

# Postgraduate Certificate

## Sports Injuries and Management in Horses

Endorsed by the NBA





## Postgraduate Certificate Sports Injuries and Management in Horses

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/pk/physiotherapy/postgraduate-certificate/sports-injuries-management-horses](http://www.techtute.com/pk/physiotherapy/postgraduate-certificate/sports-injuries-management-horses)

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# 01

# Introduction

Horses involved in professional sports may sustain certain injuries throughout their careers. Therefore, it is important that physiotherapists carry out accurate diagnoses and treatments that help them to make quick recoveries, allowing the animal's sporting career to be extended. If you want to specialize in the main injuries that affect these animals, don't think twice and specialize with us.





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*We offer you comprehensive training that will allow you to effectively diagnose and treat sports injuries in horses, achieving better benefits in their recovery”*

The study of musculoskeletal problems in horses is a complex process, but it is of considerable impact in Equine Physiotherapy. It is one of the most frequent causes of decreased performance in this species and, therefore, can represent a significant economic loss for the owner in the case of competition or race horses. That's why, carrying out precise diagnoses of sports injuries is vitally important to improve the health of these animals, achieving better performance both in the short and long term.

In this program we will define the most common musculoskeletal pathologies, taught by anatomical areas and presenting the latest advances in diagnosis, as well as the approach at field or hospital level. In this way, the physiotherapist will be able to increase their capacity to treat this type of pathologies, achieving successful therapeutic interventions for their patients.

This Postgraduate Certificate provides students with specialized tools and skills to successfully develop their professional activity, work on key competencies such as knowledge of the reality and daily practice of the veterinary professional, and develop responsibility in the monitoring and supervision of their work, as well as communication skills within the essential teamwork.

As it is an online program, students will not be bound by fixed schedules or the need to move to another physical location, but rather, they can access the content at any time of the day, balancing their professional or personal life with their academic life.

This **Postgraduate Certificate in Sports Injuries and Management in Horses** contains the most complete and up-to-date educational program on the market. The most outstanding characteristics of this program are:

- ◆ Practical cases presented by experts in equine physiotherapy and rehabilitation
- ◆ 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
- ◆ Practical exercises where self-assessment can be used to improve learning
- ◆ Special emphasis on innovative methodologies in sports injuries and management in horses
- ◆ 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 Certificate with us. It's the perfect opportunity to advance in your career"*

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*This Postgraduate Certificate is the best investment you can make in selecting a refresher program to update your knowledge in Sports Injuries and Management in Horses"*

Its teaching staff includes professionals from the field of physiotherapy, 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 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 purpose, the professional will be assisted by an innovative interactive video system developed by renowned and experienced experts in sports injuries and horse handling.

*This program comes with the best educational material, providing you with a contextual approach that will facilitate your learning.*

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



# 02 Objectives

The Postgraduate Certificate in Sports Injuries and Management in Horses is aimed at facilitating the professional's performance with the latest advances and most innovative treatments in the sector.





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*Our goal is to provide quality training  
so that our students become the  
best in their profession"*



## General Objectives

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- ◆ Develop the most common pathologies of the locomotor system in equine athletes, their diagnosis and possibilities for conventional treatments and physiotherapy
- ◆ Present new techniques for the diagnosis and monitoring of injuries caused by pathologies
- ◆ Propose new treatments based on publications and analyze previous treatments
- ◆ Establish general recommendations for the treatment design and rehabilitation of injuries



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





## Specific Objectives

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- ◆ Present the most frequent pathologies by region, as well as their etiopathology, diagnosis, treatment and rehabilitation
- ◆ Recognize clinical signs associated with each pathology
- ◆ Evaluate treatment options for each pathology according to scientific publications and experience
- ◆ Compile images according to the pathology to present examples of clinical cases
- ◆ Establish differential diagnoses that cause similar clinical signs
- ◆ Develop different therapies for each pathology
- ◆ Generate methodical knowledge for the diagnosis of forelimb lameness
- ◆ Determine guidelines for the design of individualized rehabilitation programs

# 03

# Course Management

The program includes in its teaching staff leading experts in Equine Physiotherapy and Rehabilitation who bring to this training the experience of their work. They are world-renowned professionals from different countries with proven theoretical and practical professional experience.



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*Our teaching team is the most complete and successful on the educational scene"*

## Management



### Dr. Hernández Fernández, Tatiana

- ◆ PhD in Veterinary Medicine from the UCM
- ◆ Diploma in Physiotherapy at the URJC
- ◆ Degree in Veterinary Medicine from the UCM
- ◆ Professor at the Complutense University of Madrid of: Postgraduate Diploma in Equine Physiotherapy and Rehabilitation, Postgraduate Diploma in Bases of Animal Rehabilitation and Physiotherapy, Postgraduate Diploma in Physiotherapy and Rehabilitation of Small Animals, Training Diploma in Podiatry and Shoeing
- ◆ Resident in the area of Equidae at the Clinical Veterinary Hospital of the UCM
- ◆ Practical experience of more than 500 hours in hospitals, sports centers, primary care centers and human physical therapy clinics.
- ◆ More than 10 years working as a specialist in rehabilitation and physiotherapy

## Professors

### Dr. Argüelles Capilla, David

- ◆ PhD in Veterinary Medicine from the Autonomous University of Barcelona (UAB)
- ◆ Degree in Veterinary Medicine from the Autonomous University of Barcelona (UAB)
- ◆ Master's Degree in Equine Medicine and Surgery from the UAB
- ◆ Finnish Equine Veterinary Postgraduate Diploma: Hevossairauksien Eirokoiseläinlääkäri.
- ◆ Member of MRVCS, AVEE and ECVS
- ◆ Speaker at national and international congresses and courses on equine surgery and sports medicine
- ◆ Equine Surgeon and Distinguished Research Professor- HCV of the University of Cordoba."

### Dr. Luna Correa, Paulo Andrés

- ◆ Graduate in Veterinary Medicine, National University of Rio Cuarto URC, Córdoba, Argentina
- ◆ Postgraduate in Physiotherapy and Rehabilitation of Sport Equine, in IACES, with Equidynamics by MV Marta García Piqueres, Madrid, Spain.
- ◆ Master's Degree in Equine Sports Medicine, University of Cordoba, UCO, Spain
- ◆ Associate Professor in the Department of Domestic Animal Anatomy at the National University of Rio Cuarto, UNRC, Córdoba, Argentina - 2019
- ◆ 2018-2020 Equine Physiotherapy and Rehabilitation Practice in my personal venture: eKine."

**Ms. Boado Lama, Ana**

- ◆ Graduated from the Complutense University of Madrid.
- ◆ Internship at the Animal Health Trust, Newmarket
- ◆ Residency in Orthopedics at the University of Edinburgh, UK.
- ◆ Certificate in Equine Surgery (Orthopedics) from the Royal College of Veterinary Surgeons, UK.
- ◆ Advanced Practitioner of Equine Surgery (Orth) (RCVS)
- ◆ Diploma in Sports Medicine and Rehabilitation (American and European)
- ◆ Member of the British Veterinary Association (BEVA) and the Spanish Association of Equine
- ◆ Speaker at international and national congresses and courses
- ◆ Teacher during residency for fourth and fifth year students at the University of Edinburgh and postgraduate Master's students
- ◆ Teacher in CPD courses for veterinarians in the field of equine traumatology.
- ◆ Teacher in Master's Degree in Physiotherapy at the Complutense University of Madrid
- ◆ Specialized Equine Sports Medicine and Rehabilitation Service (August 2008-present)



# 04

# Structure and Content

The structure of the content has been designed by the best professionals in the Equine Physiotherapy and Rehabilitation sector, 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.





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

**Module 1.** Common Injuries in Sport Horses: Diagnosis, Conventional Treatment, Rehabilitation Programs and Physiotherapy Thoracic Limb Part I

- 1.1. Introduction
- 1.2. Hoof
  - 1.2.1. Capsule: Laminitis, Quarters and Canker
  - 1.2.2. Arthrosis
  - 1.2.3. Collateral
  - 1.2.4. Deep Flexor
  - 1.2.5. Podotrochlear Apparatus
  - 1.2.6. Phalanges
- 1.3. Metacarpo-Phalangeal Joint
- 1.4. Digital Sheath
- 1.5. Metacarpal Region
  - 1.5.1. Superficial Digital Flexor
  - 1.5.2. Deep Digital Flexor
  - 1.5.3. *Ligament Check*
  - 1.5.4. Suspensory Ligament
- 1.6. Pathology of the Carpus
- 1.7. Carpal Sheath
- 1.8. Radius, Elbow and Shoulder Pathology
- 1.9. Conventional Treatments of the Most Frequent Pathologies of the Thoracic Limb and Their Monitoring
- 1.10. Physiotherapeutic Treatments, Rehabilitation Protocols and Physiotherapy Treatment of the Most Frequent Pathologies of the Thoracic Limb
  - 1.10.1. Particularities According to Sports Discipline: Dressage/Jumping/Raid/Complete/Speed





## Module 2. Common Injuries in Sport Horses: Diagnosis, Conventional Treatment, Rehabilitation Programs and Physiotherapy Pelvic Limb Part II

- 2.1. Introduction
- 2.2. Common Pathologies Distal to the Tarsus in the Pelvic Limb
  - 2.2.1. Hoof
  - 2.2.2. Metacarpo-Phalangeal Joint
  - 2.2.3. Sheath and Tendons
- 2.3. Suspensory Ligament of the Fetlock
- 2.4. Tarsal Pathology
- 2.5. Tibia and Stifle Pathology
- 2.6. Hip and Pelvis Pathology
- 2.7. Spine Pathology
  - 2.7.1. Cervical Pathology
  - 2.7.2. Toracic Pathology
    - 2.7.2.1. Spinal Processes
    - 2.7.2.2. Joint Facets
    - 2.7.2.3. Vertebral Bodies
  - 2.7.3. Lumbo-Sacral-Iliac
- 2.8. Conventional Treatments of the Most Frequent Pathologies of the pelvic Limb and Spine
  - 2.8.1. Arthrosis
  - 2.8.2. Bone Tissue
  - 2.8.3. Soft Tissues
- 2.9. Physiotherapeutic Treatments, Rehabilitation Protocols of the Most Frequent Pathologies of the Pelvic Limb and Spine
  - 2.9.1. Particularities According to Sports Discipline
- 2.10. Monitoring of Pelvic Limb and Spine Injuries

# 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, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Physiotherapists/kinesiologists 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, trying to recreate the real conditions of professional physiotherapy 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. Physiotherapists/kinesiologists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the physiotherapist/kinesiologist 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. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more 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.



*The physiotherapist/kinesiologist will learn through real cases and by solving 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 we trained more than 65,000 physiotherapists/kinesiologists with unprecedented success in all clinical specialties, regardless of the workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*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 our 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 really 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.



#### Physiotherapy Techniques and Procedures on Video

TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. 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 them as many times as you want.



#### 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.

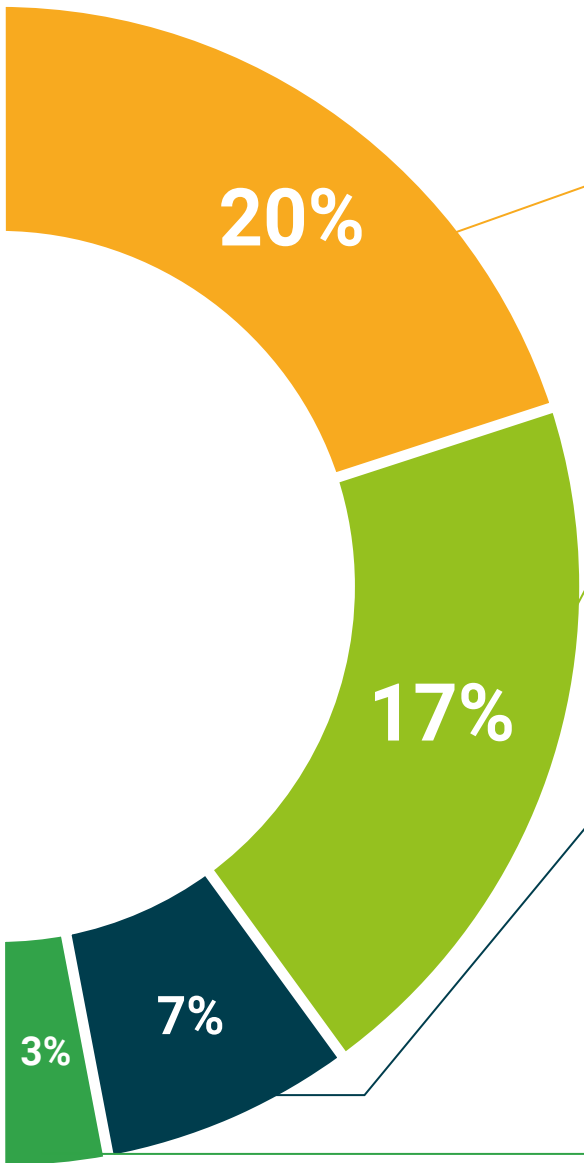
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



#### 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 on the usefulness of learning by observing experts. The system known as 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 Sports Injuries and Management in Horses 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 Sports Injuries and Management in Horses** contains the most complete and up-to-date educational 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 in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Sports Injuries and Management in Horses**

Official N° of Hours: **300 h.**

Endorsed by the NBA



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

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



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**tech** technological  
university