Postgraduate Diploma

Minimally Invasive Airway, Thoracic Wall and Mediastinal Surgery

tech global university

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Minimally Invasive Airway, Thoracic Wall and Mediastinal Surgery

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

Website: **www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-minimally-invasive-airway-thoracic-wall-mediastinal-surgery**

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01

Introduction to the Program

Currently, there is a global trend towards less invasive procedures in Thoracic Surgery, with the aim of improving clinical outcomes and quality of life for patients. In fact, the adoption of techniques such as Single-Port Video-Assisted Thoracoscopy (VATS) and Robotic Surgery is transforming the landscape of this field of medicine, offering new opportunities for the treatment of diseases affecting the Airway, the Thoracic Wall and the Mediastinum. In this context, TECH has developed a comprehensive online program, designed to fit in perfectly with the professional and personal schedules of graduates. All this is supported by the revolutionary Relearning methodology, pioneered by this institution. All of this is supported by the revolutionary Relearning methodology, pioneered at this institution.

With this 100% online program, you will acquire skills in innovative procedures that have been shown to reduce postoperative pain, minimize complications and accelerate recovery"

Minimally invasive surgery in the thoracic field has undergone significant advances, especially in procedures affecting the Airway, the Thoracic Wall and the Mediastinum. In fact, techniques such as Single-Port Video-Assisted Thoracoscopy (VATS) and Robotic Surgery have revolutionized the treatment of various thoracic diseases.

This is how this program was born, thanks to which physicians will be able to identify and address malformations, pneumothorax and pulmonary emphysema, with special emphasis on the anatomy of respiratory structures and resection and reconstruction techniques. In addition, the common complications of these interventions will be analyzed, as well as how to manage them and the risks associated with Minimally Invasive Surgery compared to traditional methods.

Likewise, there will be an in-depth look at minimally invasive surgical techniques to treat diseases such as pleural empyema and thoracic wall injuries. In this sense, the professionals will address the different types of thoracic wall resection and the access routes for resection of the first rib, examining the benefits of these less invasive approaches, which include lower morbidity and faster recovery for patients.

Finally, it will look into the possibilities offered by minimally invasive techniques in the treatment of mediastinal diseases, such as thymic, thyroid and parathyroid tumors, as well as in the performance of lymphadenectomies in the treatment of lung carcinoma. It will also deal precisely with mediastinal infections, performing resections of esophageal tumors and identifying the possible complications of these interventions.

In this way, TECH has created a complete 100% online program, which only requires an electronic device with an Internet connection to access all the academic materials, eliminating the need to go to a physical center or adapt to fixed schedules. In turn, it is based on the innovative Relearning methodology, which focuses on the repetition of key concepts to guarantee a deep and fluid understanding of the contents.

This **Postgraduate Diploma in Minimally Invasive Airway, Thoracic Wall and Mediastinal Surgery** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- The development of case studies presented by experts with a deep knowledge of the latest techniques in Minimally Invasive Thoracic Surgery, which simplifies the work of doctors in clinics, hospitals and other healthcare centers
- The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection.

You will stay at the forefront of a constantly evolving field, improving your ability to offer more effective, less invasive treatments with better long-term results”

You will cover the technical aspects and clinical considerations for performing minimally invasive resections of the thoracic wall, diaphragm and pleura, thanks to an extensive library of innovative multimedia resources"

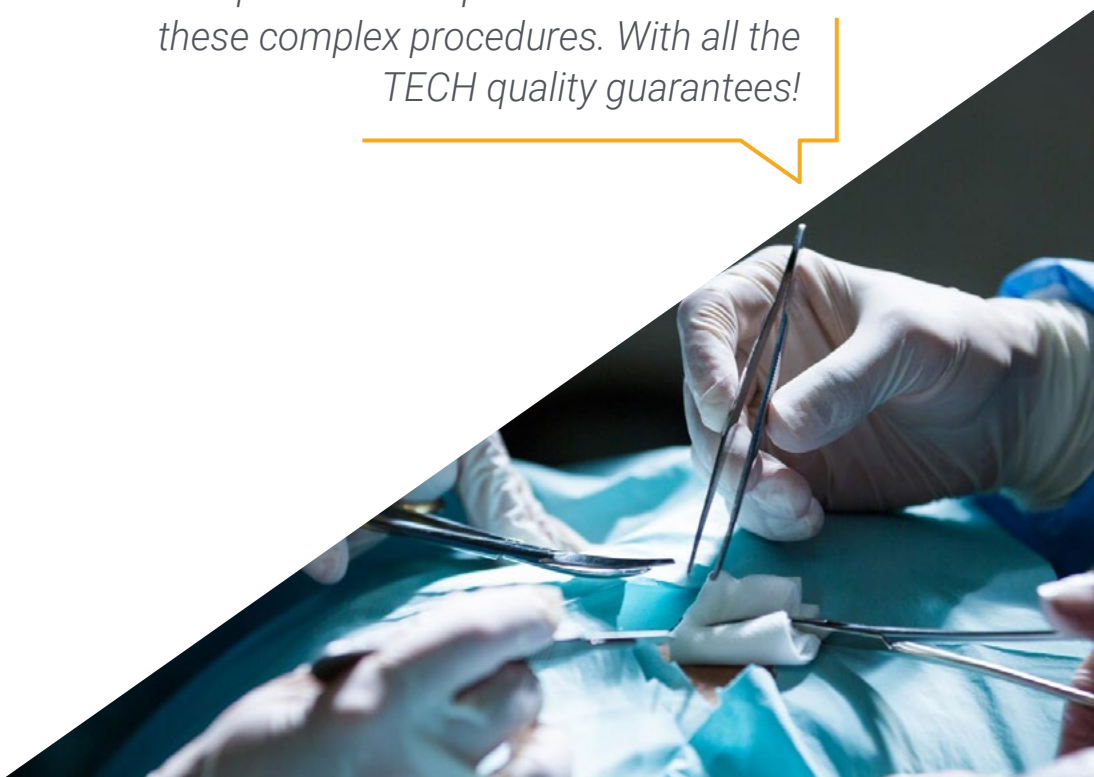
You will receive comprehensive education in Minimally Invasive Thoracic Surgery, allowing physicians to refine their technical skills and improve the clinical outcomes of their patients.

You will analyze in detail the management of anesthesia and intubation, highlighting best practices to optimize outcomes in these complex procedures. With all the TECH quality guarantees!

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to prepare for real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.



02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it relies on an enormous faculty of more than 6,000 professors of the highest international renown.

Study at the world's largest online university and guarantee your professional success. The future starts at TECH”

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.

The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.

Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.

The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.

03

Syllabus

Throughout the syllabus, professionals will acquire in-depth knowledge of the anatomy of the airway, thoracic wall and mediastinum, with a particular focus on minimally invasive procedures such as Video-assisted Thoracoscopic Surgery and Robotic Surgery. It will also cover everything from basic technical aspects to the specific clinical indications of each approach, including anesthetic considerations, postoperative management and associated complications. In addition, emphasis will be placed on the critical analysis of clinical cases and the development of practical skills, enabling physicians to apply it in their clinical practice.

You will perform lymphadenectomies suitable for the treatment of lung carcinoma using minimally invasive approaches, as well as techniques to treat esophageal disease and mediastinal infections"

Module 1. Minimally Invasive Airway Surgery, Malformations, Pneumothorax and Pulmonary Emphysema

1.1. Study of the Patient with Airway Disease
- 1.1.1. General Patient Assessment: Resectability and Operability Criteria
- 1.1.2. Imaging and Functional Tests
- 1.1.3. Histological Diagnosis

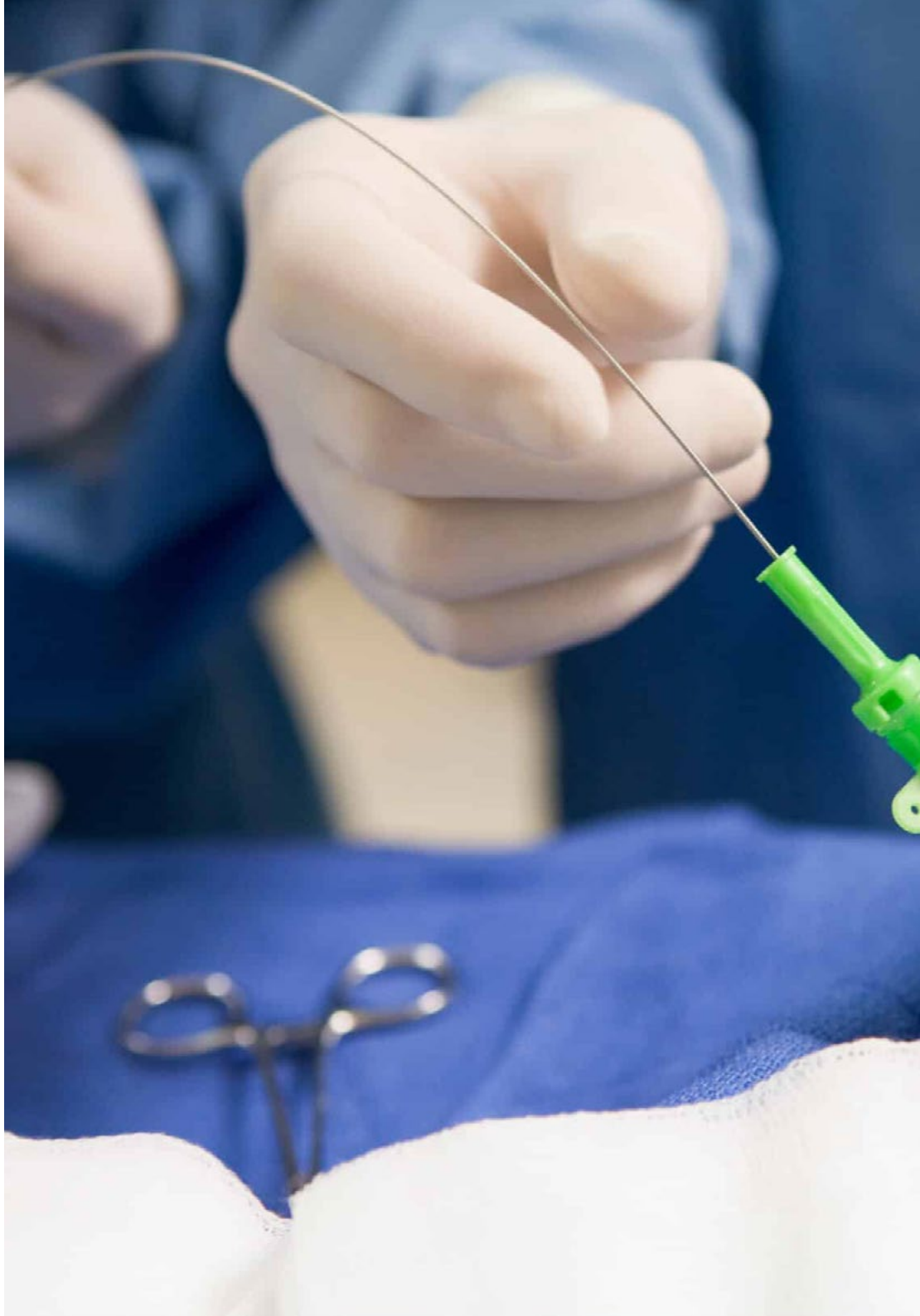
1.2. Minimally Invasive Tracheal Surgery
- 1.2.1. Surgical Anatomy of the Trachea
- 1.2.2. Anesthetic Approach. Surgical Technique
- 1.2.3. Results Complications

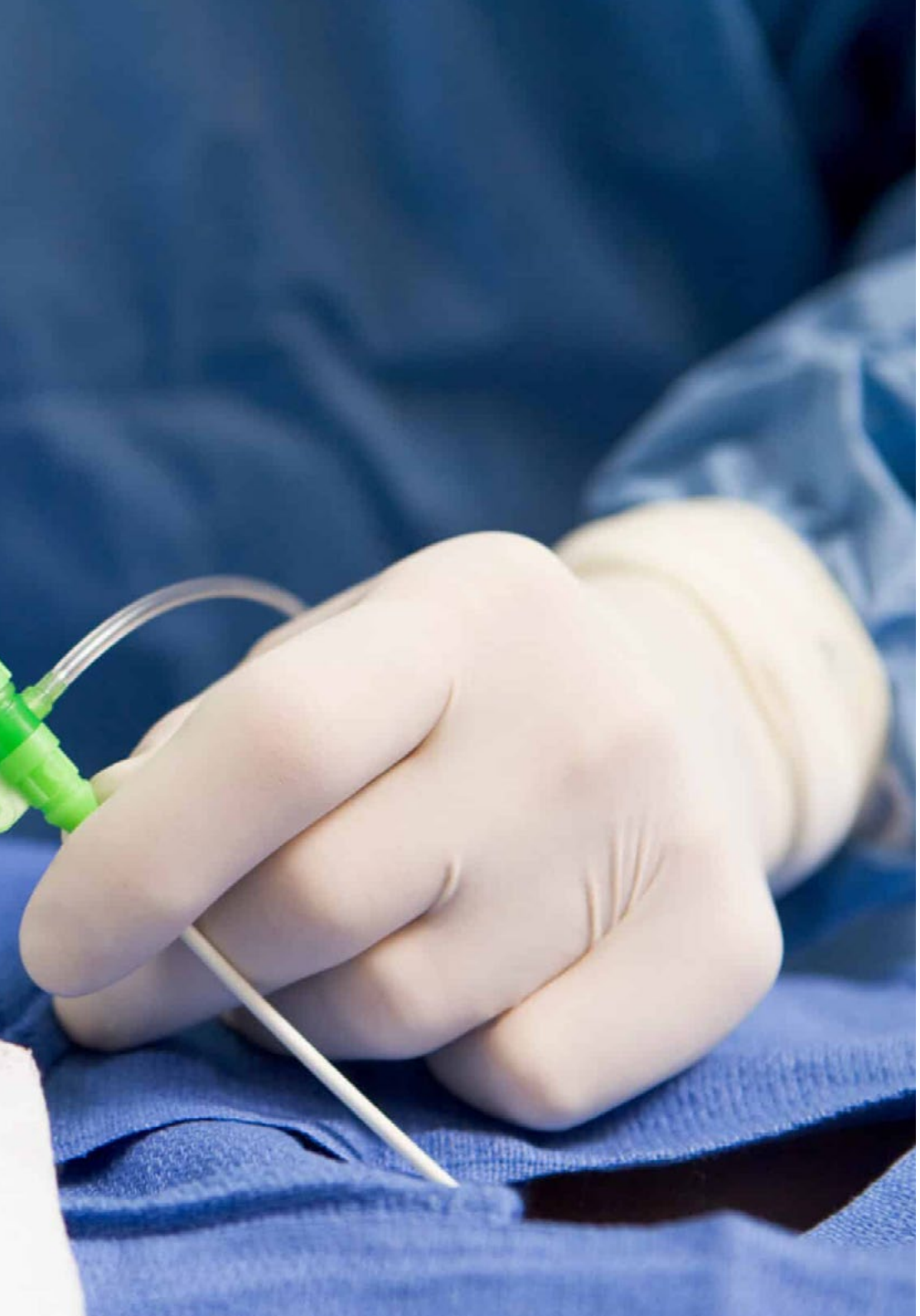
1.3. Minimally Invasive Management of Airway Obstruction
- 1.3.1. Diagnosis of Acute Airway Obstruction
  - 1.3.1.1. Imaging Techniques
  - 1.3.1.2. Role of Bronchoscopy
- 1.3.2. Anesthetic Approach
  - 1.3.2.1. Surgical Technique
  - 1.3.2.2. Treatment of Associated Lesions
- 1.3.3. Results and Complications

1.4. Left Bronchoplasty Surgery
- 1.4.1. Surgical Anatomy of the Left Bronchial Tree. Diseases that Can Affect It
- 1.4.2. Anesthetic Approach. Surgical Technique
- 1.4.3. Results Complications

1.5. Right Bronchoplasty Surgery
- 1.5.1. Surgical Anatomy of the Right Bronchial Tree. Diseases that Can Affect It
- 1.5.2. Anesthetic Approach. Surgical Technique
- 1.5.3. Results Complications

1.6. Resection and Reconstruction of the Carina of Trachea
- 1.6.1. Surgical Anatomy of the Carina of Trachea. Diseases that Can Affect It
- 1.6.2. Anesthetic Approach. Surgical Technique
- 1.6.3. Results Complications





1.7. Minimally Invasive Surgery for Airway Malformations: Bronchi and Vessels
  1.7.1. Most Common Bronchial and Vascular Malformations
  1.7.2. Anesthetic Approach. Surgical Technique
  1.7.3. Results Complications
1.8. Minimally Invasive Treatment of Pneumothorax
  1.8.1. Pathophysiological Basis of Primary and Secondary Spontaneous Pneumothorax. Leading Causes of Injury
  1.8.2. Surgical Technique
    1.8.2.1. Pleurodesis: Justification and Types
  1.8.3. Results Complications
1.9. Minimally Invasive Surgery for Bullous Emphysema
  1.9.1. Pathophysiology of Emphysema
  1.9.2. Anesthetic Approach. Surgical Technique
  1.9.3. Results Complications
1.10. Lung Volume Reduction Surgery
  1.10.1. Physiological and Functional Justification for Performing this Technique
  1.10.2. Surgical Technique. Non-surgical Alternatives
  1.10.3. Results Complications

Module 2. Minimally Invasive Surgery of the Thoracic Wall, Diaphragm and Pleura

2.1. Videothoracoscopic Thoracic Sympathectomy: Techniques, Indications and Results
  2.1.1. Anatomy of the Sympathetic System. Pathophysiology of the Sympathetic Nervous System Disorders
  2.1.2. VATS Sympathectomy
    2.1.2.1. Hyperhidrosis and Facial Flushing
    2.1.2.2. VATS Sympathectomy: Other Specifications
  2.1.3. Results and Complications of Videothoracoscopic Thoracic Sympathectomy
2.2. Minimally Invasive Resections of the Thoracic Wall
  2.2.1. Indications for Minimally Invasive Resections of the Thoracic Wall. Techniques and Approach
  2.2.2. Minimally Invasive Reconstruction after Resection of the Thoracic Wall
  2.2.3. Results

2.3. Usefulness of the Hybrid Approach in Resection and Reconstruction of the Thoracic Wall
- 2.3.1. Hybrid Approach
- 2.3.2. Indications for the Hybrid Approach
- 2.3.3. Surgical Variants of the Hybrid Approach

2.4. Congenital Deformities of the Thoracic Wall. Pectus Excavatum and Pectus Carinatum
- 2.4.1. Indication for Surgery
- 2.4.2. Pectus Excavatum. Minimally Invasive Techniques
- 2.4.3. Pectus Carinatum. Minimally Invasive Techniques

2.5. Minimally Invasive Technique for Upper Thoracic Stenosis Surgery
- 2.5.1. Surgical Anatomical Considerations
- 2.5.2. Indications and Diagnosis of Upper Thoracic Stenosis Syndrome
- 2.5.3. VATS Surgery of Upper Thoracic Stenosis Syndrome. RATS Surgery of Upper Thoracic Stenosis Syndrome

2.6. Minimally Invasive Resection of Tumors of the Pleura
- 2.6.1. Types of Pleural Tumors
- 2.6.2. Minimally Invasive Surgery for Benign Pleural Tumors
- 2.6.3. Role of VATS in Malignant Pleural Disease

2.7. Pleural Empyema. Minimally Invasive Treatment
- 2.7.1. Expert Consensus Guidelines for the Surgical Treatment of Pleural Empyema
- 2.7.2. VATS in the Early Stages of Empyema
- 2.7.3. VATS in the Late Stage of Empyema

2.8. Pleural Decortication
- 2.8.1. Trapped Lung
- 2.8.2. Surgical Technique
- 2.8.3. Results

2.9. Congenital and Acquired Diaphragmatic Hernias. Treatment
- 2.9.1. Types and Classification of Diaphragmatic Hernias
- 2.9.2. Surgical Strategy: Thoracic vs. Abdominal Approach
- 2.9.3. Surgical Indications and Technique

2.10. Diaphragmatic Plication
- 2.10.1. Etiology and Indications for Diaphragmatic Plication
- 2.10.2. VATS and RATS Approaches
- 2.10.3. Short- and Long-Term Results of Diaphragmatic Plication

Module 3. Minimally Invasive Mediastinal Surgery

3.1. VATS Thymectomy
- 3.1.1. Indications for Thymectomy
- 3.1.2. Surgical Technique for Thymectomy
- 3.1.3. Results and Conclusions

3.2. VATS Thyroidectomy
- 3.2.1. Indications for Thyroidectomy
- 3.2.2. Surgical Technique
- 3.2.3. Results and Conclusions

3.3. VATS Parathyroidectomy
- 3.3.1. Indications for Parathyroidectomy
- 3.3.2. Surgical Technique
- 3.3.3. Results and Conclusions

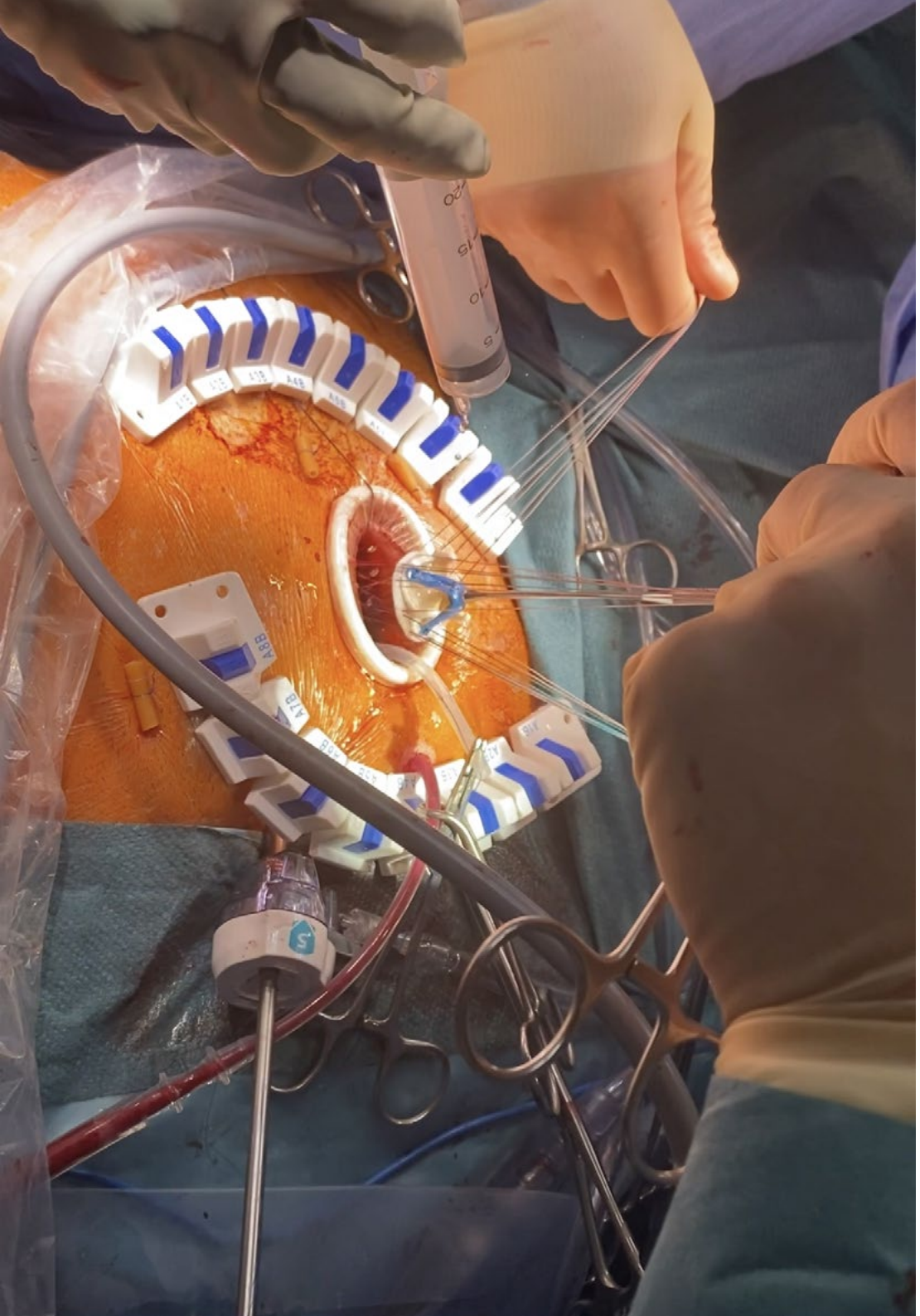
3.4. Cysts and Other Tumors of the Mediastinum
- 3.4.1. Pathological Classification
- 3.4.2. Surgical Indications
- 3.4.3. Results and Conclusions

3.5. Left Lymphadenectomy
- 3.5.1. Indications for Left Lymphadenectomy
- 3.5.2. Surgical Technique
- 3.5.3. Conclusions

3.6. Right Lymphadenectomy
- 3.6.1. Indications for Right Lymphadenectomy
- 3.6.2. Surgical Technique
- 3.6.3. Conclusions

3.7. Surgical Management of Benign Esophageal Disease
- 3.7.1. Achalasia
- 3.7.2. Esophageal Cysts, Cystic Duplications. Esophageal Diverticulum
- 3.7.3. Benign Esophageal Tumors

3.8. Indications for Minimal Invasive Surgery in Esophageal Cancer
- 3.8.1. Classification of Malignant Neoplasms of the Esophagus
- 3.8.2. Indication and Patient Selection
- 3.8.3. Surgical Technique. Results and Conclusions



3.9. Minimally Invasive Approach to Mediastinitis
  3.9.1. Anatomic Considerations
  3.9.2. Classification of Mediastinitis. Clinical Diagnosis
  3.9.3. Minimally Invasive Surgical Treatment. Results and Conclusions
3.10. Management of Intraoperative Complications
  3.10.1. Management of Vascular, Nerve and Esophageal Injuries
  3.10.2. Management of Pulmonary Injuries
  3.10.3. Others Intraoperative Complications
    3.10.3.1. Management of Thoracic Duct Injuries

You will focus on gaining an in-depth knowledge of the anatomy of the central airway, with an emphasis on the structures involved and the anatomical relations essential for carrying out resections and reconstructions"

04

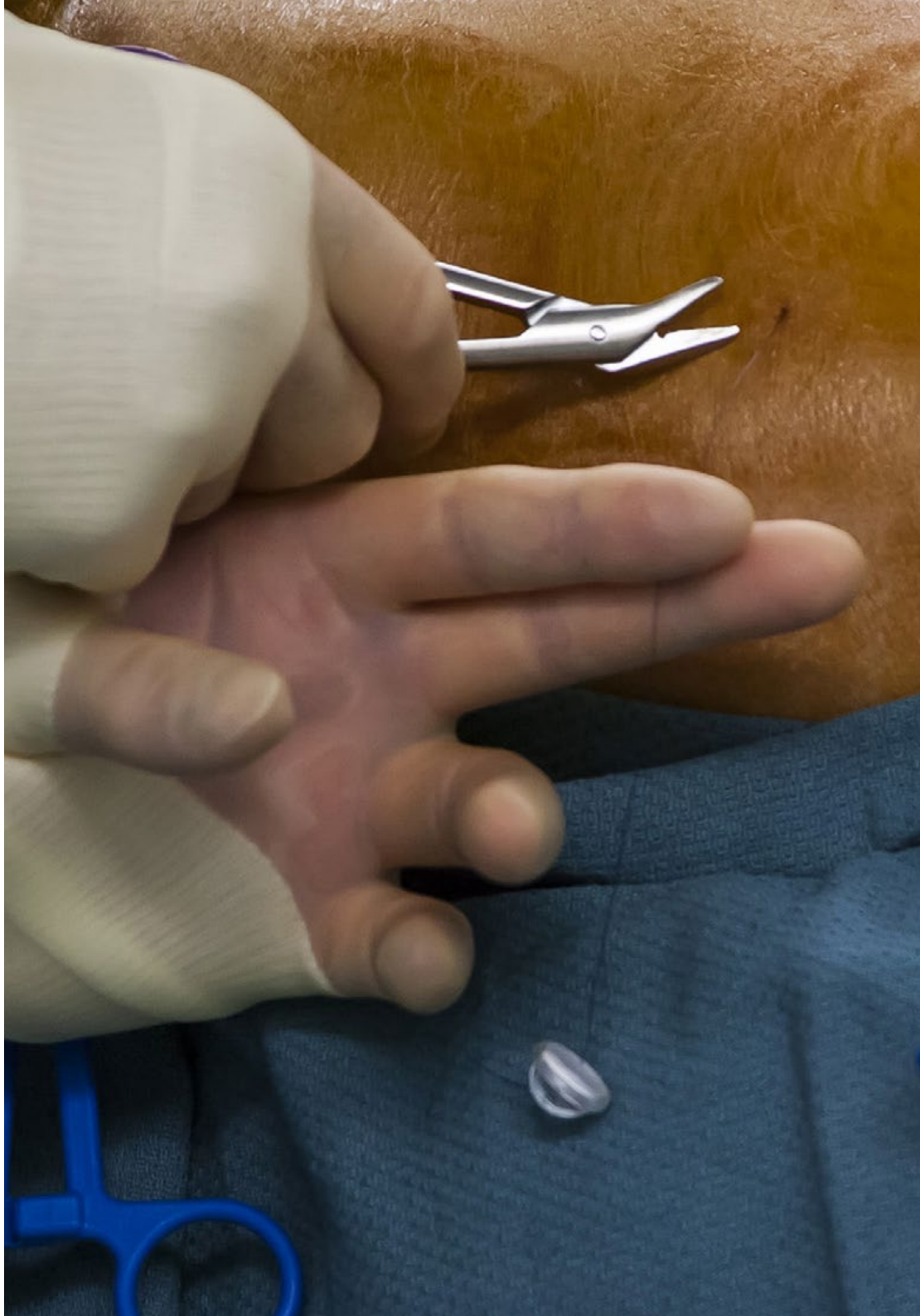
Teaching Objectives

This university program will seek to develop in graduates a deep understanding of the anatomy and structures involved, as well as the indications, advantages and limitations of minimally invasive procedures. It will also focus on honing the technical skills needed to perform complex resections and reconstructions, optimizing clinical results and reducing patient recovery time. In addition, it will address the possible complications in the use of innovative technologies, such as Robotic Surgery and Thoracoscopic Video-Assisted Surgery.

You will emphasize the subgroups of patients who will benefit from these less invasive approaches, providing an in-depth analysis of the benefits of Minimally Invasive Surgery"

General Objectives

- Examine the different diseases of the central airway, malformations and some specific diseases that can benefit from minimally invasive approaches
- Address the different technical possibilities for the surgical treatment of these diseases, taking into account the existing limitations
- Identify the surgical indications for Minimally Invasive Surgery in this group of diseases, as well as its limits
- Present the latest developments in minimally invasive surgical treatment in this subgroup of patients
- Define the most frequent indications for minimally invasive surgery in the mediastinum
- Generate the knowledge necessary to correctly approach the different mediastinal diseases through minimally invasive surgery



Specific Objectives

Module 1. Minimally Invasive Airway Surgery, Malformations, Pneumothorax and Pulmonary Emphysema

- Provide an in-depth understanding of the anatomy of the structures that make up the central airway, anatomical relations, possibilities for resection and subsequent reconstruction using minimally invasive approaches
- Provide technical tips and tricks for the successful performance of this type of surgery
- Be aware of the current limitations that rule out this minimally invasive approach in some cases
- Determine the possibilities of anaesthetic management, natural airway intubation, devices, intracorporeal membrane oxygenation and intubation
- Determine the most common complications, as well as their early diagnosis and treatment, if necessary
- Analyze the specific risks of this surgical approach compared to the traditional one

Module 2. Minimally Invasive Surgery of the Thoracic Wall, Diaphragm and Pleura

- Define existing surgical techniques and identify the different approaches to the sympathetic system
- Identify the subgroup of patients who can benefit from a minimally invasive or hybrid resection of the thoracic wall and propose their approach routes
- Delve into the indication and minimally invasive surgical techniques for resection of the first rib
- Justify the benefits of the minimally invasive treatment of pleural empyema, as well as examine the current guidelines for the treatment of this disease

Module 3. Minimally Invasive Mediastinal Surgery

- Establish the correct surgical techniques to be performed by means of minimally invasive surgery for the resection of thymic, thyroid or parathyroid tumors or lesions
- Define how to perform a correct lymphadenectomy by minimally invasive approach in the treatment of lung carcinoma
- Analyze the esophageal disease that can be approached by minimally invasive techniques, establishing the access routes
- Demonstrate that minimally invasive surgery in the treatment of mediastinal infections is an option as valid as open surgery
- Develop the possible complications that we may encounter after a minimally invasive approach to the different diseases of the mediastinum

You will cover practical technical aspects to successfully perform Minimally Invasive Surgeries, taking into account the limitations and contraindications of this approach compared to Traditional Surgery"

05

Career Opportunities

Professionals will be able to work in high-level hospitals and medical centers, both public and private, in areas dedicated to Thoracic Surgery, especially in units that practice minimally invasive procedures. They will also have the opportunity to lead multidisciplinary teams in research and teaching institutions, contributing to the development of new techniques and therapeutic approaches. In addition, this advanced education in Robotic Surgery and Thoracoscopic Video-Assisted Surgery will open doors in specialized clinics, reference centers for the treatment of lung cancer, airway malformations, or pleural and mediastinal diseases.

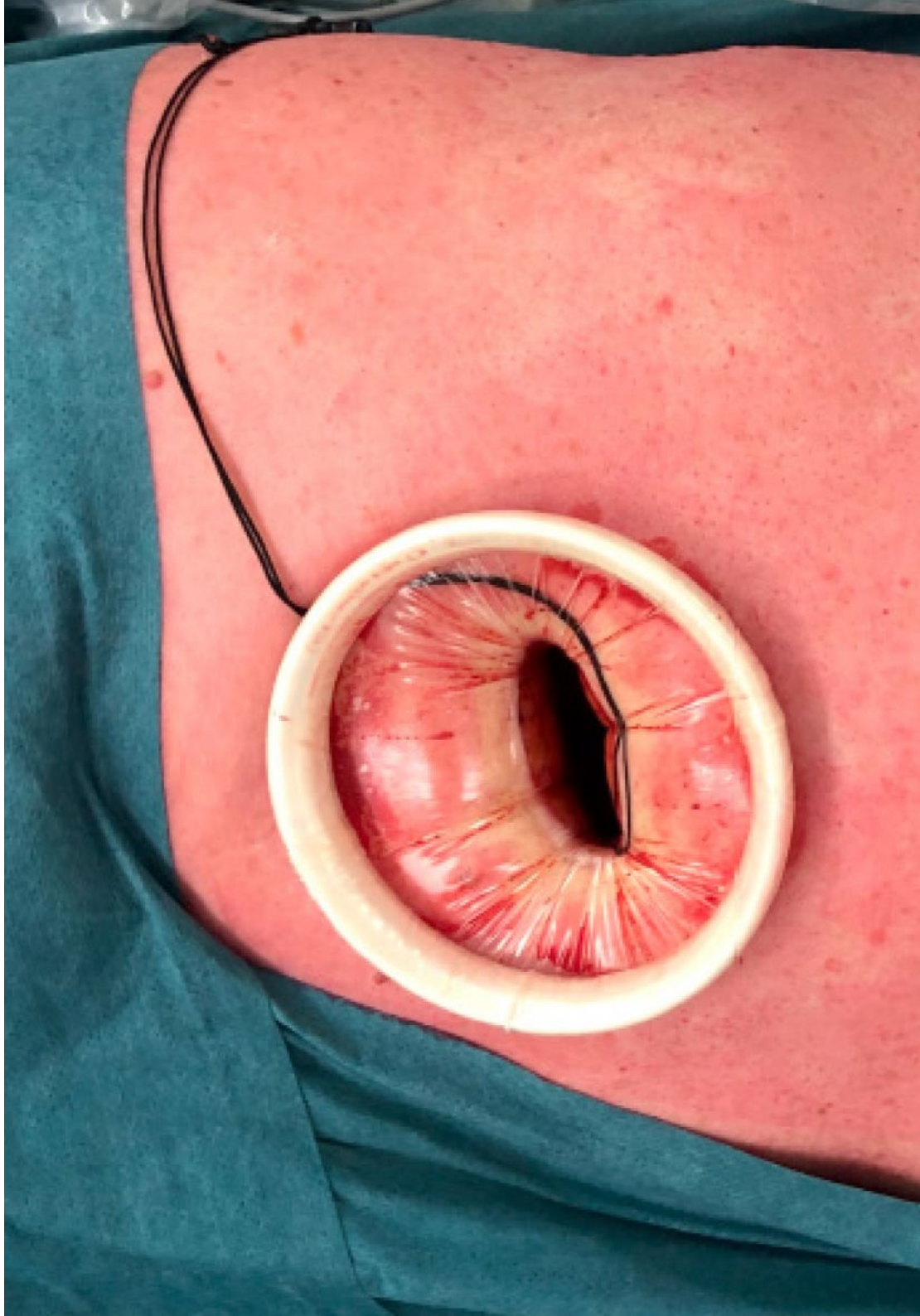
The program in Minimally Invasive Airway, Thoracic Wall and Mediastinal Surgery will offer you a wide range of professional opportunities, allowing you to specialize in a highly demanded field"

Graduate Profile

Graduates will have a solid understanding of the anatomy and critical structures of the airway, thoracic wall and mediastinum, enabling them to undertake a wide variety of procedures with precision and safety. They will also be prepared to use cutting-edge technologies, such as robotic surgery and thoracoscopic video-assisted surgery, with the aim of improving clinical outcomes and reducing patient recovery times. They will also be able to identify the indications and limitations of minimally invasive procedures, manage possible complications and work in multidisciplinary teams in highly complex clinical environments.

Graduates of this program will be physicians highly skilled in the management of thoracic diseases using advanced and minimally invasive surgical techniques.

- **Leadership and Management of Surgical Teams:** Ability to coordinate and lead multidisciplinary teams, promoting a collaborative and efficient approach in the surgical environment
- **Effective Communication:** Skills to communicate clearly and empathetically with patients, family members and members of the medical team, facilitating patient-centered care and expectation management
- **Evidence-based Clinical Decision Making:** Development of skills to make informed decisions, integrating the latest technological and scientific advances in Thoracic Surgery, always aimed at optimizing results for the patient
- **Innovation Management and Continuous Improvement:** Ability to identify, apply and promote innovative practices in Thoracic Surgery, contributing to the continuous improvement of the quality of care in the institutions where they work



After completing the program, you will be able to use your knowledge and skills in the following positions:

1. **Thoracic Surgeon in Highly Specialized Hospitals:** Physician specialized in performing thoracic surgical procedures with minimally invasive techniques, working in highly complex hospitals.
2. **Robotic Surgeon in Thoracic Surgery Centers:** Physician who leads the performance of thoracic procedures using Robotic Surgery in high-tech centers.
3. **Specialist in Minimally Invasive Surgery in Thoracic Oncology:** Surgeon focused on the treatment of lung and mediastinal tumors using minimally invasive techniques.
4. **Consultant in Thoracic Airway and Mediastinal Surgery:** Professional who offers advice and technical guidance to other doctors and health centers in the area of Minimally Invasive Thoracic Surgery.
5. **Chief of Thoracic Surgery Unit:** Leading physician in charge of supervising and coordinating the activities of a Thoracic Surgery team in a hospital or clinic.
6. **Researcher in Thoracic Surgery and Minimally Invasive Techniques:** Professional dedicated to the research and development of new techniques and surgical procedures in Minimally Invasive Thoracic Surgery.
7. **Pediatric Thoracic Surgeon:** Specialist in performing Minimally Invasive Surgeries on pediatric patients with thoracic diseases, such as airway malformations.
8. **Physician in Thoracic Intensive Care Units:** Professional who works in Intensive Care units, specialized in the post-surgical care of patients undergoing Minimally Invasive Thoracic Surgery.

This specialization will open the door to new professional opportunities and collaboration in high-level multidisciplinary teams, favoring continuous improvement in patient care. Enroll now!"

06

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career"

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.
The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

"At TECH you will NOT have live classes (which you might not be able to attend)"

The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

> *TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"*

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.

Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.

A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

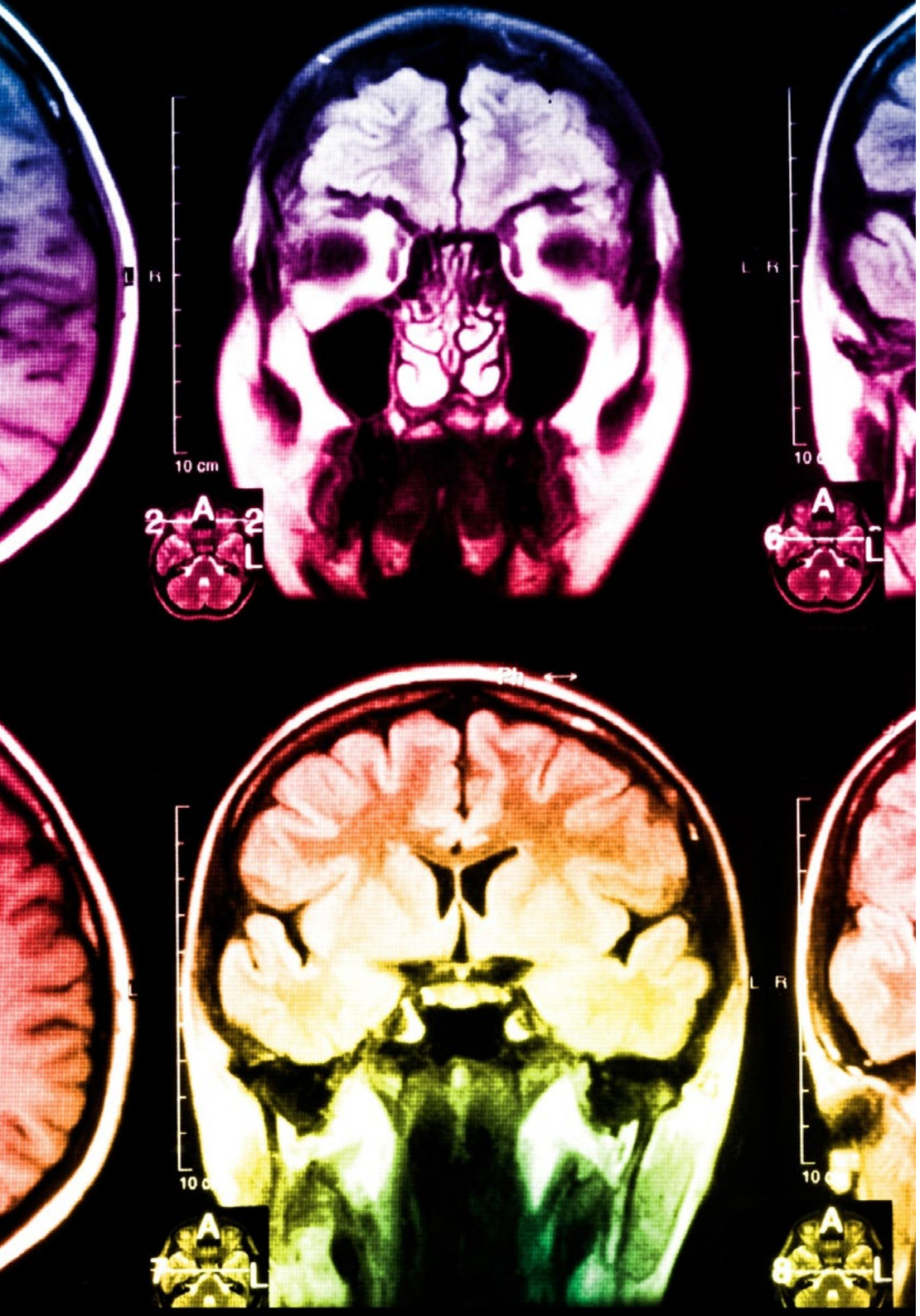
In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.

"The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

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 assess 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.



The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

As such, the best educational materials, thoroughly prepared, will be available in this program:

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.

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.

Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.

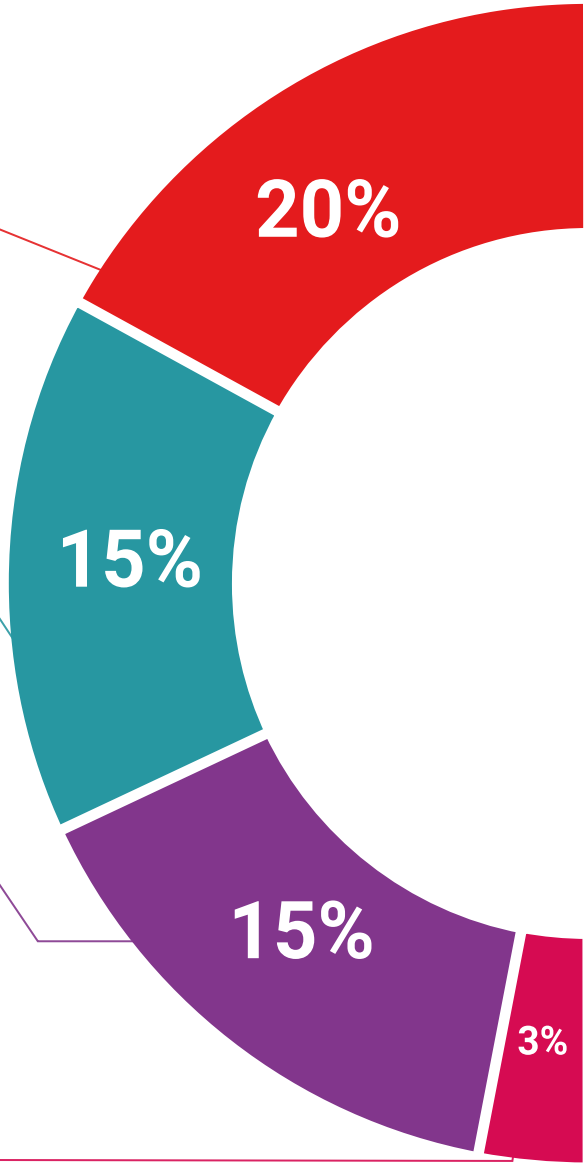
Interactive Summaries

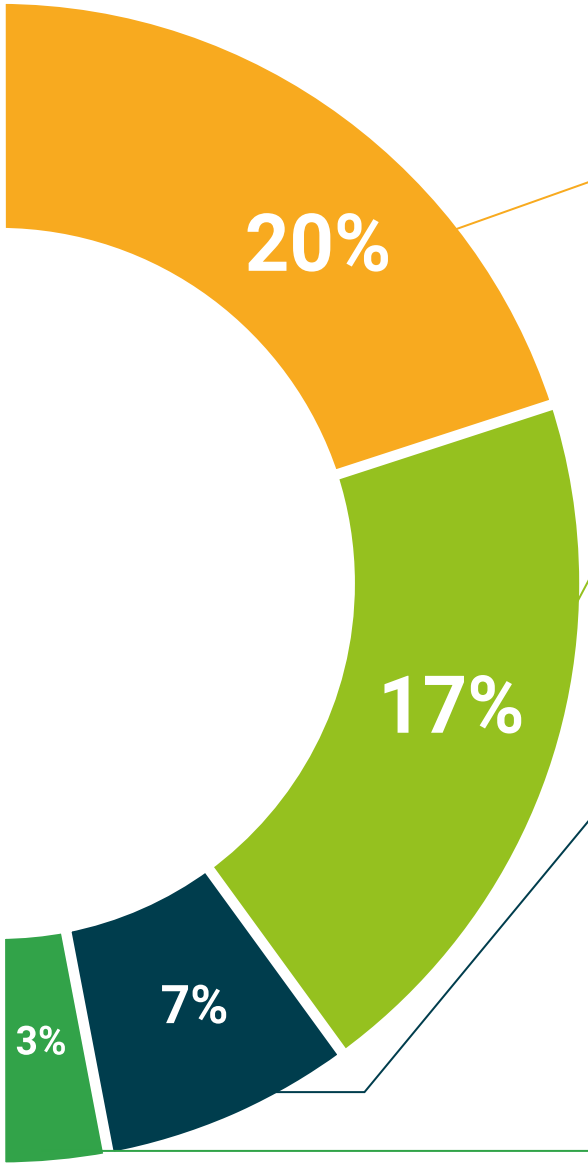
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content 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 education.





Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

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 for 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.

07

Teaching Staff

The Postgraduate Diploma has a highly qualified teaching team, made up of renowned professionals in the field of Minimally Invasive Thoracic Surgery. In fact, they are experts with extensive clinical and academic experience, pioneers in innovative techniques such as Thoracoscopic Video-Assisted Surgery and Robotic Surgery. In addition to their professional careers, these mentors stand out for their ability to transmit their knowledge in a clear and practical way, integrating theory with real cases and clinical scenarios that will allow students to develop advanced technical skills.

The pedagogical approach of the teachers will be oriented towards promoting active learning, ensuring that graduates acquire a deep understanding of the techniques and their application in current surgical practice"

Management

Dr. Martínez Hernández, Néstor J.

- President of the Scientific Advisory Office of the Spanish Society of Thoracic Surgery (SECT)
- Coordinator of the Scientific Committee of the Spanish Society of Thoracic Surgery
- Thoracic Surgeon at the University Hospital La Ribera
- Thoracic Surgeon Editor of Cirugía Española in Elsevier
- Guest Editor at the Journal of Visualized Experiments
- Associate Professor at the Department of Respiratory Medicine, Faculty of Medicine, Catholic University of Valencia
- Thoracic Surgeon at the Manises Hospital
- Visiting Physician at Cedars-Sinai Medical Center
- Resident Medical Intern at the General University Hospital of Valencia
- Visiting Physician at Mount Sinai Hospital, New York, United States
- Visiting Physician at Yale New Haven Hospital, United States
- Doctor of Medicine and Surgery from the University of Valencia
- Degree in Medicine and Surgery from the University of Valencia
- Specialist in Thoracic Surgery
- Extraordinary Doctorate Award from the University of Valencia
- Antonio Caralps y Masso Award of the SECT for the Best Communication in Thoracic Surgery
- First Prize of IX Edition to the Best Specialist in Training at the Gregorio Marañón General University Hospital
- Member of: European Society for Thoracic Surgery (ESTS), Spanish Society of Thoracic Surgery (SECT), Spanish Society of Pulmonology and Thoracic Surgery (SEPAR), Valencian Society of Pulmonology (SVN)

Dr. Quero Valenzuela, Florencio

- Chief of the Thoracic Surgery Department at the Virgen de las Nieves University Hospital
- Specialist Physician in Thoracic Surgery at the Virgen de las Nieves University Hospital
- Specialist Physician in Thoracic Surgery at the Virgen Macarena University Hospital
- Member of the Ae22-Cancer Genetics, Biomarkers and Experimental Therapies Research Group
- Doctor of Surgery from the University of Granada
- Master's Degree in Clinical Unit Management from the University of Murcia
- Expert in Epidemiology and Clinical Research from the University of Granada
- Bachelor's Degree in Medicine and Surgery from the University of Granada

Professors

Dr. Jiménez Maestre, Unai

- Chief of the Service of Thoracic Surgery at the IMQ Zorrotzaurre Clinic
- Specialist Physician in the Thoracic Surgery Department at the Cruces University Hospital
- Resident Physician in the Thoracic Surgery Department at Cruces University Hospital
- Specialty in Cardiothoracic Transplantation at Freeman Hospital, Newcastle, United Kingdom
- Bachelor's Degree in Medicine and Surgery from the University of the Basque Country

Dr. Lorenzo Martín, Mónica

- Secretary of the Thoracic Tumors Committee at Cruces University Hospital
- Specialist Physician in Thoracic Surgery at Cruces University Hospital
- Resident Physician in Thoracic Surgery at Cruces University Hospital
- Doctor of Medicine and Surgery from the University of the Basque Country
- Bachelor's Degree in Medicine and Surgery from the University of the Basque Country
- Member of: Spanish Society of Thoracic Surgery (SECT)

Dr. García Gómez, Francisco

- Thoracic Surgeon at the Virgen del Rocío Hospital
- Thoracic Surgeon at the Jerez Puerta del Sur Hospital
- Thoracic Surgeon at the Puerta del Mar University Hospital
- Thoracic Surgeon at the Quirón Sagrado Corazón Hospital
- Residency in Thoracic Surgery at the Virgen del Rocío University Hospital
- Specialty in Thoracic Surgery at the Memorial Sloan Kettering Cancer Center, New York
- Doctor of Medicine from the University of Sevilla
- Master's Degree in Thoracic Oncology from the Cardenal Herrera University
- Master's Degree in Emergency Medicine from the University of Sevilla
- University Expert in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall from the Cardenal Herrera University
- University Expert in Screening, Molecular Biology and Staging of Thoracic Cancer from the Cardenal Herrera University
- University Expert in Diagnosis and Basis of Treatment in Thoracic Oncology from the Cardenal Herrera University
- Degree in Medicine from the University of Cádiz

Dr. López Villalobos, José Luis

- Thoracic Surgeon at the Quirónsalud Sagrado Corazón Hospital
- Assistant Physician in the Thoracic Surgery Department at the Virgen del Rocío University Hospital
- Medical Intern Resident in Airway Surgery at the Clinical Hospital of Valencia
- Residency in Thoracic Surgery at the Virgen del Rocío University Hospital
- Doctor of Medicine from the University of Sevilla
- Bachelor's Degree of the Faculty of Medicine of the University of Sevilla

Dr. Vázquez Cal, Isabel

- Specialist Physician in Thoracic Surgery at La Princesa University Hospital
- Specialist Physician in Thoracic Surgery at the Puerta de Hierro University Hospital
- Medical Intern Resident in Thoracic Surgery at the San Carlos Clinical Hospital
- Master's Degree in Thoracic Oncology from CEU Unviersity
- University Expert in Lung Cancer, Tumors of the Pleura, Mediastinum and Wall from CEU
- Expert in Diagnosis and Basis of Treatment in Thoracic Oncology from CEU
- University Expert in Screening, Molecular Biology and Staging in Lung Cancer from CEU
- University Expert in Emergencies in Thoracic Surgery from the Catholic University of Valencia
- University Expert in Pleural Pathology from the University of Barcelona
- Bachelors' Degree in Medicine and Surgery from the Complutense University of Madrid

Dr. Romero Román, Alejandra

- Specialist Physician in Thoracic Surgery at the Puerta de Hierro University Hospital
- Medical Intern Resident in Thoracic Surgery at the Puerta de Hierro University Hospital
- Master's Degree in Diagnosis and Treatment of Patients with Thoracic Tumors from the Autonomous University of Madrid
- Master's Degree in Thoracic Oncology from the CEU Cardenal Herrera University
- Bachelor's Degree in Medicine from the University of Alcalá

Dr. Cano García, José Ramón

- Specialist Physician in Thoracic Surgery at the Mother and Child Hospital Complex of Gran Canaria
- Member of the Technical Assistance Board at the Materno-Insular Hospital Complex of Gran Canaria
- Specialist Physician in Thoracic Surgery at the San Roque University Hospitals
- MIR specialty in Thoracic Surgery at the Reina Sofia University Hospital
- Doctor of Medicine from the University of Córdoba
- Master's Degree in Thoracic Oncology from the CEU Cardenal Herrera University
- University Expert in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall from the CEU Cardenal Herrera University
- University Expert in Screening, Molecular Biology and Staging of Lung Cancer from the CEU Cardenal Herrera University
- University Expert in Diagnosis and Treatment Bases in Thoracic Oncology from the CEU Cardenal Herrera University
- University Expert in Emergencies in Thoracic Surgery from the Catholic University of Valencia San Vicente Mártir
- Degree in Medicine from the University of Córdoba

Dr. Monge Blanco, Sara

- Specialist Physician in Thoracic Surgery at the Quirónsalud Sagrado Corazón Hospital
- Specialist Physician in Thoracic Surgery at the Virgen del Rocío Hospital
- Researcher in the Spanish Multicenter Study Group of Primary Spontaneous Pneumothorax (GEMENEP)
- Resident Physician specialized in Thoracic Surgery at the Virgen del Rocío Hospital
- Master's Degree in Healthcare Research and Assistance from the University of A Coruña
- Master's Degree in Thoracic Oncology from the CEU Cardenal Herrera University
- Master's Degree in Catastrophes, Emergencies and Humanitarian Aid from the Catholic University of Murcia
- University Expert in Pain Treatment from the University of Vitoria-Gasteiz
- University Expert in Care for the Critically Ill with Respiratory Disease from the University of Vitoria-Gasteiz
- Degree in Medicine from the University of Sevilla

All the lecturers on this program have extensive experience, offering you an innovative perspective on the main advances in this field of study"

08

Certificate

This Postgraduate Diploma in Minimally Invasive Airway, Thoracic Wall and Mediastinal Surgery guarantees, in addition to the most rigorous and up-to-date program, access to an Postgraduate Diploma issued by TECH Global University.

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

This private qualification will allow you to obtain a diploma for the **Postgraduate Diploma in Minimally Invasive Airway, Thoracic Wall and Mediastinal Surgery** 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 Minimally Invasive Airway, Thoracic Wall and Mediastinal Surgery**

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 Minimally Invasive Airway, Thoracic Wall and Mediastinal Surgery

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.

tech global university

Postgraduate Diploma

Minimally Invasive Airway, Thoracic Wall and Mediastinal Surgery

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

Postgraduate Diploma

Minimally Invasive Airway, Thoracic Wall and Mediastinal Surgery

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