



## Postgraduate Diploma Feline Oncology, Neurology and Dermatology

» Modality: online

» Duration: 6 monthst

» Certificate: TECH Global University

» Credits: 18 ECTS

» Schedule: at your own pace

» Exams: online

We bsite: www.techtitute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-feline-oncology-neurology-dermatology-derm

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> 06 Certificate





## tech 06 | Introduction

Generally, feline neurology presents a number of difficulties that can be frustrating for the specialist. Most signs are often nonspecific, creating a need to master both complex and basic diagnostic procedures. In the case of nephrology this occurs in a similar way, with symptoms that are difficult to detect and treatments that require multimodal management for a successful approach. It is logical to think, therefore, that it is useful to be up to date in both fields in order to have a better global vision of the most delicate pathologies and symptomatologies in the feline patient.

In addition, feline dermatology can sometimes serve as an indicator for the specialist for an early diagnosis of multiple pathologies. United in a single program, all these disciplines make up a preferred option for all veterinary specialists, since their updating will be a decisive and differential step towards a complete and careful professional praxis.

In addition, TECH is aware of the difficulties that a veterinarian may have in undertaking an academic program of these characteristics, which is why it is offered in a completely online format. This makes it possible to combine the academic facet of the Postgraduate Diploma with professional activity or more demanding personal responsibilities.

This **Postgraduate Diploma in, Feline Oncology, Neurology and Dermatology** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of case studies presented by experts in Feline Medicine and Surgery
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where the self assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions for experts and individual reflection work
- Content that is accessible from any fixed or portable device with an Internet connection



You will have the technical support of the largest online academic institution in the world, TECH, solving all your doubts and concerns throughout the program"

## Introduction | 07 tech



Incorporate into your daily practice the most recent developments in cutaneous anatomopathology, neurological surgical procedures and electrochemotherapy in felines"

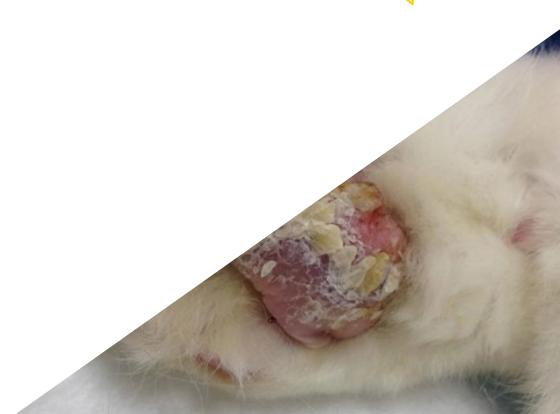
You will achieve a more updated mastery of oncological, neurological and feline dermatological approach techniques.

You will be able to choose where, when and how to study, as there are no fixed schedules or pre-set classes.

The program's teaching staff includes professionals from sector who contribute their work experience to this training 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 learn 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 purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.







## tech 10 | Objectives



## **General Objectives**

- Perform a complete and methodical neurological examination
- Locate a lesion in the nervous system
- Identify and classify different skin lesions
- Examine the different dermatological patterns
- Enumerate the most frequent neoplasms in the feline species
- Examine the particularities of the cat in the presentation of neoplasms



You will have real clinical examples in which to contextualize all the knowledge acquired, taking it immediately to your daily practice"





#### Module 1. Neurology in Feline Patients

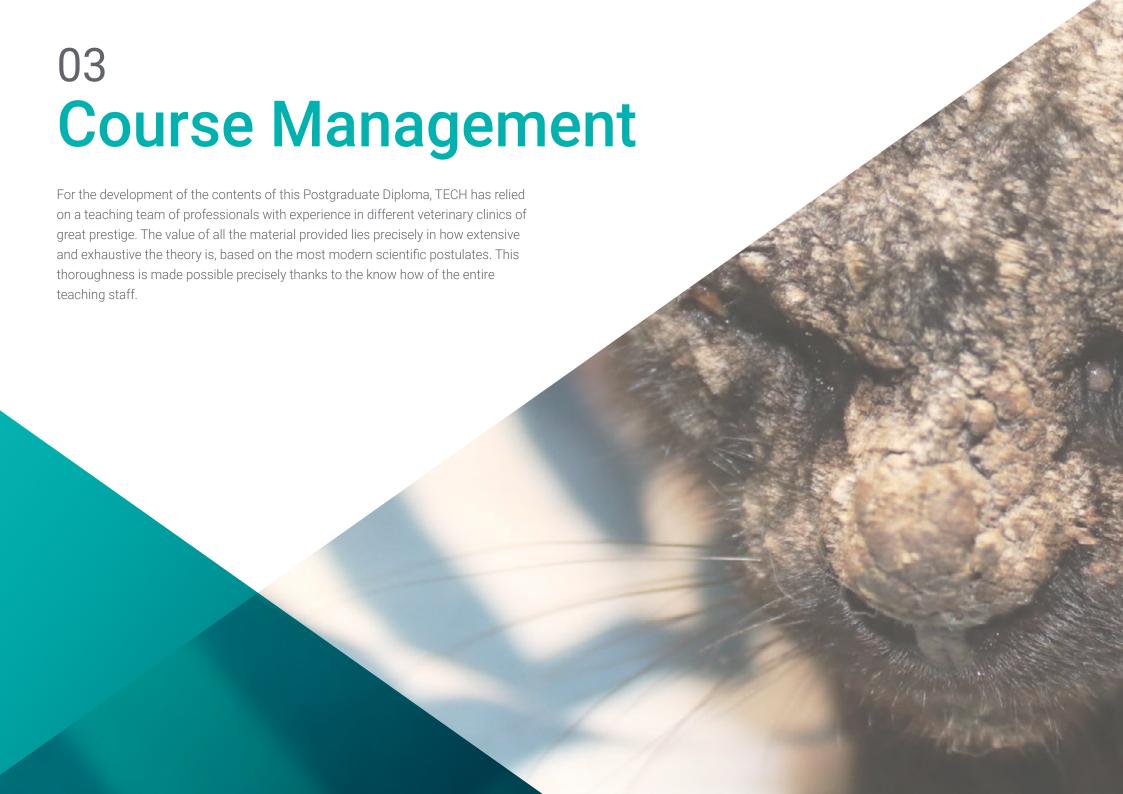
- Perform a complete neurological examination
- Locate a lesion in the nervous system
- Establish differential diagnoses based our examination
- Determine a diagnostic protocol based on our differentials
- Give a prognosis
- Develop the systemic pathologies that cause neurological lesions
- Differentiate between central and peripheral vestibular syndrome
- Examine the protocol of action in different neurological emergencies
- Know the possible causes of epileptiform seizures in cats

#### Module 2. Dermatology in the Feline Species

- Know the structure and functions of the skin.
- Identify the different cell groups and patterns in skin cytology
- Associate these patterns with the diseases that cause them
- Identify the different types of skin parasites affecting the cat
- Be able to convey to the owner the type of disease, treatment and severity of the skin disease affecting the cat
- Develop the diseases of special public health interest
- Establish the most effective treatment in accordance with the type of patient
- Have a thorough knowledge of feline atopy, in particular of the different diagnostic methods and treatments existing today and their efficacy
- Associate the different localizations of pruritus to the most probable diseases that can cause it
- Interpret an anatomopathological report
- Determine when to suspect psychogenic dermatitis or psychogenic pruritus and how to treat it
- Develop the causes of pruritus and establish a specific diagnostic plan for each case

#### Module 3. Oncology in the Feline Patient

- Rationally perform the clinical approach to the cat with a mass
- Perform and process cytology appropriately
- Choose the most appropriate type of biopsy
- · Carry out the staging of a tumor
- Be able to prepare and administer chemotherapy to a cat
- Properly manage the adverse effects of chemotherapy
- Be familiar with the most commonly used chemotherapy agents in the feline patient
- Be familiar with the use of electrochemotherapy in cats and in which neoplasms it is recommended
- Know the differences in diagnosis and treatment of the different types of digestive lymphoma
- Be familiar with other types of lymphoma presentations in the cat
- · Appropriate management of a cat with mammary tumors
- Optimally approach the treatment of injection site associated sarcomas
- Recognize other types of cancers in the cat and their peculiarities in the species
- Know the different types of surgical resection and the importance of excision margins
- Properly interpret the biopsy report in relation to surgical margins
- Master the techniques of pain control in the feline patient with neoplasia



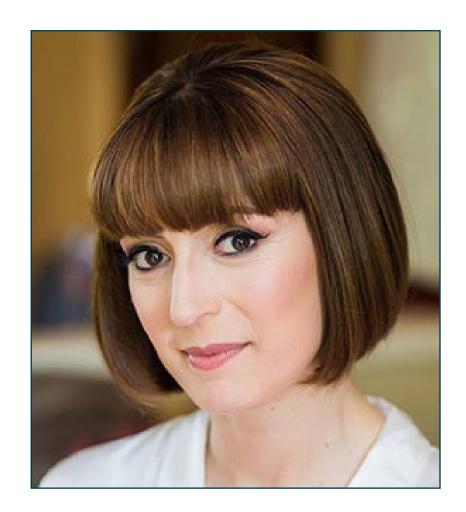


#### **International Guest Director**

Dr. Karen Perry has become one of the most prominent professionals in the world of veterinary medicine. Specialized in small animal orthopedics, her prestige lies in her constant work in this area, where she has passionately devoted herself to finding the most effective treatments to reduce the complication rates associated with common orthopedic procedures.

Her work has focused especially on Feline Orthopedics and Minimally Invasive Osteosynthesis, areas that have allowed her to occupy positions of high responsibility. In this way, she has successfully served as Head of the Small Animal Surgery Department and as an associate professor at Michigan State University. In this sense, throughout her long professional career, Perry has perfectly combined the clinical facet with teaching at higher academic institutions.

Thanks to her communication skills, she not only brings the content to the students in an attractive way, but also disseminates scientific advances in her field at national and international congresses in her specialty. She is also the author of numerous publications in veterinary literature and is positioned as a leading voice in her field, which has led her to participate in interviews where she encourages constant updating by professionals and the active participation of women in Veterinary Orthopedics. At the same time, she brings scientific and clinical progress closer to the general public through different digital communication channels.



## Dr. Perry, Karen

- Head of the Small Animal Surgery Department at the Michigan State University
- Veterinary Medical Center.
- Professor at Michigan State University
- Professor of Veterinary Medicine at Royal Veterinary College
- Veterinarian at The Royal (Dick) Veterinary Studies
- Member of: : European College of Veterinary Surgeons



## tech 16 | Course Management

#### Management



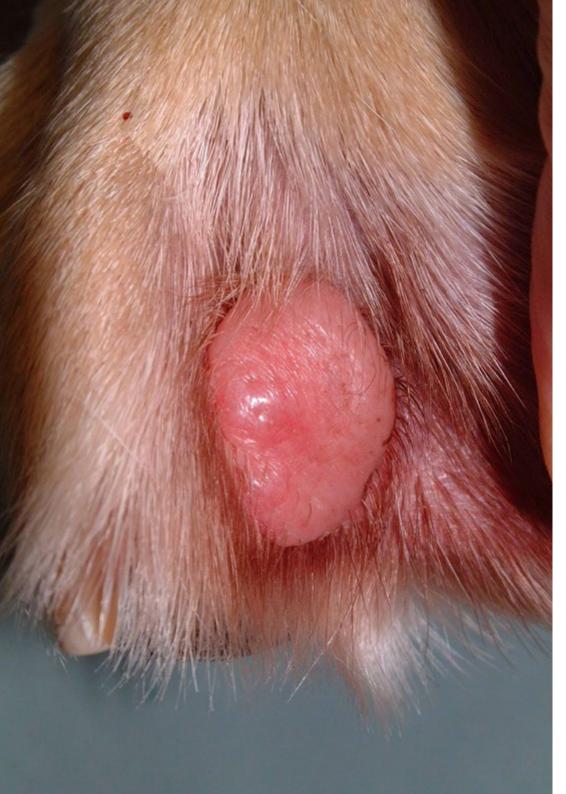
#### Dr. Mayo Robles, Pedro Pablo

- Co-owner and head of the Internal Medicine Service of the Veterinary Hospital Nacho Menes, in Gijór
- Veterinarian at the Reference Center San Vicente del Raspeig, in Alicante
- Clinical veterinarian at the Quirurgical Veterinary Center Alfonso Chico in La Coruña
- Responsible for the accreditation of Nacho Menes Veterinary Hospital as "Cat friendly clinic gold level by the ISFM"
- Bachelor and graduate in Veterinary Medicine, specializing in Animal Medicine and Health, from the Faculty of Veterinary Medicine of the University of León

#### **Professors**

#### Dr. Álvarez Martín, Ramón

- Co-responsible veterinarian of the Soft Tissue Surgery Service and head of the Dentistry Service at the Nacho Menes Veterinary Hospital in Gijón
- Veterinarian in the Emergency Department of the Veterinary Hospital Indautxu, in Bilbao
- Degree in Veterinary Medicine, University of León, 2014
- Postgraduate degree in Anesthesia and Soft Tissue Surgery from the Autonomous University of Barcelona



## Course Management | 17 tech

#### Dr. Campos Medina, Antonio

- Head of the Neurology-Neurosurgery service of the Veterinary Hospital Les Alfàbegues, in Valencia
- Head of the NeurologyNeurosurgery Service of the Veterinary Hospital Aitana, in Valencia
- Co-responsible for the Neurology Service of the Veterinary Hospital of the Veterinary Faculty UCH-CEU Valencia
- Associate Professor of Neurology Faculty of Veterinary Medicine UCH-CEU Valencia
- Degree in Veterinary Medicine from the University of Zaragoza 2000
- · Postgraduate ESAVS Neurology in Bern, Switzerland

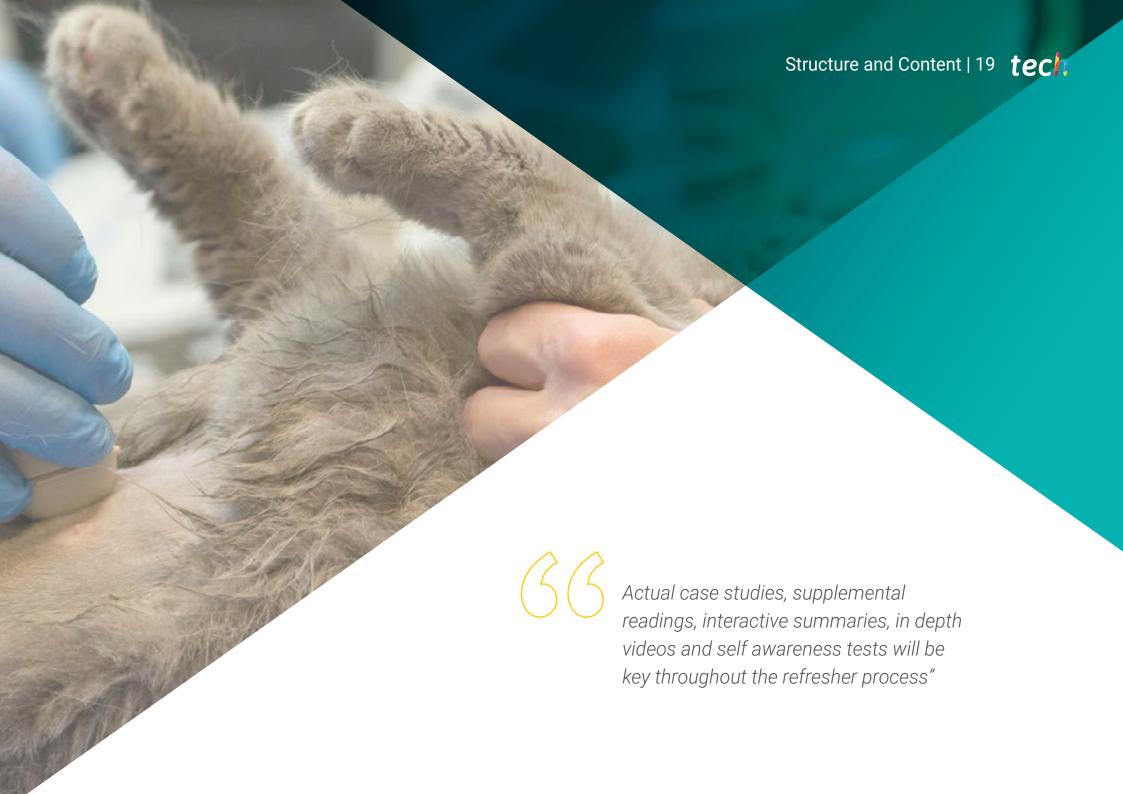
#### Dr. Miguel Del Corral, Héctor Hernando

- Founding member of Huellas Veterinary Clinic in Salamanca, first in the province Cat Friendly Silver level
- Clinical Veterinarian responsible for the areas of General Medicine, Dermatology and Surgery at the Dispensari Veterinari del Vallés, in Barcelona
- Clinical veterinarian at the Veterinary Clinic Hospital San Vicente, in Alicante, Spain
- Graduated in Veterinary Medicine in 2007 from the University of Extremadura

#### Dr. Galán López, Amaia

- Veterinarian in Internal Medicine and co-responsible for the Oncology and Electrochemotherapy Service at Ariznabarra Veterinary Clinic
- Graduated in Veterinary Medicine at the University of Extremadura
- ESVPS Diploma as General Practitioner Certificate in Oncology
- Course of Electrochemotherapy in Veterinary Medicine by VetOncologia, UBA





## tech 20 | Structure and Content

#### Module 1. Neurology in Feline Patients

- 1.1. Neuroanatomy
  - 1.1.1. Embryonic Development of the Nervous System
  - 1.1.2. Parts of the Nervous System
  - 1.1.3. NMS/NMI
- 1.2. Neurological Examination in the Cat
  - 1.2.1. Necessary Material for a Correct Neurological Examination
  - 1.2.2. Anamnesis and Clinical History
  - 1.2.3. Mental Status, Posture and Gait
  - 1.2.4. Cranial Nerves
  - 1.2.5. Postural Reactions
  - 1.2.6. Spinal Reflexes
  - 1.2.7. Nociception
- 1.3. Neurolocalization
  - 1.3.1. Clinical Signs Associated with Thalamo-cortical Lesions
  - 1.3.2. Clinical Signs Associated with lesions in the Brainstem
  - 1.3.3. Clinical Signs Associated with Cerebellar Lesions
  - 1.3.4. Clinical Signs Associated with Spinal Cord Injuries
  - 1.3.5. Clinical Signs Associated with PNS Lesions
- 1.4. Differential Diagnosis and Complementary Tests
  - 1.4.1. Vitamin D
    - 1.4.1.1. Laboratory Diagnosis
    - 1.4.1.2. Radiography
    - 1.4.1.3. Myelography
    - 1.4.1.4. TC/ Magnetic Resonance
    - 1.4.1.5. Electrophysiology
    - 1.4.1.6. CSF Extraction and Study



- 1.5. Epileptiform Seizures
  - 1.5.1. Diagnostic Protocol
  - 1.5.2. Idiopathic Epilepsy
  - 1.5.3. Treatment
- 1.6. Feline Vestibular Disease
  - 1.6.1. Vestibular System Anatomy
  - 1.6.2. Acute Vestibular Syndrome
  - 1.6.3. Central Vestibular Syndrome
  - 1.6.4. Bilateral Vestibular Syndrome
- 1.7. Spinal cord Diseases
  - 1.7.1. Inflammatory/ Infectious Myelopathy.
  - 1.7.2. Vascular Myelopathies
  - 1.7.3. Metabolic Myelopathies
  - 1.7.4. Neoplasms
- 1.8. Metabolic Myelopathies in Cats
  - 1.8.1. Infectious/Inflammatory Encephalopathies
  - 1.8.2. Metabolic Encephalopathy
  - 1.8.3. Neoplasms
- 1.9. Neurological Emergencies
  - 1.9.1. Cranioencephalic Trauma
  - 1.9.2. Spinal Cord Trauma
  - 1.9.3. Status Epilepticus
  - 1.9.4. Neurotoxicants
- 1.10. Surgical Procedures
  - 1.10.1. Anesthesia and Analgesia in Neurological Patients
  - 1.10.2. Neurosurgery
  - 1.10.3. Spinal Surgery
  - 1.10.4. Intracranial Surgery

#### Module 2. Dermatology in the Feline Species

- 2.1. Feline Dermatology
  - 2.1.1. Structure and Function of the Skin
  - 2.1.2. Dermatological Consultation
  - 2.1.3. Diagnostic Techniques
  - 2.1.4. Primary and Secondary Injuries
  - 2.1.5. Dermatological Patterns
- 2.2. Dermatologic Patterns and Differential Diagnosis
  - 2.2.1. Dermatologic Patterns and Differential Diagnosis
  - 2.2.2. Pruritus
  - 2.2.3. Focal-Multifocal Alopecia
  - 2.2.4. Symmetrical Alopecia
  - 2.2.5. Papules, Pustules and Scabs
  - 2.2.6. Erosive-Ulcerative Dermatoses
  - 2.2.7. Nodules and Fistulas
  - 2.2.8. Desquamative and Comedogenic Dermatoses
  - 2.2.9. Disorders of Coloration and Pigmentation
- 2.3. Parasitosis
  - 2.3.1. Arthropods
  - 2.3.2. Ticks
  - 2.3.3. Mites
    - 2.3.3.1. Trombicula
    - 2.3.3.2. Otodectes
    - 2.3.3.3. Cheyletiellosis
    - 2.3.3.4. Demodicosis
    - 2.3.3.5. Notoedres
  - 2.3.4. Insects
    - 2.3.4.1. Lice
      - 2.3.4.1.1. Fleas, DAPP
        - 2.3.4.1.1. Dermatitis Associated with Mosquito Bites
  - 2.3.5. Myiasis

## tech 22 | Structure and Content

2.4.	Cytology and Cutaneous Anatomopathology		
	2.4.1.	Procedures for Specimen Collection and Submission	
	2.4.2.	Normal skin Cytology Findings	
	2.4.3.	Abnormal findings in Inflammatory Cytologies	
	2.4.4.	Cytologic Patterns of Inflammation	
	2.4.5.	Infectious Agents	
	2.4.6.	Skin Histopathologic Patterns	
2.5.	Hypersensitivity Disorders		
	2.5.1.	Hypersensitivity Disorders	
	2.5.2.	Feline Atopic Dermatitis	
	2.5.3.	Adverse Reactions to Food/Food Allergy	
2.6.	Dermatophytosis, Malassezia Dermatitis and Other Mycoses		
	2.6.1.	Clinical Signs	
	2.6.2.	Diagnosis	
	2.6.3.	Treatment	
	2.6.4.	Environmental Control	
	2.6.5.	Public Health Aspects	
	2.6.6.	Malassezia Dermatitis	
		2.6.6.1. Clinical Signs	
		2.6.6.2. Treatment	
	2.6.7.	Other Mycosis	
2.7.	Bacterial Infections		
	2.7.1.	Superficial Bacterial Folliculitis or Pyoderma	
	2.7.2.	Deep Pyoderma	
	2.7.3.	Abscesses	
	2.7.4.	Feline Leprosy	
2.8.	Autoimmune Diseases, Nose and Nails		
	2.8.1.	Autoimmune Diseases	
	2.8.2.	Nose Diseases	
	2.8.3.	Nail Diseases	

2.9.	2.9.1. 2.9.2.	osinophilic Complex Clinical Signs Diagnosis Treatment
2.10.	Hormor 2.10.1. 2.10.2. 2.10.3.	nal, Dermatological, Cutaneous Psychogenic Diseases, Feline Acne Feline Acne Hormonal Diseases Dermatological Diseases with Oral Involvement Cutaneous Psychogenic Diseases
Mod	<b>ule 3.</b> C	Incology in the Feline Patient
3.1.	3.1.1. 3.1.2. 3.1.3. 3.1.4. 3.1.5.	Cytology: Methods of Collection, Preparation, Staining and Dispato Choosing the Type of Biopsy Peculiarities of Biopsy Collection According to Specific Locations Staging
3.2.	<ul><li>3.2.1.</li><li>3.2.2.</li><li>3.2.3.</li></ul>	arities of Chemotherapy in Cats Usage Scenarios Preparation Administration Adverse Effects of the Chemotherapy and its Management
3.3.	3.3.1. 3.3.2. 3.3.3. 3.3.4. 3.3.5. 3.3.6.	Alkylating Agents Anthracyclines Antimetabolites Antitubulin Agents Platinum-Derived Drugs Tyrosine Kinase Inhibitors

3.3.8. Electrochemotherapy

- 3.4. Digestive Lymphoma
  - 3.4.1. Types
  - 3.4.2. Clinical Signs
  - 3.4.3. Diagnosis and Staging
  - 3.4.4. Treatment and Prognosis
- 3.5. Other Types of Lymphoma
  - 3.5.1. Peripheral Lymph Node Lymphoma
  - 3.5.2. Mediastinal Lymphoma
  - 3.5.3. Nasal Lymphoma
  - 3.5.4. Renal Lymphoma
  - 3.5.5. Central Nervous System Lymphoma
  - 3.5.6. Uterine and Subcutaneous Lymphoma
  - 3.5.7. Pharyngeal, Laryngeal and Tracheal Lymphoma
  - 3.5.8. Ocular Lymphoma
- 3.6. Breast Tumors
  - 3.6.1. Clinical Presentation
  - 3.6.2. Diagnosis
  - 3.6.3. Treatment
  - 3.6.4. Prognosis
- 3.7. Injection Site-Associated Sarcoma
  - 3.7.1. Pathogenesis.
  - 3.7.2. Epidemiology
  - 3.7.3. Clinical Management
  - 3.7.4. Treatment
  - 3.7.5. Prevention
- 3.8. Other Frequent Types of Tumors in the Feline Species
  - 3.8.1. Squamous Cell Carcinoma
  - 3.8.2. Respiratory Carcinoma (Nasal and Pulmonary)
  - 3.8.3. Mastocytoma
  - 3.8.4. Squamous Cell Oral Carcinoma
  - 3.8.5. Osteosarcoma

- 3.9. Oncologic Surgery: Excision Margins
  - 3.9.1. Tumor Margins
  - 3.9.2. Types of Resection
  - 3.9.3. Assessment of Margins
  - 3.9.4. Communication with the Pathologist
  - 3.9.5. Interpretation of Margins in the Biopsy Report
- 3.10. Pain Management in the Cat with Cancer
  - 3.10.1. Pain Management in the Cat with Cancer
  - 3.10.2. Evaluation
  - 3.10.3. Treatment





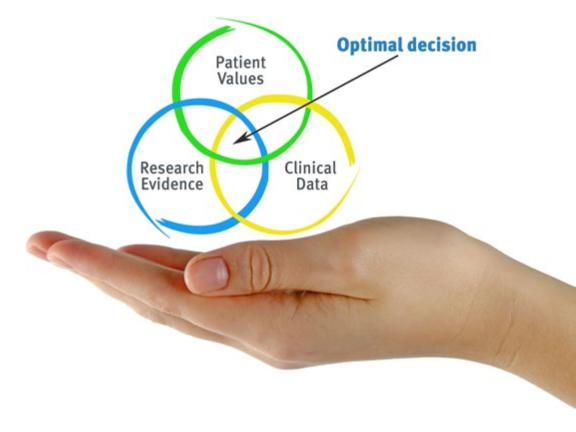


## tech 26 | Methodology

#### 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 | 29 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.

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**

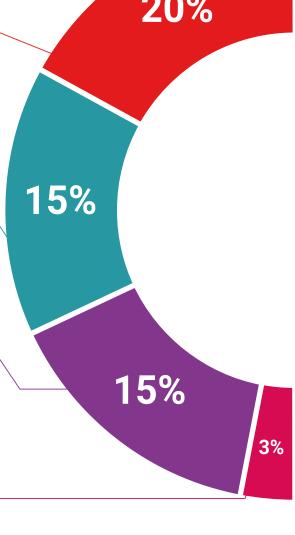
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch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



#### **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.

and direct way to achieve the highest degree of understanding.



#### Classes

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

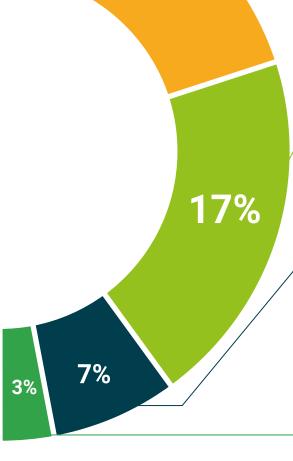
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### **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.





20%





## tech 34 | Certificate

This program will allow you to obtain your **Postgraduate Diploma in Feline Oncology, Neurology** and **Dermatology** 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 Diploma in Feline Oncology, Neurology and Dermatology

Modality: online

Duration: 6 months

Accreditation: 18 ECTS



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

#### Postgraduate Diploma in Feline Oncology, Neurology and Dermatology

This is a program of 450 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



<sup>\*</sup>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.

health

guarantee

tech

global

university

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