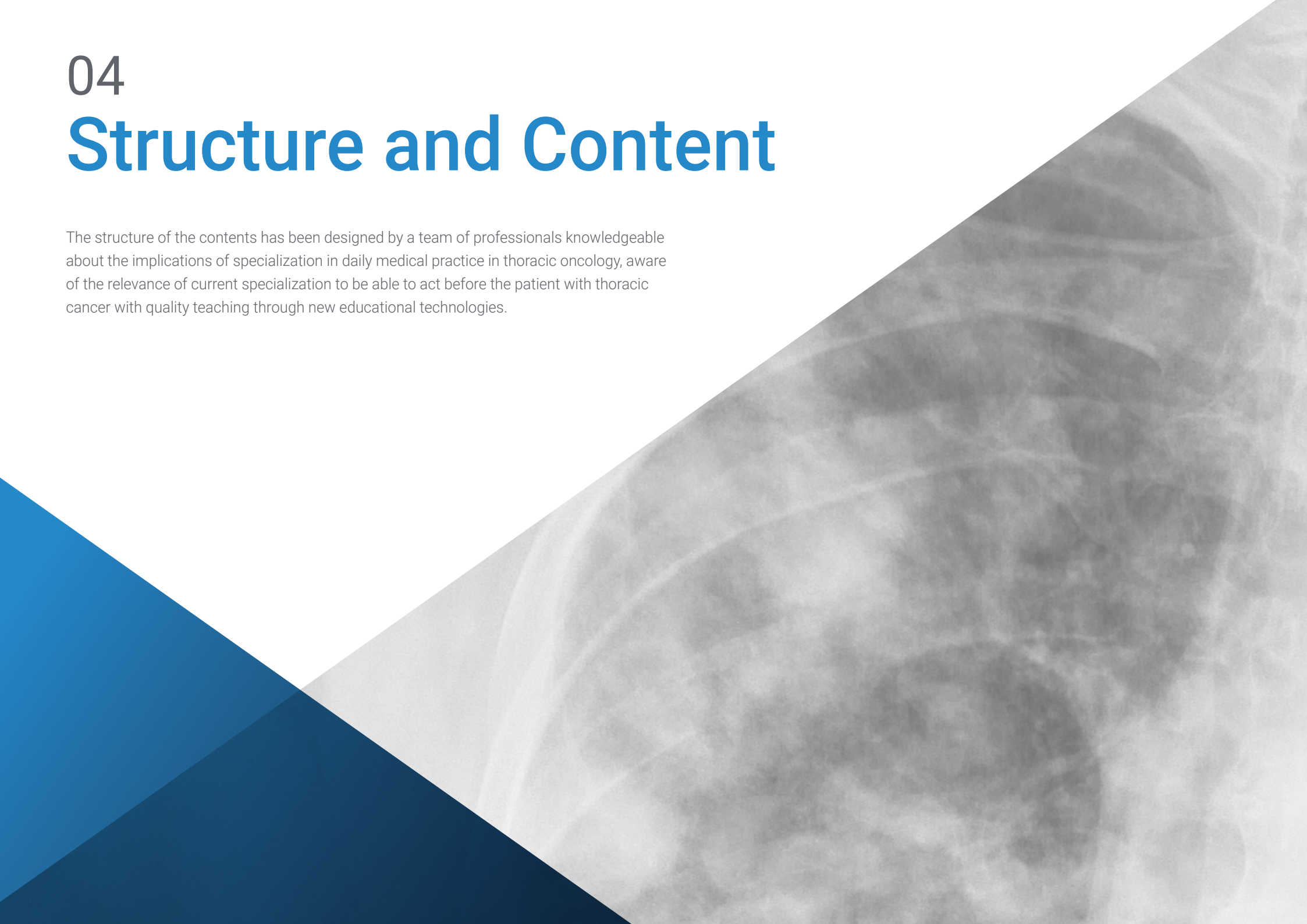


Take the opportunity to learn about the latest advances in this area in order to apply it to your daily practice"

04

Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of specialization in daily medical practice in thoracic oncology, aware of the relevance of current specialization to be able to act before the patient with thoracic cancer with quality teaching through new educational technologies.





“

This Postgraduate Certificate in Diagnosis and Staging in Thoracic Oncology contains the most complete and up to date scientific program on the market”

Module 1. Diagnosis and Staging

- 1.1. Clinical Diagnosis. Serum Markers
 - 1.1.1. Clinical Diagnosis
 - 1.1.2. Paraneoplastic Syndromes
 - 1.1.3. Serum Markers
- 1.2. Imaging Techniques
 - 1.2.1. Chest X-ray
 - 1.2.2. Computed Tomography (CT)
 - 1.2.3. Thoracic Ultrasound Scan
 - 1.2.4. Magnetic Resonance Imaging (MRI) in the Assessment of Thoracic Tumors
 - 1.2.5. Positron Emission Tomography (PET)
- 1.3. Cytohistological Studies
 - 1.3.1. Classification and Anatomopathological Study
 - 1.3.2. Non-Invasive Methods: Sputum Cytology
 - 1.3.3. Non-Surgical Invasive Bronchoscopic Techniques: Standard Bronchoscopy, Ultrasound (EBUS-EUS), Electromagnetic Navigation and Others
 - 1.3.4. Transthoracic Non-Surgical Invasive Techniques: FNA, CNB, Thoracentesis and Pleural Biopsy
 - 1.3.5. The Role of the Interventional Pathologist in the Diagnosis of Advanced Stage Lung Cancer
 - 1.3.6. Invasive Staging in Lung Cancer
- 1.4. Functional and Staging Assessment
 - 1.4.1. Preoperative Study of Surgical Risk
 - 1.4.2. The Eighth Edition of TNM Classification of Lung Cancer





“

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

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.





“

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

At TECH we use the Case Method

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

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



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

“

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

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

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



Relearning Methodology

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

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

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



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

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

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

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

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



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



Study Material

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

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



Surgical Techniques and Procedures on Video

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



Interactive Summaries

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

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



Additional Reading

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





Expert-Led Case Studies and Case Analysis

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



Testing & Retesting

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



Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Quick Action Guides

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



06 Certificate

The Postgraduate Certificate in Diagnosis and Staging in Thoracic Oncology guarantees students, in addition to the most rigorous and up to date education, access to a Postgraduate Certificate issued by TECH Global University.



“

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

This program will allow you to obtain your **Postgraduate Certificate in Diagnosis and Staging in Thoracic Oncology** 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.

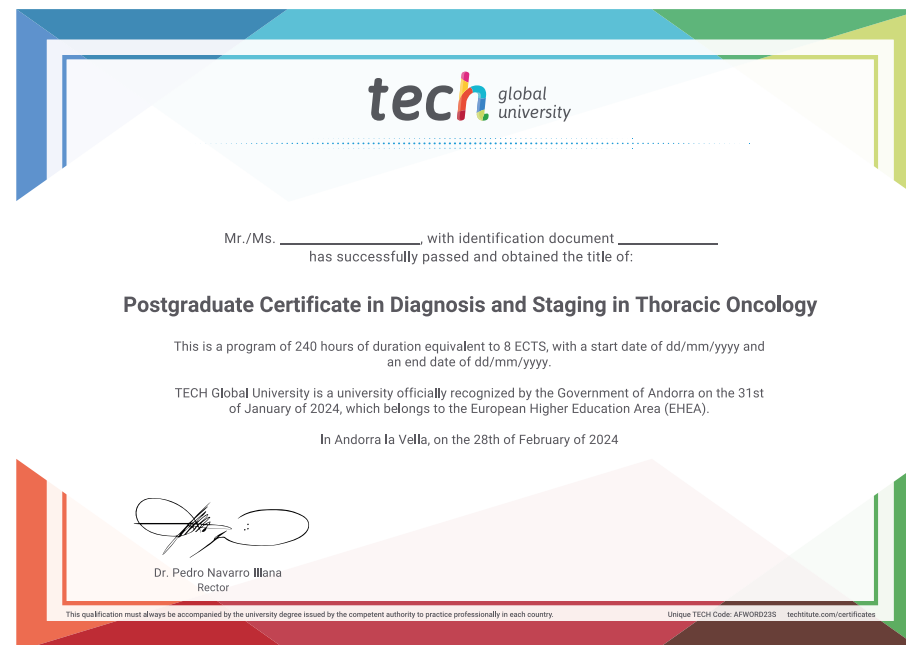
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Diagnosis and Staging in Thoracic Oncology**

Modality: **online**

Duration: **6 weeks**

Accreditation: **8 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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
online training
development languages
virtual classroom



Postgraduate Certificate

Diagnosis and Staging in Thoracic Oncology

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 8 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Diagnosis and Staging in Thoracic Oncology

