

Postgraduate Certificate Cardiorespiratory Medicine and Surgery in Cats





Postgraduate Certificate Cardiorespiratory Medicine and Surgery in Cats

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

Website: www.techtute.com/in/veterinary-medicine/postgraduate-certificate/cardiorespiratory-medicine-surgery-cats

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01

Introduction

Cardiorespiratory pathologies are, in the feline patient, a diagnostic and therapeutic challenge. On many occasions, the clinical signs can be similar and silent until advanced stages, which in many cases means that when they are presented in consultations they are in advanced stages of the pathology. Therefore, it is essential that veterinarians update their knowledge in cardiorespiratory pathologies and apply it in their daily practice.



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Specialize Cardiorespiratory Medicine and Surgery in Cats with the most complete program on the market and learn to interpret diagnostic imaging tests”

Currently, surgical and endovascular therapy and new therapeutic targets are successfully applied in feline patients. In the same way that new non-invasive diagnostic methods such as echocardiography, markers and tests can be applied in daily clinical practice, which in other times were only used in more advanced centers.

Although many professionals do not consider feline medicine as a specialty, the nature of the cat means that, in order to prevent any problem, to approach all pathologies adequately and to solve the most complex cases, it is essential to have a deep knowledge of this species, which makes specialization essential.

Each topic is comprehensively organized, both for diagnosis and for treatment and monitoring, encompassing those tests that are most recommended for the diagnosis of each pathology, the medical and surgical treatment options available, nutritional management and anesthetic considerations that feline patients with specific conditions may have.

As it is an online program, the student is not constrained by fixed schedules or the need to move to another physical location, but rather, they can access the contents at any time of the day, allowing them to balance their professional or personal life with their academic life as they please.

This **Postgraduate Certificate in Cardiorespiratory Medicine and Surgery 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 Clinic
- ◆ 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
- ◆ Developments in Feline Medicine and Clinic
- ◆ Practical exercises where the self-assessment process can be carried out to improve learning
- ◆ Special emphasis on innovative methodologies in feline medicine and clinical practice
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



Learn how to perform a complete physical examination with this intensive program taught by prestigious veterinarians”

“

Incorporate the latest advances in Cardiorespiratory Medicine and Surgery in Cats into your daily practice. It's the perfect opportunity to advance your career”

Incorporate the latest surgical and endovascular techniques into your daily practice.

Combine your studies with your professional work. You decide where and when thanks to its online modality.

Its teaching staff includes professionals belonging to the veterinary field, who contribute their expertise to this specialization, 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 an immersive learning experience designed to prepare for real-life 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. To do so, the professional will have the help of an innovative interactive video system created by recognized experts in Feline Medicine and Clinic, with great teaching experience.



02 Objectives

The high-level's program is oriented to facilitate the performance of the veterinary professionals in their daily practice, with the latest advances and most innovative treatments in the sector. In this way, you will achieve your professional updating objectives in an efficient and fast way.



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This program has the best didactic material, which will enable a contextual study that will facilitate your learning”



General Objectives

- Recognize and explore the patient with cardiorespiratory pathology
- Make a differential diagnosis and complementary tests for the diagnostic conclusion
- Apply medical and surgical treatment techniques for each specific case



Take the step to get up to date in the most relevant aspects of Cardiorespiratory Medicine and Surgery in Cats”





Specific Objectives

- ◆ 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

03

Course Management

This program includes in its teaching staff experts of reference in Feline Medicine and Surgery, who bring into this program the experience of their work. Renowned professionals have joined forces to offer you this high-level program.





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Don't miss the opportunity to learn with professionals of recognized prestige”

International Guest Director

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

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

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



Dr. Perry, Karen

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

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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 from the University of León
- ◆ Postgraduate degree in Anesthesia and Soft Tissue Surgery from the Autonomous University of Barcelona

Dr. Álvarez Mansur, Patricia

- ◆ Founder, Co-owner and responsible for the areas of Internal Medicine, Feline Medicine and diagnostic imaging of Alaró Veterinaria, with distinction Cat Friendly Clinic accreditation silver level of the ISFM
- ◆ Degree in Veterinary Medicine from the University of Las Palmas de Gran Canaria
- ◆ Term at the Clinica Privata San Marco in Padua, Italy
- ◆ Term at the Oncology Department of the Royal Veterinary College of London, United Kingdom
- ◆ Diploma in Clinical Cardiology in Small Animals at the Complutense University of Madrid

04

Structure and Content

The contents have been designed by distinguished professionals in the sector, with extensive experience and recognized prestige in the profession, who will guide and advise you throughout the training process.





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*Delve and modernize by evaluating
new developments in feline
congenital cardiac pathologies”*

Module 1. Feline Cardiorespiratory System

- 1.1. Clinical Assessment of the Cardiorespiratory System
 - 1.1.1. Medical History
 - 1.1.2. Physical Examination of the Patient with Respiratory Distress
 - 1.1.3. Differentiating a Respiratory Problem from a Cardiac Problem
 - 1.1.4. Emergency Treatment of the Patient with Respiratory Distress
- 1.2. Feline Congenital Cardiac Pathology
 - 1.2.1. Statistics
 - 1.2.2. Physical Examination of the Kitten with Cardiac Pathology
 - 1.2.3. Ventricular and Atrial Septal Defects
 - 1.2.4. Aortic Stenosis
 - 1.2.5. Pulmonary Stenosis.
 - 1.2.6. Persistent Ductus Arteriosus
 - 1.2.7. Supravalvular Mitral Stenosis
 - 1.2.8. Congenital Pathology of Atrioventricular Valves
 - 1.2.9. Tetralogy of Fallot
 - 1.2.10. Special Cardiac Studies (Angiography, TAC Contrast Echocardiography, Transesophageal Echocardiography).
- 1.3. Acquired Cardiac Pathology I. Mycardiopathies
 - 1.3.1. ACVIM Consensus on Cardiomyopathies
 - 1.3.2. Hypertrophic Phenotype Cardiomyopathy
 - 1.3.3. Restrictive Cardiomyopathy Phenotype
 - 1.3.4. Cardiomyopathy of Dilated Phenotype
 - 1.3.5. Arrhythmogenic Right Ventricular Cardiomyopathy
 - 1.3.6. Non-Specific Cardiomyopathy
 - 1.3.7. Myocarditis, Steroid-Associated Cardiac Failure, Endocrinopathies and Heart Disease



- 1.4. Acquired Cardiac Pathology II: Hypertension, Heart Failure, Arrhythmias.
 - 1.4.1. Pulmonary Hypertension
 - 1.4.2. Feline Dirofilariosis: Cardiac or Respiratory Problem
 - 1.4.3. Arrhythmias in the Feline Patient
 - 1.4.4. Feline Hypertensive Pathology
 - 1.4.5. Particularities of Congestive Heart Failure in the Cat
 - 1.4.6. Treatment of Feline Congestive Heart Failure
- 1.5. Thromboembolism
 - 1.5.1. Risk Factors
 - 1.5.2. Pulmonary Embolism
 - 1.5.3. Aortic Thromboembolism
 - 1.5.4. Other Thromboembolism
 - 1.5.5. Medical Treatment
 - 1.5.6. Surgical Management
- 1.6. Respiratory Pathology I: Upper Respiratory Tract
 - 1.6.1. History and Physical Examination Data
 - 1.6.2. Clinical Signs
 - 1.6.3. Diagnostic Considerations: Non-Invasive Tests, Imaging, Biopsy, Nasal Flushing, Exploratory Rhinotomy
 - 1.6.4. Main Upper Airway Pathologies
 - 1.6.5. Medical Treatment of the Main Pathologies
- 1.7. Respiratory Pathology II: Lower Respiratory Tract
 - 1.7.1. Clinical Signs
 - 1.7.2. Diagnosis: Radiology, CT, Bronchoscopy.
 - 1.7.3. Indications and Performance of Bronchoalveolar Lavage.
 - 1.7.4. Asthma and Chronic Bronchitis
 - 1.7.5. Other Pulmonary Pathologies
 - 1.7.6. Management of Respiratory Polytraumatized (Pneumothorax, Rib Fractures, Pulmonary Hemorrhages)
- 1.8. Respiratory Pathology III: Pleural Space
 - 1.8.1. Stabilization and Initial Diagnosis of the Patient with Pleural Effusion
 - 1.8.2. Analysis of Pleural Effusion
 - 1.8.3. Causes of Pleural Effusion
 - 1.8.4. Technique of Thoracentesis and Pleural Drainage Tube Implantation
- 1.9. Surgical Approach to Feline Cardio-respiratory Pathology
 - 1.9.1. Thoracic Anatomy.
 - 1.9.2. Nasopharyngeal Polyps
 - 1.9.3. Nasopharyngeal Stenosis.
 - 1.9.4. Brachycephalic Syndrome
- 1.10. Surgical Approach to Feline Cardiorespiratory Pathology. Treatment
 - 1.10.1. Surgery in the Patient with Pulmonary Neoplasm.
 - 1.10.2. Surgical Treatment of Pleural Effusions: PleuralPort, Shunts, Omentalizations.
 - 1.10.3. Hernia Peritoneopericardiodiafragmatica
 - 1.10.4. Diaphragmatic Hernia
 - 1.10.5. Pectum Excavatum



This specialization will allow you to comfortably advance in your career

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. 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.

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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

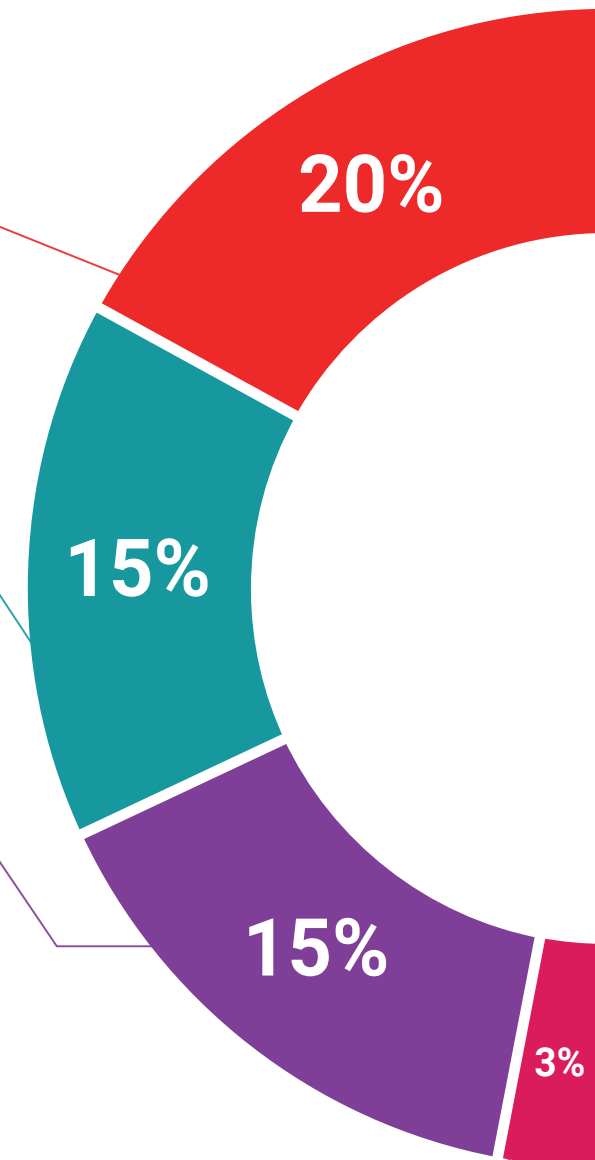
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

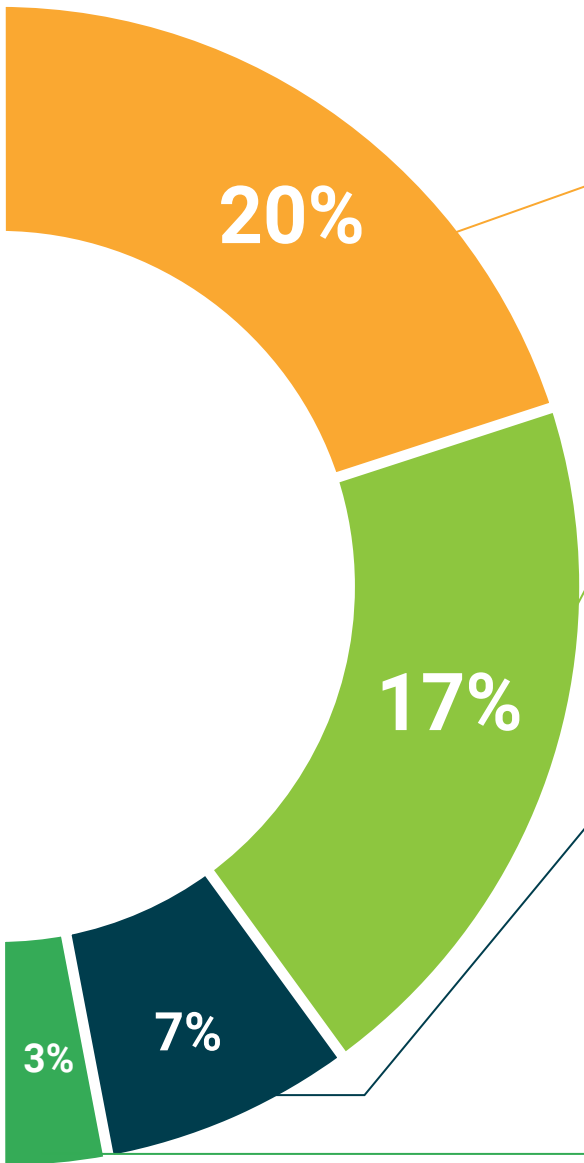
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Certificate in Cardiorespiratory Medicine and Surgery in Cats guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Cardiorespiratory Medicine and Surgery in Cats** contains the most complete and up-to-date program on the market.

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

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

Title: **Postgraduate Certificate in Cardiorespiratory Medicine and Surgery in Cats**
Official N° of Hours: **150 h.**



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

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development language
virtual classroom



Postgraduate Certificate Cardiorespiratory Medicine and Surgery in Cats

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