



Laparoscopy and Thoracoscopy in Small Animals

» Modality:Online

» Duration: 6 months.

» Certificate: TECH Global University

» Accreditation: 24 ECTS

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-laparoscopy-thoracoscopy-small-animals

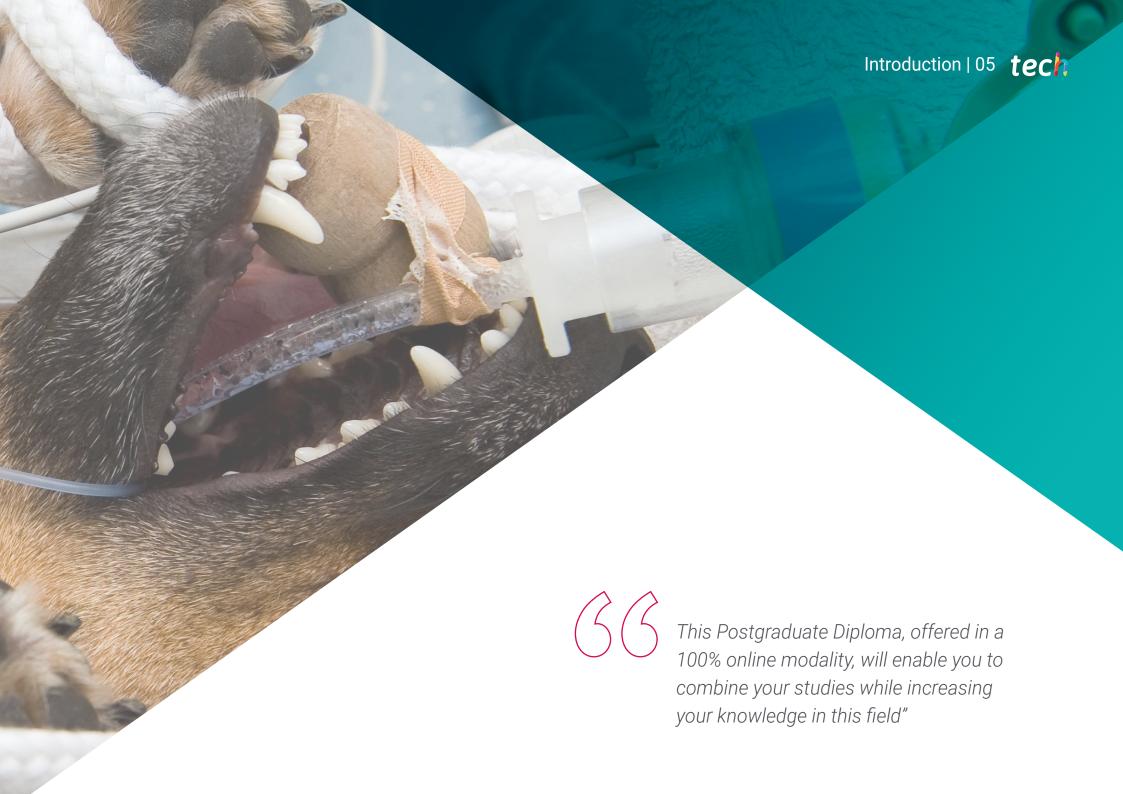
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### tech 06 | Introduction

Minimally Invasive Techniques for the Diagnosis and Treatment of various diseases in small animals were first implemented in veterinary medicine 20 years ago and have had exponential growth in the last decade.

This upturn, which goes hand in hand with the progress made by human medicine in the field, is owed to several factors: technical development, equipment and instruments that offer higher quality images and are more affordable; the development of specific diagnostic and therapeutic techniques, as well as of professionals who are better trained and carry out most of their clinical activities through these minimally invasive techniques, in addition to owners who are ever more concerned about the health of their pets and demand more specialized clinical services, more accurate clinical diagnoses and treatments that are less invasive and that will result in lower pain levels and fewer hospitalizations for their pets.

The faculty of this program is at the forefront of the latest diagnostic techniques and treatment of cardiovascular diseases in small animals. Thanks to their specialized training, they have developed a useful and practical program that is adapted to the current reality, a reality that is becoming more and more demanding and specialized.

The teaching team has selected an agenda that generates specialized knowledge with an overview of the importance of minimally invasive techniques for the diagnosis and treatment of many diseases affecting small animals, in the description of equipment, instruments, approaches in minimally invasive surgery, anesthesia and most frequent complications.

It provides high quality multimedia material on different laparoscopic and thoracoscopic surgical techniques, from the simplest and most common to the most technically complex. It also addresses, in detail, diagnostic and therapeutic techniques as used in Rigid and Flexible Endoscopy.

As it is an online Postgraduate Certificate course, students are not restricted by set timetables, nor do they need to physically move to another location. All of the content can be accessed at any time of the day, so you can balance your working or personal life with your academic life.

This **Postgraduate Diploma in Laparoscopy and Thoracoscopy in Small Animals** contains the most complete and up to date educational program on the market. The most important features of the program include:

- Case studies presented by experts in Laparoscopy and Thoracoscopy in Small Animals
- The graphic, schematic, and practical contents with which they are created provide scientific and practical information on the disciplines, essential for professional development
- Latest information on Laparoscopy and Thoracoscopy in Small Animals
- Practical exercises where self assessment can be used to improve learning
- Its special emphasis on innovative methodologies in Laparoscopy and Thoracoscopy in Small Animals
- 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



This training is the best option you can find to specialize in Laparoscopy and Thoracoscopy in Small Animals and make more accurate diagnoses"



This Postgraduate Diploma is the best investment you can make when choosing a refresher program to expand your knowledge on Laparoscopy and Thoracoscopy in Small Animals"

Its teaching staff includes professionals belonging to the field of Veterinary Surgery who bring to this training the experience of their work, as well as renowned specialists from reference 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 immersion training programmed to train in real situations.

This program is designed around Problem Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this, the professional will have the help of an innovative interactive video system designed by recognized experts in Veterinary Surgery.

Don't miss the opportunity to complete this course in Laparoscopy and Thoracoscopy in Small Animals with us. It's the perfect opportunity to advance your career.

Veterinarians must continue their training to adapt to new developments in this field.







### tech 10 | Objectives



#### **General Objectives**

- Analyze the history, evolution and new perspectives of minimally invasive techniques
- Detail basic and accessory equipment and instruments used in laparoscopies with small animals
- Compile a list of the techniques needed to perform laparoscopic surgery
- Develop a training program for laparoscopic surgery
- Analyze the importance of ergonomics in laparoscopic surgery
- Provide students with a detailed description of minimally invasive techniques used with diseases in the reproductive system and in endocrine, splenic and extrahepatic vascular surgery
- In depth study of the indications of minimally invasive techniques versus standard techniques, as used with diseases in the reproductive system and in endocrine, splenic and extrahepatic vascular surgery
- In depth study of the advantages and disadvantages of minimally invasive techniques, as used with certain diseases in the reproductive system and in endocrine and splenic surgery
- Analyze the therapeutic advantages of new modalities of minimal invasion in the treatment of extrahepatic portosystemic shunt
- Integrate the knowledge acquired in these new therapeutic modalities to obtain a global vision of diseases in the reproductive system, and of endocrine, splenic and extrahepatic vascular surgery

- Provide the Veterinary Clinic with the knowledge required to perform laparoscopic techniques on the urinary and digestive systems
- Perform in depth examination of port placement and patient positioning for laparoscopic techniques used with urinary and digestive tracts
- Integrate knowledge in such a way that will allow students to gain confidence and assurance when performing laparoscopic interventions in the urinary and digestive systems
- Examine the advantages and disadvantages of using minimally invasive techniques in urinary and digestive systems, as compared to more conventional methods
- Provide students with the general surgical knowledge required to minimize perioperative complications during laparoscopic surgery of the urinary and digestive systems
- Analyze indications and patient selection process for laparoscopic cholecystectomy
- Incorporate newly acquired knowledge in order to determine optimal therapeutic treatment for inguinal and perineal hernias
- Develop an understanding of thoracoscopic approach techniques and address the main complications that may occur
- Describe techniques most frequently used in thoracoscopic surgery
- Integrate the student's knowledge which will allow them to gain confidence and a sense of security in the interventions developed in this module





### **Specific Objectives**

#### Module 1. Basic Principles in a Laparoscopy

- Analyze the history and evolution of minimally invasive surgical techniques
- Establish the basic equipment and instruments needed to perform a laparoscopy
- Identify complementary material used to perform laparoscopies, such as electrosurgical units
- Develop a training program to gain the skills needed to perform laparoscopy surgery
- Evaluate the different techniques used in the laparoscopic approach to surgery
- Identify the different complications that could arise with the laparoscopic technique
- Analyze new perspectives in laparoscopy surgery, such as single incision laparoscopy and NOTES

## Module 2. Laparoscopic Techniques for the Reproductive, Endocrine, Splenic and Portosystemic Shunt Systems

- Develop minimally invasive techniques for procedures on the female reproductive system, such as sterilization techniques, treatment of ovarian remnants and the excision of ovarian tumors
- Analyze the techniques and indications for minimally invasive insemination
- Identify the laparoscopy technique for abdominal cryptorchidism
- Describe technique and patient selection process in laparoscopic adrenalectomy
- Demonstrate laparoscopy techniques used to perform pancreatic biopsy and pancreatectomies
- Analyze minimally invasive techniques used for attenuation of the portosystemic shunt
- Address the technique and patient selection process in laparoscopic surgery for performance of a splenic biopsy and a splenectomy

### tech 12 | Objectives

#### Module 3. Laparoscopic Techniques for the Urinary and Digestive systems

- Develop knowledge of minimal invasion techniques for performing a laparoscopy assisted cystoscopy
- Analyze the laparoscopy techniques and indications of renal biopsy
- Examine laparoscopy techniques for a ureteronephrectomy and renal cyst omentalization
- Describe advanced laparoscopic techniques as applied to the urinary system, such as ureterotomy, urethral reimplantation, and insertion of an artificial bladder sphincter
- Present the laparoscopic techniques, indications and complications involved in a liver biopsy and hepatectomy
- Demonstrate laparoscopy techniques used to perform preventative gastropexies in dogs
- Describe the laparoscopy technique as used to examine the digestive system and the removal of foreign bodies from dogs



A path to achieve professional growth that will propel you towards a greater level of competitiveness in the job market"





# Module 4. Laparoscopic Techniques in Extrahepatic Biliary Tree, Inguinal and Perineal Hernias. Thoracoscopic Techniques. General, Pericardium, Pleural Effusion, Vascular Rings, and Mediastinal Masses

- Develop techniques and establish a patient selection protocol to perform a cholecystectomy
- Identify the laparoscopy technique for the resolution of an inguinal hernia
- Examine minimal invasion techniques as part of treatment of perineal hernias
- Develop an understanding of the indications, approach techniques and complications involved when performing a thoracoscopy in small animals
- Describe thoracoscopic techniques for performing pericardiectomies in dogs
- Review indications for lung biopsies and lobectomies and develop the thoracoscopic technique to perform these
- Describe the thoracoscopic technique as it used to correct a right aortic arch in dogs
- Review the different surgical options, including thoracoscopies, used to excise surgical masses





#### **International Guest Director**

Dr. Matteo Rossanese is a leading veterinary surgeon who has served as Co-Director of the Soft Tissue Surgery Area at the Queen Mother's Hospital in London, United Kingdom. In fact, his career has been distinguished by his specialization in Small Animal Surgery, a field in which he has achieved notable international recognition. In this sense, he has focused on Cardiothoracic Surgery and Minimally Invasive Surgery, areas in which he has made significant contributions to advance the treatment of complex conditions in animals.

In addition to his academic and professional career, he has been involved in various research and publications. In this way, his work has focused on improving surgical techniques, with a focus on innovation and education, publishing relevant articles that have enriched knowledge in the field of Veterinary Surgery. It is worth mentioning one of them, under the title: "Ultrasound-guided hook and wire localization for surgical excision of non-palpable superficial inguinal lymph nodes in dogs: a pilot study".

He has also accumulated extensive experience in different leading institutions. As such, he began a postgraduate research project and internship in Surgery and Neurosurgery at North Downs Specialist Referrals, followed by a general internship at the Animal Health Trust. Thereafter, his teaching continued at the Small Animal Teaching Hospital, where he completed his residency in Small Animal Surgery.

Internationally, Dr. Matteo Rossanese has been recognized as an outstanding professional in his field, committed to professional excellence. Likewise, his ability to contribute significantly to veterinary practice makes him one of the great leaders in such an important field. There is no doubt that this great professional will continue to successfully face any challenge in his path.



### Dr. Rossanese Matteo

- Co-Director of Soft Tissue Surgery at Queen Mother's Hospital, London, United Kingdom
- Co-Founder of VetSpoke LTD
- General Intern at Animal Health Trust
- Veterinary Intern at North Downs Specialist Referrals Ltd
- Veterinary Surgeon at Boso Dr. Matteo Veterinary Outpatient Clinic



#### Management



#### Dr. Ortiz Díez, Gustavo

- Head of Small Animal Unit at Complutense Clinical Veterinary Hospital
- PhD and Undergraduate Degree in Veterinary Medicine from the UCM
- Master's Degree in Research Methodology in Health Sciences from the UAB
- Specialist in Traumatology and Orthopedic Surgery in Companion Animals by the UCM. Degree in Small Animal Cardiology from the UCM
- Member of the scientific committee and current president of GECIRA (AVEPA's Soft Tissue Surgery Specialty Group)
- Associate Professor, Department of Animal Medicine and Surgery, Faculty of Veterinary Medicine, Complutense University of Madrid



#### Dr. Casas García, Diego L

- University Specialist in Endoscopy and Minimally Invasive Small Animal Surgery (SpecEaMIS)
- Degree in Medicine from the Autonomous University of Gran Canaria(Spain)
- Currently Studying a PhD at the University of Extremadura (Spain)
- Certificate in Internal Medicine (GPCertSAM) by the European School of Veterinary Postgraduate Studies (ESVPS)
- Certified by the University of Extremadura and the Jesús Usón Minimally Invasive Surgery Center (CCMIJU
- Co-director of the Canary Islands Minimally Invasive Veterinary Center CVMIC in Las Palmas de Gran Canaria (Spain).
  Head of Endoscopy and MIS services at CVMIC

#### **Professors**

#### Dr. Arenillas Baquero, Mario

- Bachelor's Degree in Veterinary Medicine from the Complutense University of Madrid. He obtained the Diploma of Advanced Studies in 2011 and will defend his thesis for the achievement of the Doctorate in Veterinary Medicine in 2020
- Associate Professor in the Clinical Rotation of the subject "Anesthesiology" in the Veterinary Degree of the Faculty of Veterinary Medicine of the Complutense University of Madrid (UCM). As from March 2020
- Teaches in different undergraduate and postgraduate courses related to veterinary anesthesiology, both at the university and clinical practice levels
- Veterinary Anesthesiology at the European College of Veterinary Anaesthesia and Analgesia at UCM
- Carries out teaching duties at the University and undertakes clinical and research work in anesthesia, both at the University as well as in the clinical setting
- He has been the designated veterinarian at the animal facility of the University Hospital in Getafe

#### Dr. Carrillo Sánchez, Juana Dolores

- Specialist in Endoscopy and Minimally Invasive Surgery in Small Animals
- Degree in Veterinary Medicine from the University of Murcia
- Doctor from the University of Murcia
- General Practioner Certificate in Small Animal Surgery
- Accreditation in the specialty of soft tissue surgery

#### Dr. Fuertes Recuero, Manuel

- Veterinarian, Valmeda Veterinary Clinic
- Degree in Veterinary Medicine, Complutense University Madrid
- Practical Training Scholarship. Advanced internship in small animal surgery,
  Complutense Clinical Veterinary Hospital, Madrid. Substitution
- Veterinarian, Los Madroños Veterinary Clinic
- Veterinarian at Small Animal Clinic-Hospital, Companion Care Sprowston Vets4pets, Norwich, England

#### Dr. Gutiérrez del Sol, Jorge

- Founding partner of the company Vetmi, Minimally Invasive Veterinary Medicine
- Currently Studying a PhD at the University of Extremadura
- Degree in Veterinary Medicine from the University of Extremadura.
- Master's Degree in Meat Science and Technology from the University of Extremadura
- Master's Degree in Clinical Veterinary Etiology from the University of Zaragoza
- Currently studying a Postgraduate Degree in Veterinary Surgery at Barcelona University
- Lecturer for the veterinary training company, Vetability, in its Advanced Laparoscopy and Thoracoscopy courses

#### Dr. Lizasoain Sanz, Guillermo

- Veterinarian at the Veterinary Hospital La Moraleja, Peñagrande group
- Degree in Veterinary Medicine, Complutense University Madrid
- Member of the Official College of Veterinarians of Madrid
- Mentor in the Official Mentoring Program of the Veterinary Degree Complutense University of Madrid

### tech 20 | Course Management

#### Dr. Martínez Gomáriz, Francisco

- University Specialist in Endoscopy and Minimally Invasive Small Animal Surgery (SpecEaMIS)
- PhD in Veterinary Medicine from the University of Murcia
- Degree in Veterinary Medicine from the University of Murcia
- Postgraduate Diploma in Surgery and Anaesthesia of Small Animals by the Autonomous University of Barcelona
- Associate Professor, Department of Anatomy and Embriology of the Faculty of Veterinary Medicine, University of Murcia
- Founding Partner of the Bonafé Veterinary Clinic in La Alberca. Murcia
- Director of the Centro Murciano de Endoscopia Veterinaria-CMEV, in La Alberca, Murcia, since 2005
- Postgraduate Diploma in Small Animal Surgery and Anesthesia
- Professor. Associate Anatomy and Embryology. Faculty of Veterinary Sciences.
  University of Murcia

#### Dr. Pérez Duarte, Francisco Julián

- Secretary of AVEPA's Endoscopy Working Group (EWG)
- Founding member of the Iberian Minimally Invasive Society MINIMAL
- Researcher at the laparoscopy unit of the Jesús Usón Minimally Invasive Surgery Center (CCMIJU)
- Collaborator teacher, UEX Department of Surgery





### Course Management | 21 tech

#### Dr. Palacios Quirós, Nadia

- Founder of the Veterinary Endoscopy Mobile Service
- Degree in Veterinary Medicine from the Complutense University of Madrid
- Resident, Small Animals, Veterinary Hospital of the UCM (HV-UCM)
- Founder of the Retamas Veterinary Center (Alcorcón-Madrid)
- Professor of theory and practice at the Faculty of Veterinary Medicine of the University Alfonso X El Sabio (UAX); teaches endoscopy in the area of Diagnostic Imaging
- She has completed residencies for specialization in digestive medicine, ultrasound and endoscopy at the HV-UCM

#### Dr. Bobis Villagrá, Diego

- Veterinarian in charge of Soft Tissue Surgery, Endoscopy and Minimally Invasive Surgery at La Salle Veterinary Center
- Doctor Cum Laude from the Department of Veterinary Medicine, Surgery and Anatomy of the University of León
- Master's Degree in Veterinay Research and CTA University of Leon
- Master's Degree in Clinical Veterinary Practice in Hospitals Veterinary Hospital of the University of León
- Bachelor's Degree in Veterinary Medicine University of Leon
- Postgraduate in Soft Tissue Surgery, IVET Valencia
- Postgraduate in Surgery and Anaesthesia of Small Animals from the Autonomous University of Barcelona





### tech 24 | Structure and Content

#### Module 1. Basic Principles in a Laparoscopy

- 1.1. History of Minimally Invasive Surgery
  - 1.1.1. History of Laparoscopy and Thoracoscopy
  - 1.1.2. Advantages and Disadvantages
  - 1.1.3. New Perspectives
- 1.2. Laparoscopy Surgery Training
  - 1.2.1. Laparoscopy Training Program
  - 1.2.2. Skills Evaluation Systems
- 1.3. Laparoscopy Surgery Ergonomics
  - 1.3.1. Positioning of Surgical Equipment
  - 1.3.2. Surgeon's Body Posture
- 1.4. Laparoscopy Surgical Equipment Laparoscopy Tower
  - 1.4.1. Insufflation Gas
  - 1.4.2. Camera Source
  - 1.4.3. Light Source
- 1.5. Laparoscopy Surgical Instruments
  - 1.5.1. Trocars
  - 1.5.2. Dissection, Cutting and Aspiration Instruments
  - 1.5.3. Auxiliary Instruments
- 1.6. Energy Systems
  - 1.6.1. Physical principles |
  - 1.6.2. System Types Monopolar, Bipolar, Sealent
- 1.7. Laparoscopic Suture
  - 1.7.1. Extracorporeal Suture
  - 1.7.2. Intracorporeal Suture
  - 1.7.3. New Systems and Suture Materials
- 1.8. Access to the Abdomen and Creation of the Pneumoperitoneum
  - 1.8.1. Access to the Abdomen
  - 1.8.2. Creation of the Pneumoperitoneum

- 1.9. Laparoscopy Surgical Complications
  - 1.9.1. Intraoperative Complications
  - 1.9.2. Immediate Postoperative Complications
  - 1.9.3. Conversion
- 1.10. Single Incision Laparoscopy and NOTES
  - 1.10.1. Basic Management and Ergonomics Principles
  - 1.10.2. Surgical Techniques of Single Incision Laparoscopy
  - 1.10.3. Surgical Techniques of NOTES

## **Module 2.** Laparoscopic Techniques for the Reproductive, Endocrine, Splenic and Portosystemic Shunt Systems

- 2.1. Female Sterilization Technique Ovariectomy
  - 2.1.1. Indications
  - 2.1.2. Trocar Positioning and Placement
  - 2.1.3. Technique
- 2.2. Female Sterilization Technique Ovariohysterectomy
  - 2.2.1. Indications
  - 2.2.2. Trocar Positioning and Placement
  - 2.2.3. Technique
- 2.3. Laparoscopic Treatment of Ovarian Remnants
  - 2.3.1. Indications
  - 2.3.2. Trocar Positioning and Placement
  - 2.3.3. Technique
- 2.4. Male Sterilization Technique
  - 2.4.1. Indications
  - 2.4.2. Trocar Positioning and Placement
  - 2.4.3. Technique
- 2.5. Laparoscopic Intrauterine Insemination
  - 2.5.1. Indications
  - 2.5.2. Trocar Positioning and Placement
  - 2.5.3. Technique

**Excision of Ovarian Tumors** 2.6.1. Indications 2.6.2. Trocar Positioning and Placement 2.6.3. Technique 2.7. Adrenalectomy 2.7.1. Indications 2.7.2. Trocar Positioning and Placement 2.7.3. Technique Pancreatic Biopsy and Pancreatectomy 2.8.1. Indications 2.8.2. Trocar Positioning and Placement 2.8.3. Technique Extrahepatic Shunt 2.9.1. Indications 2.9.2. Trocar Positioning and Placement 2.9.3. Technique 2.10. Splenic Biopsy and Splenectomy

#### Module 3. Laparoscopic Techniques for the Urinary and Digestive Systems

- 3.1. Assisted Cystoscopy by Laparoscopy
  - 3.1.1. Indications

2.10.1. Indications

2.10.2. Positioning2.10.3. Technique

- 3.1.2. Trocar Positioning and Placement
- 3.1.3. Technique
- 3.2. Renal Biopsy
  - 3.2.1. Indications
  - 3.2.2. Trocar Positioning and Placement
  - 3.2.3. Technique
- 3.3. Ureteronephrectomy
  - 3.3.1. Indications
  - 3.3.2. Trocar Positioning and Placement
  - 3.3.3. Technique

- 3.4. Omentalization of Renal Cysts
  - 3.4.1. Indications
  - 3.4.2. Trocar Positioning and Placement
  - 3.4.3. Technique
- 3.5. Ureterotomy
  - 3.5.1. Indications
  - 3.5.2. Trocar Positioning and Placement
  - 3.5.3. Technique
- 3.6. Ureteral Reimplantation
  - 3.6.1. Indications
  - 3.6.2. Trocar Positioning and Placement
  - 3.6.3. Technique
- 3.7. Artificial Bladder Sphincter Placement
  - 3.7.1. Indications
  - 3.7.2. Trocar Positioning and Placement
  - 3.7.3. Technique
- 3.8. Liver Biopsy and Hepatectomy
  - 3.8.1. Indications
  - 3.8.2. Trocar Positioning and Placement
  - 3.8.3. Technique
- 3.9. Gastropexy
  - 3.9.1. Indications
  - 3.9.2. Trocar Positioning and Placement
  - 3.9.3. Technique
- 3.10. Extraction of Foreign Bodies from the Intestines
  - 3.10.1. Indications
  - 3.10.2. Trocar Positioning and Placement
  - 3.10.3. Technique

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**Module 4.** Laparoscopic Techniques in Extrahepatic Biliary Tree, Inguinal and Perineal Hernias Thoracoscopic Techniques. General, Pericardium, Pleural Effusion, Vascular Rings, and Mediastinal Masses

- 4.1. Cholecystectomy
  - 4.1.1. Indications
  - 4.1.2. Trocar Positioning and Placement
  - 4.1.3. Technique
- 4.2. Inguinal Hernias
  - 4.2.1. Indications
  - 4.2.2. Trocar Positioning and Placement
  - 4.2.3. Technique
- 4.3. Perineal Hernias. Cystopexy and Colopexy
  - 4.3.1. Indications
  - 4.3.2. Trocar Positioning and Placement
  - 4.3.3. Technique
- 4.4. Thorax Access
  - 4.4.1. Specific Instruments
  - 4.4.2. Animal Positioning
  - 4.4.3. Access Technique
- 4.5. Thoracoscopy Surgery Complications
  - 4.5.1. Intraoperative Complications
  - 4.5.2. Postoperative Complications
- 4.6. Pulmonary Biopsy and Pulmonary Lobectomy
  - 4.6.1. Indications
  - 4.6.2. Trocar Positioning and Placement
  - 4.6.3. Technique
- 4.7. Pericardiectomy
  - 4.7.1. Indications
  - 4.7.2. Trocar Positioning and Placement
  - 4.7.3. Technique





### Structure and Content | 27 tech

- 4.8. Treatment of Chylothorax
  - 4.8.1. Indications
  - 4.8.2. Trocar Positioning and Placement
  - 4.8.3. Technique
- 4.9. Vascular Rings
  - 4.9.1. Indications
  - 4.9.2. Trocar Positioning and Placement
  - 4.9.3. Technique
- 4.10. Mediastinal Masses
  - 4.10.1. Indications
  - 4.10.2. Trocar Positioning and Placement
  - 4.10.3. Technique





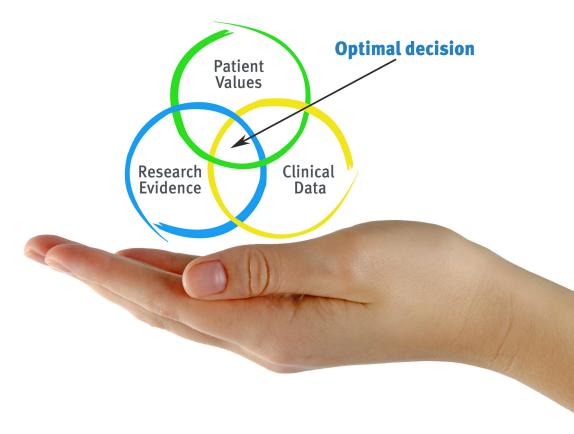


### tech 30 | Methodology

#### At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you 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, in an attempt to recreate the actual conditions in a veterinarian'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. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
- 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.** The feeling that the effort invested is effective becomes a very important motivation for veterinarians, which translates into a greater interest in learning and an increase in the 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.

Veterinarians 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.



### Methodology | 33 tech

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 65,000 veterinarians have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. Our teaching method is developed in a highly demanding environment, where the students have a high socio-economic profile and an average age of 43.5 years.

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

### tech 34 | Methodology

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.



#### **Latest Techniques and Procedures on Video**

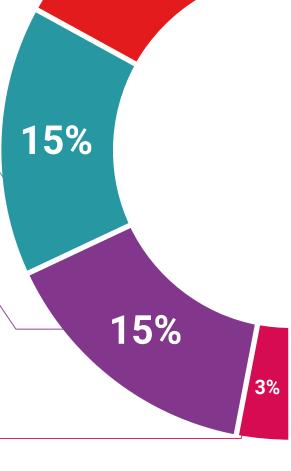
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch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



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

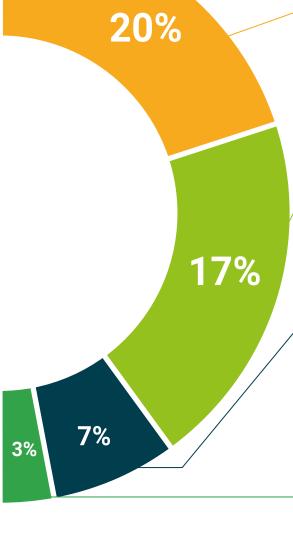
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







### tech 38 | Certificate

This program will allow you to obtain a Postgraduate Diploma in Laparoscopy and Thoracoscopy in Small Animals endorsed by TECH Global University, the largest digital university in the world.

**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 educational framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of joint 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 continuous education and professional updating that guarantees the acquisition of competencies in its area of knowledge, conferring a high curricular value to the student who completes the program.

Title: Postgraduate Diploma in Laparoscopy and Thoracoscopy in Small Animals ECTS: 24

Official No of Hours: 600 hours.



dd/mm/aaaa y fecha de finalización dd/mm/aaaa

TECH Global University es una universidad reconocida oficialmente por el Gobierno de Andorra el 31 de enero de 2024, que pertenece al Espacio Europeo de Educación Superior (EEES).

En Andorra la Vella, a 28 de febrero de 2024



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

tech global university

Postgraduate Diploma Laparoscopy and Thoracoscopy in Small Animals

- » Modality:Online
- » Duration: 6 months.
- » Certificate: TECH Global University
- » Accreditation: 24 ECTS
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

