

# Postgraduate Certificate

Injection Site Sarcomas in  
Small Animals. Melanoma and  
Respiratory Tumors





## Postgraduate Certificate

### Injection Site Sarcomas in Small Animals. Melanoma and Respiratory Tumors

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

Website: [www.techtute.com/us/veterinary-medicine/postgraduate-certificate/injection-site-sarcomas-small-animals-melanoma-respiratory-tumors](http://www.techtute.com/us/veterinary-medicine/postgraduate-certificate/injection-site-sarcomas-small-animals-melanoma-respiratory-tumors)

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01

# Introduction

This intensive program will address cutaneous and subcutaneous tumors such as sarcoma, associated with the injection site, and melanoma. The basic principles of oncologic skin surgery will be developed. Finally, a description of the most frequent respiratory tumors will be given, as well as their surgical approach.



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*Become one of the most demanded professionals today: Train in Injection Site Sarcomas in Small Animals. Melanoma and Respiratory Tumors with this comprehensive online Postgraduate Certificate”*

Injection site sarcomas are tumors that occur in cats due to certain types of vaccines. This program will discuss the diagnostic and therapeutic protocol for these tumors.

Melanomas are a relatively frequent type of tumor in dogs and rare in cats, and though they are mostly located on the skin, they can also appear in the oral cavity, on the pads, in the eyes, digestive tract, nasal cavity, anal sacs and mucocutaneous junctions. A diagnostic and therapeutic protocol for these tumors will be proposed on the course. The risk factors associated with this type of tumor and their prognosis will also be defined.

Regarding skin surgery, the basic principles of skin anatomy and healing will be described, as well as the most commonly used reconstruction techniques when extensive excision of skin tumors is required.

Finally, respiratory tumors in dogs and cats will be discussed. A diagnostic and therapeutic protocol will be proposed for the main tumors of the nasal plane, nasal cavity and sinuses, larynx, trachea and main bronchi. A diagnostic and therapeutic protocol will be established, and the associated risk factors will be assessed, as well as their prognosis. The main surgical techniques that can initially be performed to address the treatment of these tumors will be described, so that clinical oncologists can have knowledge of these techniques and be able to make better recommendations for patients with this type of respiratory tumors.

As it is an online Postgraduate Certificate, students are not conditioned by fixed schedules, nor do they need to commute 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 Certificate in Injection Site Sarcomas in Small Animals. Melanoma and Respiratory Tumors** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ The latest technology in online teaching software
- ◆ A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- ◆ Practical cases presented by practising experts
- ◆ State-of-the-art interactive video systems
- ◆ Teaching supported by telepractice
- ◆ Continuous updating and recycling systems
- ◆ Autonomous learning: full compatibility with other occupations
- ◆ Practical exercises for self-evaluation and learning verification
- ◆ Support groups and educational synergies: questions to the expert, debate and knowledge forums
- ◆ Communication with the teacher and individual reflection work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection
- ◆ Supplementary documentation databases are permanently available, even after the course



*A program that will enable you to work in all fields of veterinary dentistry with the competence of a high-level professional”*

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*Get a complete and adequate qualification in Injection Site Sarcomas in Small Animals. Melanoma and Respiratory Tumors with this highly effective educational Postgraduate Certificate and open new paths to your professional progress”*

Our teaching staff is made up of professionals from different fields related to this specialty. That way, TECH ensures to offer the updating objective it intends to provide. A multidisciplinary team of professionals trained and experienced in different environments, who will cover the theoretical knowledge in an efficient way, but, above all, will bring the practical knowledge from their own experience to the course: one of the differential qualities of this course.

This mastery of the subject is complemented by the effectiveness of the methodology used in the design of this Postgraduate Certificate in Injection Site Sarcomas in Small Animals. Melanoma and Respiratory Tumors. Developed by a multidisciplinary team of *e-learning* experts, it integrates the latest advances in educational technology. That way, students will study with a range of easy-to-use and versatile multimedia tools that will give them the necessary skills needed during training.

The design of this program is based on Problem-Based Learning: an approach that views learning as a highly practical process. To achieve this remotely, TECH will use telepractice: with the help of an innovative interactive video system and *Learning from an Expert*, the student will be able to acquire the knowledge as if they were facing the scenario they are learning at that moment. A concept that will allow students to integrate and memorize what they have learnt in a more realistic and permanent way.

*You will have the experience of expert professionals who will contribute their experience in this area to the program, making this training a unique opportunity for professional growth.*

*Set yourself a real qualification objective and learn in an efficient way with this program, as its quality and price are unique in online teaching market.*



# 02 Objectives

The objective is to train highly qualified professionals for work experience. An objective that is complemented, moreover, in a global manner, by promoting human development that lays the foundations for a better society. This objective is focused on helping medical professionals reach a much higher level of expertise and control. A goal that, in just a few months, you will be able to achieve with a highly intensive and precise course.





A close-up photograph of a horse's hoof and the surrounding hair. The hoof is light-colored with some darker spots, and the hair is long and light brown. The image is partially obscured by a teal and white geometric overlay.

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*If your objective is to broaden your skills set to include new paths of success and development: this is the course for you: a program that aspires to excellence"*



## General Objectives

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- ♦ Evaluate the diagnostic and therapeutic approach in injection site-associated sarcomas in cats
- ♦ Establish action, staging and therapeutic protocols for melanoma in dogs
- ♦ Analyze the principles of skin tumor oncologic surgery and reconstruction techniques
- ♦ Define clinical diagnostic and therapeutic protocols for tumors affecting the respiratory tract in dogs and cats
- ♦ Compile the different techniques that can be used in the surgical treatment of respiratory tumors in dogs and cats



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





## Specific Objectives

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- ◆ Generate expertise in the diagnosis, treatment, prognosis and prevention of feline injection site sarcomas
- ◆ Develop a systematic approach to the evaluation and treatment of canine melanoma
- ◆ Establish prognostic criteria in canine melanoma
- ◆ Define skin anatomy and healing as principles that enable the surgical approach to cutaneous and subcutaneous tumors
- ◆ Evaluate the different reconstructive techniques that can be used in extensive resections of cutaneous tumors
- ◆ Establish diagnostic and therapeutic protocols for tumors of the nasal plane, nasal cavity and sinuses, larynx, trachea and lung parenchyma
- ◆ Develop the different techniques that can be used in the surgical treatment of tumors of the nasal plane, nasal cavity and sinuses, larynx, trachea and lung parenchyma

03

# Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.





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*A unique opportunity to learn from internationally renowned professors, with teaching, clinical and research experience”*

## Management



### Dr. Ortiz Díez, Gustavo

- ♦ Head of Small Animal Department, Complutense Clinical Veterinary Hospital
- ♦ Associate Professor, Department of Animal Medicine and Surgery, Faculty of Veterinary Medicine, Complutense University of Madrid
- ♦ PhD and Undergraduate Degree in Veterinary Medicine from the UCM
- ♦ Graduate in Psychology, UNED (2020)
- ♦ AVEPA Accredited Soft Tissue Surgery
- ♦ Member of the scientific committee and current president of GECIRA (AVEPA's Soft Tissue Surgery Specialty Group)
- ♦ 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
- ♦ Courses of laparoscopic and thoracoscopic surgery at the Minimally Invasive Center Jesús Usón. Accredited in functions B, C, D and E of Experimentation Animals, Community of Madrid
- ♦ Degree in Emotional Intelligence, UR Completed training in Gestalt psychology
- ♦ ICT Competencies Course for Teachers, UNED



# 04

## Structure and Content

The contents of this Postgraduate Certificate have been developed by the different experts on the program, with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field.

A complete and well-structured program that will take you to the highest standards of quality and success.







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*A complete educational program that will take you through the exhaustive training necessary to intervene as a specialist in the theoretical and practical aspects of Injection in Small Animals. Melanoma and Respiratory Tumors”*

## Module 1. Injection Site Sarcomas. Melanoma. Respiratory Tumors

- 1.1. Feline Injection Site Sarcoma
  - 1.1.1. Prevalence and Etiology
  - 1.1.2. Diagnosis
  - 1.1.3. Treatment
- 1.2. Melanoma (I)
  - 1.2.1. Etiology
  - 1.2.2. Diagnosis
  - 1.2.3. Staging
- 1.3. Melanoma (II)
  - 1.3.1. Surgical Management
  - 1.3.2. Medical Treatment
  - 1.3.3. Special considerations
- 1.4. Skin Surgery (I)
  - 1.4.1. Anatomy, Vascularization and Tension
  - 1.4.2. Pathophysiology of Healing
  - 1.4.3. Injuries: Types and Management
- 1.1. Skin Surgery (II)
  - 1.5.1. Plasties and Subdermal Plexus Flaps
  - 1.5.2. Pedicle and Muscle Flaps
  - 1.5.3. Grafts
- 1.6. Respiratory Tumors (I): Nasal Plane
  - 1.6.1. Incidence and Risk Factors
  - 1.6.2. Diagnosis
  - 1.6.3. Treatment
- 1.7. Respiratory Tumors (II): Nasal Cavity





- 1.7.1. Incidence and Risk Factors
- 1.7.2. Diagnosis
- 1.7.3. Treatment
- 1.8. Respiratory Tumors (III): Larynx and Trachea
  - 1.8.1. Incidence and Risk Factors
  - 1.8.2. Diagnosis
  - 1.8.3. Treatment
- 1.9. Respiratory Tumors (IV): Pulmonary
  - 1.9.1. Incidence and Risk Factors
  - 1.9.2. Diagnosis
  - 1.9.3. Treatment
- 1.10. Respiratory Surgery
  - 1.10.1. Nasal Plane Surgery
  - 1.10.2. Nasal Cavity Surgery
  - 1.10.3. Laryngeal and Tracheal Surgery
  - 1.10.4. Pulmonary Lobectomy

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*A comprehensive teaching program, structured in well-developed teaching units, oriented towards learning that is compatible with your personal and professional life"*

05

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





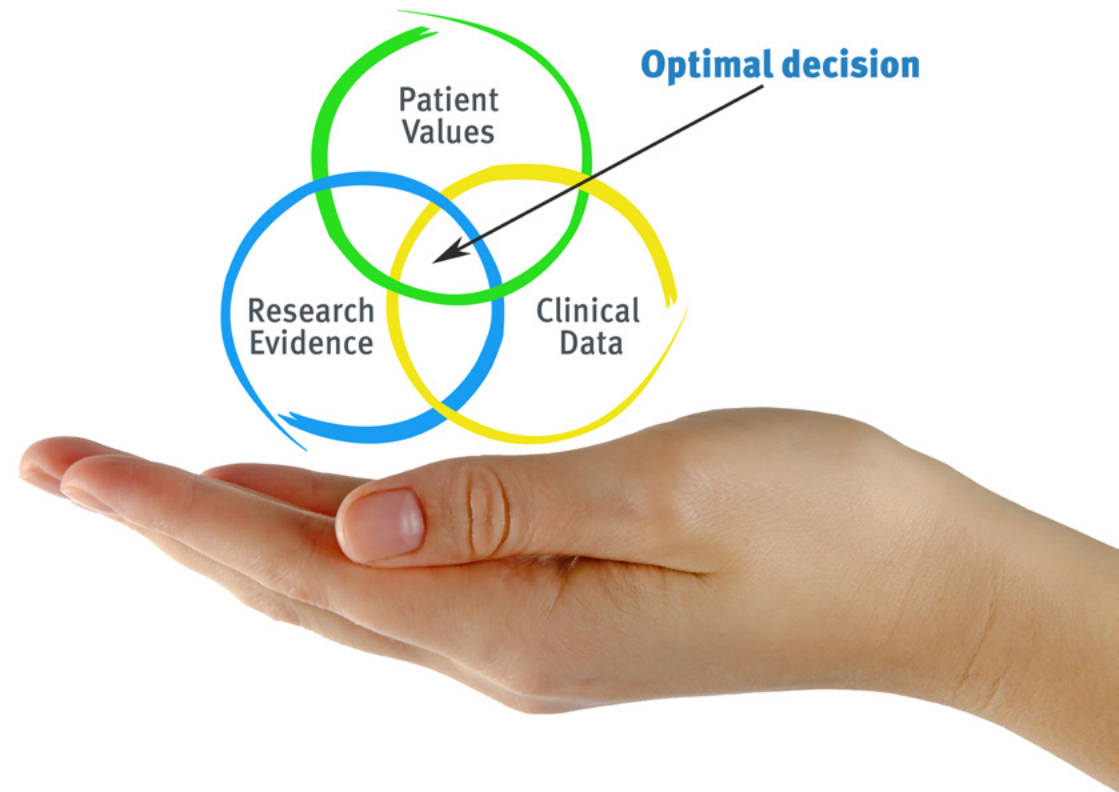
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program 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. Gervas, 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.

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

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

1. 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.*



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.



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.





#### 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 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.



# 06 Certificate

This Postgraduate Certificate in Injection Site Sarcomas in Small Animals, Melanoma and Respiratory Tumors guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Injection Site Sarcomas in Small Animals. Melanoma and Respiratory Tumors** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University**, is an official European University publicly recognized by the Government of Andorra (**official bulletin**). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

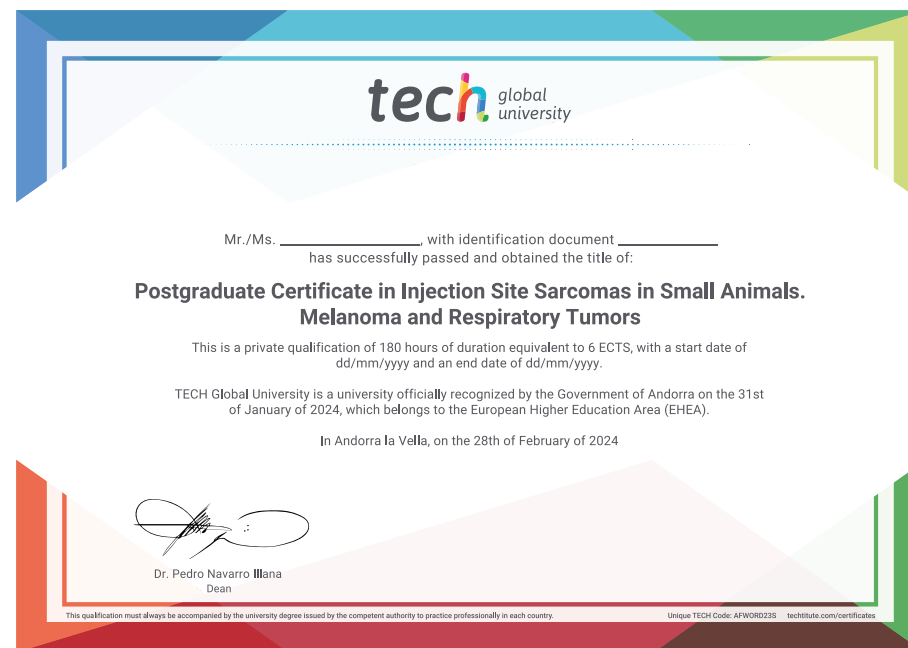
This **TECH Global University title**, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Injection Site Sarcomas in Small Animals. Melanoma and Respiratory Tumors**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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



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