

# Postgraduate Diploma

## Endocrine, Digestive and Urinary System Pathology in Cats





## Postgraduate Diploma Endocrine, Digestive and Urinary System Pathology in Cats

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-endocrine-digestive-urinary-system-pathology-cats](http://www.techtute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-endocrine-digestive-urinary-system-pathology-cats)

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# 01

# Introduction

In daily clinical practice, feline endocrinopathies represent one of the most frequent consultations for every veterinary center. The prevalence of pathologies such as hyperthyroidism or diabetes increases the concern of specialists to find up to date approaches and modern scientific information. Likewise, digestive complications should not be ignored, which despite being easy to recognize and treat in most cases, are the main reason for consultation in felines of all ages. The veterinarian who wants to maintain a high level of praxis must, therefore, delve deeper into these issues, and this Postgraduate Diploma is the answer. An extensive teaching group has also included the latest advances in nephrology, an area that has become more important in recent years.





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*Get up to date with the latest diagnostic techniques for the urinary tract, blood tests with a focus on nephrology and monitoring diabetes mellitus in cats”*

Although, to a large extent, the feline pathologies that the veterinarian faces on a daily basis are relatively easy to treat, the continuous developments in the approach to complications of all kinds should never be ignored. Specifically, the areas of endocrinology, digestive system and feline urinary system have advanced considerably in recent years, offering tools and procedures that facilitate the veterinarian's daily work.

For this reason, TECH has brought together a team of experts in the approach to pathologies in these fields, in order to design a comprehensive and efficient academic program for all specialists. The professors have provided all the most current scientific and theoretical knowledge, complementing it with the necessary real clinical practice to give an even greater contextualization and usefulness to all the topics covered.

This Postgraduate Diploma covers the most important advances in digestive endoscopy, oral diseases, diabetes mellitus monitoring, adrenal gland disorders, urinalysis and techniques to address ureteral obstructions, among many other topics of great interest to any veterinarian who deals with feline patients on a regular basis.

Being aware of how difficult it can be to cover a wide area of knowledge in a context of increasing professional and personal responsibilities, TECH offers all the contents of this program completely online. This means that there are neither pre-set classes nor established schedules, being the veterinarians themselves the one who chooses how to distribute the entire teaching program. In this way, an ideal balance between academic, professional and personal facets is achieved.

This **Postgraduate Diploma in Endocrine, Digestive and Urinary System Pathology in Cats** 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 self-assessment can be used 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



*Bring into your daily practice the most important advances of recent years, including treatments for hyperthyroidism, feline dentistry and surgical treatments for ureteral obstruction"*

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*The professionals who make up the faculty of this program have prepared a plethora of audiovisual content and supplementary teaching materials to enrich your academic experience”*

*You won't go wrong by choosing the world's largest online academic institution to update your knowledge Endocrine, Digestive and Urinary System Pathology in Cats.*

*You will have full decision-making power in choosing how to allocate your study time, with no strings attached and no demands that will be an obstacle for you.*

The program's teaching staff includes professionals from the sector who contribute their work experience to this 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.



# 02 Objectives

The main objective of this educational program is to provide the specialist with an adequate understanding of endocrine, digestive and urinary pathologies. To this end, the teaching staff has listed numerous practical examples and real clinical cases throughout all the topics, making learning much more contextual and advanced. Thanks to such contextualization, the knowledge can be applied to daily practice almost immediately.







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*You will achieve your most ambitious professional updating goals thanks to the great professionalism and experience of the entire teaching staff "*



## General Objectives

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- Examine which are the less common signs that can lead to suspect a digestive pathology
- Determine the diagnostic method of digestive diseases and the tests of choice at any given time
- Generate advanced knowledge on hyperthyroidism, diabetes, hyperaldosteronism, hypercalcemia, acromegaly and Cushing in cats
- Establish the correct clinical and diagnostic approaches for each of the diseases above
- Identify the patient with urinary tract pathology
- Determine the diagnostic techniques for the assessment of these patients and when to use each of them



*You will have the full support of the world's largest online academic institution, TECH"*





## Specific Objectives

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### Module 1. 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 lipodosis
- ◆ 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 2. 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 3. 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

# 03

## Course Management

The teaching staff in charge of this Postgraduate Diploma has been selected by TECH, carefully evaluating their professional merits and clinical experience in the approach of all kinds of Pathologies of the Endocrine, Digestive and Urinary System in Cats. This experience has been key in the drafting of all the contents of the program, as they are enriched by incorporating the most recent scientific theory in Feline Medicine with the most successful clinical practice, providing a much more complete vision of the content to the veterinarian.





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*The most prestigious veterinarians in feline medicine have written this Postgraduate Diploma, knowing first-hand your professional needs and concerns"*

## 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

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- 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

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*Thanks to TECH you will be able to learn with the best professionals in the world"*

## Management



### Dr. Mayo Robles, Pedro Pablo

- Co-owner and head of the Internal Medicine Service of the Veterinary Hospital Nacho Menes, in Gijón
- 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

### Dr. López Pérez-Pellón, Margarita

- ♦ Veterinarian at Nacho Menes Veterinary Hospital, Los Madrazo La Vaguada Veterinary Rehabilitation and Physiotherapy Center, Los Madrazo Veterinary Hospital and Sierra de Madrid Veterinary Hospital
- ♦ Author of numerous papers and regular speaker at various congresses in the specialties of Feline Medicine and Veterinary Rehabilitation and Physiotherapy
- ♦ Degree in Veterinary Medicine from the University of Leon
- ♦ Postgraduate degree in Feline Medicine at IFEVET, Institute of Veterinary Specialties.
- ♦ Accredited by AVEPA in Veterinary Physical Rehabilitation
- ♦ Secretary of the Veterinary Physical Rehabilitation group of AVEPA
- ♦ Member of the expert committee on Feline Chronic Pain of Zoetis

### Dr. Fernández Ordóñez, Raquel

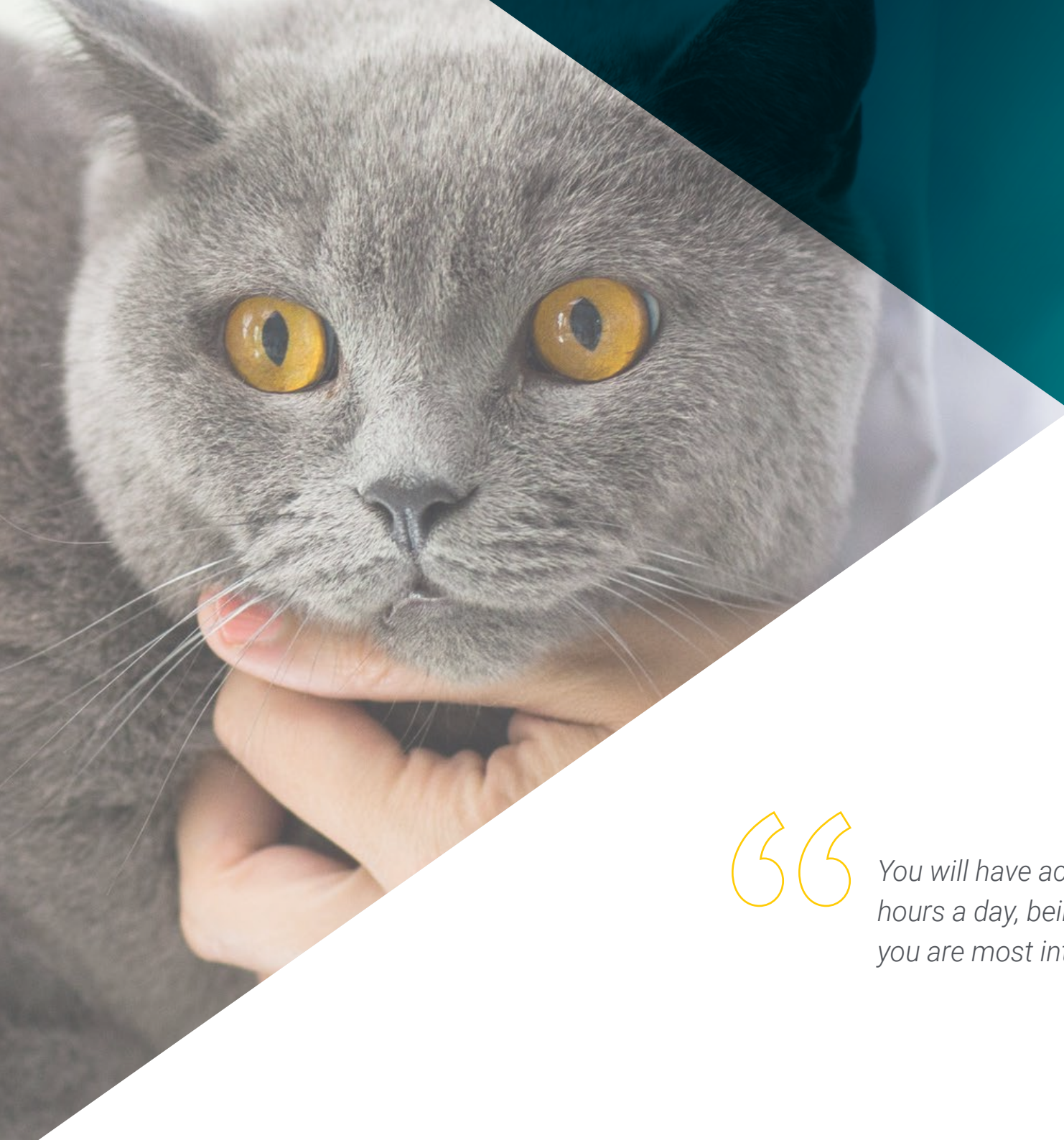
- ♦ Veterinarian in Internal Medicine and Hospitalization at the Veterinary Hospital Nacho Menes, in Asturias
- ♦ Veterinarian in charge of Emergency, Internal Medicine and Hospitalization at Anicura Marina Baja Veterinary Hospital, in Alicante
- ♦ Veterinarian in General and Preventive Medicine at Covadonga Veterinary Clinic, in Asturias
- ♦ Freelance veterinarian in 24h Emergency and General Medicine services in the city of Milan
- ♦ Degree in Veterinary Medicine from the University of Leon
- ♦ Specialization term in Emergency and Intensive Care at the Institute Veterinario di Novara, Italy

# 04

## Structure and Content

Normally, a Postgraduate Diploma of this length will require a large investment of study hours to assimilate all the concepts. Knowing this, TECH has lightened the teaching load of the program by including numerous multimedia resources, including interactive summaries, detailed videos on each topic, theoretical and practical exercises with which to test the knowledge and complementary readings of great interest to the professional. All this forms a didactic universe that provides additional motivation and interest in feline pathologies of the endocrine, digestive and urinary systems.





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*You will have access to the virtual classroom 24 hours a day, being able to access the content you are most interested in at different times”*

## Module 1. Digestive and Odontological Pathologies in the Feline Species

- 1.1. Esophageal Pathologies in the Cat
  - 1.1.1. Esophageal Pathologies in the Cat
    - 1.1.1.1. Clinical Presentation
    - 1.1.1.2. Diagnostic Approach
  - 1.1.2. Esophagitis and Esophageal Strictures
    - 1.1.2.1. Causes
    - 1.1.2.2. Diagnosis
    - 1.1.2.3. Medical Treatment
  - 1.1.3. Non-Invasive Treatment of Esophageal strictures
  - 1.1.4. Megaesophagus
- 1.2. Feline Chronic Enteropathy I. Clinical Signs
  - 1.2.1. Feline Chronic Enteropathy
  - 1.2.2. Overview, History and Clinical Signs
  - 1.2.3. Laboratory Assessment: Importance of Cobalamin.
  - 1.2.4. Abdominal Ultrasound
  - 1.2.5. Fine needle Aspiration
- 1.3. Feline Chronic Enteropathy II. Tests, Treatment and Prognosis
  - 1.3.1. Biopsy: Advantages and Disadvantages of the Different Techniques
  - 1.3.2. Interpretation of Biopsy Results
  - 1.3.3. Immunohistochemistry.
  - 1.3.4. Clonality Test
  - 1.3.5. Treatment and Prognosis of IBD and Low-Grade Lymphoma
- 1.4. Pancreatitis in Cats: ACVIM Consensus I
  - 1.4.1. Pancreatitis in Cats
  - 1.4.2. Causes
  - 1.4.3. Pathophysiology
  - 1.4.4. Clinical Signs
  - 1.4.5. Diagnosis
    - 1.4.5.1. Image
    - 1.4.5.2. Clinical Pathology.
    - 1.4.5.3. Cytology
    - 1.4.5.4. Histology
- 1.5. Pancreatitis in Cats: ACVIM II Consensus and Exocrine Pancreatic Insufficiency (EPI)
  - 1.5.1. Treatment of Acute Pancreatitis
  - 1.5.2. Treatment of Chronic Pancreatitis
  - 1.5.3. EPI. Exocrine Pancreatic Insufficiency
    - 1.5.3.1. EPI. Causes
    - 1.5.3.2. EPI. Clinical Signs
    - 1.5.3.3. EPI. Laboratory Diagnosis, Imaging and Histology IPE. Treatment
- 1.6. Cholangitis and Hepatic Lipidosis
  - 1.6.1. Neutrophilic Cholangitis
  - 1.6.2. Lymphocytic Cholangitis
  - 1.6.3. Trematode Cholangitis
  - 1.6.4. Hepatic Lipidosis
  - 1.6.5. Liver Sampling
- 1.7. Surgery of the Gastrointestinal Tract in the Cat
  - 1.7.1. Gastrointestinal Surgery.
  - 1.7.2. Surgical Approach to the Abdominal Cavity
  - 1.7.3. Anatomy of the Digestive Tract Wall
  - 1.7.4. Scarring: Process and Importance of Suture.
  - 1.7.5. Enterotomy
  - 1.7.6. Enterectomy
  - 1.7.7. Alternatives to Suture for Anastomosis
- 1.8. Feline Dentistry I. Examination, Diagnosis and Recording
  - 1.8.1. Feline Dentistry
  - 1.8.2. Basic and Advanced Equipment
  - 1.8.3. Oral Anatomy
  - 1.8.4. Examination, Diagnosis and Recording
  - 1.8.5. Oral Radiology
- 1.9. Feline Dentistry II. Pathologies
  - 1.9.1. Resorptive Lesions
  - 1.9.2. Dental Fractures
  - 1.9.3. Orofacial Pain Syndrome
  - 1.9.4. Other Pathologies



- 1.10. Feline Chronic Gingivostomatitis
  - 1.10.1. Etiology
  - 1.10.2. Clinical Signs
  - 1.10.3. Diagnosis
  - 1.10.4. Medical and Surgical Treatment
  - 1.10.5. Mesenchymal Stem Cell Therapy
  - 1.10.6. Laser Therapy

## Module 2. Endocrinopathies in the Feline Species

- 2.1. Acromegaly.
  - 2.1.1. Acromegaly.
  - 2.1.2. Pathogenesis.
  - 2.1.3. Clinical Manifestations
  - 2.1.4. Diagnostic tests
  - 2.1.5. Treatment
  - 2.1.6. Prognosis
- 2.2. Diabetes Mellitus: Treatment and Monitoring
  - 2.2.1. Insulin Treatment
  - 2.2.2. Non-Insulin Therapies
  - 2.2.3. Nutritional Treatment
  - 2.2.4. Monitoring
    - 2.2.4.1. Fructosamine
    - 2.2.4.2. Glucose in Urine
    - 2.2.4.3. Methods and Systems for Blood Glucose Monitoring
    - 2.2.4.4. Glycosylated Hemoglobin
- 2.3. Unstable Diabetic Cat
  - 2.3.1. Unstable Diabetic Cat
  - 2.3.2. Insulin: Type and Dosage
  - 2.3.3. Somogyi Effect
  - 2.3.4. Concomitant Diseases
  - 2.3.5. Owner-Dependent Factors
  - 2.3.6. Remission of Diabetes

- 2.4. Diabetic Ketoacidosis and Hyperosmolar Syndrome
  - 2.4.1. Pathophysiology
  - 2.4.2. Clinical and Laboratory Alterations
  - 2.4.3. Treatment
    - 2.4.3.1. Fluid Therapy.
    - 2.4.3.2. Supplements to Fluid Therapy
    - 2.4.3.3. Insulin Therapy
      - 2.4.3.3.1. Intravenous Insulin
      - 2.4.3.3.2. Intramuscular Insulin
  - 2.4.4. Complementary Treatment
  - 2.4.5. Prognosis
- 2.5. Calcium Disorders
  - 2.5.1. Calcium Physiology and Regulation
  - 2.5.2. Hypercalcemia
    - 2.5.2.1. Differential Diagnosis
    - 2.5.2.2. Diagnostic tests
    - 2.5.2.3. Treatment
  - 2.5.3. Hypocalcemia
    - 2.5.3.1. Differential Diagnosis
    - 2.5.3.2. Diagnostic tests
    - 2.5.3.3. Treatment
- 2.6. Hyperthyroidism
  - 2.6.1. Epidemiology of Hyperthyroidism
  - 2.6.2. Clinical Signs and Laboratory Abnormalities
  - 2.6.3. Thyroid Hormone Alterations
  - 2.6.4. Complementary Diagnostic Tests
- 2.7. Treatment of Hyperthyroidism
  - 2.7.1. Considerations Prior to Pharmacological Treatment
  - 2.7.2. Pharmacological Treatment and Monitoring
  - 2.7.3. Other treatments
    - 2.7.3.1. Surgical Thyroidectomy
    - 2.7.3.2. Radioactive Iodine
    - 2.7.3.3. Diet
  - 2.7.4. Causes of Treatment Failure

- 2.8. Hyperthyroidism, Renal Disease and Hypertension
  - 2.8.1. Relationship Between Hyperthyroidism and Chronic Renal Disease
  - 2.8.2. Hyperthyroidism and Laboratory Tests of Renal Functionality
  - 2.8.3. Relationship Between Hyperthyroidism and Blood Pressure
  - 2.8.4. Treatment of Hyperthyroid Cats with CKD
- 2.9. Hyperadrenocorticism
  - 2.9.1. Etiology and Clinic
  - 2.9.2. Diagnosis
    - 2.9.2.1. Laboratorial Alterations
    - 2.9.2.2. Endocrine Tests
    - 2.9.2.3. Diagnostic Imaging
  - 2.9.3. Treatment
  - 2.9.4. Prognosis
- 2.10. Adrenal Tumors
  - 2.10.1. Adrenal Tumors
  - 2.10.2. Hyperaldosteronism
  - 2.10.3. Other Adrenal Tumors
    - 2.10.3.1. Pheochromocytoma
    - 2.10.3.2. Non-Functioning Adrenal Tumor
    - 2.10.3.3. Sex Hormone Secreting Adrenal Tumors

### Module 3. Nephrology and Urology in the Feline Species

- 3.1. Diagnostic Methods I. Assessment
  - 3.1.1. Assessment of Renal Size
  - 3.1.2. Blood Biochemistry
  - 3.1.3. Diagnostic Imaging Techniques in the Urinary Tract
  - 3.1.4. Renal Biopsy.
- 3.2. Diagnostic Methods II. Urinalysis
  - 3.2.1. Urinalysis
  - 3.2.2. Timing, Collection Technique and Handling
  - 3.2.3. Interpretation
  - 3.2.4. Urine Culture
  - 3.2.5. UPC

- 3.3. Acute Renal Disease
  - 3.3.1. Causes
  - 3.3.2. Pathophysiology
  - 3.3.3. Staging and Management According to IRIS Guidelines
  - 3.3.4. Dialysis
  - 3.3.5. Renal Transplant
- 3.4. Chronic Renal Insufficiency I. Causes and Diagnosis
  - 3.4.1. Causes
  - 3.4.2. Clinical Findings
  - 3.4.3. IRIS Guides: What's New
  - 3.4.4. Importance, Diagnosis, and Treatment of Proteinuria: ACVIM Consensus
  - 3.4.5. Systemic Arterial Hypertension: Diagnosis and Treatment
- 3.5. Chronic Renal Insufficiency II. Specific and Non-Specific Diseases
  - 3.5.1. Management of Specific Diseases
  - 3.5.2. Non-specific Therapeutic Strategies
  - 3.5.3. Importance of Nutrition
- 3.6. Feline Idiopathic Cystitis
  - 3.6.1. Importance, History and Risk Factors
  - 3.6.2. Pathophysiology
  - 3.6.3. Clinical Signs
  - 3.6.4. Diagnosis
  - 3.6.5. Treatment
- 3.7. Urolithiasis
  - 3.7.1. Prevalence
  - 3.7.2. Methods of Extraction
  - 3.7.3. Struvite Urolithiasis
  - 3.7.4. Urolithiasis by Oxalate
  - 3.7.5. Recommendations According to the ACVIM Consensus
- 3.8. Urethral Obstruction
  - 3.8.1. Urethral Obstruction
  - 3.8.2. Stabilization
  - 3.8.3. Decompression
  - 3.8.4. Medical Treatment
  - 3.8.5. Surgical Treatment: Perineal Urethrostomy
- 3.9. Ureteral Obstruction.
  - 3.9.1. Ureteral Obstruction.
  - 3.9.2. Causes
  - 3.9.3. Clinical Presentation
  - 3.9.4. Diagnosis
  - 3.9.5. Medical Treatment
  - 3.9.6. Surgical Treatment: SUB vs. Stent vs. Ureterotomy.
- 3.10. Others Urinary System Pathologies
  - 3.10.1. Neoplasms
  - 3.10.2. Trauma Lesions
  - 3.10.3. Urinary Incontinence.



*You will visually and theoretically update your knowledge on feline idiopathic crises, hypertension, calcium disorders and chronic gingivostomatitis"*

# 05 Methodology

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

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







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

## At TECH we use the Case Method

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

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the actual conditions in a veterinarian's professional practice.

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

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

1. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. The feeling that the effort invested is effective becomes a very important motivation for veterinarians, which translates into a greater interest in learning and an increase in the time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.



*Veterinarians will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

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

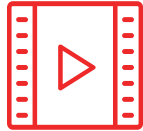
*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Latest Techniques and Procedures on Video

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



#### Interactive Summaries

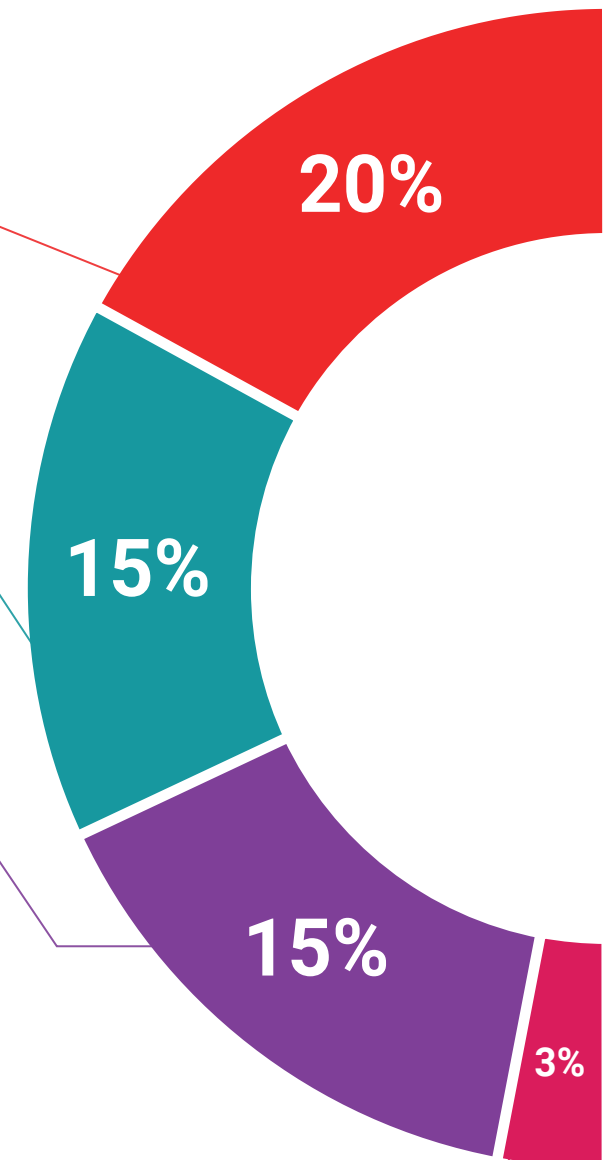
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

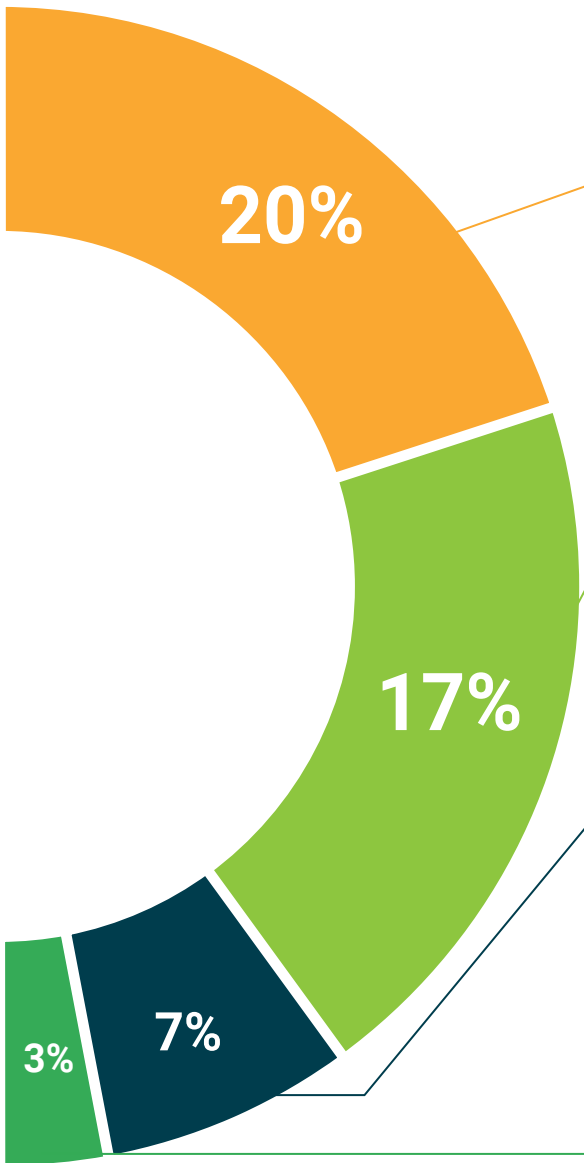
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

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

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



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



# 06 Certificate

The Postgraduate Diploma in Endocrine, Digestive and Urinary System Pathology in Cats guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.





“

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

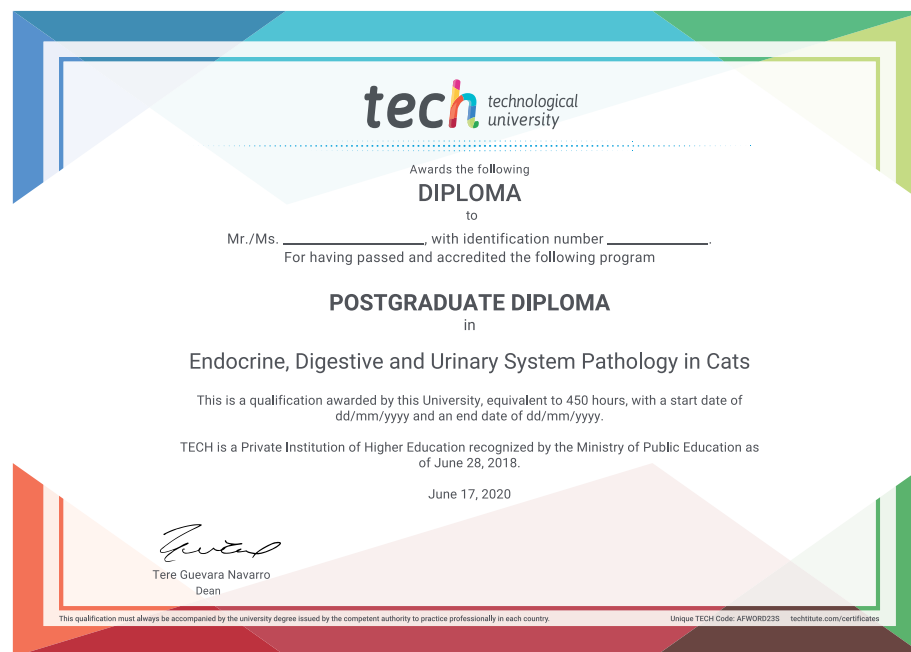
This **Postgraduate Diploma in Endocrine, Digestive and Urinary System Pathology in Cats** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma**, issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Endocrine, Digestive and Urinary System Pathology in Cats**

Official N° of Hours: **450 h.**



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



**Postgraduate Diploma**  
Endocrine, Digestive  
and Urinary System  
Pathology in Cats

- » Modality: **online**
- » Duration: **6 months**
- » Certificate: **TECH Technological University**
- » Dedication: **16h/week**
- » Schedule: **at your own pace**
- » Exams: **online**

# Postgraduate Diploma

## Endocrine, Digestive and Urinary System Pathology in Cats

