





# **Hybrid Professional Master's Degree**Feline Medicine and Surgery

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Technological University

Teaching hours: 1,620 h.

Website: www.techtitute.com/in/veterinary-medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-feline-medicine-surgery

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## tech 06 | Introduction

The current state of Feline Medicine and Surgery has been evolving in the last years, favored by the technological advances that have allowed the appearance of new techniques and tools that allow to perform successful interventions that are minimally invasive for the animals. Unfortunately, during their career years, most professionals are not able to specialize in this field, as these are very specific studies that do not have a place during the undergraduate or graduate years, but require extra training through postgraduate studies. For this reason, TECH is committed to helping these professionals with a program of excellence such as this Hybrid Professional Master's Degree in Feline Medicine and Surgery.

The program consists of two well-defined parts. The first part contains the most relevant information on this field, prepared by a team of experts in the field. In particular, it provides in-depth information on the use of minimally invasive techniques, interventional cardiology, new monitoring and therapeutic alternatives for various pathologies of the feline species. Likewise, it shows a specialized approach to the most relevant and fundamental topics at cardiorespiratory level, infectious pathologies and oncology, considering that the student already has basic knowledge in feline medicine.

Also, in a second stage, an internship period is included in a veterinary center of reference, where our students will be able to workhand in hand with professionals of the sector, attending to real patients and seeing first hand what it is like to work in a facility of this type. In short, it is a program with which the student will be able to acquire the tools to carry out a more effective praxis in the daily consultation of their feline patients, both in the most common cases and in the most complicated cases, by focusing in depth on each area and on the new diagnostic and therapeutic trends.

This **Hybrid Proffesional Master's Degree in Feline Medicine and Surgery** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Development of more than 100 clinical cases presented by veterinary surgery professionals and university professors with extensive experience in minimally invasive techniques
- 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
- Assessment and monitoring of the veterinary patient, the latest international recommendations in minimally invasive surgery
- Comprehensive surgical approach plans for small animal patients
- Presentation of practical workshops on diagnostic and therapeutic techniques in the veterinary patient
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Clinical practice guidelines on the surgical approach to different pathologies
- With a special emphasis on evidence-based medicine and the most effective methodologies in small animal veterinary surgery
- All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is available from any fixed or portable device with an Internet connection
- In addition, you will be able to carry out a clinical internship in one of the best veterinary centers



Enjoy a professional internship period in a leading veterinary center and achieve the specialization you need to successfully care for your feline patients"



Cat veterinary practices are one of the most demanded, so specialization in this field is very useful for professionals in the sector"

In this proposal for a Hybrid Professional Master's Degree, of a professionalizing nature and blended learning modality, the program is aimed at updating veterinary professionals who perform their functions in the veterinary field who perform their functions in surgical units, and that require a high level of qualification. The contents are based on the latest on the latest scientific evidence, and oriented in a didactic way to integrate theoretical knowledge in veterinary practice, and the theoretical-practical elements will facilitate the updating of knowledge and will allow decision making in the management of small animals.

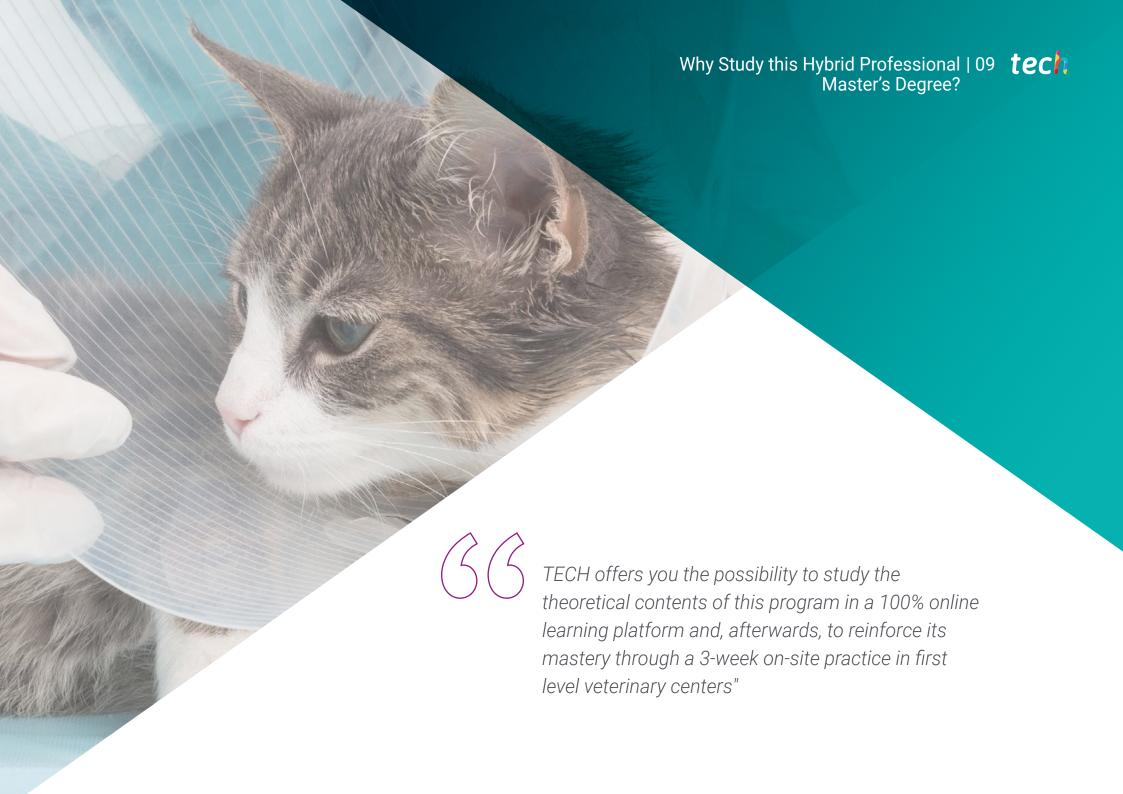
Thanks to its multimedia content developed with the latest educational technology, it will allow the veterinary professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to train in real situations. The design of this program is focused on Problem-Based Learning, by means of which they will have to try to solve the different situations of professional practice that will arise throughout the program. To do so, you will have the help of an innovative interactive video system created by recognized veterinary experts.

You will learn to develop a protocol to identify and locate the main alterations that affect the nervous system in the feline species.

Specialize with the most innovative teaching methodology of the moment and get the training you need for your field of action.







## tech 10 | Why Study this Hybrid Professional Master's Degree?

#### 1. Update from the latest technology available

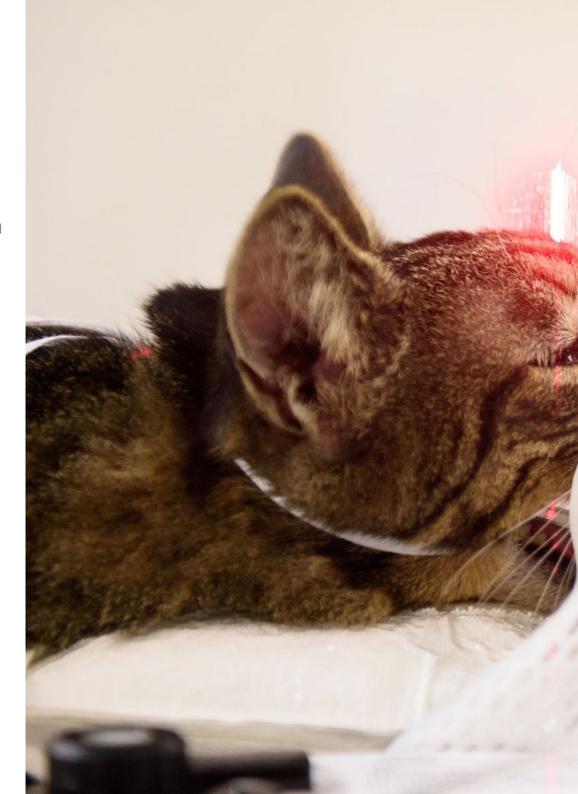
Today's cat surgery and medicine makes use of numerous technological resources and innovative instruments for its execution. TECH aspires that its students can develop advanced skills from a practical and theoretical point of view through an innovative study method that integrates online learning and face-to-face practice.

#### 2. Gain in-depth knowledge from the experience of top specialists

In this study program, TECH wants to ensure that all its students have first level practical skills for feline surgery. From the design of this modality, TECH has integrated the collaboration of several professors and specialists that will contribute to the student's acquisition of the best training.

#### 3. Enter into first-class veterinary environments

TECH maintains close ties with prestigious veterinary clinics all over the world. For this degree, TECH has arranged for several of them to host its students, allowing them to exchange doubts and experiences with the best professionals in the sector. Also from there, they will manipulate the latest tools for Feline Medicine and Surgery.





## Why Study this Hybrid Professional | 11 **tech** Master's Degree?

#### 4. Combine the best theory with state-of-the-art practice

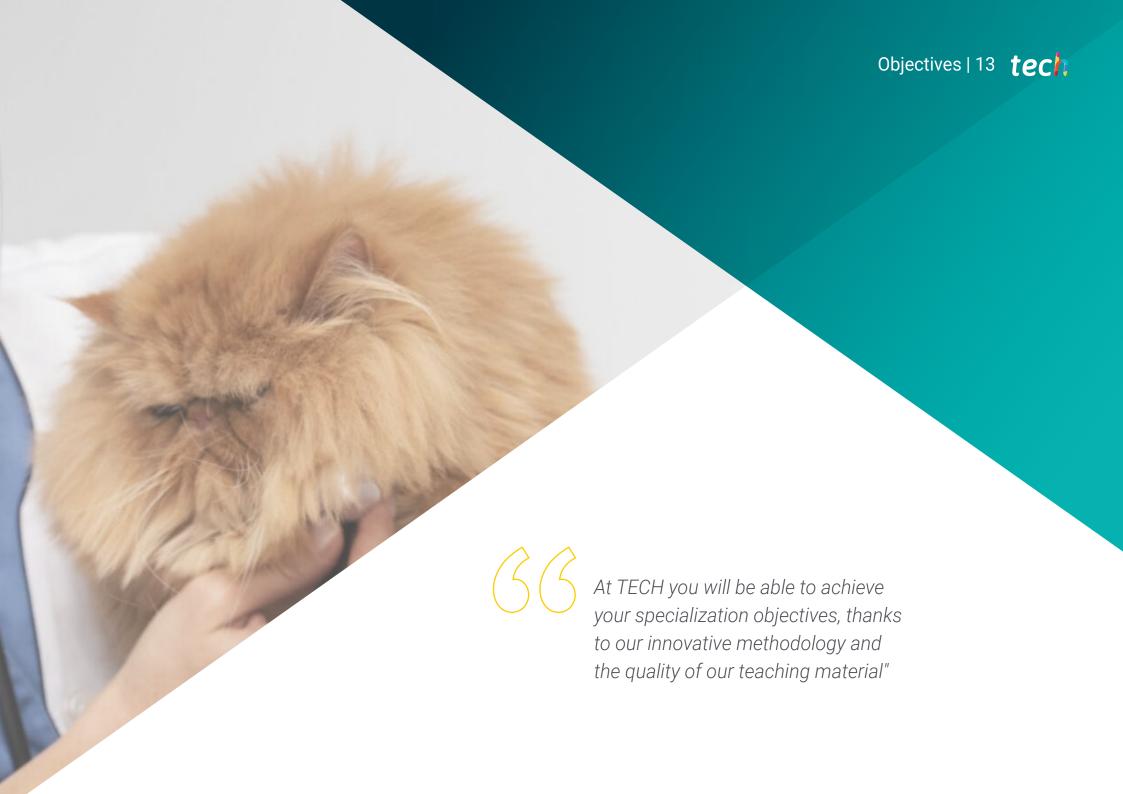
The academic market does not offer enough pedagogical solutions for those specialists who wish to update their knowledge in the practice of feline surgery. This 3-week on-site training course breaks with this scheme and, at the same time, allows the student to combine theoretical study through TECH's 100% online learning platform.

#### 5. Expand the boundaries of knowledge

With this Hybrid Professional Master's Degree, TECH takes its students beyond their usual academic comfort zone and confronts them with international contexts of professional development. This is possible thanks to TECH, the largest online educational institution in the world, which has a network of agreements and partners that will shorten the geographical latitudes for the learning of any student.







## tech 14 | Objectives

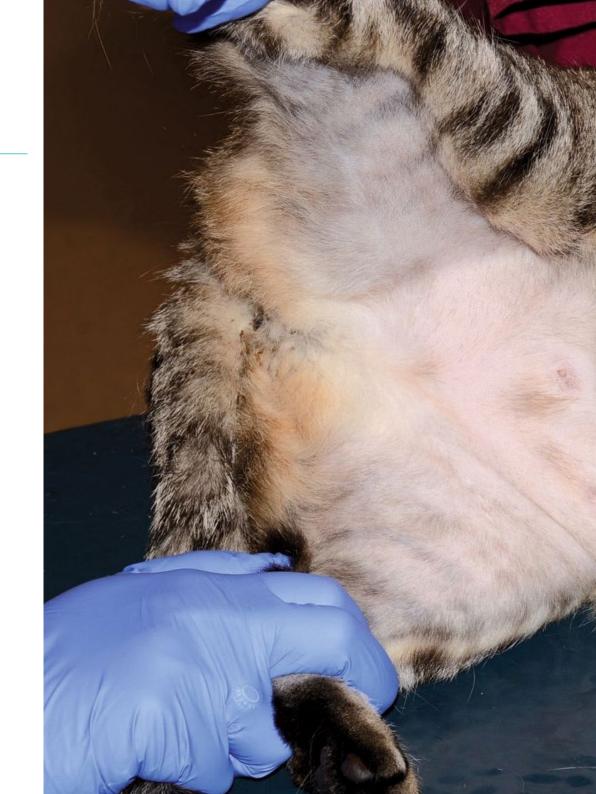


## **General Objective**

• Through this study program, TECH pursues the objective of instructing its students in different anesthetic techniques specific to the feline patient. At the same time, they will specialize in recognizing a cat's pain symptoms and how to manage them. They will also emphasize the main controversies on feline nutrition and recognize the particularities of drug metabolism in this class of pets



This program, the only one of its kind in the educational landscape, will empower you to achieve career success"





### **Specific Objectives**

#### Module 1. Feline Medicine and Surgery

- Determine the most appropriate environmental characteristics to reduce stress and improve the management of cats in the clinic
- Plan the different environmental enrichment protocols and establish when and how to apply them
- Recognize the main behavioral alterations that can occur in felines and choose the appropriate therapy in each situation
- Know the main anesthetic and analgesic protocols in cats
- Establish the diagnostic tools that exist in the detection of pain in the feline patient and to delve into the most appropriate therapy
- Know how to design a diagnostic protocol in the case of non-regenerative anemia
- Give answers to the main controversies in feline nutrition
- Adjust drug doses in the presence of certain pathologies and according to age
- Ethical management of an urban cat colony



## tech 16 | Objectives

#### Module 2. Digestive and Odontological Pathologies in the Feline Species

- Effectively manage feline patients with weight loss
- Determine which blood tests are useful to rule out or confirm a digestive problem
- Resort to the ideal diagnostic technique for each digestive pathology, knowing the indications of each one and also its limitations
- Establish in which cases it is more advisable to consider a digestive endoscopy or an exploratory laparotomy
- Master the most effective treatments for inflammatory bowel disease based on scientific evidence
- Determine in which cases we should consider the use of stem cells or fecal transplantation for the treatment of inflammatory bowel disease
- Establish a correct monitoring of the feline patient with hepatic lipidosis
- Develop a nutritional plan for the feline patient with hyporexia or anorexia
- Properly manage all nutritional strategies in the treatment of digestive pathologies
- Master dental radiology for the diagnosis of oral pathologies
- Distinguish between periodontal disease, chronic gingivostomatitis or other oral diseases
- Plan a correct treatment for each oral disease based on scientific evidence and expert results
- Determine when a feline patient has refractory gingivostomatitis and how to treat it

#### Module 3. Hospitalization and Intensive Care in Felines

- Adequately stabilize the patient in shock
- Outline an adequate fluid therapy plan for each case
- Know the blood products, when and how to use them
- Recognize pathologic findings on blood tests, AFAST and TFAST
- Determine and manage signs of pain in the hospitalized feline patient
- Master the development of a nutritional plan for the hospitalized feline patient
- Recognize and prevent signs of refeeding syndrome
- Become familiar with the procedures to be performed in the hospitalization area
- Protocolize the resuscitation of the patient in cardiorespiratory arrest

#### Module 4. Neurology in Feline Patients

- Perform a complete neurological examination
- Locate a lesion in the nervous system
- Establish differential diagnoses based on our exam
- 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 5. Feline Cardiorespiratory System

- Perform a complete physical examination
- Elaborate a list of differential diagnoses
- Know the update of the main feline cardiomyopathies according to the ACVIM consensus
- Assess the main arrhythmias
- Apply medical therapies on an outpatient basis
- Manage patients in hospitalization
- Know the most common surgical techniques in the cardiorespiratory system

#### Module 6. Endocrinopathies in the Feline Species

- Delve into the treatment options and monitoring systems for diabetes mellitus
- Analyze all the factors that can influence a difficult management of the diabetic patient
- Develop a good protocol for the management of diabetic ketoacidosis and hyperosmolar syndrome
- Propose different therapeutic options in the hyperthyroid patient, as well as to assess the effect of this disease on the organism
- Assess calcium disorders in the feline patient and establish a diagnostic and therapeutic plan
- Identify the alterations of the adrenal glands and the pathophysiological alterations that they entail in the feline patient
- Present in the foreground feline *Cushing's* Syndrome and acromegaly, often underdiagnosed or masked by other pathologies

#### Module 7. Nephrology and Urology in the Feline Species

- Know all the diagnostic techniques for the urinary system
- Know how to interpret the results of blood biochemistry and urinalysis
- Establish a diagnostic approach for the patient with acute renal failure
- Staging of acute renal failure according to IRIS guidelines
- Develop an action protocol for acute renal injury
- Clarify the diagnostic approach to the patient with chronic renal damage
- Propose the appropriate management of the specific pathologies responsible for CKD, as well as its non-specific management
- Understand the importance of proteinuria and hypertension in the management of CKD
- Stage CKD according to the IRIS guidelines
- Manage the patient presenting with idiopathic cystitis, both obstructive and non-obstructive
- Know the recommendations for the management of the different types of uroliths
- Recognize the patient with ureteral obstruction
- Establish the different techniques that exist to treat ureteral obstructions with their advantages, disadvantages and indications

## tech 18 | Objectives

#### Module 8. 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 9. Infectious Diseases in Feline Patients

- Develop the diagnostic techniques used in feline infectious pathology
- Understand the concepts of sensitivity, specificity, prevalence and predictive value
- Diagnose and appropriately treat a kitten with panleukopenia
- Recognize the major clinical stages of feline leukemia and how to treat it
- Understand feline immunodeficiency-associated diseases
- Use the most reliable diagnostic tests in the diagnosis of any symptomatic picture of feline infectious peritonitis
- Clarify the current knowledge about new therapeutics for patients with feline infectious peritonitis
- Analyze the main pathogens responsible for upper respiratory tract disease
- Elaborate an adequate diagnostic protocol for upper respiratory tract disease in acute and chronic cases
- Responsible use of antibiotics in bacterial infections of the upper respiratory tract
- Establish an appropriate diagnostic protocol for kittens with infectious diarrhea, as well as methods of specimen collection
- Determine how SARS-Cov2 virus affects felines based on current scientific evidence
- Know the pulmonary parasites that can affect the cat, diagnose them and treat them appropriately

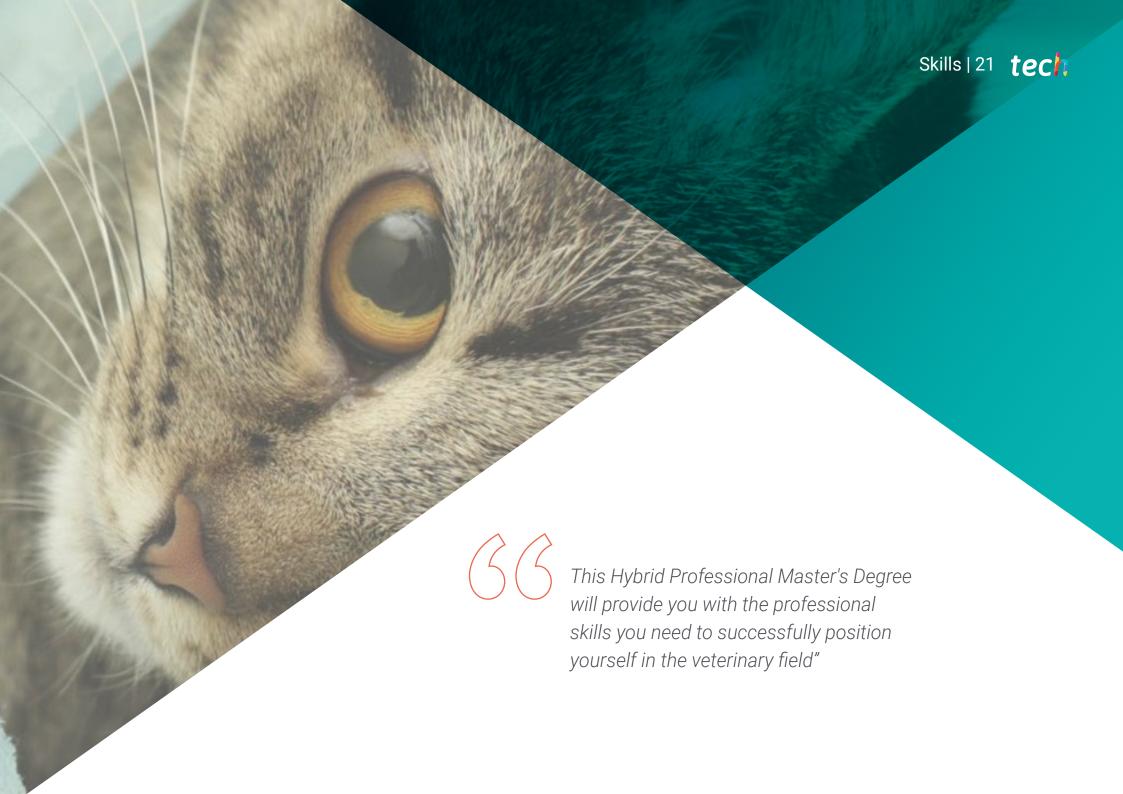


#### Module 10. Oncology in the Feline Patient

- 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 Demergers margins
- Properly interpret the biopsy report in relation to surgical margins
- Master the techniques of pain control in the feline patient with neoplasia



After completing this Hybrid Professional Master's Degree in Feline Medicine and Surgery, the veterinary professional will achieve heightened skills in the sector, which will boost them in the labor market. Its intensive program will enable you to work in the field related to the care and cure of these pets, with the assurance of becoming an expert in the field. In this way, the student will acquire the skills required for a quality and updated praxis based on the latest scientific evidence.



## tech 22 | Skills



#### **General Skills**

- Specialize the veterinary professional in each of the specialties necessary to develop the work as veterinary specialists, with new and updated knowledge in feline medicine and surgery
- Assess anatomical changes in felines to diagnose possible ailments
- Perform clinical diagnosis, laboratory tests and applied treatments



Acquire the skills necessary to reach the professional elite in the field of Feline Medicine and Surgery"



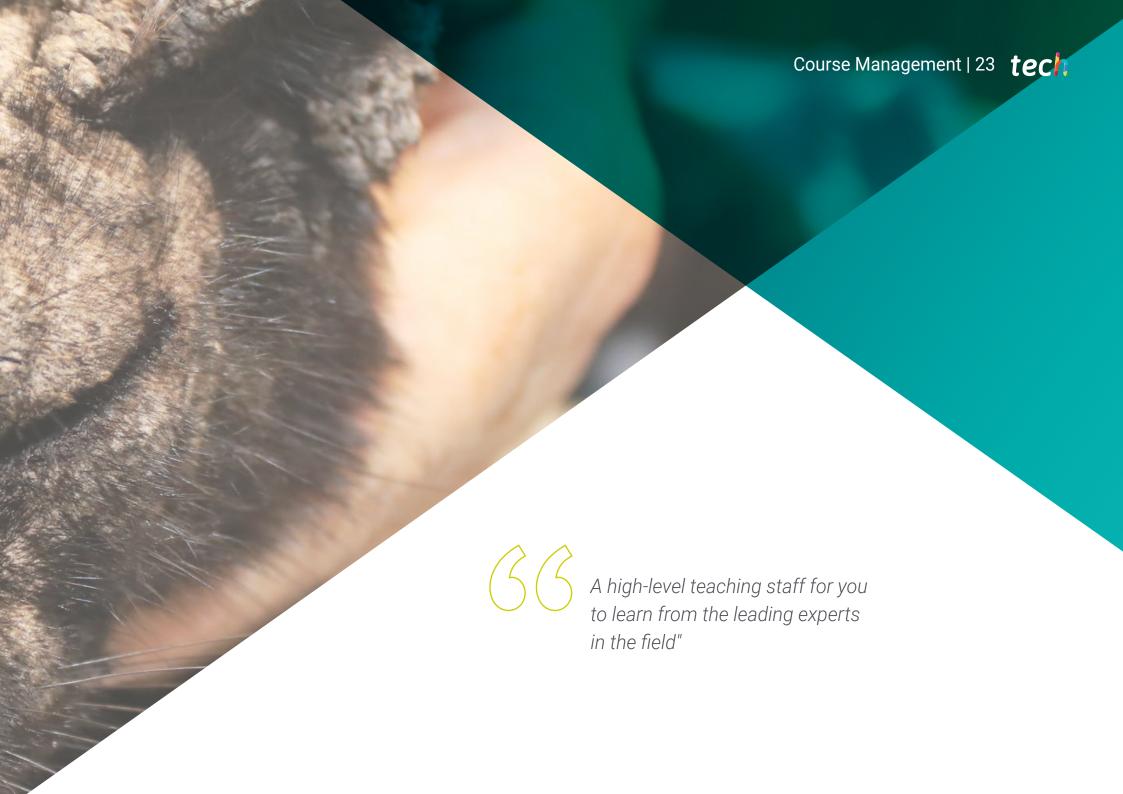




## **Specific Skills**

- Achieve advanced theoretical and practical knowledge applicable to daily clinical practice.
- Distinguish the particularities of felines from the treatment of other animals.
- Determine interspecies variations, feline anatomy and physiology.
- Treat and handle sick felines.
- Approach feline patients with infectious diseases in the most effective and up to date way
- Generate advanced expertise regarding hyperthyroidism, diabetes, hyperaldosteronism and hypercalcemia in cats
- Develop a protocol to identify and localize the main alterations affecting the nervous system in the feline species.





#### Management



#### Dr. Mayo Robles, Pedro Pablo

- Co-owner and Head of the Internal Medicine Service at Nacho Menes Veterinary Hospital
- Veterinarian at the San Vicente del Raspeig Reference Center
- Clinical Specialist at the Centro Quirúrgico Veterinario Alfonso Chico La Coruña, Spain
- Responsible for the Accreditation as a Cat Friendly Clinic gold level by the ISFM
- Specialist in Animal Medicine and Health by the Faculty of Veterinary Medicine of the University of León
- Specialist in Internal Medicine by the Association of Spanish Veterinarians Specialists in Small Animals (AVEPA)
- Veterinarian authorized to perform radiographies of elbows and hips for CEPPA
- Bachelor and Graduate in Veterinary Medicine with specialization in Animal Medicine and Health by the Faculty of Veterinary Medicine of the University of León

#### **Professors**

#### Dr. Álvarez Martín, Ramón

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

#### Dr. López Pérez-Pellón, Margarita

- Veterinarian in the Veterinary Hospital Nacho Menes
- Veterinary at Los Madrazo Rehabilitation and Physiotherapy Center, at La Vaguada and at Los Madrazo Veterinary Hospital
- · Veterinarian in the Veterinary Hospital Sierra de Madrid
- Postgraduate in Feline Medicine at IFEVET Institute in Veterinary Specialties
- Accredited by AVEPA in Veterinary Physical Rehabilitation
- Secretary of the Veterinary Physical Rehabilitation Group of AVEPA
- Degree in Veterinary Medicine from the University of Leon
- Member of: Comité de Expertos del Dolor Crónico Felino de Zoetis

#### Dr. Campos Medina, Antonio

- Head of the Neurology and Neurosurgery Service at AniCura Aitana Veterinary Hospital
- Head of the Neurology and Neurosurgery Service at Les Alfàbegues Veterinary Hospital
- Corresponsible for the Neurology Service at the Veterinary Hospital of the UCH-CEU Veterinary Faculty
- Associate Professor of Neurology at the Faculty of Veterinary Medicine of the UCH-CEU
- Degree in Veterinary from the University of Zaragoza
- Postgraduate in Neurology at the European School for Advanced Veterinary Studies

#### Dr. Álvarez Mansur, Patricia

- Co-founder Alaró Veterinary Clinic
- Founder and co-owner of the areas of Internal Medicine, Feline Medicine and Diagnostic Imaging of Alaró Veterinaris
- Responsible for the Diagnostic Ultrasound Service in Small Animals
- Clinical Veterinarian in Vterclínic SL
- Veterinary Clinic Canis Mallorca
- Stay at Clínica Privata San Marco de Pádua in Italy
- Stay at the Oncology Department of the Royal Veterinary College of London
- Diploma in Clinical Cardiology in Small Animals at the Complutense University of Madrid
- Cat Friendly Clinic Distinction ISFM Silver Level Accreditation

#### Dr. Fernández Ordóñez, Raquel

- Specialist in Internal Medicine and Hospitalization in the Veterinary Hospital Nacho Menes
- Veterinarian Responsible for Emergencies, Internal Medicine and Hospitalization at AniCura Hospital Veterinary Marina Baixa
- Veterinarian in General and Preventive Medicine at Clínica Veterinaria Covadonga
- Veterinarian in Emergency Services 24h and General Medicine. Milan
- Degree in Veterinary Medicine from the University of Leon
- Specialization stay in Emergency and Intensive Care at the Istituto Veterinario di Novara. Italy
- Postgraduate in Small Animal Surgery
- Postgraduate in Internal Medicine

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

- Specialist in Feline Clinical Care
- Founding Member of Huellas Veterinary Clinic in Salamanca
- Responsible Clinical Veterinarian in the areas of General Medicine, Dermatology and Surgery at the Dispensari Veterinari del Vallés
- · Clinical Veterinarian in the Hospital Clínico Veterinario San Vicente
- Degree in Veterinary Medicine from the University of Extremadura

## tech 26 | Course Management

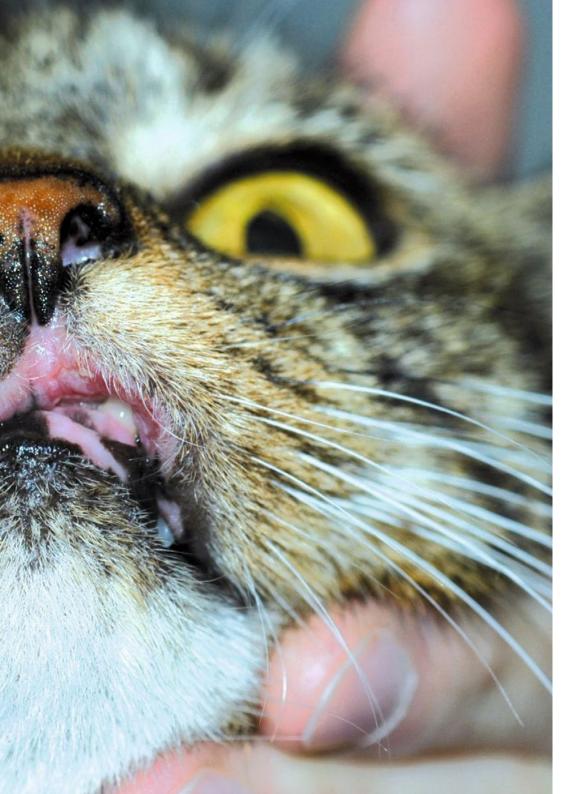
#### Dr. Cabañas Manteca, Inés

- Head of the Hospitalization and Intensive Care Service at Nacho Menes Veterinary Hospital
- Veterinarian at Locum Veterinary, Alfreton Park Veterinary Hospital, The Vet Nottingham and Clarendon Street Veterinary Surgery United Kingdom
- Degree in Veterinary Medicine from the University of Santiago de Compostela
- Practical stays at AniCura Buenavista Veterinary Hospital and AniCura Asturpet Veterinary Hospital
- Certificate in Internal Medicine of Small Animals by the BSAVA
- Member of: Royal College of Veterinary Surgeons, British Small Animal de Pequeños Animales (BSAVA

#### Dr. García de la Concha López, María de los Reyes

- Specialist in Feline Clinical Care
- Responsible for the Department of Feline Ethology in Cats at the Feline Clinical Center
- Graduated in Veterinary Medicine at the University of Extremadura
- Member of: Asociación de Veterinarios Españoles Especialistas en Pequeños Animales (AVEPA), Grupo de Especialidad de Medicina Felina de AVEPA and GEMFE





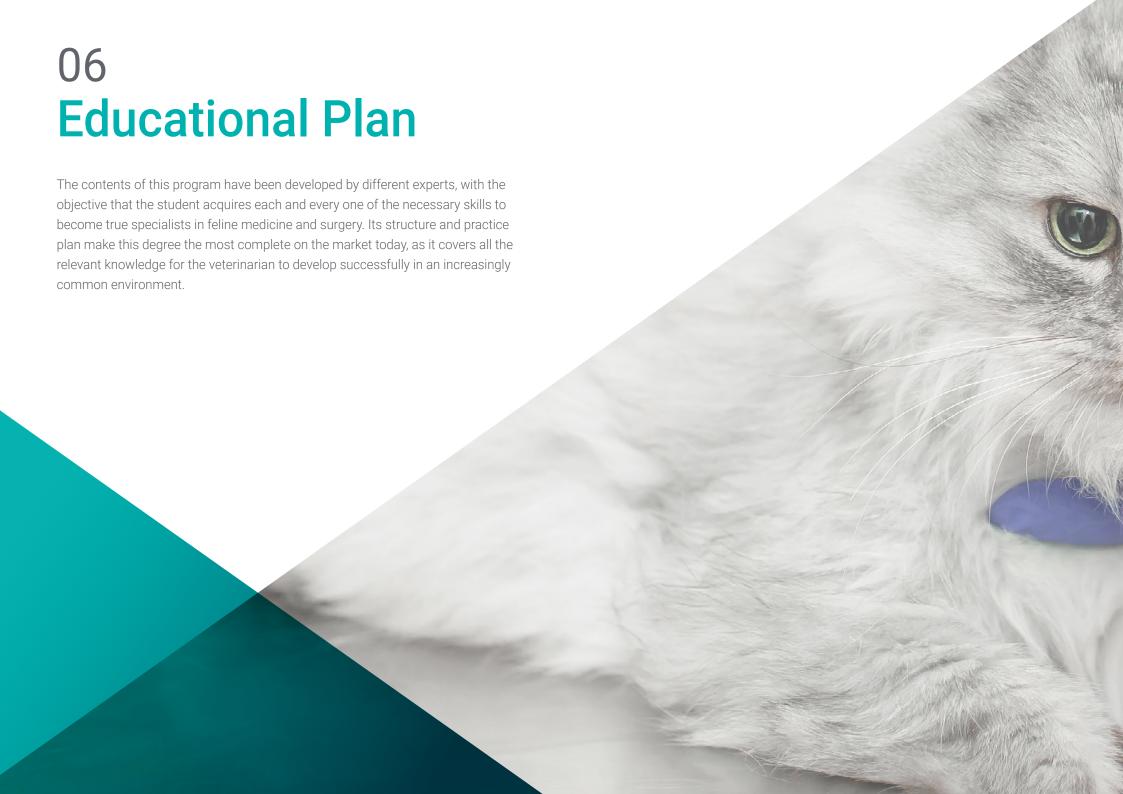
## Course Management | 27 tech

#### Dr. Galán López, Amaia

- Veterinary Specialist in Internal Medicine
- Co-responsible for the Oncology and Electrochemotherapy Service at the Clinica Ariznabarra Veterinary Clinic
- Veterinarian at Croak Veterinary Clinic
- Graduated in Veterinary Medicine at the University of Extremadura
- Diploma from the European School of Veterinary Postgraduate Studies as General Practitioner Certificate in Oncology
- Postgraduate in Oncology by the International School of Veterinary Postgraduate Studies
- Course of Electrochemotherapy in Veterinary Medicine by VetOncología
- Internship at Indautxu Veterinary Clinical Center
- Internship at the Nacho Meneses Veterinary Hospital



Expand your theoretical knowledge and practical skills with the best specialists in Feline Medicine and Surgery"





## tech 32 | Educational Plan

#### Module 1. Feline Medicine and Surgery

- 1.1. Cat-friendly Management of Cats in the Day-to-Day Clinic
  - 1.1.1. Well-Being and Stress in the Cat
  - 1.1.2. Acute Stress in the Clinic. How to Prevent Stress
- 1.2. Design and Implementation of Environmental Enrichment Plans
  - 1.2.1. Environmental Enrichment
  - 1.2.2. Physiological Needs of the Cat
  - 1.2.3. Environmental Needs of the Cat
  - 1.2.4. Environmental Enrichment at Home
- 1.3. Behavioral Alterations in Cats
  - 1.3.1. Behavioral Disturbances
  - 1.3.2. Aggressiveness
  - 1.3.3. Inappropriate Urination and Urine Marking
  - 1.3.4. Grooming Disorders
  - 1.3.5. Feline Hyperesthesia Syndrome
- 1.4. Anesthesia and Analgesia
  - 1.4.1. Anesthesia and Risks
  - 1.4.2. Sedation and Premedication
  - 1.4.3. Injectable and Inhalational Anesthetics
  - 1.4.4. Intubation
  - 1.4.5. Monitoring
  - 1.4.6. Perianesthetic Complications
  - 1.4.7. Recovery
- 1.5. Loco Regional Anesthesia. Special Patients
  - 1.5.1. Locoregional Anesthesia
  - 1.5.2. Anesthesia for the Renal Patient
  - 1.5.3. Anesthesia for the Cat with Cardiac Pathology
  - 1.5.4. Anesthesia for Kittens and Geriatric Cats
  - 1.5.5. Anesthesia for Patients with Respiratory Problems
  - 1.5.6. Anesthesia for Diabetic Patients
  - 1.5.7. Anesthesia for Felines with Hepatic Disease

- 1.6. Pain of Osteoarticular and Neuropathic Origin
  - 1.6.1. Osteoarticular Pain
    - 1.6.1.1. Etiology
    - 1.6.1.2. Prevalence
    - 1.6.1.3. Risk Factors
    - 1.6.1.4. Pathophysiology
    - 1.6.1.5. Diagnosis. Pain Assessment Scales
    - 1.6.1.6. Treatment
      - 1.6.1.6.1. Conventional Therapies
        - 1.6.1.6.1.1. Pharmacological
        - 1.6.1.6.1.2. Surgical
        - 1.6.1.6.1.3. Physiotherapy and Rehabilitation
      - 1.6.1.6.2. New Treatments
        - 1.6.1.6.2.1. Biological Therapies
        - 1.6.1.6.2.2. Monoclonal Antibodies Against Nerve Growth Factor (anti-NGF)
      - 1.6.1.6.3. Prognosis
  - 1.6.2. Neuropathic Pain
    - 1.6.2.1. Etiology
    - 1.6.2.2. Prevalence
    - 1.6.2.3. Pathophysiology
    - 1.6.2.4. Diagnosis
    - 1.6.2.5. Treatment
- 1.7. Non-Regenerative Anemia
  - 1.7.1. Causes
  - 1.7.2. Pathogenesis
  - 1.7.3. Diagnosis
  - 1.7.4. Treatment
- 1.8. Controversies in Feline Nutrition
  - 1.8.1. Raw Food Diets
  - 1.8.2. The Cat and Carbohydrates
  - 1.8.3. Homemade Diets

- 1.9. Pharmacological Therapy in Cats
  - 1.9.1. Differences in Drug Metabolism
  - 1.9.2. Dose Adjustments in the Patient with Renal Insufficiency
  - 1.9.3. Considerations in the Cat with Hepatic Insufficiency
  - 194 Considerations in the Neonate and Kittens
  - 1.9.5. Particularities in the Senior Cat
- 1.10. Management of Urban Cat Colonies
  - 1.10.1. Trapping-Spay-Neuter-Vaccination-Return Programs
  - 1.10.2. Sterilization
  - 1.10.3. FeLV/IVF Testing
  - 1.10.4. Identification
  - 1.10.5. Vaccines
  - 1.10.6. Deworming
  - 1.10.7. Feeding
  - 1.10.8. Elimination
  - 1.10.9. Disinfection
  - 1.10.10. Colony Monitoring and Surveillance

#### Module 2. Digestive and Odontological Pathologies in the Feline Species

- 2.1. Esophageal Pathologies in the Cat
  - 2.1.1. Esophageal Pathologies in the Cat
    - 2.1.1.1. Clinical Presentation
    - 2.1.1.2. Diagnostic Approach
  - 2.1.2. Esophagitis and Esophageal Strictures
    - 2.1.2.1. Causes
    - 2.1.2.2. Diagnosis
    - 2.1.2.3. Medical Treatment
  - 2.1.3. Non-Invasive Treatment of Esophageal strictures
  - 2.1.4. Megaesophagus
- 2.2. Feline Chronic Enteropathy I. Clinical Signs
  - 2.2.1. Feline Chronic Enteropathy
  - 2.2.2. Overview, History and Clinical Signs
  - 2.2.3. Laboratory Assessment: Importance of Cobalamin
  - 2.2.4. Abdominal ultrasound
  - 2.2.5. Fine needle Aspiration

- 2.3. Feline Chronic Enteropathy II. Tests, Treatment and Prognosis
  - 2.3.1. Biopsy: Advantages and Disadvantages of the Different Techniques
  - 2.3.2. Interpretation of Biopsy Results
  - 2.3.3. Immunohistochemistry
  - 2.3.4. Clonality Test
  - 2.3.5. Treatment and Prognosis of IBD and Low-Grade Lymphoma
- 2.4. Pancreatitis in Cats: ACVIM Consensus I
  - 2.4.1. Pancreatitis in Cats
  - 2.4.2. Causes
  - 2.4.3. Pathophysiology
  - 2.4.4. Clinical Signs
  - 2.4.5. Diagnosis
    - 2.4.5.1. Image
    - 2.4.5.2. Clinical Pathology
    - 2.4.5.3. Cytology
    - 2.4.5.4. Histology
- 2.5. Pancreatitis in Cats: ACVIM II Consensus and Exocrine Pancreatic Insufficiency (EPI)
  - 2.5.1. Treatment of Acute Pancreatitis
  - 2.5.2. Treatment of Chronic Pancreatitis
  - 2.5.3. EPI. Exocrine Pancreatic Insufficiency
    - 2.5.3.1. EPI. Causes
    - 2.5.3.2. EPI. Clinical Signs
    - 2.5.3.3. EPI. Laboratory Diagnosis, Imaging and Histology IPE. Treatment
- 2.6. Cholangitis and Hepatic Lipidosis
  - 2.6.1. Neutrophilic Cholangitis
  - 2.6.2. Lymphocytic Cholangitis
  - 2.6.3. Trematode Cholangitis
  - 2.6.4. Hepatic Lipidosis
  - 2.6.5. Liver Sampling

## tech 34 | Educational Plan

- 2.7. Surgery of the Gastrointestinal Tract in the Cat
  - 2.7.1. Gastrointestinal Surgery
  - 2.7.2. Surgical Approach to the Abdominal Cavity
  - 2.7.3. Anatomy of the Digestive Tract Wall
  - 2.7.4. Scarring: Process and Importance of Suture
  - 2.7.5. Enterotomy
  - 2.7.6. Enterectomy
  - 2.7.7. Alternatives to Suture for Anastomosis
- 2.8. Feline Dentistry I. Examination, Diagnosis and Recording
  - 2.8.1. Feline Dentistry
  - 2.8.2. Basic and Advanced Equipment
  - 2.8.3. Oral Anatomy
  - 2.8.4. Examination, Diagnosis and Recording
  - 2.8.5. Oral Radiology
- 2.9. Feline Dentistry II. Pathologies
  - 2.9.1. Resorptive Lesions
  - 2.9.2. Dental Fractures
  - 2.9.3. Orofacial Pain Syndrome
  - 2.9.4. Other Pathologies
- 2.10. Feline Chronic Gingivostomatitis
  - 2.10.1. Etiology
  - 2.10.2. Clinical Signs
  - 2.10.3. Diagnosis
  - 2.10.4. Medical and Surgical Treatment
  - 2.10.5. Mesenchymal Stem Cell Therapy
  - 2.10.6. Laser Therapy

#### Module 3. Hospitalization and Intensive Care in Felines

- 3.1. Initial Assessment of Emergencies
  - 3.1.1. Essential Material in the Emergency Department
  - 3.1.2. Primary Assessment: ABC
  - 3.1.3. Assessment of the Neurological Patient
  - 3.1.4. Secondary Assessment: Crash Plan
  - 3.1.5. Acute Pain Management
- 3.2. Basic Parameters for the Assessment of the Critical Patient
  - 3.2.1. PCV/PT/Frotis
  - 3.2.2. Glucose
  - 3.2.3. Lactate
  - 3.2.4. lons
  - 3.2.5. Acid-base Equilibrium
  - 3.2.6. Gasometry
  - 3.2.7. AFAST/TFAST
- 3.3. Fluid Therapy
  - 3.3.1. Physiology of Body Fluids
  - 3.3.2. Fluid Therapy Solutions
  - 3.3.3. Design of a Fluid Therapy Plan
  - 3.3.4. Fluid to be Used
  - 3.3.5. Administration of Fluid Therapy
- 3.4. Transfusion Medicine
  - 3 4 1 Blood Products
  - 3.4.2. Indications for Transfusion
  - 3.4.3. Blood Groups and Compatibility Tests
  - 3.4.4. Blood Collection and Handling
  - 3.4.5. How to Transfuse
  - 3.4.6. Transfusion Reactions. How to Treat Them
- 3.5. Stabilization of the Critical Patient: Shock and Cardiovascular System
  - 3.5.1. Types of Shock
  - 3.5.2. Signs of Shock in the Feline Patient
  - 3.5.3. Treatment of Shock
  - 3.5.4. Hypovolemic Shock

#### 3.6. SIRS and Septic Shock

- 3.6.1. Pathophysiology
- 3.6.2. Criteria for Diagnosis
- 3.6.3. Treatment
- 3.6.4. Others Points to Consider

#### 3.7. Monitoring of Critical Patients

- 3.7.1. Kirby's 20 Rules
- 3.7.2. Basic Monitoring
- 3.7.3. Advanced Monitoring

#### 3.8. Dietary Management of the Hospitalized Feline Patient

- 3.8.1. Assisted Feeding
- 3.8.2. Design of a Feeding Plan
- 3.8.3. Routes of Administration
- 3.8.4. Refeeding Syndrome

#### 3.9. ICU Procedures

- 3.9.1. Placement of Peripheral and Central Catheters
- 3.9.2. Blood Pressure Measurement
- 3.9.3. Oxygen Therapy
- 3.9.4. Measurement of Urine Output
- 3.9.5. Placement of Feeding Tubes

#### 3.10. Cardiopulmonary Resuscitation

- 3.10.1. Preparedness and Prevention
- 3.10.2. Basic Vital Support
- 3.10.3. Monitoring
- 3.10.4. Advanced Vital Support
- 3.10.5. Post-Arrest Care

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#### Module 4. Neurology in Feline Patients

- 4.1. Neuroanatomy
  - 4.1.1. Embryonic Development of the Nervous System
  - 4.1.2. Parts of the Nervous System
  - 4.1.3. NMS/NMI
- 4.2. Neurological Examination in the Cat
  - 4.2.1. Necessary Material for a Correct Neurological Examination
  - 4.2.2. Anamnesis and Clinical History
  - 4.2.3. Mental Status, Posture and Gait
  - 4.2.4. Cranial Nerves
  - 4.2.5. Postural Reactions
  - 4.2.6. Spinal Reflexes
  - 4.2.7. Nociception
- 4.3. Neurolocalization
  - 4.3.1. Clinical Signs Associated with Thalamo-cortical Lesions
  - 4.3.2. Clinical Signs Associated with lesions in the Brainstem
  - 4.3.3. Clinical Signs Associated with Cerebellar Lesions
  - 4.3.4. Clinical Signs Associated with Spinal Cord Injuries
  - 4.3.5. Clinical Signs Associated with PNS Lesions
- 4.4. Differential Diagnosis and Complementary Tests
  - 4.4.1. Vitamin D
    - 4.4.1.1. Laboratory Diagnosis
    - 4.4.1.2. Radiography
    - 4.4.1.3. Myelography
    - 4.4.1.4. TC/ Magnetic Resonance
    - 4.4.1.5. Electrophysiology
    - 4.4.1.6. CSF Extraction and Study
- 4.5. Epileptiform Seizures
  - 4.5.1. Diagnostic Protocol
  - 4.5.2. Idiopathic Epilepsy
  - 4.5.3. Treatment

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- 4.6. Feline Vestibular Disease
  - 4.6.1. Vestibular System Anatomy
  - 4.6.2. Acute Vestibular Syndrome
  - 4.6.3. Central Vestibular Syndrome
  - 4.6.4. Bilateral Vestibular Syndrome
- 4.7. Spinal cord Diseases
  - 4.7.1. Inflammatory/ Infectious Myelopathy
  - 4.7.2. Vascular Myelopathies
  - 4.7.3. Metabolic Myelopathies
  - 4.7.4. Neoplasms
- 4.8. Metabolic Myelopathies in Cats
  - 4.8.1. Infectious/Inflammatory Encephalopathies
  - 4.8.2. Metabolic Encephalopathy
  - 4.8.3. Neoplasms
- 4.9. Neurological Emergencies
  - 4.9.1. Cranioencephalic Trauma
  - 4.9.2. Spinal Cord Trauma
  - 4.9.3. Status Epilepticus
  - 4.9.4. Neurotoxicants
- 4.10. Surgical Procedures
  - 4.10.1. Anesthesia and Analgesia in Neurological Patients
  - 4.10.2. Neurosurgery
  - 4.10.3. Spinal Surgery
  - 4.10.4. Intracranial Surgery

#### Module 5. Feline Cardiorespiratory System

- 5.1. Clinical Assessment of the Cardiorespiratory System
  - 5.1.1. Clinical History and Anamnesis
  - 5.1.2. Physical Examination of the Patient with Respiratory Distress
  - 5.1.3. Differentiating a Respiratory Problem from a Cardiac Problem
  - 5.1.4. Emergency Treatment of the Patient with Respiratory Distress
- 5.2. Feline Congenital Cardiac Pathology
  - 5.2.1. Statistics
  - 5.2.2. Physical Examination of the Kitten with Cardiac Pathology
  - 5.2.3. Ventricular and Atrial Septal Defects
  - 5.2.4. Aortic Stenosis
  - 5.2.5. Pulmonary Stenosis
  - 5.2.6. Persistent Ductus Arteriosus
  - 5.2.7. Supravalvular Mitral Stenosis
  - 5.2.8. Congenital Pathology of Atrioventricular Valves
  - 5.2.9. Tetralogy of Fallot

Special Cardiac Studies (Angiography / CT / Contrast Echocardiography / Transesophageal Echocardiography)

- 5.3. Acquired Cardiac Pathology I. Myocardiopathies
  - 5.3.1. ACVIM Consensus on Cardiomyopathies
  - 5.3.2. Hypertrophic Phenotype Cardiomyopathy
  - 5.3.3. Restrictive Cardiomyopathy Phenotype
  - 5.3.4. Cardiomyopathy of Dilated Phenotype
  - 5.3.5. Arrhythmogenic Right Ventricular Cardiomyopathy
  - 5.3.6. Non-Specific Cardiomyopathy
  - 5.3.7. Myocarditis, Steroid-Associated Cardiac Failure, Endocrinopathies and Heart Disease



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- 5.4. Acquired Cardiac Pathology II. Hypertension, Heart Failure, Arrhythmias
  - 5.4.1. Pulmonary Hypertension
  - 5.4.2. Feline Dirofilariasis. Cardiac or Respiratory Problem
  - 5.4.3. Arrhythmias in the Feline Patient
  - 5.4.4. Feline Hypertensive Pathology
  - 5.4.5. Particularities of Congestive Heart Failure in the Cat
  - 5.4.6. Treatment of Feline Congestive Heart Failure
- 5.5. Thromboembolism
  - 5.5.1. Risk Factors
  - 5.5.2. Pulmonary Embolism
  - 5.5.3. Aortic Thromboembolism
  - 5.5.4. Other Thromboembolism
  - 5.5.5. Medical Treatment
  - 5.5.6. Surgical Management
- 5.6. Respiratory Pathology I: Upper Respiratory Tract
  - 5.6.1. History and Physical Examination Data
  - 5.6.2. Clinical Signs
  - Diagnostic Considerations: Non-Invasive Tests, Imaging, Biopsy, Nasal Flushing, Exploratory Rhinotomy
  - 5.6.4. Main Upper Airway Pathologies
  - 5.6.5. Medical Treatment of the Main Pathologies
- 5.7. Respiratory Pathology II: Lower Respiratory Tract
  - 5.7.1. Clinical Signs
  - 5.7.2. Diagnosis: Radiology, CT, Bronchoscopy
  - 5.7.3. Indications and Performance of Bronchoalveolar Lavage
  - 5.7.4. Asthma and Chronic Bronchitis
  - 5.7.5. Other Pulmonary Pathologies
  - 5.7.6. Management of Respiratory Polytraumatized (Pneumothorax, Rib Fractures, Pulmonary Hemorrhages)
- 5.8. Respiratory Pathology III: Pleural Space
  - 5.8.1. Stabilization and Initial Diagnosis of the Patient with Pleural Effusion
  - 5.8.2. Analysis of Pleural Effusion
  - 5.8.3. Causes of Pleural Effusion
  - 5.8.4. Technique of Thoracentesis and Pleural Drainage Tube Implantation

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5.9.	Surgical Approach to Feline Cardio-respiratory Pathology	6.3.		le Diabetic Cat
	5.9.1. Thoracic Anatomy		6.3.1.	Unstable Dial
	5.9.2. Nasopharyngeal Polyps		6.3.2.	Insulin: Type
	5.9.3. Nasopharyngeal Stenosis		6.3.3.	Somogyi Effe
	5.9.4. Brachycephalic Syndrome		6.3.4.	Concomitant
5.10.	3 - 1-1		6.3.5.	Owner-Deper
	5.10.1. Surgery in the Patient with Pulmonary Neoplasm		6.3.6.	Remission of
	5.10.2. Surgical Treatment of Pleural Effusions: PleuralPort, Shunts, Omentalizations	6.4.	Diabeti 6.4.1.	c Ketoacidosis Pathophysiol
	5.10.3. Hernia Peritoneopericardiodiafragmatica		6.4.2.	Clinical and L
	5.10.4. Diaphragmatic Hernia		6.4.3.	Treatment
	5.10.5. Pectum Excavatum			6.4.3.1. Fluid
Mari	halo & Fardersia constituito de Paline Onessia.			6.4.3.2. Supp
IVIOC	dule 6. Endocrinopathies in the Feline Species			6.4.3.3. Insuli
6.1.	Acromegaly			6.4.3.3.1.
	6.1.1. Acromegaly			6.4.3.3.2.
	6.1.2. Pathogenesis		6.4.4.	Complement
	6.1.3. Clinical Manifestations		6.4.5.	Prognosis
	6.1.4. Diagnostic Tests	6.5.	Calciur	m Disorders
	6.1.5. Treatment		6.5.1.	Calcium Phys
	6.1.6. Prognosis		6.5.2.	Hypercalcem
6.2.	Diabetes Mellitus: Treatment and Monitoring			6.5.2.1. Differ
	6.2.1. Insulin Treatment			6.5.2.2. Diagr
	6.2.2. Non-Insulin Therapies			6.5.2.3. Treat
	6.2.3. Nutritional Treatment		6.5.3.	Hypocalcemi
	6.2.4. Monitoring			6.5.3.1. Differ
	6.2.4.1. Fructosamine			6.5.3.2. Diagr
	6.2.4.2. Glucose in Urine			6.5.3.3. Treat
	6.2.4.3. Methods and Systems for Blood Glucose Monitoring	6.6.	Hypert	hyroidism
	6.2.4.4. Glycosylated Hemoglobin		6.6.1.	Epidemiology
			6.6.2.	Clinical Signs
			( ( )	Thursial I laws

	6.3.1.	Unstable Diabetic Cat
	6.3.2.	Insulin: Type and Dosage
	6.3.3.	Somogyi Effect
	6.3.4.	Concomitant Diseases
	6.3.5.	Owner-Dependent Factors
	6.3.6.	Remission of Diabetes
4.	Diabetic	Ketoacidosis and Hyperosmolar Syndrome
		Pathophysiology
	6.4.2.	Clinical and Laboratory Alterations
	6.4.3.	Treatment
		6.4.3.1. Fluid Therapy
		6.4.3.2. Supplements to Fluid Therapy
		6.4.3.3. Insulin Therapy
		6.4.3.3.1. Intravenous Insulin
		6.4.3.3.2. Intramuscular Insulin
	6.4.4.	Complementary Treatment
	6.4.5.	Prognosis
5.	Calcium	Disorders
	6.5.1.	Calcium Physiology and Regulation
	6.5.2.	Hypercalcemia
		6.5.2.1. Differential Diagnosis
		6.5.2.2. Diagnostic Tests
		6.5.2.3. Treatment
	6.5.3.	Hypocalcemia
		6.5.3.1. Differential Diagnosis
		6.5.3.2. Diagnostic Tests
		6.5.3.3. Treatment
6.	Hyperth	yroidism
	6.6.1.	Epidemiology of Hyperthyroidism
	6.6.2.	Clinical Signs and Laboratory Abnormalities
	6.6.3.	Thyroid Hormone Alterations
	6.6.4.	Complementary Diagnostic Tests

# Treatment of Hyperthyroidism

- 6.7.1. Considerations Prior to Pharmacological Treatment
- 6.7.2. Pharmacological Treatment and Monitoring
- 6.7.3. Other treatments
  - 6.7.3.1. Surgical Thyroidectomy
  - 6.7.3.2. Radioactive lodine
  - 6.7.3.3. Diet
- 6.7.4. Causes of Treatment Failure
- Hyperthyroidism, Renal Disease and Hypertension
  - 6.8.1. Relationship Between Hyperthyroidism and Chronic Renal Disease
  - 6.8.2. Hyperthyroidism and Laboratory Tests of Renal Functionality
  - 6.8.3. Relationship Between Hyperthyroidism and Blood Pressure
  - 6.8.4. Treatment of Hyperthyroid Cats with CKD
- Hyperadrenocorticism
  - 6.9.1. Etiology and Clinic
  - 6.9.2. Diagnosis
    - 6.9.2.1. Laboratorial Alterations
    - 6.9.2.2. Endocrine Tests
    - 6.9.2.3. Diagnostic Imaging
  - 6.9.3. Treatment
  - 6.9.4. Prognosis
- 6.10. Adrenal Tumors
  - 6.10.1. Adrenal Tumors
  - 6.10.2. Hyperaldosteronism
  - 6.10.3. Other Adrenal Tumors
    - 6.10.3.1. Pheochromocytoma
    - 6.10.3.2. Non-Functioning Adrenal Tumor
    - 6.10.3.3. Sex Hormone Secreting Adrenal Tumors

### Module 7. Nephrology and Urology in the Feline Species

- Diagnostic Methods I. Assessment
  - 7.1.1. Assessment of Renal Size
  - 7.1.2. Blood Biochemistry
  - Diagnostic Imaging Techniques in the Urinary Tract
  - 7.1.4. Renal Biopsy
- Diagnostic Methods II. Urinalysis
  - 7.2.1. Urinalysis
  - Timing, Collection Technique and Handling
  - 7.2.3. Interpretation
  - 7.2.4. Urine Culture
  - 725 UPC
- Acute Renal Disease
  - 7.3.1. Causes
  - 7.3.2. Pathophysiology
  - Staging and Management According to IRIS Guidelines 7.3.3.
  - 7.3.4. Dialysis
  - Renal Transplant
- Chronic Renal Insufficiency I. Causes and Diagnosis
  - 7.4.1. Causes
  - 742 Clinical Findings
  - IRIS Guides: What's New 7.4.3.
  - 7 4 4 Importance, Diagnosis, and Treatment of Proteinuria: ACVIM Consensus
  - Systemic Arterial Hypertension: Diagnosis and Treatment
- Chronic Renal Insufficiency II. Specific and Non-Specific Diseases
  - 7.5.1. Management of Specific Diseases
  - Non-specific Therapeutic Strategies
  - Importance of Nutrition

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- 7.6. Feline Idiopathic Cystitis
  - 7.6.1. Importance, History and Risk Factors
  - 7.6.2. Pathophysiology
  - 7.6.3. Clinical Signs
  - 7.6.4. Diagnosis
  - 7.6.5. Treatment
- 7.7. Urolithiasis
  - 7.7.1. Prevalence
  - 7.7.2. Methods of Extraction
  - 7.7.3. Struvite Urolithiasis
  - 7.7.4. Urolithiasis by Oxalate
  - 7.7.5. Recommendations According to the ACVIM Consensus
- 7.8. Urethral Obstruction
  - 7.8.1. Urethral Obstruction
  - 7.8.2. Stabilization
  - 7.8.3. Decompression
  - 7.8.4. Medical Treatment
  - 7.8.5. Surgical Treatment: Perineal Urethrostomy
- 7.9. Ureteral Obstruction
  - 7.9.1. Ureteral Obstruction
  - 7.9.2. Causes
  - 7.9.3. Clinical Presentation
  - 7.9.4. Diagnosis
  - 7.9.5. Medical Treatment
  - 7.9.6. Surgical Treatment: Stent vs. Ureterotomy
- 7.10. Others Urinary System Pathologies
  - 7.10.1. Neoplasms
  - 7.10.2. Trauma Lesions
  - 7.10.3. Urinary Incontinence



### Module 8. Dermatology in the Feline Species

- 8.1. Feline Dermatology
  - 8.1.1. Structure and Function of the Skin
  - 8.1.2. Dermatological Consultation
  - 8.1.3. Diagnostic Techniques
  - 8.1.4. Primary and Secondary Injuries
  - 8.1.5. Dermatological Patterns
- 8.2. Dermatologic Patterns and Differential Diagnosis
  - 8.2.1. Dermatologic Patterns and Differential Diagnosis
  - 8.2.2. Pruritus
  - 8.2.3. Focal-Multifocal Alopecia
  - 8.2.4. Symmetrical Alopecia
  - 8.2.5. Papules, Pustules and Scabs
  - 8.2.6. Erosive-Ulcerative Dermatoses
  - 8.2.7. Nodules and Fistulas
  - 8.2.8. Desquamative and Comedogenic Dermatoses
  - 8.2.9. Disorders of Coloration and Pigmentation
- 8.3. Parasitosis
  - 8.3.1. Arthropods
  - 8.3.2. Ticks
  - 8.3.3. Mites
    - 8.3.3.1. Trombicula
    - 8.3.3.2. Otodectes
    - 8.3.3.3. Cheyletiellosis
    - 8.3.3.4. Demodicosis
    - 8.3.3.5. Notoedres
  - 8.3.4. Insects
    - 8.3.4.1. Lice
      - 8.3.4.1.1. Fleas. DAPP
        - 8.3.4.1.1. Dermatitis Associated with Mosquito Bites
  - 8.3.5. Myiasis

- 8.4. Cytology and Cutaneous Anatomopathology
  - 8.4.1. Procedures for Specimen Collection and Submission
  - 8.4.2. Normal skin Cytology Findings
  - 8.4.3. Abnormal findings in Inflammatory Cytologies
  - 8.4.4. Cytologic Patterns of Inflammation
  - 8.4.5. Infectious Agents
  - 8.4.6. Skin Histopathologic Patterns
- 8.5. Hypersensitivity Disorders
  - 8.5.1. Hypersensitivity Disorders
  - 8.5.2. Feline Atopic Dermatitis
  - 8.5.3. Adverse Reactions to Food/Food Allergy
- 8.6. Dermatophytosis, Malassezia Dermatitis and Other Mycoses
  - 8.6.1. Clinical Signs
  - 8.6.2. Diagnosis
  - 8.6.3. Treatment
  - 8.6.4. Environmental Control
  - 8.6.5. Public Health Aspects
  - 8.6.6. Malassezia Dermatitis
    - 8.6.6.1. Clinical Signs
    - 8.6.6.2. Treatment
  - 8.6.7. Other Mycosis
- 3.7. Bacterial Infections
  - 8.7.1. Superficial Bacterial Folliculitis or Pyoderma
  - 8.7.2. Deep Pyoderma
  - 8.7.3. Abscesses
  - 8.7.4. Feline Leprosy
- 8.8. Autoimmune Diseases, Nose and Nails
  - 8.8.1. Autoimmune Diseases
  - 8.8.2. Nose Diseases
  - 8.8.3. Nail Diseases

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<ul><li>8.9.</li><li>8.10.</li></ul>	8.9.1. 8.9.2. 8.9.3. Hormor 8.10.1. 8.10.2. 8.10.3.	osinophilic Complex Clinical Signs Diagnosis Treatment nal, Dermatological, Cutaneous Psychogenic Diseases, Feline Acne Feline Acne Hormonal Diseases Dermatological Diseases with Oral Involvement Cutaneous Psychogenic Diseases			
Mod	ule 9. Ir	nfectious Diseases in Feline Patients			
9.1. Laboratorial Diagnosis of Infectious Diseases					
	9.1.1.	Specimen Handling			
		Concepts of Specificity, Sensitivity, Prevalence and Predictive Value			
	9.1.3. Most Common Diagnostic Techniques				
9.2.	Panleuk	·			
		The vVrus			
		Pathogenesis			
		Clinical Signs			
		Diagnosis			
		Treatment			
		Prevention			
9.3.		Feline Leukemia			
		Pathogenesis and Presentations			
	9.3.2.	Diagnosis			
	9.3.3.	Treatment			
	9.3.4.	Prognosis			
	9.3.5.	Prevention			
9.4.	Feline Immunodeficiency				
	9.4.1.	Pathogenesis			
	9.4.2.	Presentations			
	9.4.3.	Associated Diseases			
	9.4.4.	Diagnosis			
	9.4.5.	Treatment			
	9.4.6.	Prevention			

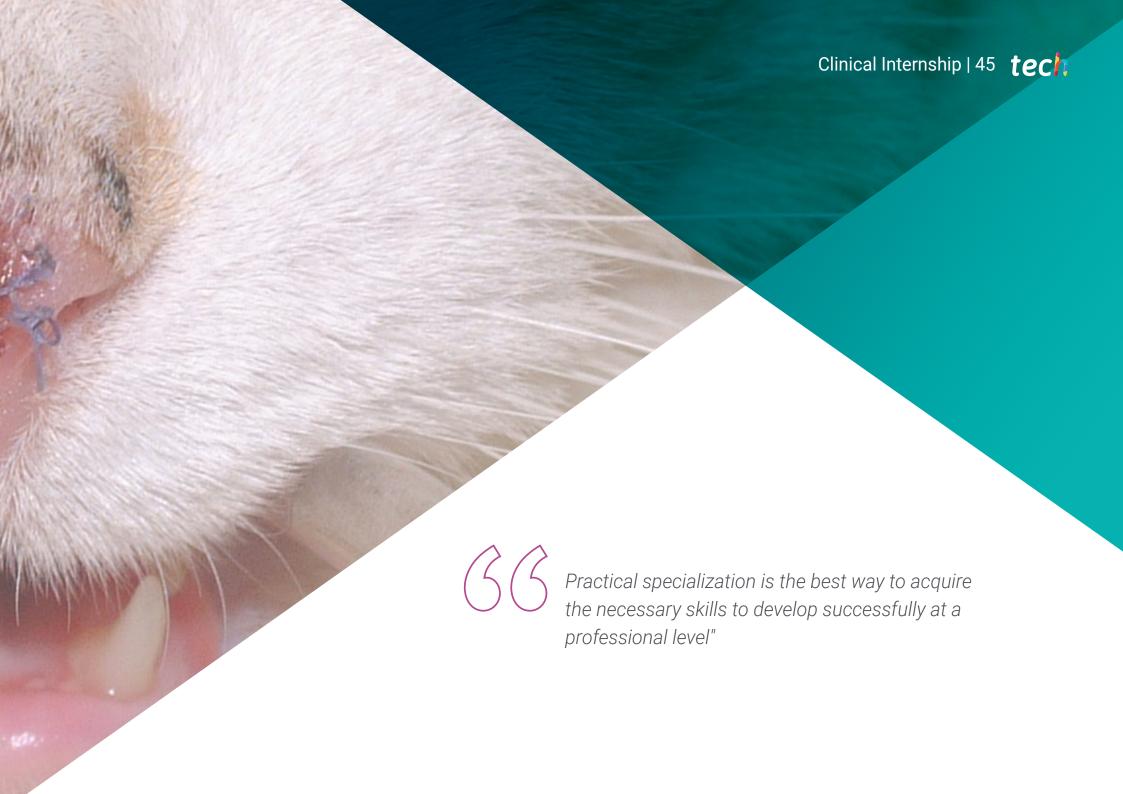
9.5.	Inmuno	deficiencia Felina		
	9.5.1.	Presentations		
	9.5.2.	Diagnosis		
	9.5.3.	Treatment Update		
9.6.				
	9.6.1.	Main Agents Involved		
		Herpesvirus Infections: Pathogenesis and Clinical Picture		
		Calicivirus Infections: Pathogenesis and Clinical Picture		
	9.6.4.	Primary Bacterial Infections		
		Fungal Infections		
9.7.	Upper Respiratory Tract Infections II. Diagnosis, Treatment			
		Diagnosis: Acute vs. Chronic		
	9.7.2.	Diagnosis: Sampling Techniques and Procedures		
	9.7.3.	Treatment of Herpesvirus Infections		
	9.7.4.	Treatment of Calicivirus Infections		
	9.7.5.	Treatment of Bacterial Infections: Responsible use of Antibiotics		
9.8.	Gastrointestinal Infections: Diarrhea in Kittens			
	9.8.1.	Importance		
	9.8.2.	Presentations		
	9.8.3.	Etiology		
		Diagnosis: Protocol and Techniques for Obtaining Samples		
		Treatment of On-Call Infections		
		Treatment of Tritrichomonas Infections		
9.9.	SARS-C	CoV2 Infection in Cats		
	9.9.1.	Introduction		
	9.9.2.	Etiology		
	9.9.3.	Transmission		
		Diagnosis		
	9.9.5.	Vaccines		
9.10.	Pulmon	ary Parasites in the Feline Species		
		Species Affecting the Cat		
		Parasite Cycle		
		Prevalence		
		Pathogenesis		
		Clinical Picture		
		Diagnosis		
		Treatment		
	9.10.8.	Prevention		

### Module 10. Oncology in the Feline Patient

- 10.1. Approach to the Feline Patient with a Mass
  - 10.1.1. First Evaluation
  - 10.1.2. Cytology: Methods of Collection, Preparation, Staining and Dispatch
  - 10.1.3. Choosing the Type of Biopsy
  - 10.1.4. Peculiarities of Biopsy Collection According to Specific Locations
  - 10.1.5. Staging
- 10.2. Particularities of Chemotherapy in Cats
  - 10.2.1. Usage Scenarios
  - 10.2.2. Preparation
  - 10.2.3. Administration
  - 10.2.4. Adverse Effects of the Chemotherapy and its Management
- 10.3. Drugs and Electrochemotherapy
  - 10.3.1. Alkylating Agents
  - 10.3.2. Anthracyclines
  - 10.3.3. Antimetabolites
  - 10.3.4. Antitubulin Agents
  - 10.3.5. Platinum-Derived Drugs
  - 10.3.6. Tyrosine Kinase Inhibitors
  - 10.3.7. Other Drugs
  - 10.3.8. Electrochemotherapy
- 10.4. Digestive Lymphoma
  - 10.4.1. Types
  - 10.4.2. Clinical Signs
  - 10.4.3. Diagnosis and Staging
  - 10.4.4. Treatment and Prognosis
- 10.5. Other Types of Lymphoma
  - 10.5.1. Peripheral Lymph Node Lymphoma
  - 10.5.2. Mediastinal Lymphoma
  - 10.5.3. Nasal Lymphoma
  - 10.5.4. Renal Lymphoma
  - 10.5.5. Central Nervous System Lymphoma
  - 10.5.6. Uterine and Subcutaneous Lymphoma

- 10.5.7. Pharyngeal, Laryngeal and Tracheal Lymphoma
- 10.5.8. Ocular Lymphoma
- 10.6. Breast Tumors
  - 10.6.1. Clinical Presentation
  - 10.6.2. Diagnosis
  - 10.6.3. Treatment
  - 10.6.4. Prognosis
- 10.7. Injection Site-Associated Sarcoma
  - 10.7.1. Pathogenesis
  - 10.7.2. Epidemiology
  - 10.7.3. Clinical Management
  - 10.7.4. Treatment
  - 10.7.5. Prevention
- 10.8. Other Frequent Types of Tumors in the Feline Species
  - 10.8.1. Squamous Cell Carcinoma
  - 10.8.2. Respiratory Carcinoma (Nasal and Pulmonary)
  - 10.8.3. Mastocytoma
  - 10.8.4. Squamous Cell Oral Carcinoma
  - 10.8.5. Osteosarcoma
- 10.9. Oncologic Surgery: Excision Margins
  - 10.9.1. Tumor Margins
  - 10.9.2. Types of Resection
  - 10.9.3. Assessment of Margins
  - 10.9.4. Communication with the Pathologist
  - 10.9.5. Interpretation of Margins in the Biopsy Report
- 10.10. Pain Management in the Cat with Cancer
  - 10.10.1. Pain Management in the Cat with Cancer
  - 10.10.2. Assessment
  - 10.10.3. Treatment





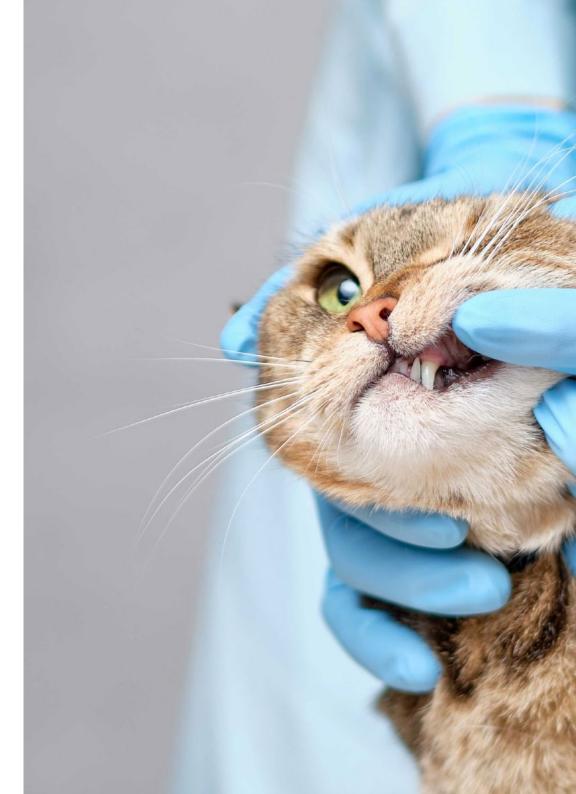
### tech 46 | Clinical Internship

The Internship Program in Feline Medicine and Surgery consists of a practical stay in a prestigious center, lasting 3 weeks, Monday through Friday with 8 consecutive hours of practical learning. This stay will allow them to see real cases alongside a professional team of reference in the veterinary area, applying the most innovative medical and surgical procedures of last generation.

In this training proposal, of a completely practical nature, the activities are aimed at developing and perfecting the competencies necessary for the provision of veterinary care, and are oriented towards specific training for the practice of the activity, in a safe environment for the patient and high professional performance.

The student will be accompanied by an assistant tutor of high prestige throughout the whole of this on-site stay. This specialist will be in charge of supervising their academic and practical progress in a demanding veterinary environment. Thus, students will have access to real cases that they will assimilate immediately. Through them, they will be able to know in depth all the surgical methods that they will have to apply in their daily professional practice.

The practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of the professors and other fellow trainees who will facilitate teamwork and multidisciplinary integration as transversal competencies for veterinary practice (learning to be and learning to relate).





### Clinical Internship | 47 tech

The procedures described below will be the basis of the practical part of the training, and their implementation will be subject to the center's own availability and workload, the proposed activities being the following:

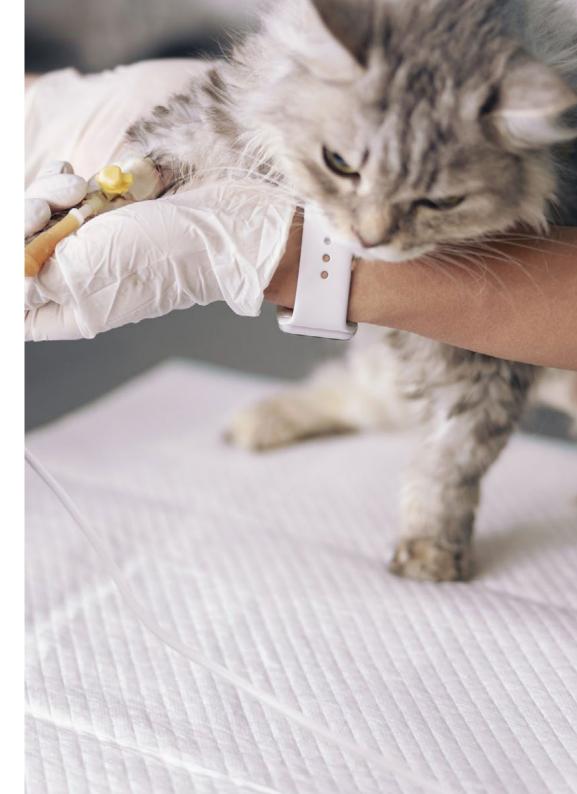
Module	Practical Activity
	Implement diagnostic imaging in the emergency department
Hospitalization and	Manage feline patients with acute dyspnea
intensive care for the feline patient	Utilize transfusion medicine in cats
	Apply intensive care to the feline patient in shock, hyporexia or anorexia
	Manage major bacterial diseases in the feline patient
Intervention of infectious diseases in felines	Implement advanced techniques for the treatment of toxoplasmosis in the cat
rennes	Evaluate emerging viral diseases and infectious peritonitis
Technologies applied	Use of equipment related to effective fluid therapy
to feline medicine and surgery and Feline	Use ultrasound, radiology and other examples of diagnostic imaging technologies
Surgery	Apply electrochemotherapy for feline surgery
	Address low grade and high grade lymphomas in the cat
Oncology techniques in the feline patient	Evaluate mammary carcinoma and enhance imaging in feline pulmonary neoplasms
	Perform cytology applied to feline oncology

### **Civil Liability Insurance**

This institution's main concern is to guarantee the safety of the trainees and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the internship program period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.



### **General Conditions of the Internship Program**

The general terms and conditions of the internship agreement for the program are as follows:

- 1. TUTOR: During the Hybrid Professional Master's Degree, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.
- **2. DURATION:** The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.
- 3. ABSENCE: If the students does not show up on the start date of the Hybrid Professional Master's Degree, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

- **4. CERTIFICATION**: Professionals who pass the Hybrid Professional Master's Degree will receive a certificate accrediting their stay at the center.
- **5. EMPLOYMENT RELATIONSHIP:** the Hybrid Professional Master's Degree shall not constitute an employment relationship of any kind.
- **6. PRIOR EDUCATION:** Some centers may require a certificate of prior education for the Hybrid Professional Master's Degree. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed
- 7. DOES NOT INCLUDE: The Hybrid Professional Master's Degree will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.





### tech 52 | Where Can I Do the Clinical Internship?

The student will be able to complete the practical part of this Hybrid Professional Master's Degree at the following centers:



#### Centro Quirúrgico Veterinario Algabeño

Country City
Spain Madrid

Address: Calle de José Rizal, 57, Madrid

Veterinary Center specialized in reproductive, oral, digestive, ophthalmic, otic, plastic and reconstructive, urological and urinary tract surgery.

#### Related internship programs:

-Veterinary Anesthesiology -Small Animal Veterinary Surgery



#### Centro Veterinario La Caleta MiVet

Country City
Spain Malaga

Address: Av. de Andalucía, 126, 29751 Caleta de Vélez, Málaga

Centro Veterinario La Caleta is a high level center specialized in general and integral care.

#### Related internship programs:

-Small Animal Dermatology -Veterinary Emergencies in Small Animals



#### Hospital Veterinario Málaga Este MiVet

Country City
Spain Malaga

Address: Avenida Infanta Elena, 29740 Torre del Mar, Málaga

The only veterinary hospital in the eastern area of Malaga with 24-hour emergency care.

#### Related internship programs:

-Management and Direction of Veterinary Centers -Veterinary Emergencies in Small Animals



#### Veterinario Sant Morí MiVet

Country City
Spain Barcelona

Address: Av. d'Alfons XIII, 571, 08918 Badalona, Barcelona

Veterinary hospital in Badalona Barcelona with 24h attention 365 days a year.

#### Related internship programs:

-Veterinary Anestiology -Ecography for Small Animals



#### Hospital Veterinario Avenida MiVet

Country City
Spain Vizcaya

Address: Sabino Arana Etorbidea, 18 48013 Bilbao, Bizkaia

General veterinary clinic with 24-hour service.

#### Related internship programs:

-Veterinary Anesthesiology -Veterinary Emergencies in Small Animals



#### Arroyovet

Country City
Spain Madrid

Address: Av. de la Unión Europea, 47, 28939 Arroyomolinos, Madrid

Veterinary clinical center with a wide range of clinical services

#### Related internship programs:

-Small Animal Internal Medicine -Feline Medicine and Surgery



#### **Hospital Veterinario Menes**

Country City
Spain Asturias

Address: Calle Daniel Palacio Fernández, 15, 33204 Gijón, Asturias

Veterinary clinic with exclusive dedication to pets.

#### Related internship programs:

-Small Animal Internal Medicine
-Veterinary Ophthalmology in Small Animals



#### Clínica Veterinaria Unzeta

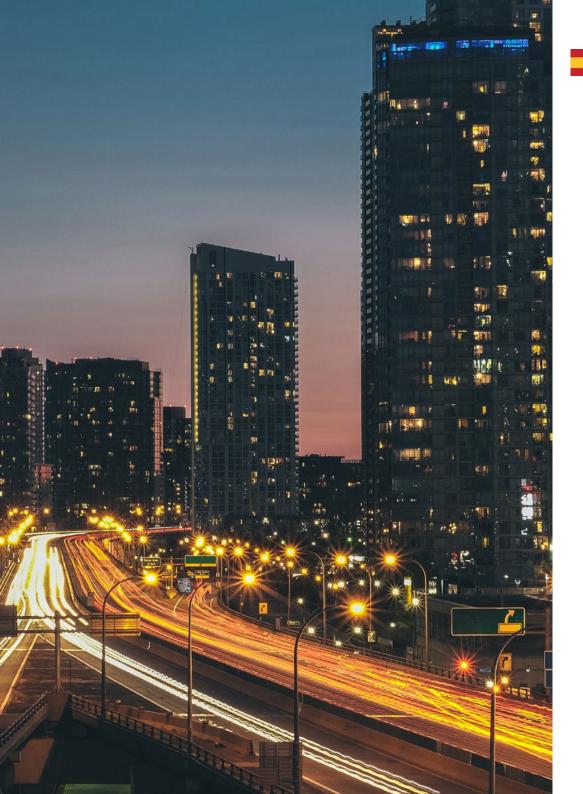
Country City
Spain Madrid

Address: C. de Ferraz, 28, 28008 Madrid

Veterinary clinical assistance center for domestic animals

#### Related internship programs:

-Small Animal Internal Medicine -Veterinary Oncology in Small Animals



### Where Can I Do the Clinical Internship? | 53 tech



Country Spain Jaen

Address: C. de Castilla y León, 6, 23009 Jaén

Veterinary clinic specialized in small animal medicine and surgery.

#### Related internship programs:

-Feline Medicine and Surgery

### tech 54 | Where Can I Do the Clinical Internship?



#### Pets, life & Care

Country

City

Mexico Nuevo León

Address: Av. Cabezada 10701-L12 Barrio acero C.P 64102

Comprehensive Care Veterinary Hospital

#### Related internship programs:

-Ecography for Small Animals -Veterinary Emergencies in Small Animals



#### **Hospital Veterinario Reynoso**

Country

City

Mexico

Mexico

Address: Guillermo roja No.201 Col. Federal Toluca Edomex

High specialty veterinary hospital

#### Related internship programs:

-Anesthesiology and Veterinary -Management and Direction of Veterinary Centers



#### Aztekan Hospital Veterinaro - Roma

Country

Mexico Mexico City

Address: San Luis 152 Col Roma C.P CDMX

24-hour Veterinary Hospital

#### Related internship programs:

-Veterinary Emergencies in Small Animals -Veterinary Cardiology in Small Animals



#### Clínica Veterinaria Luifran

Country

Mexico Mexico City

Address: Nte. 7-A 4634, Defensores de la República, Gustavo A. Madero, 28001 Ciudad de México, CDMX

Veterinary assistance center specialized in dogs and cats.

#### Related internship programs:

-Veterinary Anesthesiology -Infectious Diseases in Small Animals





### Where Can I Do the Clinical Internship? | 55 tech



#### **Dog City Pet Hospital**

Country City
Mexico Mexico City

Address: Lago Ginebra 145, Pensil Sur, Miguel Hidalgo, CP 11490

Veterinary clinic specialized in dog care

#### Related internship programs:

-Veterinary Anesthesiology -Veterinary Emergencies in Small Animal Veterinary Medicine



#### Veterinaria Palo Verde

Country Mexico City

xico Mexico City

Address: Cerro del Otate 20, Romero de Terreros, Coyoacán, 04310 Ciudad de México, CDMX

Veterinary clinic with more than 30 years of experience in pet care.

#### Related internship programs:

-Small Animal Internal Medicine -Animal Welfare

### tech 56 | Where Can I Do the Clinical Internship?



#### **SAVET Sanatorio Veterinario**

Country City
Argentina Río Negro

Address: Santa Cruz 1515 General Roca, Río Negro

Veterinary clinic with state of the art supplies and materials.

#### Related internship programs:

-Veterinary -Anesthesiology -Veterinary Emergencies in Small Animals



#### **Hospital Veterinario**

Country City
Argentina Buenos Aires

Address: Caveri 1343, Cruce Castelar, Moreno

Emergency and specialty veterinary hospital for small domestic and exotic animals.

#### Related internship programs:

-Small Animal Veterinary Surgery -Veterinary Emergencies in Small Animals



#### Clínica Veterinaria Don Bosco

Country City
Argentina Buenos Aires

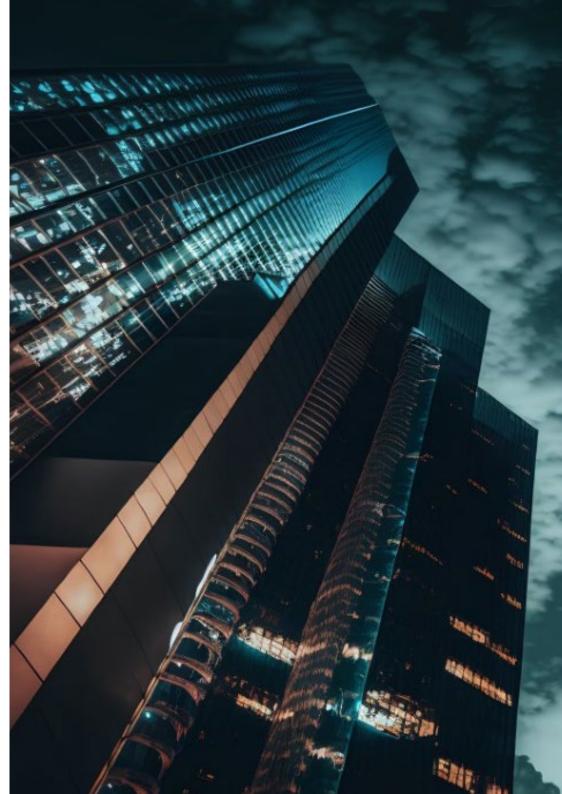
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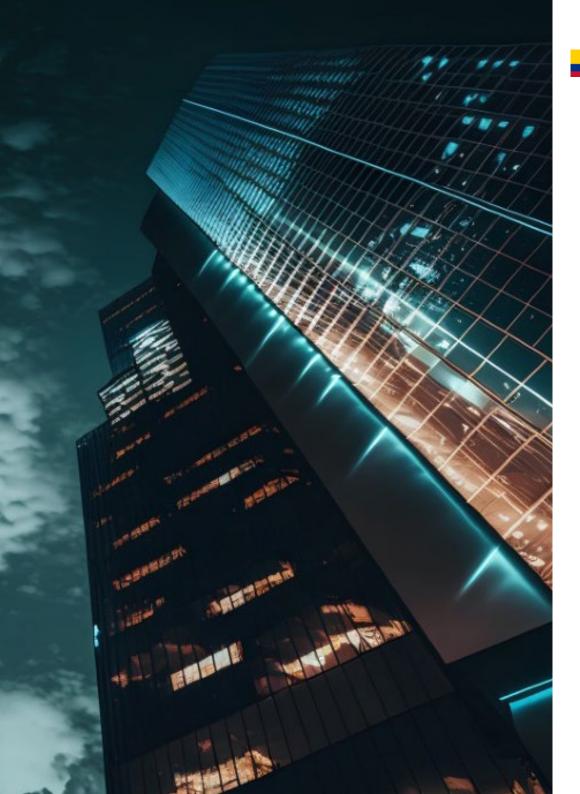
Clinic of general and specific specialties of Veterinary

Medicine

#### Related internship programs:

-Veterinary Anesthesiology -Veterinary Emergencies in Small Animals





### Where Can I Do the Clinical Internship? | 57 tech





Enroll now and advance in your field of work with a comprehensive program that will allow you to put into practice everything you have learned"



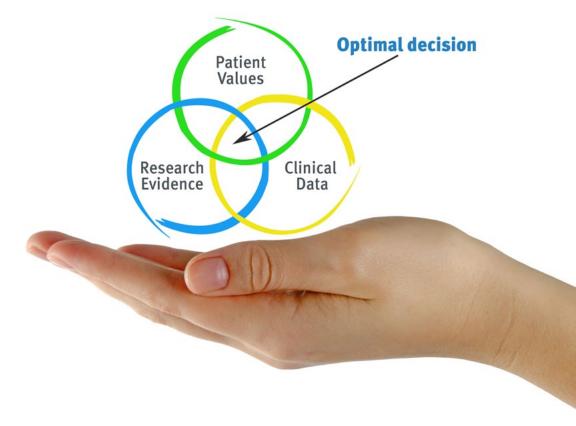


### tech 60 | Methodology

#### 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 | 63 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 64 | 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**

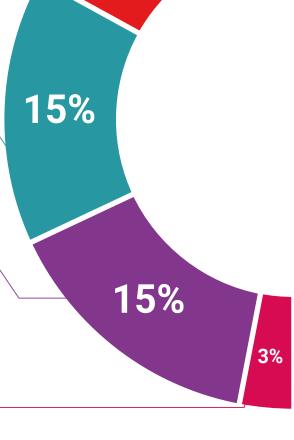
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch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



### 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.



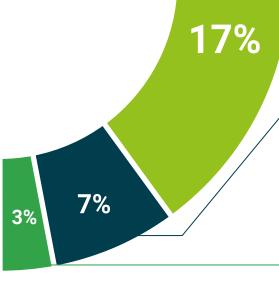
#### Classes

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.



20%







### tech 68 | Certificate

This **Hybrid Professional Master's Degree in Feline Medicine and Surgery** contains the most complete and up-to-date program on the professional and educational field.

After the student has passed the assessments, they will receive their corresponding Hybrid Professional Master's Degree diploma issued by TECH Technological University via tracked delivery\*.

In addition to the certificate, students will be able to obtain an academic transcript, as well as a certificate outlining the contents of the program. In order to do so, students should contact their academic advisor, who will provide them with all the necessary information.

Title: Hybrid Professional Master's Degree in Feline Medicine and Surgery

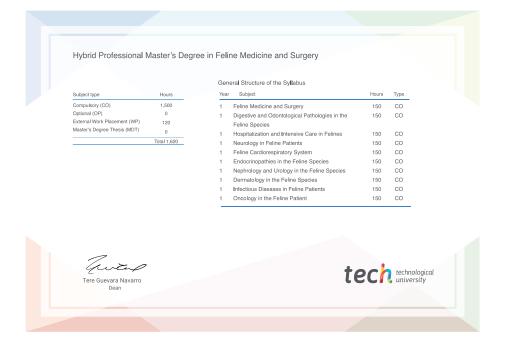
Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: **TECH Technological University** 

Teaching hours: 1,620 h.





health confidence people
leducation information tutors
guarantee accreditation teaching
institutions technology learning
community commitment



# Hybrid Professional Master's Degree

Feline Medicine and Surgery

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Technological University

Teaching hours: 1,620 h.

