Postgraduate Diploma Cardiorespiratory Medicine



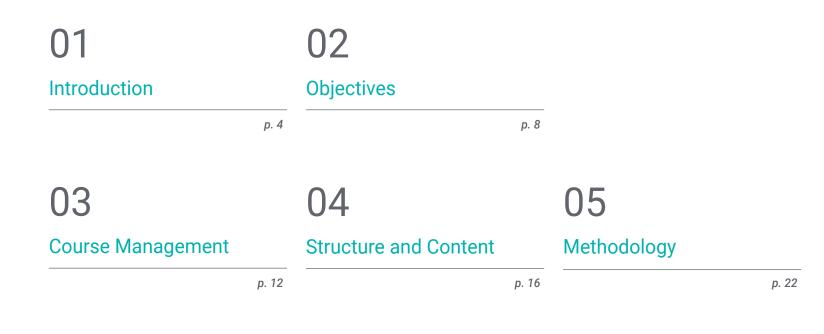


Postgraduate Diploma Cardiorespiratory Medicine

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-cardiorespiratory-medicine

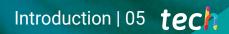
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06 Certificate

01 Introduction

University studies do not allow students to go in depth in most of the topics that are covered in this program. It is essential for veterinarians who want to work in the Large Animals clinic to carry out internships and postgraduate studies in order to achieve the necessary knowledge for a correct daily practice. This specialized knowledge enables veterinarians either to work safely on their own or in hospitals that require veterinary personnel with a higher and advanced level than a recent graduate. At the end of this program, the student will be able to interpret clinical signs, make lists of differential diagnoses, decide which tests to perform and implement appropriate treatment.



Large animals can have complex pathologies, so it is necessary to have specialized veterinarians who can treat them"

...

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The Postgraduate Diploma in Cardiorespiratory Medicine incorporates innovative knowledge, based on the latest scientific evidence, that allows veterinary professionals to stay up to date on the newest treatments and emerging diseases that affect large animals across the world as a consequence of globalization.

Specialized and advanced knowledge of these diseases is necessary since outbreaks of some diseases considered eradicated or new ones may occur in all countries of the world.

Clinical practice is a very dynamic activity, new treatments are constantly appearing in scientific publications and veterinarians must be aware of them in order to be able to offer these options to their clients. Each of the modules in this Postgraduate Diploma covers one of the organ systems, with emphasis on those systems that are most frequently affected in large animals.

With respect to ruminants, although their handling and the diseases they suffer from are different from those of horses, they must also be understood with sufficient scientific expertise to be able to establish adequate treatments and accurate prognoses. Camelids of the new world or South America, which include mainly llamas and alpacas as domesticated animals, are animals bred for different purposes including fiber production, pack animals or meat production in South America. Horses are animals that are used both for leisure and as companion animals, as well as in different sports disciplines, which adds an important added economic value. It is essential to have a high level of knowledge in internal medicine to be able to work with these horses, since, due to their economic value, they are not readily accessible to clinicians with little training.

This Postgraduate Diploma is designed by professors with the highest recognized degree of specialization, thus guaranteeing its quality in all aspects, both clinical and scientific, in large animals.

This **Postgraduate Diploma in Cardiorespiratory Medicine** contains the most complete and up-to-date scientific program on the market. The most important features include:

- » Practical cases presented by experts in Cardiorespiratory Medicine
- » The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional development
- » Latest developments in Cardiorespiratory Medicine
- » Practical exercises where self-assessment can be used to improve learning
- » Special emphasis on innovative methodologies in Cardiorespiratory Medicine
- » 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



Don't miss the opportunity to study this Postgraduate Diploma with us. It's the perfect opportunity to advance in your veterinary career"

Introduction | 07 tech

This Postgraduate Diploma is the best investment you can make when choosing a refresher program to update your existing knowledge of Cardiorespiratory Medicine" This program comes with the best educational material, providing you with a contextual approach that will facilitate your learning"

A 100% online program will allow you to combine your studies with your professional work while increasing your knowledge in this field"

The teaching staff includes professionals from the field of veterinary medicine, who contribute the experience of their work to this program, in addition to recognized specialists from reference 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 learning 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 throughout the program. For this, the professional will have the help of an innovative interactive video system made by renowned and experienced experts in Internal Medicine in Large Animals.

02 **Objectives**

The Postgraduate Diploma in Cardiorespiratory Medicine is aimed at facilitating the veterinary professional's performance with the latest advances and most innovative treatments in the sector.

Objectives | 09 tech

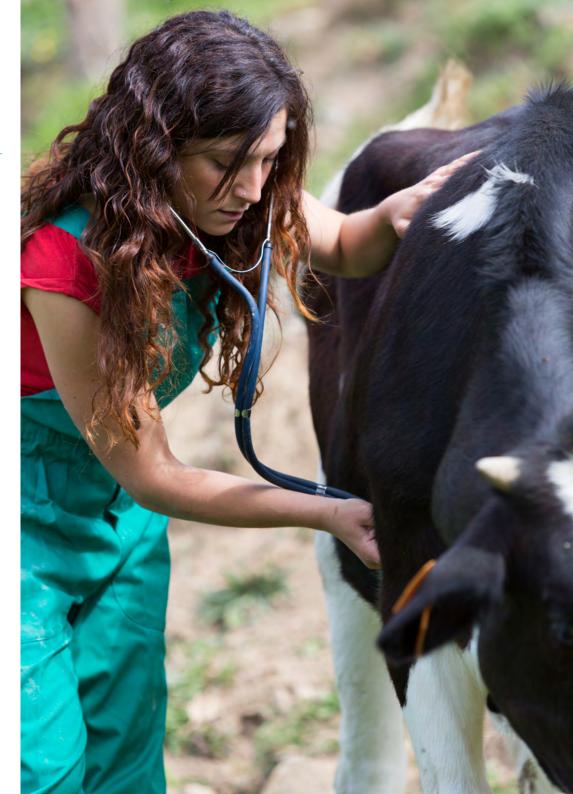
It is the best option to learn about the latest advances in cardiorespiratory medicine"

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General Objectives

- » Generate specialized knowledge on the cardiovascular pathophysiology in large animals
- » Identify all clinical signs associated with cardiovascular disease
- » Design diagnostic protocols with appropriate complementary tests
- » Establish the specific clinical approach to horses with a cardiac or vascular disorder
- » Establish an appropriate methodology for the examination of patients with respiratory problems
- » Identify all clinical signs associated with respiratory disease
- » Analyze the differences between pathologies of the upper and lower airways
- » Approach the main respiratory pathologies that affect large animals, their diagnosis and treatment
- » Establish how to carry out correct analytical interpretation both in adult as well as geriatric and newborn animals
- » Develop the basics of hemostasis and coagulation, as well as the pathologies associated with their failure
- » Establish the different types of immunological reactions, as well as the diseases they cause
- » Generate advanced knowledge in acid-base interpretation
- » Specify the basics of fluid therapy



Objectives | 11 tech



Specific Objectives

Module 1. Alterations of the Cardiovascular System in Large Animals

- » Recognize the specific anatomy, physiology and pathphysiology that underlies heart disease
- » Gain in-depth knowledge of the action mechanisms of the drugs used in diseases of the heart and blood vessels
- » Specify the necessary information required in clinical examination of cardiopathy patients
- » Establish a work methodology for patients with murmurs and for patients with arrhythmias
- » Establish diagnostic and therapeutic protocols of horses with syncope
- » Study heart failure in large animals in detail

Module 2. Alterations of the Respiratory System in Large Animals

- » Carry out a complete physical examination of upper and lower airways
- » Examine the diagnostic procedures used in cases of suspected respiratory pathology and the interpretation of their results
- » Precisely recognize the specific symptoms of upper and lower airway pathologies
- » Establish the main pathologies that affect the regions of the nasal cavity, guttural pouches, pharynx and larynx
- » Develop knowledge of the main diseases which affect the trachea, bronchi and lungs

Module 3. Laboratorial Diagnosis in Equidae. Alterations of the Hematopoietic System and Immunology in Large Animals

- » Develop an advanced methodology to carry out a correct diagnosis of red series and white series alterations
- » Identify and implement the necessary therapy in case of coagulation disorders
- » Perform basic cytological interpretation of blood smears, peritoneal fluid and cerebrospinal fluid
- » Performa a correct interpretation of analytical tests with biochemical alterations in adults and foals
- » Identify and treat immune-mediated pathologies
- » Carry out a complete analysis of the state of the acid-base in a critical patient
- » Implement an appropriate fluid therapy plan based on the patient's imbalances

Join one of the largest online universities in the world"

03 Course Management

The program's teaching staff includes leading experts in Cardiorespiratory Medicine who contribute their vast work experience to this program. Professionals of recognized prestige have joined forces to offer you this high-level program.

Our teaching team, experts in Cardiorespiratory Medicine, will help you to

achieve professional success"

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Management



Dr. Martín Cuervo, María

- Doctor of Veterinary Medicine from the University of Extremadura. Doctoral thesis on Inflammation Markers in Horses in a Critical Condition
- Degree in Veterinary Medicine from the University of Cordoba
- President of the Scientific Committee in the National Congress of the Spanish Association of Equine Veterinarians (AVEE).
- Member of the Scientific Committee in the International Committee of the International Purebred Spanish Horse Show (SICAB)
- Veterinarian, member of the European Board of Veterinary Specialization (EBVS) and the European College of Equine Internal Medicine (ECVIM
- Member of the Spanish Association of Equine Veterinarians (AVEE).
- Head of the Equinie Internal Medicine Services in the University of Extremadura



Dr. Barba Recreo, Marta

- PhD in Biomedical Sciences, Auburn University, Alabama, USA.
- Diplomate of the American College of Large Animals Internal Medicine in 2015.
- Degree in Veterinary from the University of Zaragoza
- Head of the Equine Internal Medicine Service, Clinical Veterinary Hospital, CEU Cardenal Herrera University, Valencia.

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Professors

Dr. Diez de Castro, Elisa

- » PhD Veterinary Medicine from the University of Cordoba Doctoral thesis in Equine Endocrinology
- » Graduate of the European College of Equine Internal Medicine (ECEIM).
- » Degree in Veterinary Medicine from the University of Cordoba
- » Associate Professor of the Animal Medicine and Surgery Department at the University of Cordoba for the training and evaluation of the supervised internship (rotatory) of the fifth year students of the veterinary degree.
- » Equine Internal Medicine Service at Clinical Veterinary Hospital at the University of Cordoba

Dr. Villalba Orero, María

- » Doctor in Veterinary Medicine, Madrid Complutense University. Doctoral thesis in Equine Anesthesia
- » Degree in Veterinary Medicine from the Complutense University Madrid
- Associate Professor in the Department of Animal Medicine and Surgery at the Complutense University Madrid, with teaching experience in equine internal medicine, specializing in cardiology
- » Professor of Pathophysiology at the Alfonso X el Sabio University
- » Scientific advisor of cardiovascular and pulmonary ultrasound in the Nation Center of Cardiovascular Research
- » Private Equine Cardiology Service, field of work in Spain

Dr. Medina Torres, Carlos E.

- » PhD in Veterinary Sciences from the University of Guelph, Ontario, Canada,
- » Diploma from the American College of Internal Medicine, specializing in Large Animals and from the European College of Equine Internal Medicine
- » PhD from the University of Queensland, Australia,
- » Senior Lecturer and Clinical Specialist in Internal Medicine at the University of Queensland, Australia

Dr. Viu Mella, Judit

- » Cum Laude PhD in Animal Medicine and Health from the Autonomous University of Barcelona.
- » Outstanding award for the thesis "Desequilibrios ácido-base en potros recién nacidos y caballos adultos evaluados por el enfoque cuantitativo" (Acid-base imbalances in newborn foals and adult horses evaluated by quantitative approach)
- » Diplomate of the European College of Internal Equine Medicine.
- » Degree in Veterinary Medicine, Autonomous University of Barcelona
- » Member of the Spanish Association of Specialist Veterinarians (AVEDE)
- » Equine Internal Medicine and Anesthesia Services in the Sierra de Madrid Veterinary Hospital
- » Anesthetist in the equine unit of the UAB Veterinary Clinical Hospital

04 Structure and Content

The structure of the contents has been designed by the best professionals in the field of Cardiorespiratory Medicine, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied and diagnosed, and with extensive knowledge of new technologies applied to veterinary medicine.

We have the most complete and up-to-date scientific program on the market. We strive for excellence and for you to achieve it too"

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Module 1. Alterations of the Cardiovascular System in Large Animals

- 1.1. Cardiovascular Anatomy and Clinical Pathophysiology
 - 1.1.1. Embryonic Development and Anatomy of the Heart
 - 1.1.2. Fetal Circulation
 - 1.1.3. Cardiac Cycle
 - 1.1.4. Ion Channels and Action Potentials
 - 1.1.5. Neurohormonal Control of the Heart
 - 1.1.6. Arrhythmogenic Mechanisms
- 1.2. Cardiovascular Examination
 - 1.2.1. Medical History
 - 1.2.2. Cardiovascular Examination
- 1.3. Diagnostic Tests
 - 1.3.2. Tensiometry
 - 1.3.3. Electrocardiography
 - 1.3.4. Echocardiography
 - 1.3.5. Vascular Ultrasound
- 1.4. Congenital and Valvular Heart Disease in Horses
 - 1.4.1. Ventricular Septal Defect
 - 1.4.2. Tetralogy of Fallot
 - 1.4.3. Patent Ductus Arteriosus
 - 1.4.4. Aortic Insufficiency
 - 1.4.5. Mitral Insufficiency
 - 1.4.6. Tricuspid Regurgitation
- 1.5. Arrhythmias in Horses
 - 1.5.1. Supraventricular Arrhythmias
 - 1.5.2. Ventricular Arrhythmias
 - 1.5.3. Conduction Disturbances
- 1.6. Pericarditis, Myocarditis, Endocarditis and Vascular Alterations in Horses
 - 1.6.1. Pericardial Disorders
 - 1.6.2. Myocardial Disorders
 - 1.6.2.1. Endocardial Disorders
 - 1.6.2.2. Aorto-Cardiac and Aorto-Pulmonary Fistulas

- 1.7. Cardiovascular Diseases in Cattle
 - 1.7.1. Examination of the Cardiovascular System in Cattle
 - 1.7.2. Congenital Cardiovascular Pathologies
 - 1.7.3. Arrhythmias
 - 1.7.4. Heart Failure and Cor Pulmonale
 - 1.7.5. Valvular and Endocardial Diseases
 - 1.7.6. Myocardial Diseases and Cardiomyopathies
 - 1.7.7. Pericardial Diseases
 - 1.7.8. Thrombosis and Embolism
 - 1.7.9. Neoplasty
- 1.8. Cardiovascular Diseases in Small Ruminants
 - 1.8.1. Examination of the Cardiovascular System in Small Ruminants
 - 1.8.2. Congenital Cardiovascular Pathologies
 - 1.8.3. Acquired Cardiovascular Pathologies
 - 1.8.4. Toxic Cardiopathies or Due to Nutritional Deficiencies
 - 1.8.5. Vascular Diseases
- 1.9. Cardiovascular Diseases in Camelids
 - 1.9.1. Examination of the Cardiovascular System in Camelids
 - 1.9.2. Congenital Cardiovascular Pathologies
 - 1.9.3. Acquired Cardiovascular Pathologies
 - 1.9.4. Toxic Cardiopathies or Due to Nutritional Deficiencies
 - 1.9.5. Anemia, Polycythemia and Erythrocytosis
 - 1.9.6. Neoplasty
- 1.10. Cardiovascular Pharmacology
 - 1.10.1. Vasodilators
 - 1.10.2. Positive Inotropes
 - 1.10.3. Diuretics
 - 1.10.4. Antiarrhythmics
 - 1.10.5. Treatment of Heart Failure

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Module 2. Alterations of the Respiratory System in Large Animals

- 2.1. Clinical Examination and Main Diagnostic Techniques of the Upper Respiratory Tract
 - 2.1.1. Anamnesis and General Physical Examination
 - 2.1.2. Examination of Upper Respiratory Tract
 - 2.1.3. Endoscopy at Rest
 - 2.1.4. Dynamic Endoscopy
 - 2.1.5. Ultrasound and Radiography of Upper Respiratory Tract
 - 2.1.6. Culture and Antibiogram
- 2.2. Clinical Examination and Main Diagnostic Techniques of the Lower Respiratory Tract
 - 2.2.1. Examination of Lower Respiratory Tract
 - 2.2.2. Thoracic Ultrasound Scan
 - 2.2.3. Thoracic Radiography
 - 2.2.4. Sample Collection: Tracheal Aspirate, Bronchoalveolar Lavage and Thoracocentesis
 - 2.2.5. Arterial Blood Gases
 - 2.2.6. Pulmonary Function Tests
 - 2.2.7. Pulmonary Biopsy
- 2.3. Diseases of the Upper Respiratory Tract in Horses
 - 2.3.1. Ethmoidal Hematoma
 - 2.3.2. Sinusitis
 - 2.3.3. Sinus Cysts
 - 2.3.4. Guttural Pouch Pathologies: Tympanism, Mycosis, Empyema
 - 2.3.5. Lymphoid Hyperplasia
 - 2.3.6. Epiglottic Entrapment
 - 2.3.7. Pharyngeal Collapse
 - 2.3.8. Dorsal Displacement of the Soft Palate
 - 2.3.9. Recurrent Laryngeal Papillomatosis
 - 2.3.10. Arytenoid Chondritis
 - 2.3.11. Rostral Displacement of Palatopharyngeal Arch
- 2.4. Equine Respiratory Viruses
 - 2.5.1. Influenza
 - 2.4.2. Herpesvirus
 - 2.4.3. Other Respiratory Viruses

- 2.5. Exercise-Induced Pulmonary Hemorrhage in Horses
 - 2.5.1. Clinical Signs
 - 2.5.2. Pathogenesis
 - 2.5.3. Diagnosis
 - 2.5.4. Treatment
 - 2.5.5. Prognosis
- 2.6. Pleuropneumonia and Bacterial Pneumonia in Equidae
 - 2.6.1. Clinical Signs
 - 2.6.2. Pathogenesis
 - 2.6.3. Diagnosis
 - 2.6.4. Treatment
 - 2.6.5. Prognosis
- 2.7. Severe or Acute Asthma in Equidae
 - 2.7.1. Clinical Signs
 - 2.7.2. Pathogenesis
 - 2.7.3. Diagnosis
 - 2.7.4. Treatment
 - 2.7.5. Prognosis
- 2.8. Respiratory Pathologies in Cattle
 - 2.8.1. Examination of the Respiratory System in Cattle
 - 2.8.2. Alterations in the Upper Respiratory Tract
 - 2.8.3. Bovine Respiratory Syndrome
 - 2.8.4. Interstitial Pneumonia and Other Causes of Pneumonia in Bovines
 - 2.8.5. Alterations of the Thoracic Cavity
- 2.9. Respiratory Pathologies in Small Ruminants
 - 2.9.1. Examination of the Respiratory System in Sheep and Goats
 - 2.9.2. Alterations in the Upper Respiratory Tract
 - 2.9.3. Pneumonia
 - 2.9.4. Alterations of the Thoracic Cavity
- 2.10. Respiratory Pathologies in Camelids
 - 2.10.1. Examination of the Respiratory System in Camelids
 - 2.10.2. Alterations in the Upper Respiratory Tract
 - 2.10.3. Pneumonia and Other Pulmonary and Thoracic Pathologies
 - 2.10.4. Neoplasty

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Module 3. Laboratorial Diagnosis in Equidae. Alterations of the Hematopoietic System and Immunology in Large Animals

- 3.1. Hematology in Adult Horses: Alterations in the Red Series
 - 3.1.1. Physiology of Red Blood Cells and Platelets
 - 3.1.2. Interpretation of Alterations in the Red Series
 - 3.1.3. Iron Metabolism
 - 3.1.4. Thrombocytopenia/Thrombocytosis
 - 3.1.5. Polycythemia
 - 3.1.6. Anemia
 - 3.1.6.1. Loss: Hemorrhage
 - 3.1.6.2. Destruction
 - 3.1.6.2.1. Infectious and Parasitic Diseases That Cause Anemia: Piroplasmosis, EIA and Other Diseases
 - 3.1.6.2.2. Immune-mediated Hemolysis
 - 9.1.6.2.3. Neonatal Isoerythrolisis
 - 3.1.6.2.4. Oxidative Damage
 - 3.1.6.3. Lack of Production
 - 3.1.6.3.1. Anemia Chronic Inflammation
 - 3.1.6.3.1. Myeloptisis/Aplasia Medular
- 3.1.7. Physiology of the White Series
 - 3.1.8. Neutrophils
 - 3.1.9. Eosinophils
 - 3.1.10. Basophils
 - 3.1.11. Lymphocytes
 - 3.1.12. Mast Cells
 - 3.1.13. Leukaemias
- 3.2. Biochemistry in Adult Horses
 - 3.2.1. Renal Profile
 - 3.2.2. Liver Profile
 - 3.2.3. Acute Phase Proteins
 - 3.2.4. Muscular Profile
 - 3.2.5. Other Determinants

- 3.3. Hematology and Biochemistry in Foals/ Geriatric Horses
 - 3.3.1. Differences in Hematology
 - 3.3.2. Differences in Biochemistry3.3.2.1.Differences in Renal Function3.3.2.2 Differences in Liver Function3.3.2.3 Differences in Muscular Profile
- 3.4. Immune Response of Foals and Geriatric Horses
 - 3.4.1. Peculiarities of the Immune System of Neonatal Foals
 - 3.4.2. Evolution of the Immune Response During the First Year of Age
 - 3.4.3. Senecundity: Peculiarities of the Geriatric Immune System
- 9.5. Hypersensitivity Reactions. Immune-Mediated Diseases
 - 3.5.1. Hypersensitivity Type 1
 - 3.5.2. Hypersensitivity Type 2
 - 3.5.3. Hypersensitivity Type 3
 - 3.5.4. Hypersensitivity Type 4
 - 3.5.5. Immunocomplexes Manifestations of Immune-Mediated Diseases
- 3.6. Hemostasis Disorders
 - 3.6.1. Primary Hemostasis
 - 3.6.2. Secondary Hemostasis
 - 3.6.3. Coagulation Based on Intrinsic and Extrinsic Pathways vs. Cell-Based Coagulation Model (Initiation, Propagation and Amplification)
 - 3.6.4. Anticoagulation
 - 3.6.5. Fibrinolysis/Antifibrinolysis
 - 3.6.6. Disseminated Intravascular Coagulation
 - 3.6.7. Hemorrhagic Purpura
 - 3.6.8. Hereditary Problems
 - 3.6.9. Procoagulant and Anticoagulant Treatments

Structure and Content | 21 tech

- 3.7. Basic Principles of Acid-Base Equilibrium. Fluid Therapy
 - 3.7.1. Introduction. Why is Acid-Base Equilibrium Important?
 - 3.7.2. Basic Concepts
 - 3.7.3. Protection Mechanisms: Short and Long-Term Slope Compensations
 - 3.7.4. Interpreting Methods
 - 3.7.5. Step by Step: How to Interpret the Acid-Base to Obtain Maximum Information 3.7.5.1. Lactate
 - 3.7.5.2. Electrolytes
 - 3.7.5.2.1. Hypernatremia (>145mmol/l)
 - 3.7.5.2.2. Hyponatremia (Horse<134 mmol/l)
 - 3.7.5.2.3. Hyperpotassemia or Hyperkalemia (>4,5mmol/l)
 - 3.7.5.2.4. Hypotassemia or Hypokalemia (<3.5 mmol/l)
 - 3.7.5.2.6. Hyperchloremia (>110 mmol/l)
 - 3.7.5.2.6. Hypochloremia (<90 mmol/l)
 - 3.7.5.3. SIDm
 - 3.7.5.4. ATO
 - 3.7.5.5. SIG
 - 3.7.6. Classification of the Alterations
 - 3.7.7. Basic Principles of Fluid Therapy
 - 3.7.8. Body Composition of Fluids and Electrolytes
 - 3.7.9. Estimation of Dehydration
 - 3.7.10. Types of Fluid
 - 3.7.10.1. Crystaloid Solutions
 - 3.7.10.1.1 Ringer's Lactate
 - 3.7.10.1.2 Isofundin®
 - 3.7.10.1.3 Saline Solution (0.9% NaCl)
 - 4.7.10.1.4 Sterovet®
 - 3.7.10.1.5 Bicarbonate
 - 3.7.10.1.6 Glucosaline 0,3/3,6%
 - 3.7.10.1.7 Hypertonic Saline Solution (7.5% NaCl)
 - 3.7.10.2 Colloidal Solutions
 - 3.7.10.2.1 IsoHes®
 - 3.7.10.2.2 Plasma

- 3.8. Interpretation of Laboratory Analysis and Immunological and Hematopoietic Alterations in Cattle
 - 3.8.1. Blood Count
 - 3.8.2. Blood Biochemistry
 - 3.8.3. Allergies
 - 3.8.4. Immune-Mediated Anemia
 - 3.8.5. Thrombocytopenia
- 3.9. Interpretation of Laboratory Analysis and Immunological and Hematopoietic Alterations in Small Ruminants
 - 3.9.1. Blood Count
 - 3.9.2. Anemia and the FAMACHA System
 - 3.9.3. Blood Biochemistry
- 3.10. Interpretation of Laboratory Analysis and Immunological and Hematopoietic Alterations in Camelids
 - 3.10.1. Blood Count
 - 3.10.2. Anemia
 - 3.10.3. Blood Biochemistry

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.

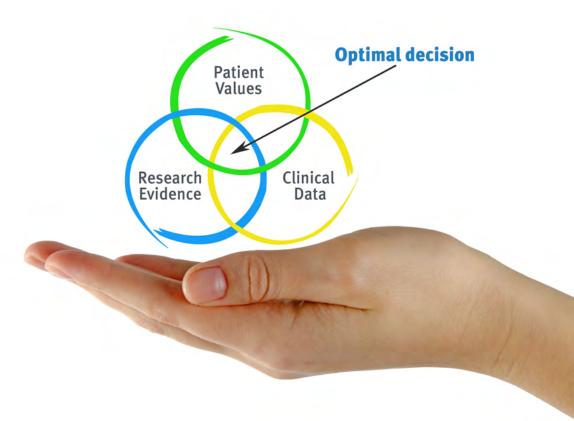
Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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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.



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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.



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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.

20%

15%

3%

15%

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.

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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.

20%

7%

3%

17%



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



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

tech 32 | Certificate

This private qualification will allow you to obtain a **Postgraduate Diploma in Cardiorespiratory Medicine** 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** private qualification 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 Cardiorespiratory Medicine

Modality: online

Duration: 6 months

Accreditation: 18 ECTS



tecn global university Postgraduate Diploma Cardiorespiratory Medicine » Modality: online

- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Diploma Cardiorespiratory Medicine

