

# Postgraduate Certificate

## Pelvic Fractures





## Postgraduate Certificate Pelvic Fractures

Course Modality: Online

Duration: 6 weeks

Certificate: TECH - Technological University

6 ECTS Credits

Teaching Hours: 150 hours.

Website: [www.techitute.com/us/veterinary/postgraduate-certificate/pelvic-fractures](http://www.techitute.com/us/veterinary/postgraduate-certificate/pelvic-fractures)

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01

# Introduction

Pelvic fractures account for 20-30% of all fractures in small animals, which is a high incidence in the clinical situation of trauma and orthopedic services in veterinary hospitals and clinics. Therefore, they require the training and specialization of veterinary professionals.



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*This training is the best option you can find to specialize in Pelvic Fractures”.*

The teaching team of this Postgraduate Certificate in Pelvic Fractures has made a careful selection of the different state-of-the-art techniques for experienced professionals working in the veterinary field.

Pelvic fractures are characterized by commonly affecting more than one of the bones of the pelvis or associated adjoining structures, a situation that requires the clinician to have a detailed knowledge of the anatomy and biomechanics of the pelvis in order to achieve an optimal therapeutic outcome in each patient.

It is of vital importance to know the pathophysiological alterations that can be found in a patient with a pelvic fracture, since most of these presentations are associated with high-energy trauma, such as traffic accidents or falls from high altitudes.

For this reason, and due to the anatomical relationships of the pelvis, this program explains what injuries can be found associated with these fractures (damage to neurological structures, abdominal organs and abdominal wall injuries, among others), as well as in other regions distant from the pelvis (thoracic injuries or craniocerebral trauma, for example) in order to offer a comprehensive therapeutic management to our patient.

From the therapeutic point of view, multiple options have been described for the management of these pelvic fractures, ranging from conservative treatment to surgical therapy with pins, screws, plates and external fixators. This is why the veterinary traumatologist must specialize in the various options and recommendations in each case in order to choose the most appropriate treatment according to the clinical presentation.

The teachers in this training are university professors with between 10 and 50 years of classroom and hospital experience. They are professors from schools on different continents, with different ways of doing surgery and with world-renowned surgical techniques. This makes this program a unique specialization program, different from any other that may be offered at this moment in the rest of the universities.

Being an online program, the student is not constrained by fixed schedules or the need to move to another physical location, but can access the contents at any time of the day, balancing their work or personal life with their academic life as they wish.

This **Postgraduate Certificate in Pelvic Fractures** 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 veterinary food safety.
- ◆ 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.
- ◆ News on Pelvic Fractures
- ◆ Practical exercises where self-assessment can be used to improve learning.
- ◆ Special emphasis on innovative methodologies in Pelvic Fractures.
- ◆ 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



*Do not miss the opportunity to take with us this Postgraduate Certificate in Pelvic Fractures. It's the perfect opportunity to advance your career".*

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*This program is the best investment you can make in selecting a refresher program to update your knowledge in Pelvic Fractures."*

Its teaching staff includes professionals from the veterinary field, who bring the experience of their work to this training, as well as recognised 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 training programmed to train in real situations.

The design of this program focuses on problem-based learning, by means of which the specialist must try to solve the different professional practice situations that arise throughout the academic program. For this purpose, the professional will be assisted by an innovative interactive video system developed by renowned and experienced pelvic fracture experts.

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

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



# 02

# Objectives

The Postgraduate Certificate in Pelvic Fractures is aimed at facilitating the performance of the professional with the latest advances in the sector.





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*This is the best option to learn about the main developments in Pelvic Fractures”.*



## General Objectives

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- Detail the anatomy of the pelvic region, as well as closely related regions.
- Identify "candidate patients" for conservative or surgical treatment following a pelvic fracture.
- Specialize in the various systems of fixation of pelvic fractures.
- Establish the main complications associated with pelvic fractures.
- Evaluate the immediate post-surgical needs in patients with pelvic fractures, as well as their medium and long term evolution.



*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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- ♦ Analyze and identify the clinical features associated with a pelvic fracture.
- ♦ Recognize and evaluate the various factors in patients with pelvic fractures that allow us to make an accurate prognosis.
- ♦ Perform surgical approaches in the various anatomical regions where therapeutic procedures are performed.
- ♦ Apply the various conservative therapies in patients with pelvic fractures, both in the initial stages and in the subsequent weeks of recovery.
- ♦ Specialize the veterinary professional in the performance of standard and proper maneuvers in the reduction of pelvic fractures.
- ♦ Select the appropriate surgical implant for each type of pelvic pathology, identifying the advantages and disadvantages of each case.
- ♦ Specialize the veterinary professional in the surgical techniques characteristic of specific pelvic pathologies.
- ♦ Perform a correct analgesic management of patients in their immediate and medium and long term postoperative period.
- ♦ Develop the main methods of rehabilitation and return of functionality of patients with pelvic fractures.

03

# Course Management

The program includes in its teaching staff experts of reference in Veterinary Traumatology and Orthopedic Surgery who bring to this training the experience of their work. They are world-renowned doctors from different countries with proven theoretical and practical professional experience.



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*Leading professionals in the field have come together to share with you all their knowledge on traceability in the food industries.”*

## Director



### Dr. Soutullo Esperón, Ángel

- ♦ Degree in Veterinary Medicine from the Complutense University of Madrid, 1994.
- ♦ Diploma of Advanced Studies in Veterinary Medicine from the Complutense University of Madrid 2010.
- ♦ Member of the Scientific Committee of GEVO and AVEPA 2014.
- ♦ Master's Degree in Surgery and Traumatology Universidad Complutense de Madrid 1996.
- ♦ Lecturer at the Alfonso X el Sabio University 2005-2010 in the subjects of Radiology, Surgical Pathology and Surgery.
- ♦ Responsible for the surgical section in the 2011 AEVA Master's Degree in small animal emergencies.
- ♦ Owner of the veterinary clinic ITECA 1996-2011.
- ♦ Head of the surgery service at the University Hospital of the Alfonso X el Sabio University 2005-2010.
- ♦ Study of the clinical repercussions of corrective osteotomies in tplo (TFG Meskal Ugatz 2018).
- ♦ Study of the clinical repercussions of corrective osteotomies in tplo (TFG Ana Gandia 2020).
- ♦ Studies of biomaterials and xenografts for orthopaedic surgery 2010-2018.

## Professors

### Dr. Serra Aguado, Claudio Iván

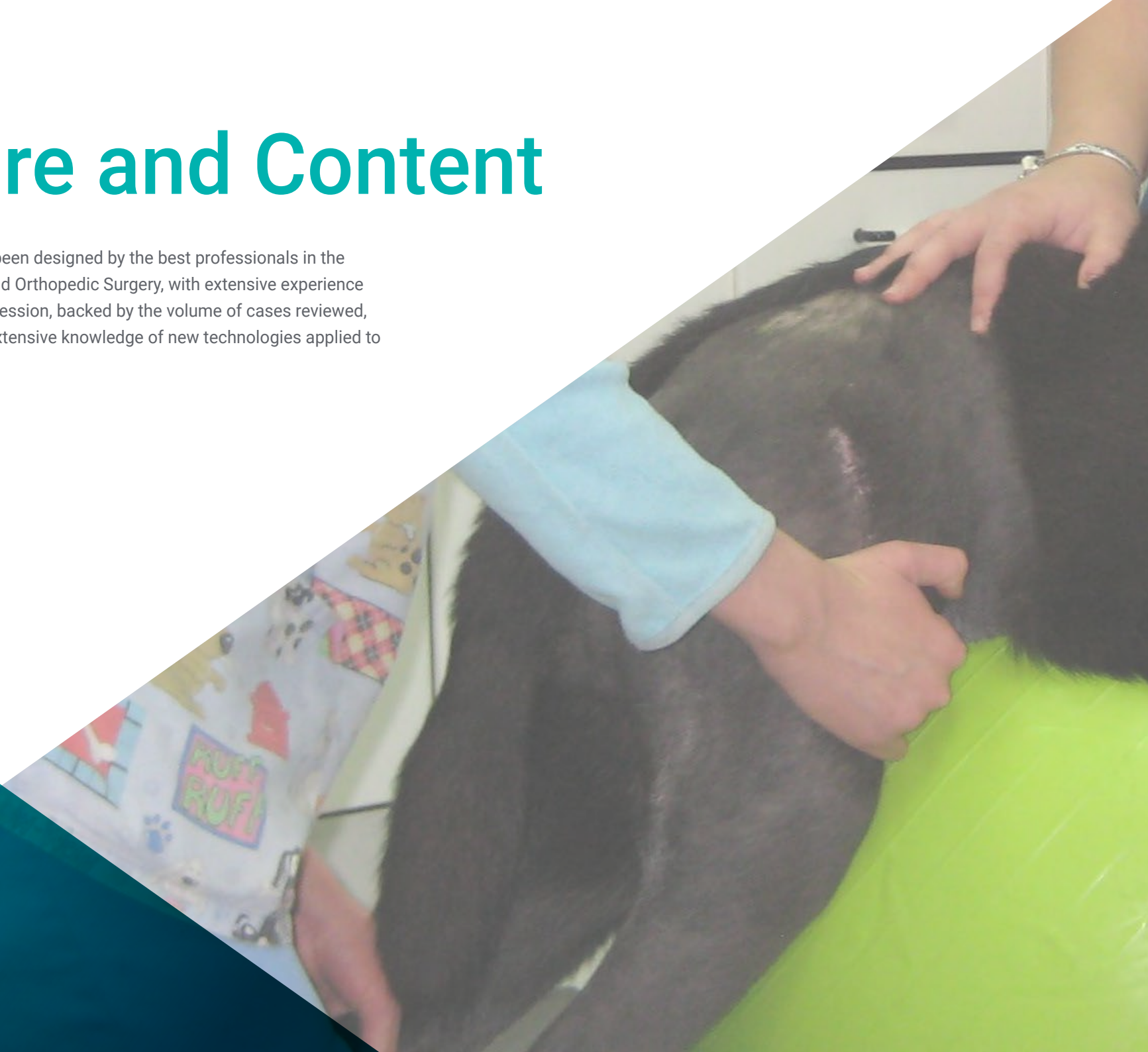
- ♦ Graduate from the Cardenal Herrera-CEU University of Valencia.
- ♦ Accredited by AVEPA in the speciality of Traumatology and Orthopedics.
- ♦ Associate Professor, Department of Animal Medicine and Surgery, Faculty of Veterinary Medicine, Complutense University of Valencia.



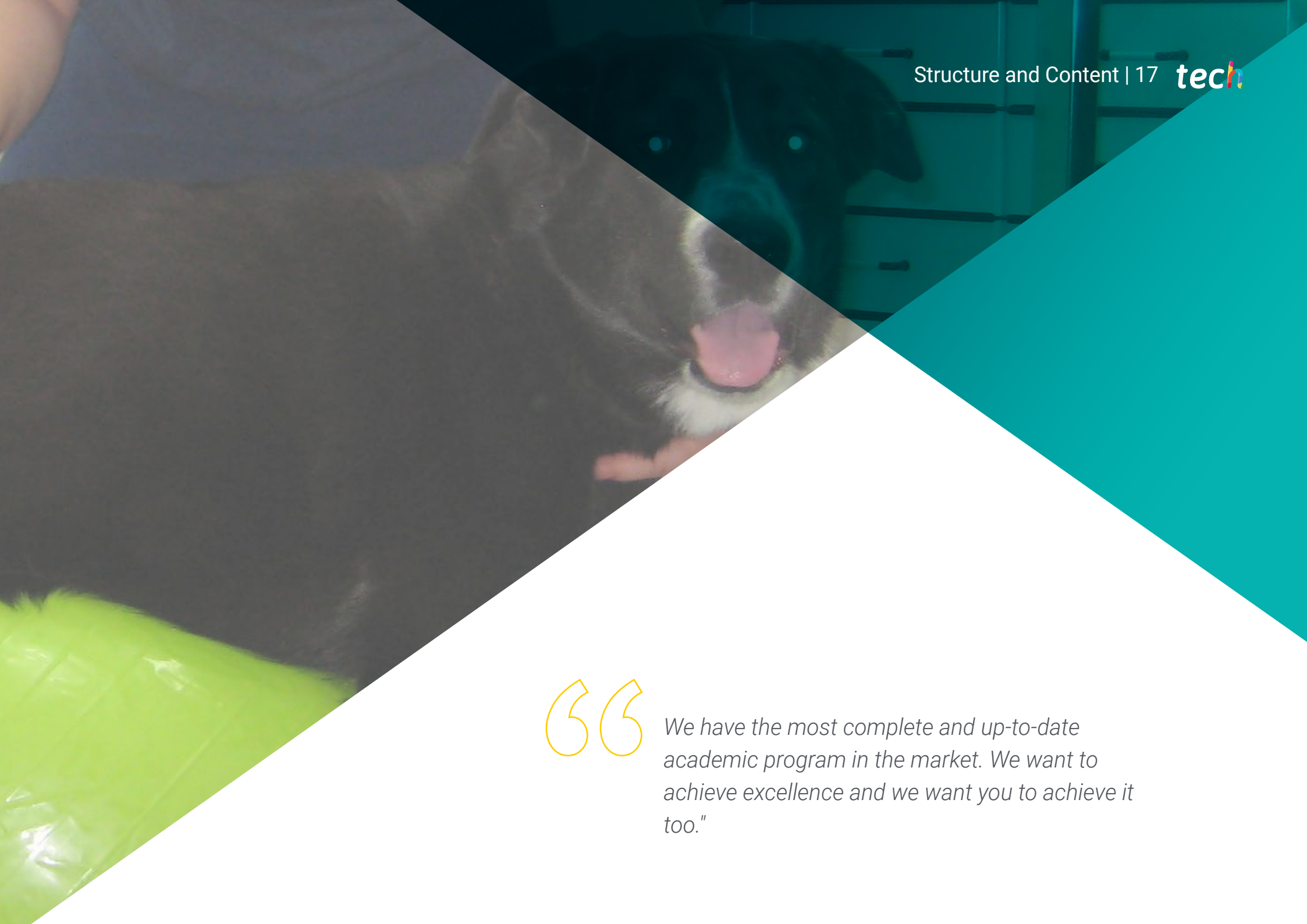
04

# Structure and Content

The structure of the contents has been designed by the best professionals in the field of Veterinary Traumatology and Orthopedic Surgery, 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.







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*We have the most complete and up-to-date academic program in the market. We want to achieve excellence and we want you to achieve it too.”*

## Module 1. Pelvic Fractures

- 1.1 Anatomy of the Pelvis
  - 1.1.1. General Considerations
- 1.2. Non-surgical Group
  - 1.2.1. Stable Fractures.
  - 1.2.2. Weight of the Patient
  - 1.2.3. Patient's Age
- 1.3. Surgical Group
  - 1.3.1. Intra-articular Fracture
  - 1.3.2. Closure of the Pelvic Canal.
  - 1.3.3. Joint Instability of One Hemipelvis
- 1.4. Separation Fracture of the Sacro-Iliac Joint
  - 1.4.1. Surgical Approach for its Reduction and Fixation
  - 1.4.2. Examples of Fractures Treated Surgically
- 1.5. Fractures of the Acetabulum
  - 1.5.1. Examples of Fractures Treated Surgically
- 1.6. Fracture of the Ilium
  - 1.6.1. Surgical Approach to the Lateral Surface of the Ilium
  - 1.6.2. Examples of Surgically Treated Cases
- 1.7. Ischial Fractures
  - 1.7.1. Surgical Approach to the Ischium Body
  - 1.7.2. Examples of Surgically Treated Cases
- 1.8. Pubic Symphysis Fractures
  - 1.8.1. Surgical Approach to the Ventral Surface of the Pubic Symphysis
  - 1.8.2. Repair Methods
- 1.9. Fractures of the Ischial Tuberosity
  - 1.9.1. Surgical Approach
  - 1.9.2. Healed, Non-reduced, Compressive Fractures of the Pelvis
- 1.10. Postoperative Management of Pelvic Fractures
  - 1.10.1. The Use of the Harness
  - 1.10.2. Water Bed
  - 1.10.3. Neurological Damage
  - 1.10.4. Rehabilitation and Physiotherapy
  - 1.10.5. Radiographic Studies and Evaluation of the Implant and Bone Repair





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*A comprehensive teaching program, structured in well-developed teaching units, oriented towards learning that is compatible with your personal and professional life"*

05

# Methodology

This training provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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.





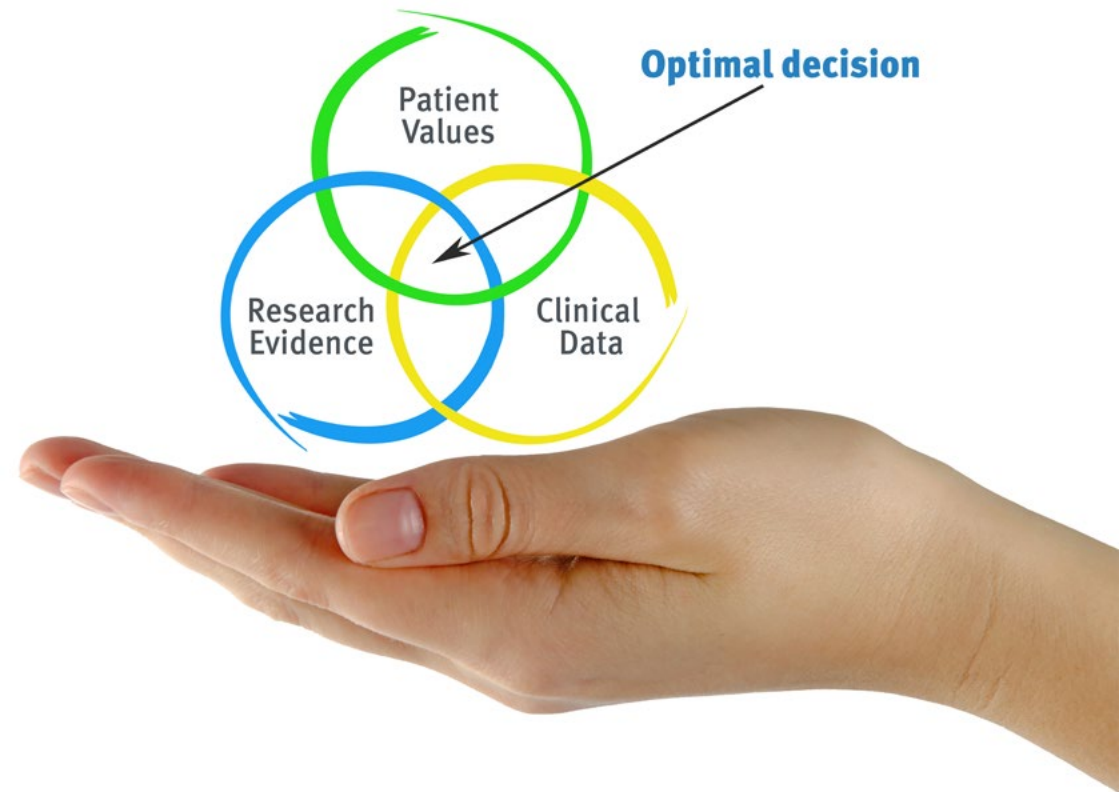
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*Successfully complete this training program and receive your university certificate without travel or laborious paperwork"*

## At TECH we use the Case Method

In a given clinical situation, what would you do? 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 can experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case be based on current professional life, trying to recreate the real conditions in the 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 achieve the assimilation of concepts, but also a development of their mental capacity through exercises to evaluate real situations and the application of knowledge.
2. The learning process has a clear focus on 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. La sensación de eficiencia del esfuerzo invertido se convierte en un estímulo muy importante para el veterinario, que se traduce en un interés mayor en los aprendizajes y un incremento del tiempo dedicado a trabajar en el programa.



## Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

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

*Re-learning 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 to success.*

In our program, learning is not a linear process, but rather a spiral (we 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.



In this program you will have access to the best educational material, prepared with you in mind:



### Study Material

All didactic contents are created by the specialists who will be teaching the program, specifically for it, so that the didactic development is really specific and concrete.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



### Latest Techniques and Procedures on Video

We bring you closer to the latest Techniques, to the latest Educational Advances, to the forefront of current Veterinary Techniques and Procedures. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



### Interactive Summaries

We present 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, international guides. in our virtual library you will have access to everything you need to complete your training.





**Expert-led case studies and case analysis**

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through the development of attention and the resolution of different situations: a clear and direct way to achieve the highest degree of understanding.



**Testing & Retesting**

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your 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 our difficult future decisions.



**Quick Action Guides**

We provide you with the most important contents of the program in the form of fact sheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



# 06 Certificate

The **Postgraduate Certificate in Pelvic Fractures** guarantees you, in addition to the most rigorous and up to date training, access to a degree issued by the first educational institution, the **Technological University - TECH**.



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*Successfully complete this training and receive your university degree without travel or laborious paperwork”.*

This **Postgraduate Certificate in Pelvic Fractures** contains the most complete and up to date scientific program on the market.

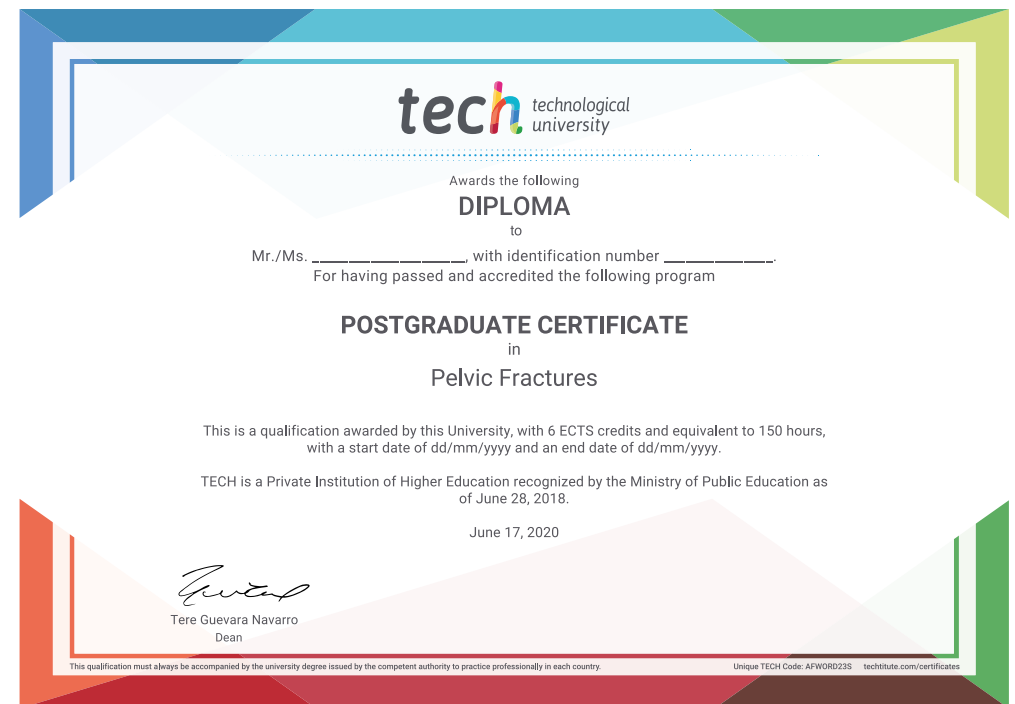
After the student has passed the evaluations, they will receive their corresponding **Postgraduate Certificate** issued by **TECH - Technological University**.

The diploma issued by **TECH - Technological University** will express the qualification obtained in the **Postgraduate Certificate** and will meet the requirements commonly demanded by job exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Pelvic Fractures**

ECTS: **6**

Official Number of Hours: **150 hours**.



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

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



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**Pelvic Fractures**

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