

# Postgraduate Diploma

## Basic Surgery in the Soft Tissues of Small Animals





## Postgraduate Diploma Basic Surgery in the Soft Tissues of Small Animals

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

Website: [www.techtute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-basic-surgery-soft-tissues-small-animals](http://www.techtute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-basic-surgery-soft-tissues-small-animals)

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# 01

# Introduction

The future of veterinary practice is specialization, so it is important that the healthcare professional continues to specialize in the areas that are of interest. In this case, this program aims to expand and update the knowledge of soft tissue surgery specialists.



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*This program is the best option you can find to specialize in Basic Surgery in the Soft Tissues of Small Animals and make more accurate diagnoses"*

The Postgraduate Diploma in Basic Surgery in the Soft Tissues of Small Animals is an educational course committed to educating high-quality professionals. It is a program designed by professionals specialized in each specific field who are faced with new surgical challenges every day.

Surgical procedures are a basic pillar in companion animal veterinary medicine, and as such, we must be properly prepared to face them. It is important to understand that surgery does not begin and end in the operating room, a good surgeon knows the diagnostic methods for each pathology, the different surgical options that can be applied and finally, provides the best pre and mainly, post-surgical care to obtain the best results.

The understanding and correct management of patients based on established principles is fundamental to obtain the best results. In addition, a thorough knowledge of physiology and understanding of anatomy are indispensable for the successful diagnosis and treatment of various diseases.

Knowing and being surrounded by the best tools, such as surgical materials and instruments, makes it easier to make decisions in the event of mishaps that may arise during surgery.

The student, after completing this Postgraduate Diploma, will have sufficient knowledge to deal with any surgery that arises in the soft tissue, gastrointestinal, genitourinary and breast fields. You will know from the first moment everything that a surgery entails, from the specific material and instruments for each region or surgery, anesthetics and medications used, to the most specific details that make a surgery a success.

This **Postgraduate Diploma in Basic Surgery in the Soft Tissues of Small Animals** contains the most complete and up-to-date educational program on the market.

The most important features include:

- ♦ The development of case studies presented by experts in Basic Surgery in the Soft Tissues of Small Animals
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ What's New in Basic Surgery in the Soft Tissues of Small Animals?
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Special emphasis on innovative methodologies in Thoracic Cavity Surgery in Small Animals
- ♦ 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



*If you want to advance your career, this is the perfect opportunity. Study this Postgraduate Diploma in Basic Surgery in the Soft Tissues of Small Animals with us and increase your skills"*

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*This University Postgraduate Diploma is the best investment you can make in selecting a refresher program to update your knowledge in Basic Surgery in the Soft Tissues of Small Animals"*

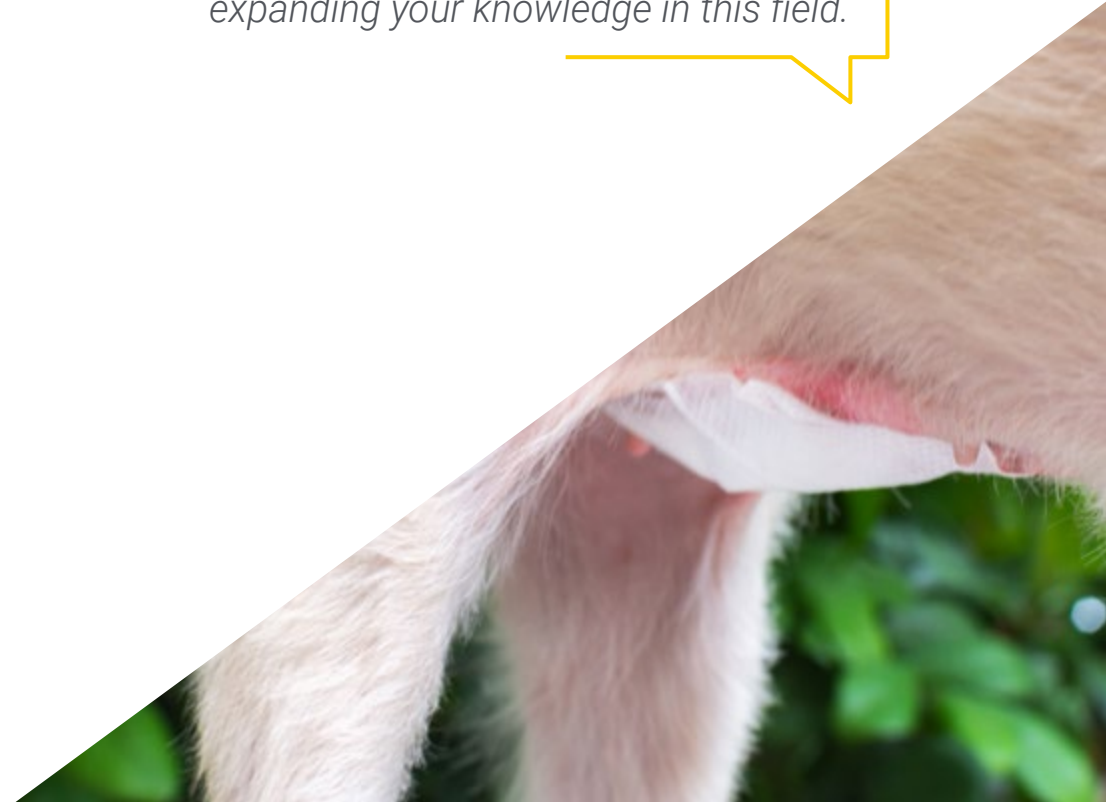
It includes in its teaching staff, professionals belonging to the field of Veterinary Surgery, who pour into this education the experience of their work, in addition to recognized specialists of leading societies and prestigious universities.

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. To do so, the professional will be assisted by an innovative system of interactive videos made by renowned and experienced Postgraduate Diplomas in Basic Surgery in the Soft Tissues of Small Animals.

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

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



# 02 Objectives

The Postgraduate Diploma in Basic Surgery in the Soft Tissues of Small Animals is aimed to facilitate the performance of the professional dedicated to Veterinary Medicine with the latest advances and newest treatments in the sector.





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*You will train with the elite in the veterinary field. You will be tutored by professionals specialized in small animal veterinary surgery with years of experience in the sector”*



## General Objectives

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- ♦ Establish a basis for aseptic compression sterility maintenance
- ♦ Highlight the importance of the perioperative care given to the surgical patient
- ♦ Define the basic surgical principles to take into account before we perform surgery
- ♦ Propose alternatives to deal with surgical complications that appear in daily clinical practice
- ♦ Provide the student with specialized knowledge to perform different surgical techniques
- ♦ Implement the most advanced general surgical knowledge to minimise postoperative complications
- ♦ Evaluate the most frequent complications and ensure the student acquires the knowledge to be able to confidently and successfully resolve them
- ♦ Present the pathophysiology and treatment of urinary obstruction and trauma
- ♦ Make a detailed report of the problems commonly caused by surgical treatment which can affect the genitourinary system
- ♦ Present the most advanced and innovative techniques for dealing with patients with genitourinary disease
- ♦ Provide the student with theoretical resources and graphic material to help them develop the necessary skills to successfully treat these cases





## Specific Objectives

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### **Module 1. Basic Principles of Soft Tissue Surgery. Medical-surgical Techniques. Exploratory Laparotomy.**

- ♦ Refine the rules of conduct for a surgeon
- ♦ Explain the correct use of tissue synthesis materials
- ♦ Develop knowledge of the surgical equipment available and promote its correct use
- ♦ Refine the surgical technique to minimize tissue damage
- ♦ Propose new hemostasis techniques
- ♦ Identify and successfully treat surgical site infections

### **Module 2. Gastrointestinal Surgery.**

- ♦ Examine the anatomy of the affected area and provide the student with the specialized knowledge to safely and appropriately perform the surgical procedures on the gastrointestinal tract
- ♦ Compile all the latest material and develop it in a clear way so that the student can get the most out of it
- ♦ Develop understanding of the most common surgical techniques in the gastrointestinal tract
- ♦ Propose diagnostic and therapeutic plans for the different diseases that affect the gastrointestinal tract
- ♦ Examine the unique tools used for the diagnosis of gastrointestinal tract diseases
- ♦ Explain in detail the different diseases that can occur in each zone and how to treat them
- ♦ Develop specialized knowledge so that the student can perfect their clinical practice in the diagnosis and management of gastrointestinal tract diseases

### **Module 3. Genitourinary Surgery. Mammary Surgery.**

- ♦ Examine the most important anatomical considerations in the surgical treatment of genitourinary disease
- ♦ Consolidate knowledge of how certain surgical principles are applied in the treatment of urinary tracts
- ♦ Develop knowledge of the problems that occur when urine cannot be excreted from the patient's body
- ♦ Establish clear recommendations for the imaging techniques to choose to diagnose each disease
- ♦ Develop a detailed understanding of relevant surgical techniques
- ♦ Identify the most common complications in each surgical technique and how to prevent or solve them
- ♦ Propose protocols for making decisions in breast oncology
- ♦ Demonstrate the importance of peri-operative care of patients with breast tumors

03

# Course Management

The program's teaching staff includes leading experts in Veterinary Surgery in Small Animals, who contribute their vast work experience to this training program. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.





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*Thanks to this intensive program, you will learn how to correctly manage possible surgical and postoperative complications”*

## International Guest Director

Dr. Wendy Baltzer is a leading figure in the international veterinary community. Her passion and extensive experience in Veterinary Medicine have led her to become involved in the field of research in Small Animal Veterinary Surgery. In this way, she has multiple publications in academic and scientific media, most of them very well positioned, reflecting an index H 20 in Google Scholar.

Likewise, in her studies reflected in publications she defends the use of ultrasound and radiographs to predict the time of delivery in small animals, thereby reducing the likelihood of neonatal morbidity and mortality. In addition, she associates a decrease in pup vitality with the use of thiobarbiturates, ketamine and inhalation anesthetics.

Similarly, her work also focuses on the effects of oxidative stress on agility exercise in dogs, ligament and tendon injuries, improved impulse fracture repair, as well as injuries in working, sport, police and military dogs. She has also devoted much of her studies to osteoarthritis, low back pain, taping techniques and omentum grafting for bone healing.

She has taught at major academic institutions such as the **School of Veterinary Science at Massey University**, as well as **Oregon State University**. In the latter, she held a position of high responsibility, occupying the position of director of its Rehabilitation Center. Likewise, her work at **Sydney University** focuses on teaching the clinical practice of **Small Animal Surgery**, while continuing to develop her research in the fields of **Surgery, Sports Medicine and Rehabilitation**.



## Dr. Baltzer, Wendy

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- Head of Veterinary Surgery at the University of Sydney
- Director of the Rehabilitation Center at the University of Oregon
- Associate Professor in the School of Veterinary Science at the University of Sydney
- Ph.D. in Veterinary Physiology, Texas A&M University
- Specialist in Small Animal Surgery at Texas A&M University

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*Thanks to TECH you will be able to learn with the best professionals in the world"*

## Management



### Dr. Ortiz Díez, Gustavo

- ♦ 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
- ♦ Head of the Department of Soft Tissue Surgery and Minimally Invasive Procedures at the Veterinary Specialties Hospital 4 Octubre (Arteixo, La Coruña, Spain)
- ♦ PhD and Undergraduate Degree in Veterinary Medicine from the UCM
- ♦ AVEPA Accredited Soft Tissue Surgery
- ♦ Member of the scientific committee and current president of GECIRA (AVEPA's Soft Tissue Surgery Specialty Group)
- ♦ Master's Degree in Research Methodology in Health Sciences from the UAB
- ♦ ICT competencies course for teachers by UNED
- ♦ Specialist in Traumatology and Orthopedic Surgery in Companion Animals by the UCM. Degree in Small Animal Cardiology from the UCM
- ♦ Courses of laparoscopic and thoracoscopic surgery at the Minimally Invasive Center Jesús Usón. Accredited in functions B, C, D and E of Experimentation Animals by the Community of Madrid
- ♦ Degree in Emotional Intelligence by UR. Completed training in Gestalt psychology





## Professors

### Dr Carrillo Sánchez, Juana Dolores

- ◆ PhD from the University of Murcia (2015)
- ◆ Degree in Veterinary Medicine from the University of Murcia (2002)
- ◆ Specialist in Endoscopy and Minimally Invasive Surgery in small animals. University of Extremadura (2019)
- ◆ Head of Surgery and Traumatology Service at the Clinical Veterinary Hospital of the University of Murcia (Since 2014)

### Dr. López Gallifa, Raúl

- ◆ PhD from University of Alfonso X el Sabio in 2017
- ◆ Degree in Veterinary Medicine from the University Alfonso X el Sabio in 2012. Professional Master's Degree (2012-2013)
- ◆ Master in Soft Tissue Surgery and Traumatology at the Hospital Clínico Veterinario UAX (2013-2016)
- ◆ Attending the AVEPA accreditation course in soft tissue surgery. Since 2017
- ◆ Outpatient surgeon and surgical consultant in various clinics in the Community of Madrid

### Dr Suárez Redondo, María

- ◆ PhD from the Complutense University of Madrid (UCM) in 2008
- ◆ Degree in Veterinary Medicine from the University of León 2003
- ◆ Master's Degree in Traumatology and Orthopedic Surgery of the UCM
- ◆ Small Animal Surgeon at the Veterinary Clinic Hospital at UCM

04

# Structure and Content

The structure of the content has been designed by leading professionals in the Veterinary Surgery 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 to Veterinary Science.





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*This Postgraduate Diploma in Basic Surgery in the Soft Tissues of Small Animals contains the most complete and up-to-date scientific program on the market”*

**Module 1.** Basic Principles of Soft Tissue Surgery. Medical-surgical Techniques. Exploratory Laparotomy.

- 1.1. Principles of Asepsis and Sterilization
  - 1.1.1. Definition of the Concepts of Asepsis, Antisepsis and Sterilization
  - 1.1.2. Main Methods for Disinfection
  - 1.1.3. Main Methods for Sterilization
- 1.2. The Operating Room
  - 1.2.1. Preparation of Surgical Personnel
  - 1.2.2. Hand Washing
  - 1.2.3. clothing
  - 1.2.4. Preparation of the Operating Environment
  - 1.2.5. Sterilization Maintenance
- 1.3. Instruments
  - 1.3.1. General Materials
  - 1.3.2. Specific Materials
- 1.4. Hemostasis. Sutures. Alternative Hemostasis Methods
  - 1.4.1. Hemostasis Physiopathology
  - 1.4.2. Suture Features
  - 1.4.3. Suture Materials
  - 1.4.4. Suture Patterns
  - 1.4.5. Alternative Techniques of Hemostasis
- 1.5. Surgical Site Infection (SSI)
  - 1.5.1. Nosocomial Infections
  - 1.5.2. Definition of ISQ. Types of ISQ
  - 1.5.3. Types of Surgery
  - 1.5.4. Risk Factors
  - 1.5.5. Treatment of SSI
  - 1.5.6. Use of Antimicrobials
  - 1.5.7. Precautions to Avoid SSI





- 1.6. Surgical Defects. Bandages and Drainage
  - 1.6.1. Use of Cutting Instruments
  - 1.6.2. Use of Gripping Instruments
  - 1.6.3. Use of Retractors
  - 1.6.4. Aspiration
  - 1.6.5. Bandages
  - 1.6.6. Drainages
- 1.7. Electrosurgery and Lasers.
  - 1.7.1. Physical Principles
  - 1.7.2. Monopolar
  - 1.7.3. Bipolar
  - 1.7.4. Sealants
  - 1.7.5. Basic Rules of Use
  - 1.7.6. Main Techniques
  - 1.7.7. Laser
    - 1.7.7.1. CO2 Laser
    - 1.7.7.2. Diode Laser
- 1.8. Postsurgical Monitoring and Care
  - 1.8.1. Nutrition
  - 1.8.2. Pain Management
  - 1.8.3. Decubitus Patients
  - 1.8.4. Renal Monitoring
  - 1.8.5. Hemostasis
  - 1.8.6. Hyperthermia and Hypothermia
  - 1.8.7. Anorexia
- 1.9. Medical-surgical Procedures
  - 1.9.1. Feeding Tubes
    - 1.9.1.1. Nasoesophageal
    - 1.9.1.2. Esophagostomy
    - 1.9.1.3. Gastronomy
  - 1.9.2. Thoracostomy Tubes
  - 1.9.3. Temporary Tracheostomy

- 1.9.4. Other Procedures
  - 1.9.4.1. Abdominocentesis
  - 1.9.4.2. Jejunostomy Probes
- 1.10. Exploratory Laparotomy. Abdominal Cavity Closure.
  - 1.10.1. Abdominal Opening and Closure.
  - 1.10.2. Topographic Anatomy

## Module 2. Gastrointestinal Surgery.

- 2.1. Anatomy of the Gastrointestinal Tract
  - 2.1.1. Stomach
  - 2.1.2. Small Intestine
  - 2.1.3. Large Intestine
- 2.2. General aspects
  - 2.2.1. Sutures and Materials
  - 2.2.2. Laboratory and Imaging Tests
- 2.3. Stomach.
  - 2.3.1. Surgical Principles
  - 2.3.2. Clinical Stomach Pathologies
  - 2.3.3. Foreign Bodies
  - 2.3.4. Gastric Dilatation-Volvulus Syndrome
  - 2.3.5. Gastropexy
  - 2.3.6. Gastric Retention and Obstruction
  - 2.3.7. Gastroesophageal Intussusception
  - 2.3.8. Hiatal Hernia
  - 2.3.9. Neoplasty
- 2.4. Surgical Techniques
  - 2.4.1. Biopsy Sampling
  - 2.4.2. Gastrotomy
  - 2.4.3. Gastrectomy
    - 2.4.3.1. Simple Gastrectomy
    - 2.4.3.2. Billroth I
    - 2.4.3.3. Billroth II
- 2.5. Small Intestine
  - 2.5.1. Surgical Principles
  - 2.5.2. Clinical Pathologies of the Small Intestine
    - 2.5.2.1. Foreign Bodies
      - 2.5.2.1.1. Non-linear
      - 2.5.2.1.2. Linear
    - 2.5.2.2. Duplication of the Intestinal Wall
    - 2.5.2.3. Intestinal Perforation
    - 2.5.2.4. Intestinal Incarceration
    - 2.5.2.5. Intestinal Intussusception
    - 2.5.2.6. Mesenteric Volvulus
    - 2.5.2.7. Neoplasty
- 2.6. Surgical Techniques
  - 2.6.1. Biopsy Sampling
  - 2.6.2. Enterotomy
  - 2.6.3. Enterectomy
  - 2.6.4. Enteroplication
- 2.7. Large Intestine
  - 2.7.1. Surgical Principles
  - 2.7.2. Clinical Pathologies
    - 2.7.2.1. Ileocolic Intussusception or Cecal Inversion
    - 2.7.2.2. Megacolon
    - 2.7.2.3. Transmural Migration
    - 2.7.2.4. Neoplasty
- 2.8. Surgical Techniques
  - 2.8.1. Biopsy Sampling
  - 2.8.2. Typhlectomy
  - 2.8.3. Colopexy
  - 2.8.4. Colotomy
  - 2.8.5. Colectomy

- 2.9. Rectum
  - 2.9.1. Surgical Principles
  - 2.9.2. Clinical Pathologies and Rectum Surgical Techniques
    - 2.9.2.1. Rectal Prolapse
    - 2.9.2.2. Anal Atresia
    - 2.9.2.3. Neoplasty
- 2.10. Perianal Zone and Anal Sacs
  - 2.10.1. Pathology and Perianal Area Surgical Technique
    - 2.10.1.1. Perianal Fistulas
    - 2.10.1.2. Neoplasms
  - 2.10.2. Pathologies and Anal Sacs Surgical Techniques

### Module 3. Genitourinary Surgery. Mammary Surgery.

- 3.1. Introduction to Urogenital Surgical Pathology
  - 3.1.1. Surgical Principles Applied in Urogenital Surgery
  - 3.1.2. Surgical Material Used
  - 3.1.3. Suture Materials
  - 3.1.4. Pathophysiology of Urinary Surgical Problems: Introduction
  - 3.1.5. Urinary Obstruction
  - 3.1.6. Urinary Trauma
- 3.2. Kidney
  - 3.2.1. Anatomy Recap
  - 3.2.2. Techniques (I)
    - 3.2.2.1. Renal Biopsy
    - 3.2.2.2. Nephrotomy. Pyelolithotomy
  - 3.2.3. Techniques (II)
    - 3.2.3.1. Nephrectomy
    - 3.2.3.2. Nephropexy
    - 3.2.3.3. Nephrostomy
  - 3.2.4. Congenital Diseases
  - 3.2.5. Renal Trauma
  - 3.2.6. Infection. Abscesses
- 3.3. Ureter
  - 3.3.1. Anatomy Recap
  - 3.3.2. Techniques (I)
    - 3.3.2.1. Ureterotomy
    - 3.3.2.2. Anastomosis
  - 3.3.3. Techniques (II)
    - 3.3.3.1. Ureteroneocystostomy
    - 3.3.3.2. Neoureterostomy
  - 3.3.4. Congenital Diseases
  - 3.3.5. Urethral Trauma
  - 3.3.6. Ureteral Obstruction
    - 3.3.6.1. New Techniques
- 3.4. Bladder
  - 3.4.1. Anatomy Recap
  - 3.4.2. Techniques (I)
    - 3.4.2.1. Cystotomy
    - 3.4.2.2. Cystectomy
  - 3.4.3. Techniques (II)
    - 3.4.3.1. Cystopexy. Serosal Patch
    - 3.4.3.2. Cystostomy
    - 3.4.3.3. Boari Flap
  - 3.4.4. Congenital Diseases
  - 3.4.5. Bladder Trauma
  - 3.4.6. Bladder Lithiasis
  - 3.4.7. Bladder Torsion
  - 3.4.8. Neoplasms
- 3.5. Urethra
  - 3.5.1. Anatomy Recap
  - 3.5.2. Techniques (I)
    - 3.5.2.1. Urethrotomy
    - 3.5.2.2. Anastomosis

- 3.5.3. Techniques (II): Urethrostomy
  - 3.5.3.1. Introduction
  - 3.5.3.2. Feline Perineal Urethrostomy
  - 3.5.3.3. Canine Pre-scrotal Urethrostomy
  - 3.5.3.4. Other Urethrostomies
- 3.5.4. Congenital Diseases
- 3.5.5. Urethral Trauma
- 3.5.6. Urethral Obstruction
- 3.5.7. Urethral Prolapse
- 3.5.8. Sphincter Incompetence
- 3.6. Ovaries, Uterus, Vagina
  - 3.6.1. Anatomy Recap
  - 3.6.2. Techniques (I)
    - 3.6.2.1. Ovariectomy
    - 3.6.2.2. Ovariohysterectomy
  - 3.6.3. Techniques (II)
    - 3.6.3.1. Cesarean Section
    - 3.6.3.2. Episiotomy
  - 3.6.4. Congenital Diseases
    - 3.6.4.1. Ovaries and Uterus
    - 3.6.4.2. Vagina and Vestibule
  - 3.6.5. Ovarian Remnant Syndrome
    - 3.6.5.1. Effects of Gonadectomy
  - 3.6.6. Pyometra
    - 3.6.6.1. Stump Pyometra
  - 3.6.7. Uterine Prolapse and Vaginal Prolapse
  - 3.6.8. Neoplasms
- 3.7. Penis, Testicles and Scrotum
  - 3.7.1. Anatomy Recap
  - 3.7.2. Techniques (I)
    - 3.7.2.1. Pre-scrotal Orchiectomy
    - 3.7.2.2. Feline Scrotal Orchiectomy
    - 3.7.2.3. Abdominal Orchiectomy





- 3.7.3. Techniques (II)
  - 3.7.3.1. Scrotum Ablation
  - 3.7.3.2. Penis Amputation
- 3.7.4. Techniques (III)
  - 3.7.4.1. Preputial Plasties
  - 3.7.4.2. Phallopey
- 3.7.5. Congenital Alterations of the Penis and Foreskin
  - 3.7.5.1. Hypospadias
  - 3.7.5.2. Phimosis vs Paraphimosis
- 3.7.6. Congenital Alterations to the Testicles
  - 3.7.6.1. Anorchia/Monorchidism
  - 3.7.6.2. Cryptorchidism
- 3.7.7. Neoplasms in the Penis
- 3.7.8. Testicular Neoplasms
- 3.8. Prostate. Ancillary Techniques in Urogenital Surgery
  - 3.8.1. Anatomy Recap
  - 3.8.2. Techniques
    - 3.8.2.1. Omentalization
    - 3.8.2.2. Marsupialization
  - 3.8.3. Prostatic Hyperplasia
  - 3.8.4. Prostatic Cysts
  - 3.8.5. Prostatitis and Prostatic Abscesses
  - 3.8.6. Neoplasms
  - 3.8.7. Auxiliary Techniques Catheterization and Cystopuncture
  - 3.8.8. Abdomen Drainage
- 3.9. Complementary Tests in Urogenital Surgical Pathology
  - 3.9.1. Diagnostic Imaging Techniques(I)
    - 3.9.1.1. Simple Radiography
    - 3.9.1.2. Contrast Radiography
  - 3.9.2. Diagnostic Imaging Techniques (II)
    - 3.9.2.1. Ultrasound
  - 3.9.3. Diagnostic Imaging Techniques (III)
  - 3.9.4. Importance of Laboratory Diagnosis
- 3.10. Breast
  - 3.10.1. Anatomy Recap.
  - 3.10.2. Techniques (I)
    - 3.10.2.1. Nodulectomy
    - 3.10.2.2. Lymphadenectomy
  - 3.10.3. Techniques (II)
    - 3.10.3.1. Simple Mastectomy
    - 3.10.3.2. Regional Mastectomy
    - 3.10.3.3. Radical Mastectomy
  - 3.10.4. Postoperative Care
    - 3.10.4.1. Analgesic Catheters
  - 3.10.5. Hyperplasia and Pseudo-gestation
  - 3.10.6. Canine Mammary Tumors
  - 3.10.7. Feline Mammary Tumors



*This program will allow you to advance  
in your career comfortably"*

# 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.





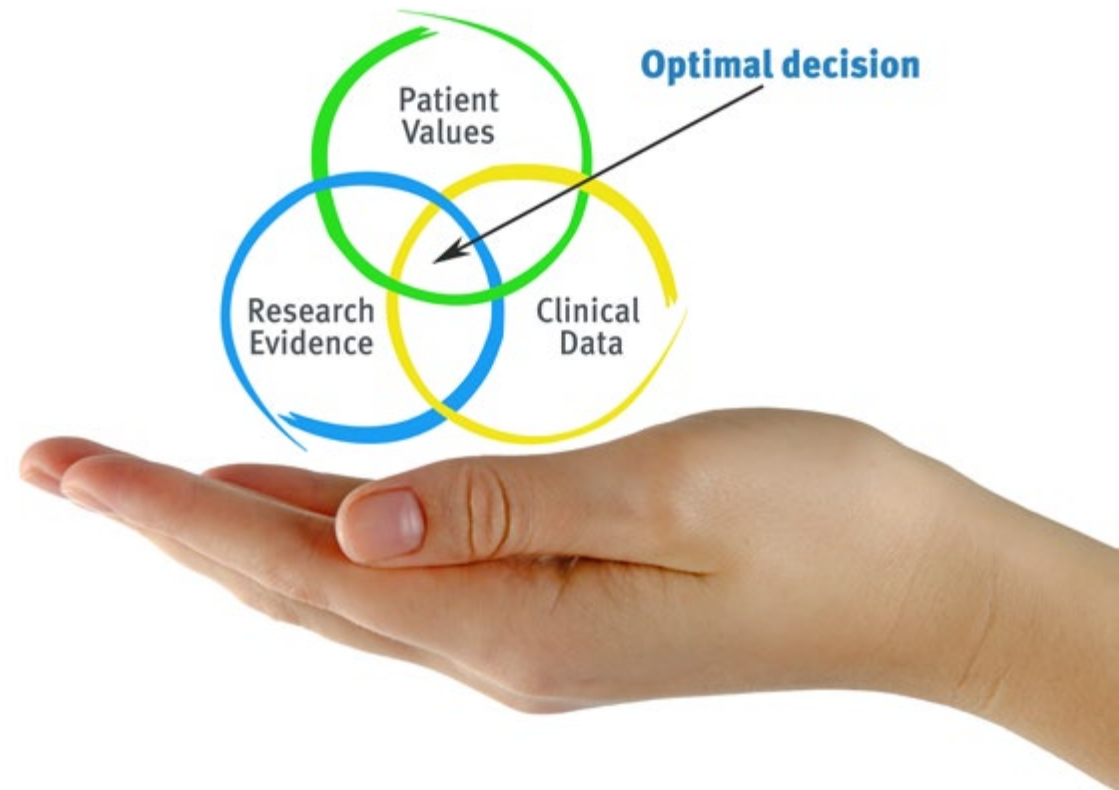
“

*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"*

## At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the actual conditions in a veterinarian's professional practice.

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*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. The feeling that the effort invested is effective becomes a very important motivation for veterinarians, which translates into a greater interest in learning and an increase in the time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.



*Veterinarians will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

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

*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Latest Techniques and Procedures on Video

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



### Interactive Summaries

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

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



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.







#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

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

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

# Certificate

The Postgraduate Diploma in Anesthesia and Analgesia in Veterinary Surgery 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 degree  
without travel or laborious paperwork”*

This program will allow you to obtain your **in Postgraduate Diploma in Basic Surgery in the Soft Tissues of 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.

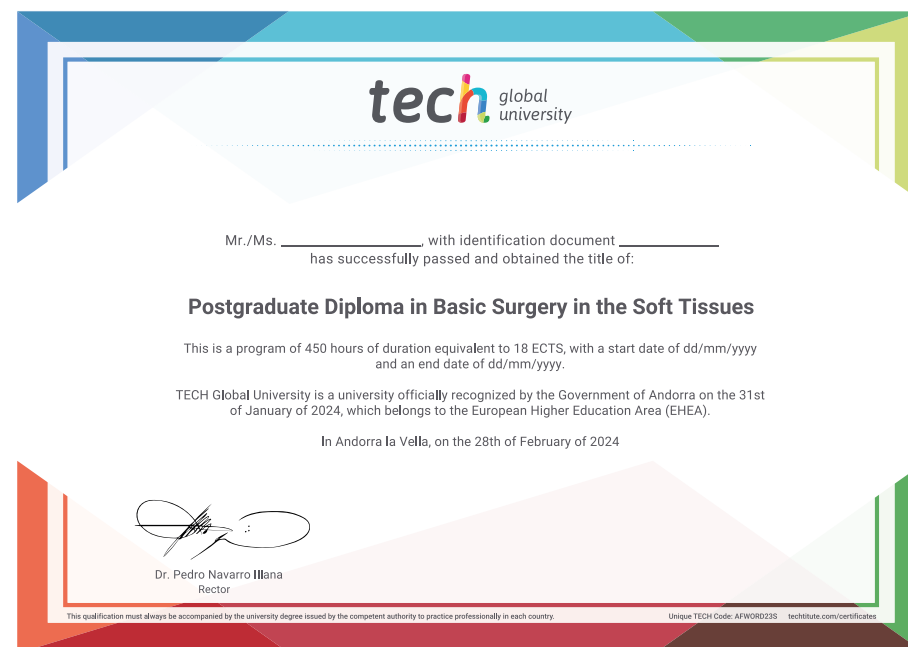
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Basic Surgery in the Soft Tissues of Small Animals**

Modality: **online**

Duration: **6 months**

Accreditation: **18 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.

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



**Postgraduate Diploma**  
Basic Surgery in the Soft  
Tissues of Small Animals

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

# Postgraduate Diploma

## Basic Surgery in the Soft Tissues of Small Animals

