Postgraduate Diploma

Diagnosis and Principles of Treatment in Thoracic Oncology

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Postgraduate Diploma

Diagnosis and Principles of Treatment in Thoracic Oncology

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

Website: www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-diagnosis-principles-treatment-thoracic-oncology

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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.

Nowadays, molecular biology is key in the diagnosis and treatment of cancer, and has gone from being a field of research to an essential tool in the management of oncology patients"

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 via a solitary pulmonary nodule, a relevant fact given that diagnosis at advanced stages has been the norm in the last 30 years and the reason for the low prevalence of this disease.

On the other hand, the anti-smoking policies that have been implemented in the last decade are changing the profile of the patient who is usually seen in the office, and although it is not yet very evident, it will become more evident in the coming years.

Therefore, this program contains key and relevant topics for the near future in this field, such as the solitary pulmonary nodule.

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, means that we need a continuous specialization that is often difficult to acquire in other specialization courses or congresses since they are oriented to a very specific area and specific 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 we aim for the students to achieve with this program 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 Diploma in Diagnosis and Principles of Treatment in Thoracic Oncology** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of clinical cases presented by experts in the different specialties. 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 developments on Diagnosis and Principles of Treatment in 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 Principles of Treatment 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
- Content that is accessible from any fixed or portable device with an internet connection

Update your knowledge through the Postgraduate Diploma in Diagnosis and Principles of Treatment in Thoracic Oncology, in a practical way and adapted to your needs"

This Postgraduate Diploma 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 Principles of Treatment 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, they will allow the professionals a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to train in real situations.

This program is designed around Problem-Based Learning, whereby the physician must try to solve the different professional practice situations that arise during the course. 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

Increase your decision-making confidence by updating your knowledge with this Postgraduate Diploma in Diagnosis and Principles of Treatment in Thoracic Oncology.

Don't miss the opportunity to update your knowledge in Diagnosis and Principles of Treatment in Thoracic Oncology to improve patient care.

02

Objectives

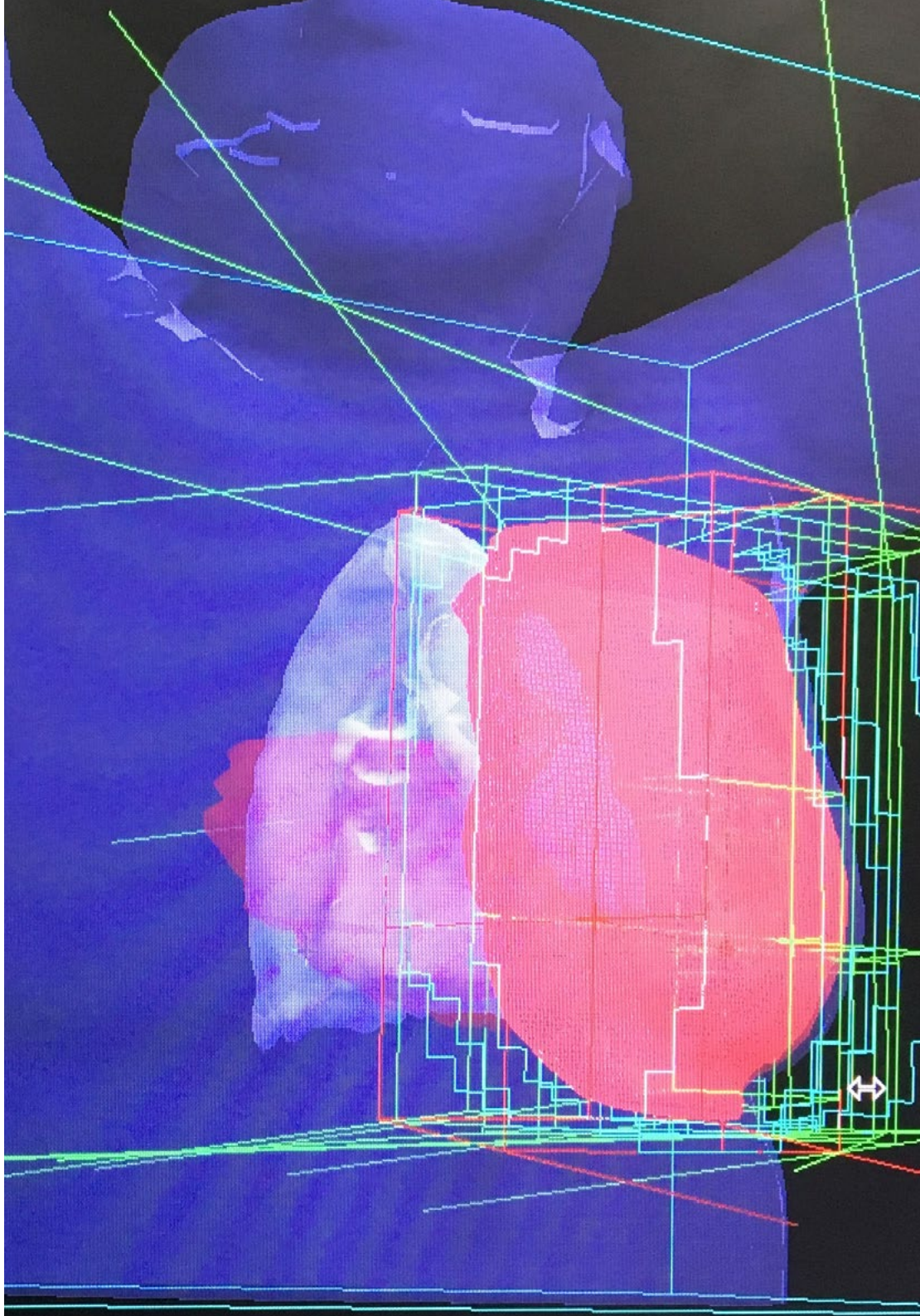
The main objective of the program is the development of theoretical and practical learning, so that the physician can master in a practical and rigorous way the study of Diagnosis and Principles of Treatment in Thoracic Oncology.

This refresher program will generate a sense of confidence when practicing medicine and will help you 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 Principles of Treatment in Thoracic Oncology"



Specific objectives

Module 1. Diagnosis and Staging

- 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

Module 2. Principles of Treatment in Thoracic Oncology

- Describe the evolution of current minimally invasive surgical techniques that allow complex surgeries to be performed with small incisions, preserving as much tissue as possible and with an accelerated recovery with less discomfort
- Explain the principles of thoracic radiotherapy, as well as the different techniques available and their efficacy in order to understand their place in the management of thoracic tumors
- Describe the new design of personalized clinical trials given the evidence that selective drugs have therapeutic benefits in molecularly defined subgroups of patients
- Interpret the impact of mutations on drug selection
- Assess the efficacy and safety aspects of the different therapeutic options
- Explain the different surgical options for the management of secondary lesions and their indications, which may, in turn, condition patient management

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 program 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.

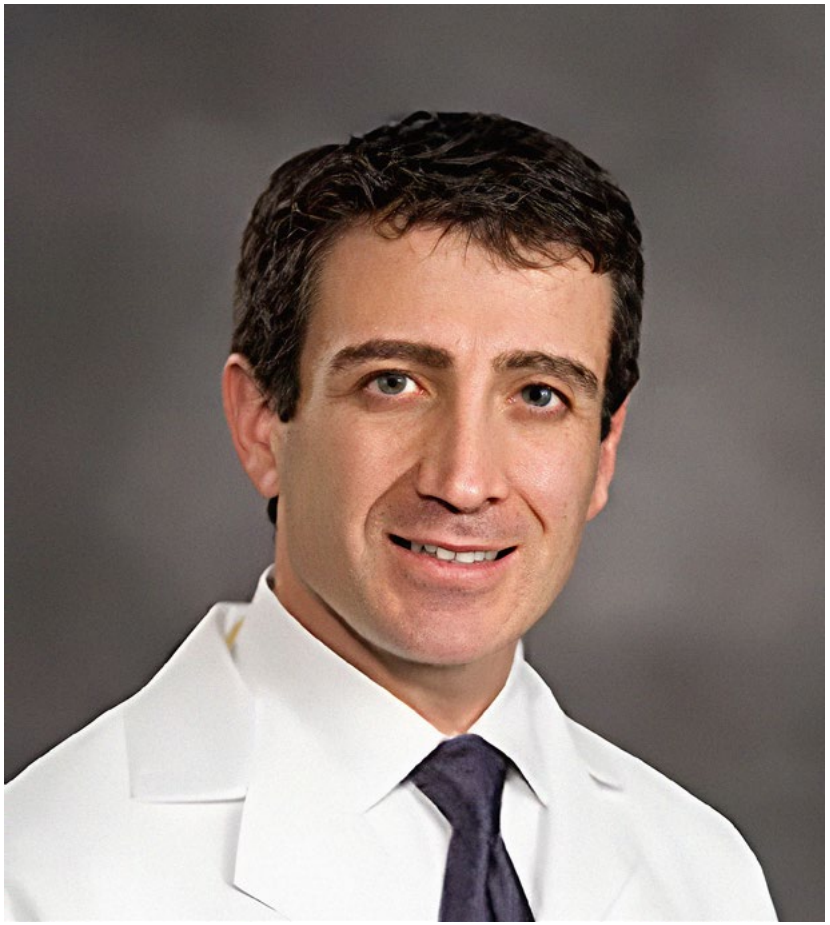
Learn from leading professionals the latest advances in Thoracic Oncology"

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 Comprehesive 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

Dr. Oruezábal Moreno, Mauro Javier

- Head of the medical Oncology Service at La Paz University Hospital since 2017
- Research Fellow at University of Southampton
- Master's Degree in Bioinformatics and biostatistics UOC-UB
- Master's Degree in bioinformatic analysis by the Pablo de Olavide University
- Doctor of Medicine from the Complutense University of Madrid. Outstanding Cum Laude Qualification
- Member of the Spanish Society of Medical Oncology and GECP Group (Spanish Spanish Group of Lung)
- Specialist (MIR) in Medical Oncology, University Hospital San Carlos of Madrid
- Degree in Medicine and Surgery, University of Navarra

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- Associate Physician of Pulmonology, Jiménez Díaz Foundation University Hospital, Madrid
- Director of the Editorial Committee of the Respiratory Pathology Journal of Neumomadrid
- Researcher of the CIBER network of Respiratory Diseases (CIBERES) belonging to Group 04
- Member of the Madrid Society of Pulmonology and Thoracic Surgery (Neumomadrid), the Spanish Society of Pulmonology and Thoracic Surgery (SEPAR) and the European Respiratory Society (ERS)
- Master's Degree in Clinical Unit Management. Murcia University
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- Secretary Thoracic Oncology Area National Society of Pulmonology and Thoracic Surgery (SEPAR)
- Deputy Director of the Editorial Committee of the Respiratory Pathology Journal of Neumomadrid
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- Master's Degree in Clinical Management, Medical and Healthcare Administration at TECH Technological University
- Specialist Degree in Digital Teaching for Medicine from 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 (AECP)

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, aware of the relevance of current specialization to be able to act before the patient with thoracic oncologic pathology and committed to quality teaching through new educational technologies.

This Postgraduate Diploma in Diagnosis and Principles of Treatment 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: FNP, 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

Module 2. Principles of Treatment in Thoracic Oncology

2.1. Principles and Experience of Surgical Treatment
- 2.1.1. Video-Assisted Thoracic Surgery. General aspects
- 2.1.2. Robotic Surgery in the Treatment of Lung Cancer and Other Thoracic Tumors
- 2.1.3. Approach Routes to the Thorax
- 2.1.4. Lobectomy in the Treatment of Thoracic Tumors. Indications and Technique
- 2.1.5. Minor Resections in the Treatment of Thoracic Tumors
- 2.1.6. Pneumonectomy
- 2.1.7. Bronchoplastic Resections
- 2.1.8. Angioplastic Resections
- 2.1.9. Tracheal and Carinal Resection in Lung Cancer and Tracheal Tumors
- 2.1.10. Lymphadenectomy

2.2. Principles and Experience of Surgical Treatment
- 2.2.1. Evolution of Radiotherapy Treatment in Thoracic Tumors: from 3D-conformal radiotherapy to IMRT/VMAT
- 2.2.2. Stereotactic Radiotherapy
- 2.2.3. Pulmonary Brachytherapy
- 2.2.4. Proton Therapy for Locally Advanced Disease

2.3. Clinical Trials in the Era of Personalized Oncology
- 2.3.1. Clinical Trials: Definitions, Examples, and Interpretation of the Literature
- 2.3.2. How to Design a Clinical Trial in Lung Cancer
- 2.3.3. Real World Data Studies: Generating Knowledge

A unique, key, and decisive master's degree 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:

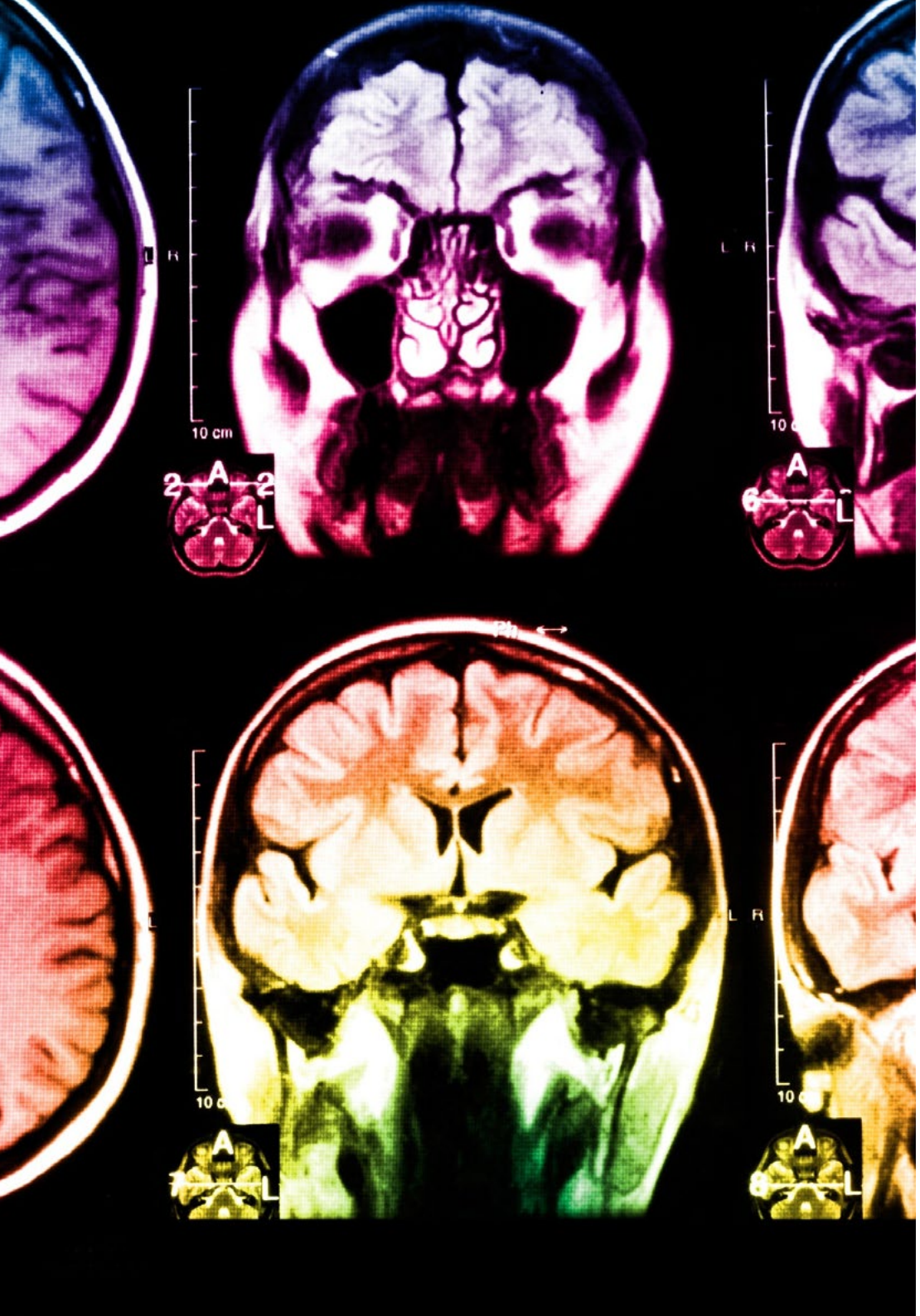
1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better 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.

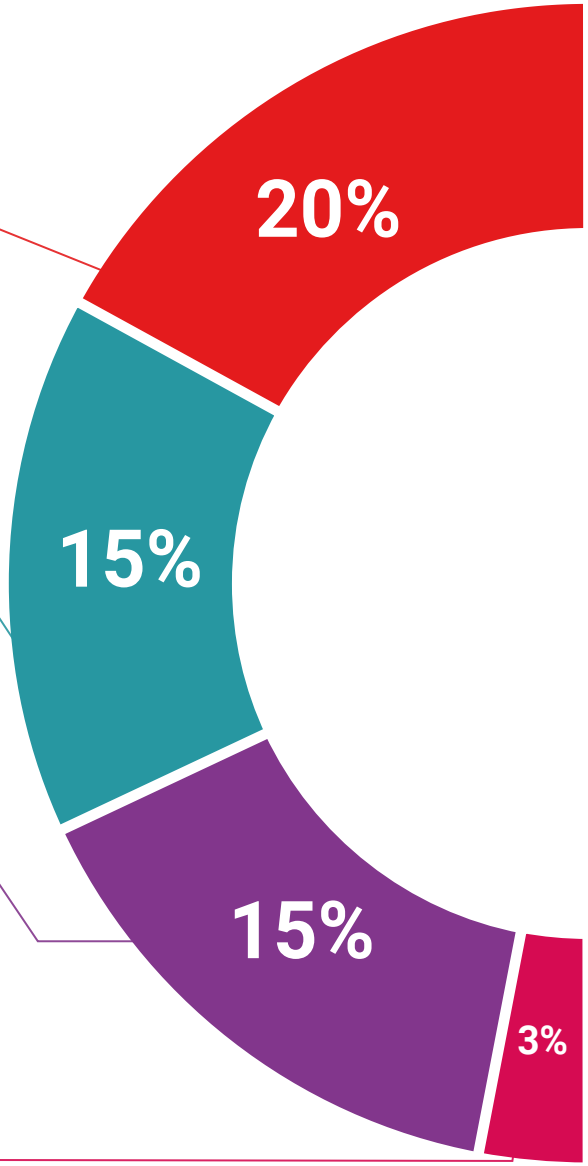
Interactive Summaries

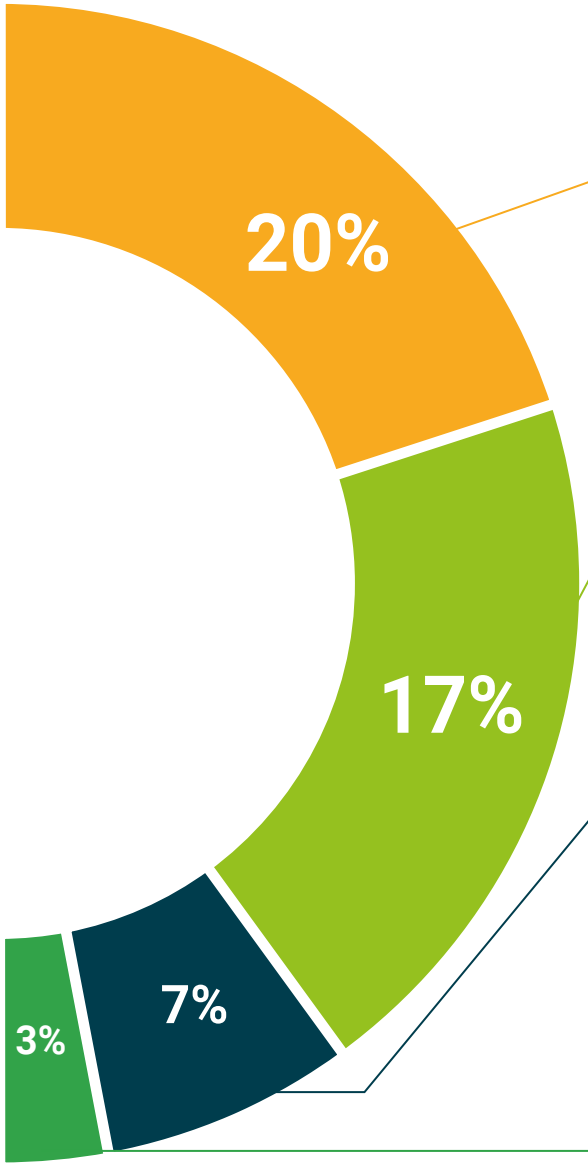
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 Diploma in Diagnosis and Principles of Treatment in Thoracic Oncology guarantees you, in addition to the most rigorous and up-to-date training, access to a Postgraduate Diploma issued by TECH Global University.

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

This private qualification will allow you to obtain a **Postgraduate Diploma in Diagnosis and Principles of Treatment 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** private qualification 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 Diploma in Diagnosis and Principles of Treatment in Thoracic Oncology**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**


tech global university

Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Postgraduate Diploma in Screening, Molecular Biology and Staging of Thoracic Cancer

This is a private qualification of 540 hours of duration equivalent to 18 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

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

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Postgraduate Diploma

Diagnosis and Principles of Treatment in Thoracic Oncology

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

Postgraduate Diploma

Diagnosis and Principles of Treatment in Thoracic Oncology

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