



Postgraduate Diploma Heart Diseases in Small Animals

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 24 ECTS

» Schedule: at your own pace

» Exams: online

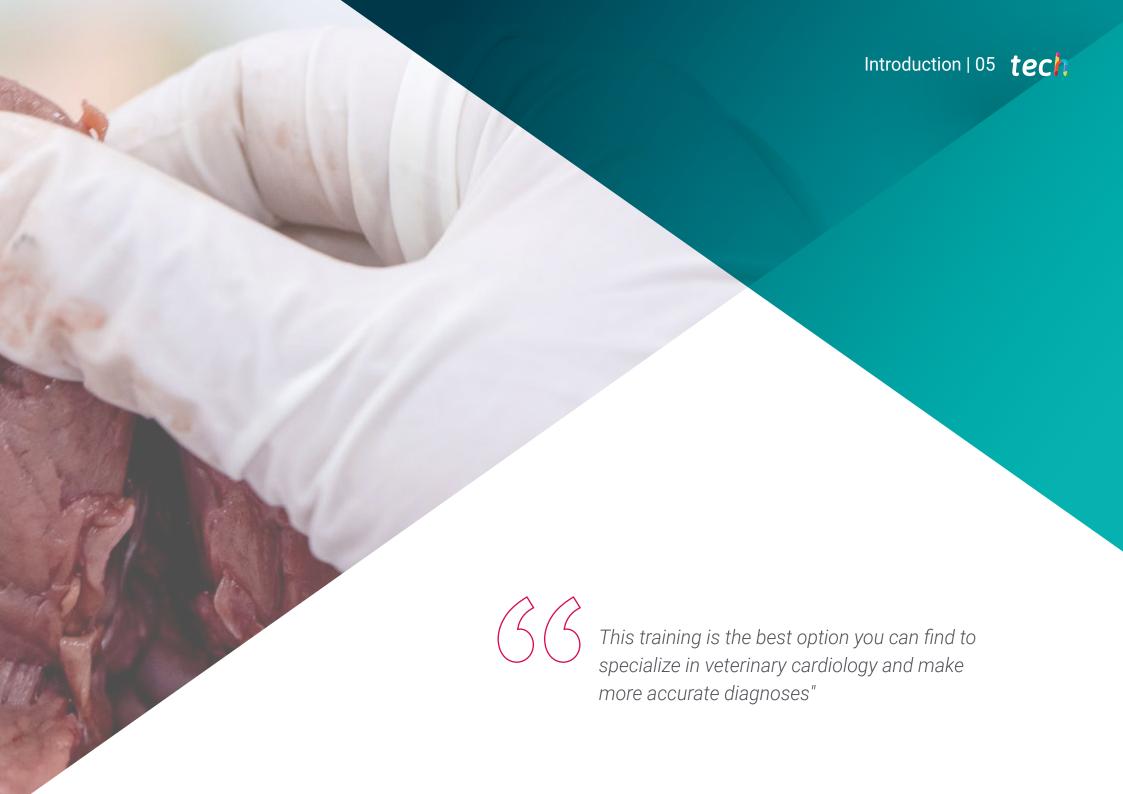
Website: www.techtitute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-heart-diseases-small-animals

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06 Certificate





tech 06 | Introduction

Cardiology of Small Animals is a subspecialty of Internal Medicine with a great development in the last decades. The teachers of this Postgraduate Diploma are at the forefront of the latest diagnostic techniques and treatment of cardiovascular diseases in small animals. Thanks to their specialized training, they have developed a useful, practical program adapted to the current reality, a reality that is becoming more and more demanding.

This comprehensive program compiles the different cardiovascular diseases affecting small animals. It starts with a solid development of the basics of cardiovascular physiology, pathophysiology and pharmacology, so often forgotten and so important and useful in daily clinical practice, followed by the optimization of clinical examination and diagnostic tests, and ending with the latest therapeutic protocols and patient monitoring procedures.

This training specializes the general practitioner in an area that is increasingly in demand, partly because of its frequency, partly because of the need for specialization that this area demands

In all the modules, a gradual exposition of physiological and pathophysiological knowledge has been established, a development of the protocols for approaching patients with cardiovascular diseases with diagnostic and treatment algorithms, as well as the monitoring that should be done in these patients, since many of these diseases are chronic. It compiles the author's experience, without forgetting scientific rigor and the most important updates based on evidence. It develops the diseases, the action protocols and takes into account the integral approach to the patient, considering the disease, the patient and the owner in line with evidence-based medicine.

All topics incorporate numerous multimedia material: photos, videos and diagrams, so important in a specialty where imaging techniques are of great importance. Finally, as it is an online program, the students are not conditioned by fixed schedules, nor do they need to move to another physical location. All of the content can be accessed at any time of the day, so you can balance your working or personal life with your academic life.

This **Postgraduate Diploma in Heart Diseases in Small Animals** contains the most complete and up-to-date educational program on the market. The most important features of the program include:

- The development of case studies presented by experts in Heart Diseases in Small Animals.
- The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- New developments in Heart Diseases in Small Animals
- Practical exercises where the self-assessment process can be carried out to improve learning
- Special emphasis on innovative methodologies in Heart Diseases in Small Animals.
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work.
- Content that is accessible from any fixed or portable device with an Internet connection.



Don't miss the opportunity to study this Postgraduate Certificate with us. It's the perfect opportunity to advance your career and stand out in an industry with high demand for professionals"



This Postgraduate Diploma is the best investment you can make in selecting a refresher program to update your veterinary knowledge in cardiology"

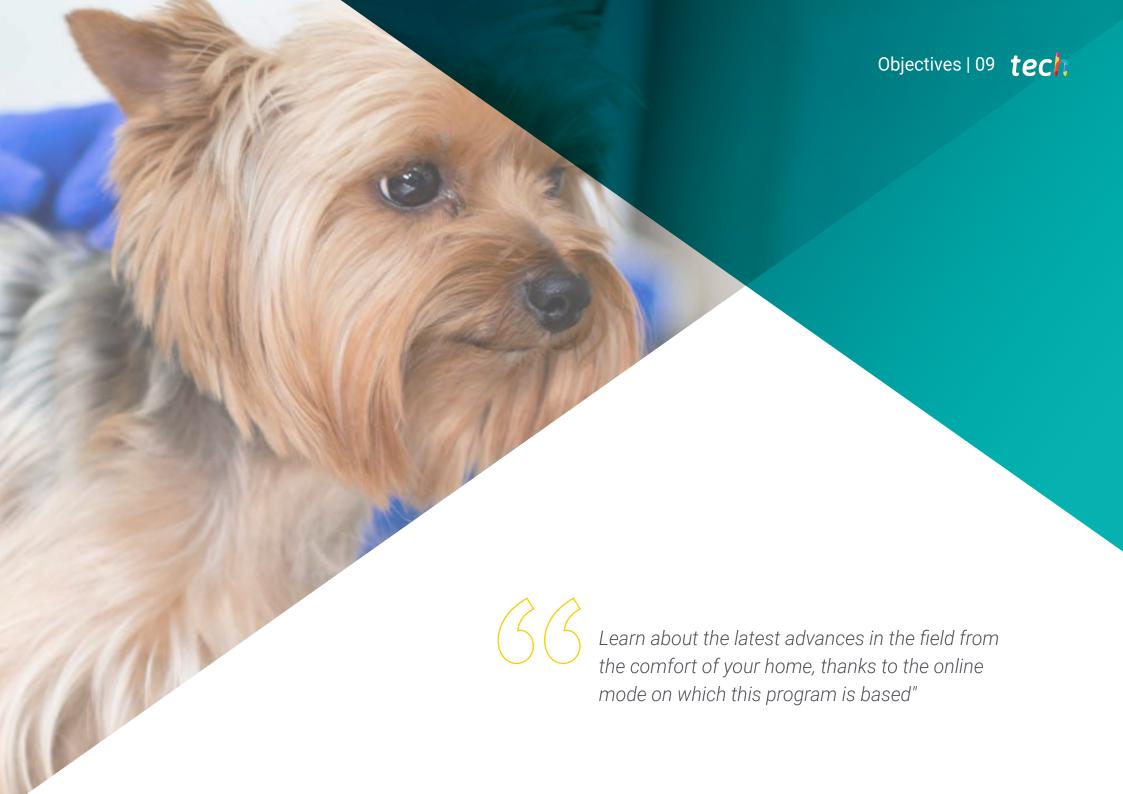
The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive program programmed to train in real situations.

This program is designed around Problem-Based Learning, whereby the specialist must try to solve the different professional practice situations that arise during the academic year. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned experts with extensive experience in Heart Diseases in Small Animals.

This training comes with the best didactic material, providing you with a contextual approach that will facilitate your learning.





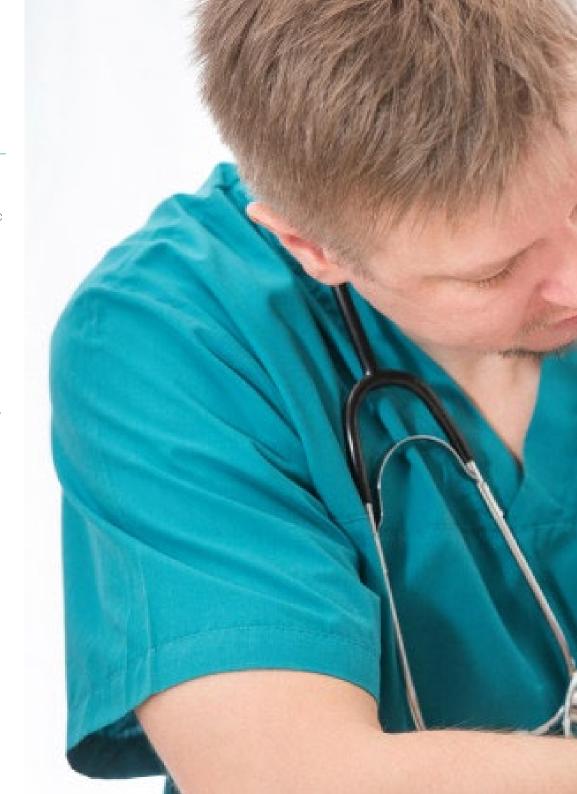


tech 10 | Objectives



General Objectives

- Develop in detail the diagnosis of chronic degenerative valve disease.
- Assess treatments and new therapies that have been developed in recent years for chronic degenerative valve disease.
- Analyze the assessment and treatment of patients with pericardial effusion and patients with bacterial endocarditis.
- Consolidate the phenotypic characteristics that define each of the cardiomyopathies affecting small animals.
- Generate specialized knowledge in the diagnosis of the etiological causes that can lead to a cardiomyopathy phenotype.
- Determine the possible hemodynamic consequences of cardiomyopathies.
- Develop an individualized treatment plan to maximize the quality of life and life expectancy of affected patients.
- Analyze the embryological mechanisms that give rise to the most frequent congenital alterations.
- Reinforce the need for early diagnosis of congenital disease.
- Anticipate the possible hemodynamic consequences of these alterations, which may be treatable.





Objectives | 11 tech

- · Consolidate knowledge of interventional techniques.
- Develop an appropriate diagnostic protocol to avoid missing the presence of secondary cardiac disease or systemic disease that may affect the cardiovascular system.
- Anticipate possible cardiovascular complications in the course of other primary pathologies.
- Integrate information from internal medicine with information from cardiology to design individualized treatment plans.
- Simultaneous monitoring of cardiovascular disease and primary disease in order to prioritize etiologic therapies and reduce polypharmacy.



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

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Module 1 Acquired Heart Diseases Chronic Mitral and Tricuspid Valve Disease Endocarditis Pericardial Alterations Cardiac Masses

- Generate specialized knowledge on the epidemiology of chronic degenerative valve disease.
- Determine an assessment protocol in chronic degenerative valve disease.
- Analyze the different tests used in the diagnosis of chronic degenerative valve disease.
- Compile the information available on the therapy of chronic degenerative valve disease
- Propose a diagnostic and therapeutic algorithm for pericardial effusion.
- Develop the pericardioventesis technique.
- Examine the etiology of bacterial endocarditis.
- Determine a diagnostic and therapeutic algorithm for bacterial endocarditis.

Module 2 Acquired Heart Diseases Cardiomyopathies

- Develop a diagnostic protocol for the phenotype of canine dilated cardiomyopathy and the features that may raise suspicion of secondary cardiomyopathy.
- Systematically assess the possible presence of etiologic causes of canine dilated cardiomyopathy that can be treated.
- Develop an assessment of the risk of negative events in cases of dilated and arrhythmogenic right cardiomyopathy.
- Develop an individualized treatment protocol to maximize the patient's life expectancy, and sometimes reverse the phenotype.
- Specify the echocardiographic criteria for the diagnosis of feline hypertrophic cardiomyopathy.
- Generate advanced knowledge on the latest feline hypertrophic cardiomyopathy staging model for clinical decision making.
- Analyze the differentiating characteristics of other types of feline cardiomyopathies.

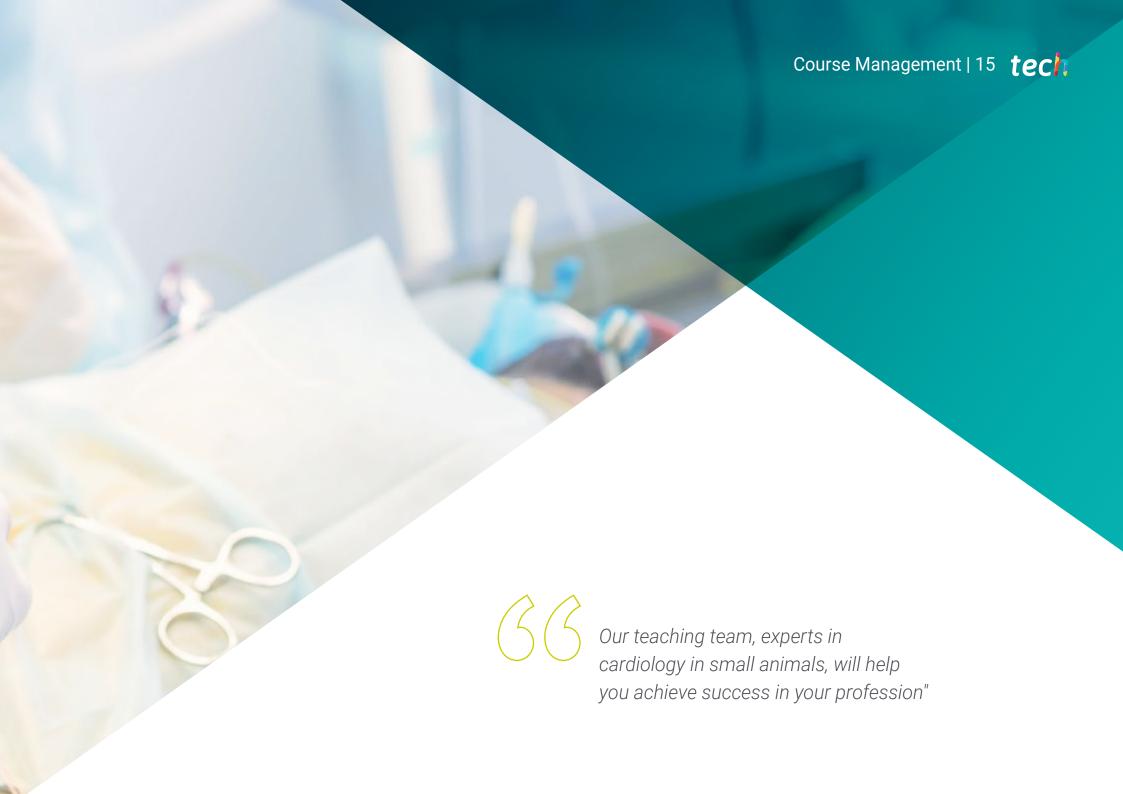
Module 3 Congenital Heart Disease

- Generate specialized knowledge for a correct understanding of the embryological mechanisms of each of the pathologies that may predispose to the presence of
- several simultaneous alterations.
- Establish the anatomical characteristics of patent ductus arteriosus that advise surgical or interventional treatment.
- Review the various surgical and interventional techniques available for the treatment of pulmonary stenosis.
- Develop available treatment modalities for aortic stenosis.
- Compile available diagnostic techniques to determine the direction of shunt in intra- and extra-chamber communications
- Establish anatomical criteria to differentiate between congenital and acquired heart valve processes.
- Predict the hemodynamic consequences of vascular defects or multiple defects.

Module 4 Pulmonary and Systemic Hypertension, Systemic Diseases with Cardiac Repercussions and Anesthesia in the Cardiac Patient

- Deepen the understanding of the pathophysiological mechanisms that may lead to the development of pulmonary hypertension.
- Identify echocardiographic features that may be helpful in the diagnosis of pulmonary hypertension in the presence and absence of tricuspid regurgitation.
- Quantify the damage generated in target organs by systemic hypertension.
- Familiarity with the most frequently used drugs for the treatment of systemic hypertension and monitoring of therapy.
- Consolidate the treatment protocols most commonly used in filariasis, and identify the differences in the pathophysiology of the disease in dogs and cats.
- Monitoring response to etiologic treatment of hyperthyroidism in feline cardiac anatomy.
- Assess the hemodynamic consequences of metabolic diseases that induce hypercoagulable state.
- Assess the need for surgical intervention and its risks in cases of pheochromocytoma.
- Consider the advantages and disadvantages of antiarrhythmic treatments in cases of splenic disease or gastric dilatation/torsion syndrome.
- Identify the hemodynamic consequences of electrolyte disturbances.





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Manage-



Dr. Martínez Delgado, Rubén

- Since 2017, he has headed the Cardiology service at the Estoril Veterinary Hospital, Móstoles
- Collaborates with the Veterinary Hospital of the UCM developing the part of minimally invasive interventional cardiology.
- From 2010 to the present, he has been working as an ambulatory Cardiologist in many centers in Madrid and surrounding areas
- Graduated in Veterinary Medicine in 2008 from the Complutense University of Madrid (UCM).
- Internships in Surgery (2006) and in Cardiology (2007-2008) at UCM.
- 2008 collaboration project in minimally invasive interventional cardiology in the cardiology service of the UCM.
- From 2009 to 2010 he completed the Intership of the official internship of the European College of Internal Medicine (ECVIM) at the Gran Sasso Veterinary Clinic in Milan (a reference center in cardiology and ultrasound diagnosis and a center specialized in interventional cardiology).
- He is a member of AVEPA and GECAR and a regular attendee of congresses in the specialty of Cardiology and Diagnostic Imaging. He has also presented several lectures on electrocardiography and echocardiography.

Professors

Dr. Cortés Sánchez, Pablo M

- Externship in Cardiology at the University of Glasgow, as a result of which he began a Master's Degree in Veterinary Medicine (MVM), which he is currently pursuing.
- Head of the Cardiology service and co-director of the Intensive Care Unit (ICU) of the Estoril Veterinary Hospital, Móstoles, Madrid (2007 to 2017).
- Head of Cardiology service and part of the ICU team at Braid Vets, Edinburgh UK (January 2018 to July 2019).
- Graduated in veterinary medicine from the Complutense University of Madrid (UCM) in 2007, including a year of scholarship studies at the University of Southern Indiana (USA).
- Internships in Internal Medicine (2006) and Cardiology at UCM (2007).
- Master's Degree in Cardiology for generalists by ISVPS (International School of Veterinary Postgraduate Studies) in 2011.
- Master's Degree in Veterinary Medicine (MVM) at present
- Internship in Cardiology at the University of Liverpool (2017), with completion of a research project in mitral disease pending publication.
- Speaker in cardiology, radiology, intensive care and anesthesia, sponsored by prestigious firms, both in Spain and in the UK
- Member of GECAR (Cardiology and Respiratory System Specialists Group), and certified in echocardiography by this institution, for which he is currently developing the official echocardiographic screening guidelines for congenital heart disease.
- Registered member of the Royal College of Veterinary Surgeons (RCVS), UK, which has certified him as an Advanced Veterinary Practitioner.

Dr. Ortiz Díez, Gustavo

- PhD and Undergraduate Degree in Veterinary Medicine from the UCM
- Master's Degree in Research Methodology in Health Sciences from the UAB
- Specialist in Traumatology and Orthopedic Surgery in Companion Animals by the UCM.
 Degree in Small Animal Cardiology from the UCM
- Member of the scientific committee and current president of GECIRA (AVEPA's Soft Tissue Surgery Specialty Group)
- Associate Professor, Department of Animal Medicine and Surgery, Faculty of Veterinary Medicine, Complutense University of Madrid.
- Head of Small Animal Unit at Complutense Clinical Veterinary Hospital.

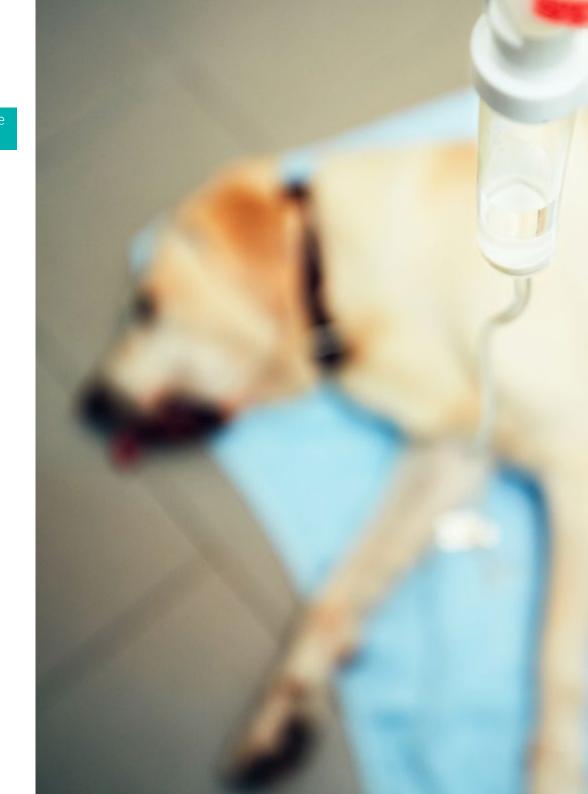


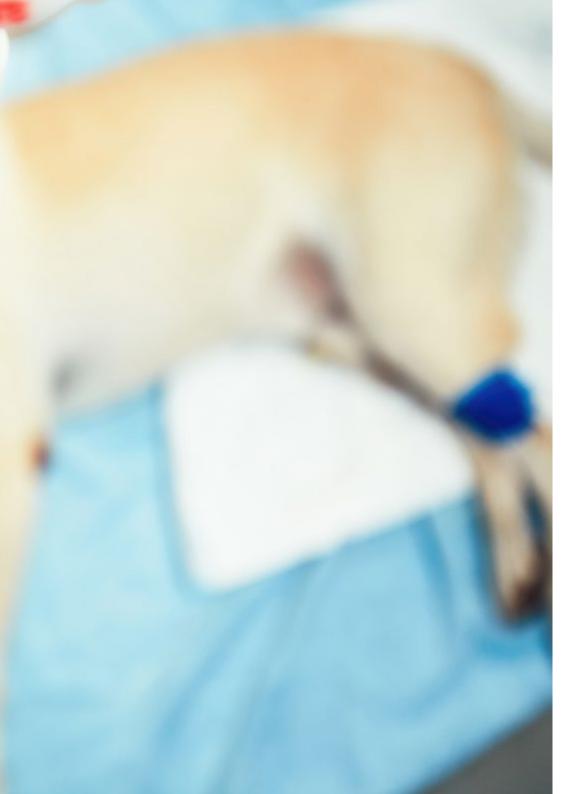


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Module 1 Acquired Heart Diseases Chronic Mitral and Tricuspid Valve Disease Endocarditis Pericardial Alterations Cardiac Masses

- 1.1. Chronic Degenerative Valve Disease I. Etiology
 - 1.1.1. Valvular Anatomy
 - 1.1.2. Etiology
 - 1.1.3. Prevalence
- 1.2. Chronic Degenerative Valve Disease II. Pathology
 - 1.2.1. Pathophysiology
 - 1.2.2. Staging and Classification
- 1.3. Chronic Degenerative Valve Disease III. Diagnosis
 - 1.3.1. History and Exploration
 - 1.3.2. Radiology
 - 1.3.3. Electrocardiogram (ECG)
 - 1.3.4. Echocardiography
 - 1.3.5. Biochemical Tests
 - 1.3.6. Differential Diagnoses
- 1.4. Chronic Degenerative Valve Disease III. Echocardiographic Assessment
 - 1.4.1. Valvular Anatomy
 - 1.4.1.1. Appearance and Movement
 - 1.4.1.2. Degenerative Lesions
 - 1.4.1.3. Prolapses
 - 1.4.1.4. Ruptured Chordae Tendineae
 - 1.4.2. Dimensions and Functionality of the Left Ventricle
 - 1.4.3. Quantification of Regurgitation
 - 1.4.4. Echocardiographic Staging
 - 1.4.4.1. Cardiac Remodeling
 - 1.4.4.2. Regurgitation Flows and Fraction
 - 1.4.4.3. Left Atrial Pressures
 - 1.4.4.4. Pulmonary Hypertension





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- 1.5. Chronic Degenerative Valve Disease IV. Progression and Decompensation Risk Analysis
 - 1.5.1. Risk Factors for Progression
 - 1.5.2. Decompense Prediction
 - 1.5.3. Particularities in the Evolution of Tricuspid Pathology
 - 1.5.4. Owner's Role
 - 1.5.5. Periodicity of Revisions
- 1.6. Chronic Degenerative Valve Disease V. Therapies
 - 1.6.1. Medical Treatment
 - 1.6.2. Surgical Management
- 1.7. Chronic Degenerative Valve Disease VI. Complicating Factors
 - 1.7.1. Arrhythmias
 - 1.7.2. Pulmonary Hypertension
 - 1.7.3. Systemic Arterial Hypertension
 - 1.7.4. Renal Insufficiency
 - 1.7.5. Atrial Rupture
- 1.8. Infectious Endocarditis
 - 1.8.1. Aetiology and Pathophysiology of Bacterial Endocarditis
 - 1.8.2. Diagnosis of Bacterial Endocarditis
 - 1.8.3. Treatment of Bacterial Endocarditis
- 1.9. Pericardial Alterations
 - 1.9.1. Pericardium Anatomy and Physiology
 - 1.9.2. Pathophysiology of Pericardial Tamponade
 - 1.9.3. Diagnosis of Pericardial Tamponade
 - 1.9.4. Types of Pericardial Alterations
 - 1.9.4.1. Hernias and Defects
 - 1.9.4.2. Spills or Effusions (Types and Origins)
 - 1.9.4.3. Masses
 - 1.9.4.4. Constrictive Pericarditis
 - 1.9.5. Pericardiocentesis and Protocol of Action
- 1.10. Cardiac Masses

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2.1.

2.2.

2.3.

2.4.

	1.10.1.	Aortic Base Tumors		
	1.10.2.	Hemangiosarcoma		
	Mesothelioma			
	1.10.4.	Intracavitary Tumors		
	1.10.5.	Clots: Atrial Rupture		
dı	ule 2 A	cquired Heart Diseases Cardiomyopathies		
	Primary	Canine Dilated Cardiomyopathy		
	2.1.1.	Definition of Primary Dilated Cardiomyopathy (DCM) and Histological Features		
	2.1.2.	Echocardiographic Diagnosis of DCM		
	2.1.3.	Electrocardiographic Diagnosis of Occult DCM		
		2.1.3.1. Electrocardiogram (ECG)		
		2.1.3.2. Holter		
	2.1.4.	RCM Therapy		
		2.1.4.1. Hidden Phase		
		2.1.4.2. Symptomatic Phase		
	Second	ary Canine Dilated Cardiomyopathy		
	Aetiological Diagnosis of Dilated Cardiomyopathy (DCM)			
	2.2.2.	DCM Secondary to Nutritional Deficiencies		
	2.2.3.	DCM Secondary to Other Causes		
		2.2.3.1. Endocrine Disorders		
		2.2.3.2. Toxins		
		2.2.3.3. Others		
	-	ardia-Induced Cardiomyopathy (TICM)		
	2.3.1.	Electrocardiographic Diagnosis of TICM		
		2.3.1.1. Electrocardiogram (ECG)		
		2.3.1.2. Holter		
	2.3.2.	TICM Therapy		
		2.3.2.1. Pharmacotherapy		
	ا بہ اللہ ا	2.3.2.2. Radiofrequency Ablation		
Arrhythmogenic Right Ventricular Cardiomyopathy (ARVC)				
	2.4.1.	Definition of ARVC and Histological Features		

	2.4.2.	Echocardiographic Diagnosis of ARVC			
	2.4.3.	Electrocardiographic Diagnosis of ARVC			
		2.4.3.1. ECG			
		2.4.3.2. Holter			
	2.4.4.	ARVC Therapy			
	Feline I	Hypertrophic Cardiomyopathy (HCM) I			
	2.5.1.	Definition of HCM and Histological Features			
	2.5.2.	Echocardiographic Diagnosis of HCM Phenotype			
	2.5.3.	Electrocardiographic Findings at HCM			
	Feline I	Hypertrophic Cardiomyopathy (HCM) II			
	2.6.1.	Aetiological Diagnosis of HCM			
	2.6.2.	Hemodynamic Consequences of HCM			
	2.6.3.	Staging of HCM			
2.6.4. Prognostic Factors in HCM		Prognostic Factors in HCM			
	2.6.5.	HCM Therapy			
		2.6.5.1. Asymptomatic Phase			
		2.6.5.2. Symptomatic Phase			
	Other F	Other Feline Cardiomyopathies I			
	2.7.1.	Restrictive Cardiomyopathy (RCM)			
		2.7.1.1. Histological Characteristics of RCM			
		2.7.1.2. Echocardiographic Diagnosis of RCM Phenotype			
		2.7.1.3. Electrocardiographic Findings in RCM			
		2.7.1.4. RCM Therapy			
	2.7.2.	Feline Dilated Cardiomyopathy			
		2.7.2.1. Histological Features of Feline Dilated Cardiomyopathy (DCM			
		2.7.2.2. Echocardiographic Diagnosis of the DCM Phenotype			
		2.7.2.3. Etiologic Diagnosis of Feline DCM			
	Other F	eline Cardiomyopathies II			
	281	Feline Dilated Cardiomyonathy (DMC) (cont.)			

2.5.

2.6.

2.7.

2.8.

	2.8	.1.1	Therapy	of	Feline	DCM
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- 2.8.2. End-stage Cardiomyopathies
 - 2.8.2.1 Echocardiographic Diagnosis
 - 2.8.2.2 Therapy of End-stage Cardiomyopathy
- 2.8.3 Hypertrophic Obstructive Cardiomyopathy (HOCM)
- 2.9. Myocarditis
 - 2.9.1. Clinical Diagnosis of Myocarditis
 - 2.9.2. Etiologic Diagnosis of Myocarditis
 - 2.9.3. Non-etiologic Therapy of Myocarditis
 - 2.9.4. Chagas Disease
- 2.10. Other Myocardial Alterations
 - 2.10.1. Atrial Standstill
 - 2.10.2. Fibroendoelastosis
 - 2.10.3. Cardiomyopathy Associated with Muscular Dystrophy (Duchenne)
 - 2.10.4. Cardiomyopathy in Exotic Animals

Module 3 Congenital Heart Disease

- 3.1. Patent Ductus Arteriosus (PDA) I
 - 3.1.1. Embryological Mechanisms that Give Rise to PDA
 - 3.1.2. Anatomical Classification of PDA
 - 3.1.3. Echocardiographic Diagnosis
- 3.2. Patent Ductus Arteriosus II
 - 3.2.1. Pharmacotherapy
 - 3.2.2. Interventional Therapy
 - 3.2.3. Surgical Therapies
- 3.3. Pulmonary Stenosis (PS) I
 - 3.3.1. Anatomical Classification of PS
 - 3.3.2. Echocardiographic Diagnosis of PS
 - 3.3.3. Pharmacotherapy
- 3.4. Pulmonary Stenosis II
 - 3.4.1. Interventional Therapy

3.4.2. Surgical Therapies

- 3.5. Aortic Stenosis (AS) I
 - 3.5.1. Anatomical Classification of AS
 - 3.5.2. Echocardiographic Diagnosis of AS
 - 3.5.3. Pharmacotherapy
- 3.6. Aortic Stenosis II
 - 3.6.1. Interventional Therapy
 - 3.6.2. Screening Program Results
- 3.7. Ventricular Septal Defects (VSD)
 - 3.7.1. Anatomical Classification of VSD
 - 3.7.2. Echocardiographic Diagnosis
 - 3.7.3. Pharmacotherapy
 - 3.7.4. Surgical Therapies
 - 3.7.5. Interventional Therapy
- 3.8. Interatrial Septal Defects (ISD)
 - 3.8.1. Anatomical Classification of ISD
 - 3.8.2. Echocardiographic Diagnosis
 - 3.8.3. Pharmacotherapy
 - 3.8.4. Interventional Therapy
- 3.9. Atrioventricular Valve Dysplasia
 - 3.9.1. Tricuspid Dysplasia
 - 3.9.2. Mitral Dysplasia
- 3.10. Other Congenital Defects
 - 3.10.1. Tetralogy of Fallot
 - 3.10.2. Persistent Left Cranial Vena Cava
 - 3.10.3. Double Chamber Right Ventricle
 - 3.10.4. Aorto-Pulmonary Window
 - 3.10.5. Persistent Right Fourth Aortic Arch
 - 3.10.6. Cortriatrium Dexter and Cortriatrium Sinister
 - 3.10.7. Common Atrioventricular Canal

Module 4 Pulmonary and Systemic Hypertension, Systemic Diseases with

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Cardiac Repercussions and Anesthesia in the Cardiac Patient

- 4.1. Pulmonary Hypertension (PH) I
 - 4.1.1. Definition of PH
 - 4.1.2. Echocardiographic Diagnosis of PH
 - 4.1.3. PH Classification
- 4.2. Pulmonary Hypertension II
 - 4.2.1. Additional Diagnostic Protocol in Animals Suspected of PH
 - 4.2.2. PH Treatment
- 4.3. Systemic Hypertension I
 - 4.3.1. Methods for Blood Pressure Measurement
 - 4.3.2. Diagnosis of Hypertension
 - 4.3.3. Pathophysiology of Systemic Hypertension
 - 4.3.4. Assessment of Target Organ Damage
 - 4.3.5. Hypertensive Cardiomyopathy
- 4.4. Systemic Hypertension II
 - 4.4.1. Patient Selection for Hypertension ScreeningPrograms
 - 4.4.2. Treatment of Systemic Hypertension
 - 4.4.3. Monitoring of Treatment and Additional Target Organ Damage
- 4.5. Filariasis
 - 4.5.1. Etiological Agent
 - 4.5.2. Diagnosis of Filarial Infection
 - 4.5.2.1. Physical Methods
 - 4.5.2.2. Serological Methods
 - 4.5.3. Pathophysiology of Filarial Infestations
 - 4.5.3.1. Dogs
 - 4.5.3.2. Cats
 - 4.5.4. Echocardiographic Findings
 - 4.5.5. Treatment of Filariasis
 - 4.5.5.1. Medical Treatment
 - 4.5.5.2. Interventional Treatment
- 4.6. Endocrine Diseases Affecting the Heart I

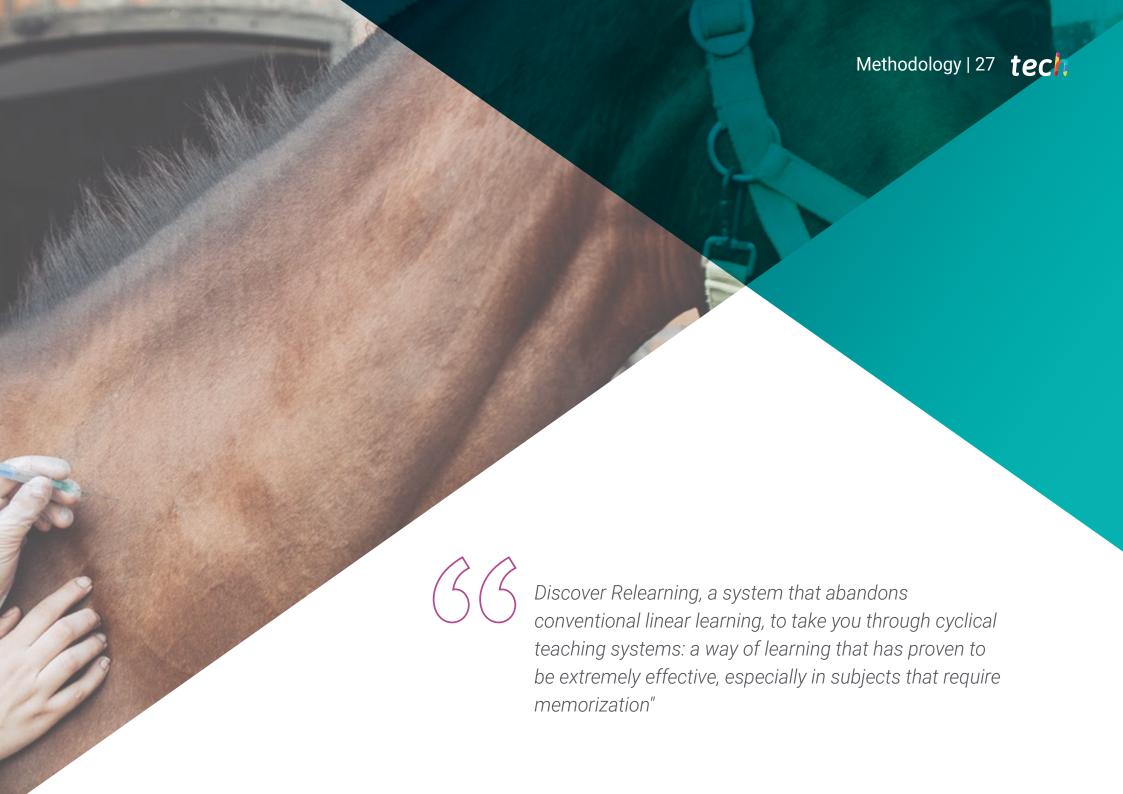
- 4.6.1. Hyperthyroidism
- 4.6.2. Hypothyroidism
- 4.6.3. Hyperadrenocorticism
- 4.6.4. Hypoadrenocorticism
- 4.7. Endocrine Diseases Affecting the Heart II
 - 4.7.1. Diabetes
 - 4.7.2. Acromegaly
 - 4.7.3. Hyperaldosteronism
 - 4.7.4. Hyperparathyroidism
- 4.8. Other Systemic Alterations Affecting the Cardiovascular System I
 - 4.8.1. Pheochromocytoma
 - 4.8.2. Anaemia
 - 4.8.3. Uremia
 - 4.8.4. Toxics and Chemotherapeutics
 - 4.8.5. Shock.
- 4.9. Other Systemic Alterations Affecting the Cardiovascular System II
 - 4.9.1. Gastric Dilatation/Torsion
 - 4.9.2. Splenic Splenitis/Neoplasia
 - 4.9.3. Hypercoagulable State and Thrombosis
 - 4.9.4. Conditions Causing Hypo- or Hypercalcemia
 - 4.9.5. Conditions Causing Hypo- or Hyperkalemia
 - 4.9.6. Conditions Causing Hypo- or Hypermagnesemia
- 4.10. Anesthesia in Cardiac Patients
 - 4.10.1. Pre-Surgery Assessment
 - 4.10.2. Hemodynamic and Surgical Factors Involved in the Choice of Hypnotics
 - 4.10.3. Anesthetic Monitoring





Achieve professional success with this high-level training provided by prestigious professionals with extensive experience in the sector"





tech 28 | 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 Harvard 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 | 31 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.

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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

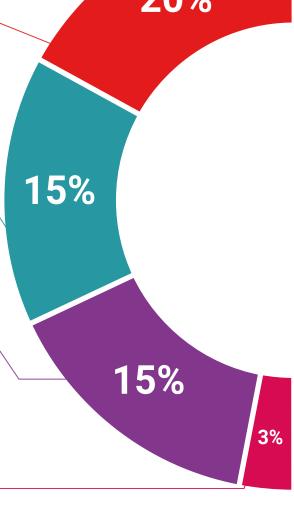
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch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

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



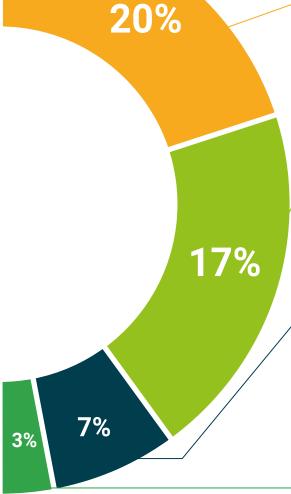
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







tech 36 | Certificate

This program will allow you to obtain your **Postgraduate Diploma in Heart Diseases in Small Animals** endorsed by **TECH Global University**, the world's largest online university.

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

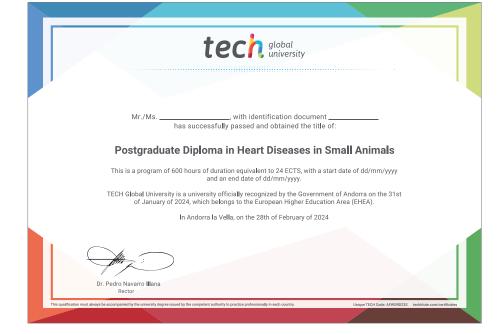
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Diploma in Heart Diseases in Small Animals

Modality: online

Duration: 6 months

Accreditation: 24 ECTS



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



Postgraduate Diploma Heart Diseases in Small Animals

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