

# Postgraduate Certificate

## Head and Neck Surgery in Small Animals





## Postgraduate Certificate Head and Neck Surgery in Small Animals

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/veterinary-medicine/postgraduate-certificate/head-neck-surgery-small-animals](http://www.techtute.com/us/veterinary-medicine/postgraduate-certificate/head-neck-surgery-small-animals)

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# 01

# Introduction

Surgical diseases of the head and neck are often considered a challenge for most surgeons. The complex anatomy and characteristics of the diseases make it necessary to have an accurate clinical diagnosis, since an inadequate intervention could have a high cost for the patient. The program in Small Animal Head and Neck Surgery is an educational project committed to train high quality professionals. It is a program designed by professionals specialized in each specific field who are faced with new surgical challenges every day.



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*This education is the best option you can find to specialize in Small Animal Head and Neck Surgery and make more accurate diagnoses”*

This Postgraduate Certificate addresses salivary gland diseases, where sialoceles is analyzed as the most frequent disease of these glands. Laryngeal paralysis is also treated as the main disease affecting this organ. The anatomical regions involved will be described and special emphasis will be placed on the diagnosis of the disease, how to select the patient for surgery, recommended technique and potential short- and long-term complications.

In this way, the main diseases affecting the ear will be shown, such as those of the external auditory pavilion: otohematomas or tumors, and the most appropriate management for their resolution will be explained. In addition, the key points of total external auditory canal ablation with ventral bulla osteotomy as a treatment for terminal otitis, tumors and cholesteatomas are discussed and examined and ventral tympanic bulla osteotomy as a resolution for nasopharyngeal polyps in the cat will be described. On the other hand, maxillectomy and mandibulectomy will be studied as a treatment for the different tumors of the oral cavity and trufflectomy and rhinotomy techniques will be described for the resolution of the most frequent diseases.

Finally, the diagnosis, treatment and prognosis of other less frequent diseases affecting the head and neck, such as laryngeal and tracheal tumors, nasopharyngeal stenosis and cricopharyngeal achalasia will be discussed.

After completing this Postgraduate Certificate, the student will have sufficient knowledge to perform any head and neck surgery. They 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 Certificate in Head and Neck Surgery in 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 Head and Neck Surgery in 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 development
- ♦ New developments in Head and Neck Surgery in Small Animals
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Special focus on innovative methodologies in Head and Neck 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 with us this Postgraduate Certificate in Head and Neck Surgery in Small Animals and increase your professional skills"*



*This Postgraduate Certificate is the best investment you can make in selecting a refresher program to bring your knowledge of Head and Neck Surgery in Small Animals up to date"*

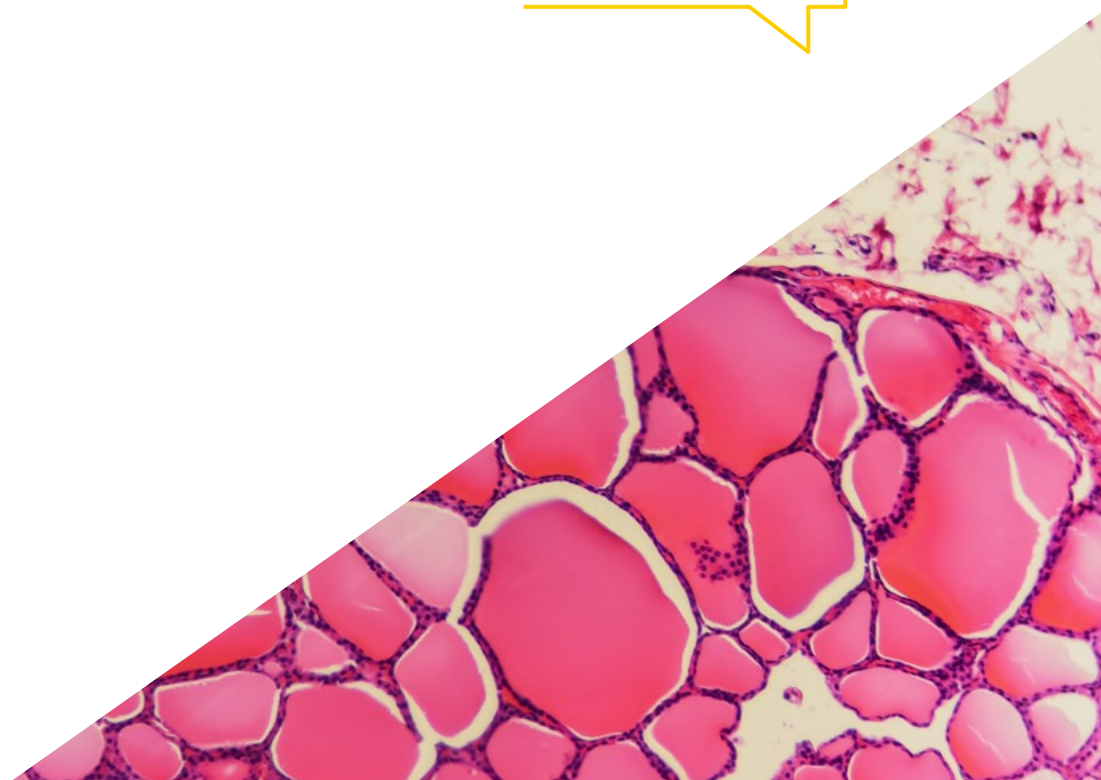
It includes in its teaching staff, professionals belonging to the field of Veterinary Surgery, who pour into this education the experience of their work, in addition to recognized specialists of leading societies and prestigious universities.

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 training 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 experts in Head and Neck Surgery in 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 Certificate will allow you to combine your studies with your professional work while increasing your knowledge in this field.*



02

# Objectives

The Postgraduate Certificate in Head and Neck Surgery in Small Animals is oriented 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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*Get trained with TECH and learn about  
the main treatments to save pets' lives"*



## General Objectives

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- Present the main surgically treatable diseases which affect the head and neck as well as diseases of the oral and nasal cavity, the ears, the salivary glands, the larynx and trachea
- Identify the main key points in the diagnosis and treatment of the diseases described
- Provide the student with the necessary knowledge to perform different surgical techniques and minimize complications
- Implement knowledge to be able to decide which is the best treatment in each case



*Take the opportunity and take the step to get up to date on the latest developments in Head and Neck Surgery in Small Animals"*





## Specific Objectives

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- ◆ Revise the anatomy of the oral cavity, nasal cavity, ear, trachea and larynx, so that the student has the knowledge to adequately and safely perform surgical procedures
- ◆ Develop the main conditions of the oral cavity such as oral and labial tumors in the context of diagnosis, therapeutic approach, surgical techniques, complications and prognosis
- ◆ Develop understanding of the main ear problems such as otomastoiditis, tumors of the external auditory pavilion and external auditory canal, chronic recurrent otitis and nasopharyngeal polyps. This will be in the context of diagnosis, the therapeutic approach, surgical techniques, complications and prognosis
- ◆ Develop understanding of the main conditions of the pharynx such as laryngeal paralysis in the context of diagnosis, therapeutic approach surgical techniques, complications and prognosis
- ◆ Develop understanding of the main conditions of the salivary glands such as sialoceles in the context of diagnosis, therapeutic approach, surgical techniques, complications and prognosis
- ◆ Compile all the scientific literature on the subject to create a diagnostic and therapeutic protocol, with the most innovative techniques for the treatment of tracheal collapse
- ◆ Compile all the scientific literature on the subject to create a diagnostic and therapeutic protocol, with the most innovative techniques for the treatment of brachycephalic syndrome
- ◆ Define other less frequent diseases which affect the head and neck of small animals, such as nasopharyngeal stenosis, tracheal and laryngeal tumors and cricopharyngeal achalasia
- ◆ Establish diagnoses and therapies for the different diseases of the head and neck
- ◆ Generate up-to-date material, based on evidence from different surgical techniques of the oral cavity, nasal cavity, ears, trachea and larynx



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 specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.





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*Our teaching team, experts in Head and Neck Surgery in Small Animals, will help you achieve success in your profession"*

## 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





# 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.



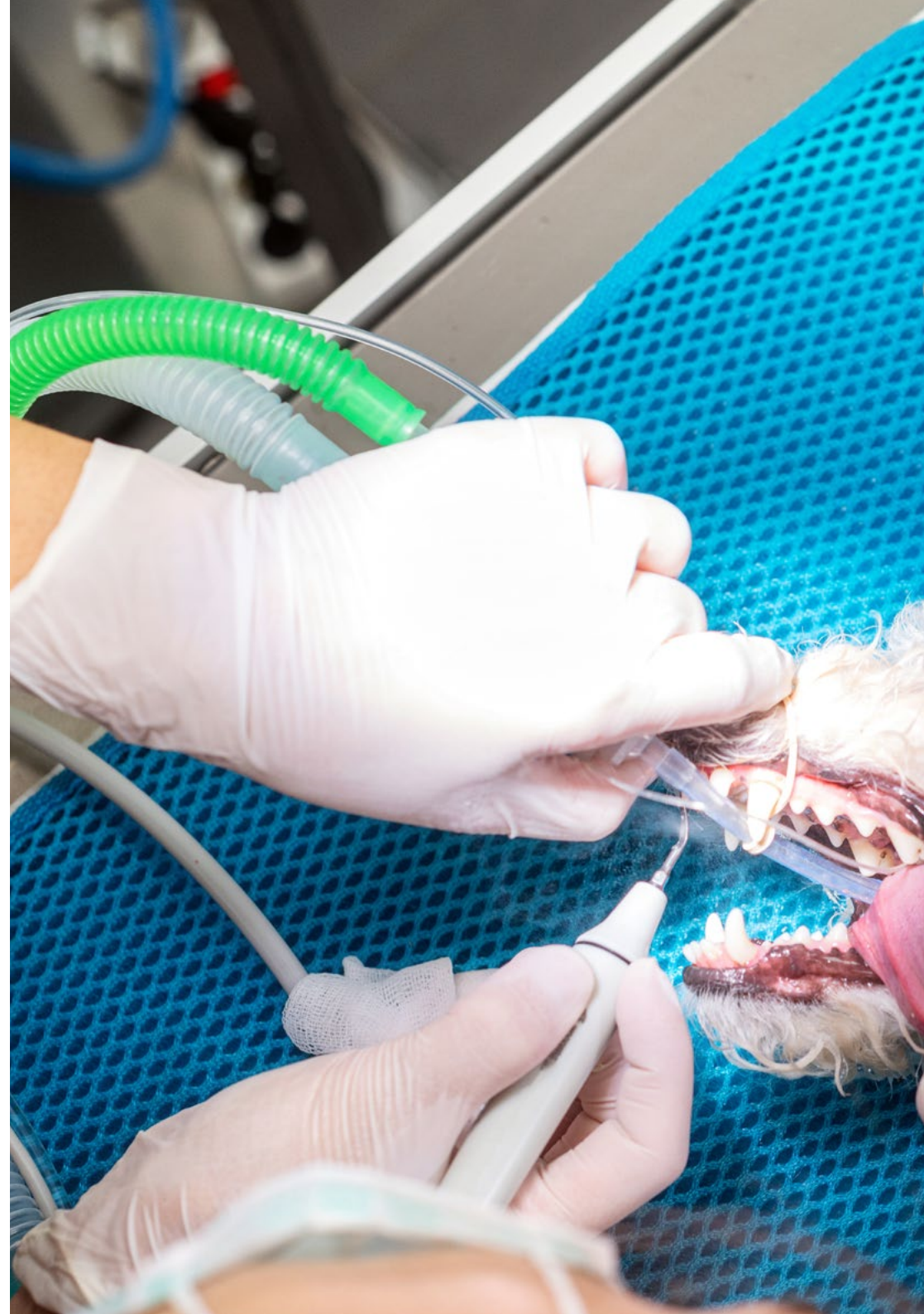


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*We have the most complete and up-to-date academic program in the market. We strive for excellence and for you to achieve it too"*

## Module 1. Head and Neck Surgery

- 1.1. Salivary Glands
  - 1.1.1. Anatomy
  - 1.1.2. Surgical Technique
  - 1.1.3. Sialocele
- 1.2. Laryngeal Paralysis
  - 1.2.1. Anatomy
  - 1.2.2. Diagnosis
  - 1.2.3. Pre-operative Considerations
  - 1.2.4. Surgical Techniques
  - 1.2.5. Post-operative Considerations
- 1.3. Brachycephalic Syndrome (I)
  - 1.3.1. Description
  - 1.3.2. Syndrome Components
  - 1.3.3. Anatomy and Physiopathology
  - 1.3.4. Diagnosis
- 1.4. Brachycephalic Syndrome (II)
  - 1.4.1. Pre-operative Considerations
  - 1.4.2. Surgical Techniques
  - 1.4.3. Post-operative Considerations
- 1.5. Tracheal Collapse
  - 1.5.1. Anatomy
  - 1.5.2. Diagnosis
  - 1.5.3. Medical Management
  - 1.5.4. Surgical Treatment
- 1.6. Ears (I)
  - 1.6.1. Anatomy
  - 1.6.2. Techniques
    - 1.6.2.1. Technique for Treating Otohematoma
    - 1.6.2.2. Aurectomy
    - 1.6.2.3. External Auditory Canal Ablation with Trephination of the Bulla
    - 1.6.2.4. Ventral Osteotomy of the Tympanic Bulla





- 1.7. Ears (II)
  - 1.7.1. Diseases
    - 1.7.1.1. Otohematomas
    - 1.7.1.2. External Auricular Pavilion Tumors
    - 1.7.1.3. Terminal Otitis
    - 1.7.1.4. Nasopharyngeal Polyps
- 1.8. Oral and Nasal Cavity (I)
  - 1.8.1. Anatomy
  - 1.8.2. Techniques
    - 1.8.2.1. Maxillectomy
    - 1.8.2.2. Mandibulectomy
    - 1.8.2.3. Techniques for Oral Cavity Reconstruction
    - 1.8.2.4. Rhinotomy
- 1.9. Oral and Nasal Cavity (II)
  - 1.9.1. Diseases
    - 1.9.1.1. Oral and Lip Tumors
    - 1.9.1.2. Nasal Cavity Tumors
    - 1.9.1.3. Aspergillosis
    - 1.9.1.4. Cleft Palate
    - 1.9.1.5. Oronasal Fistulas
- 1.10. Other Head and Neck Diseases
  - 1.10.1. Nasopharyngeal Stenosis
  - 1.10.2. Laryngeal Tumors
  - 1.10.3. Tracheal Tumors
  - 1.10.4. Cricopharyngeal Achalasia



*This training 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.





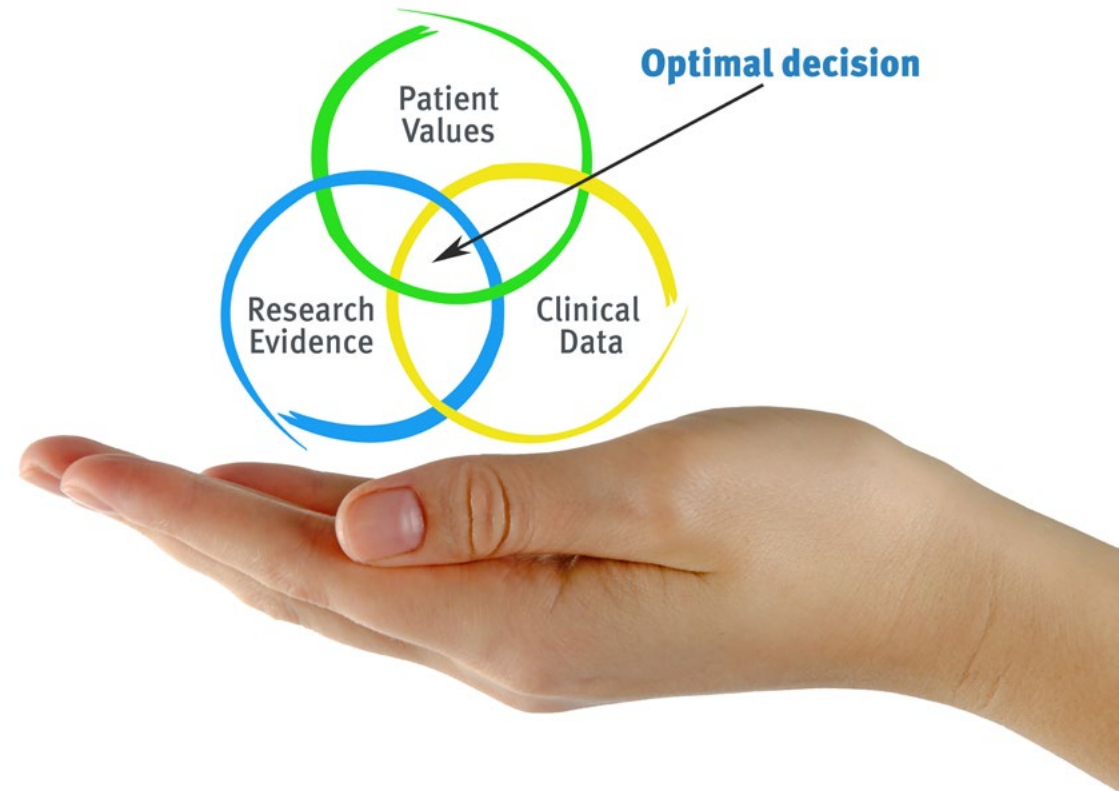
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program 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:

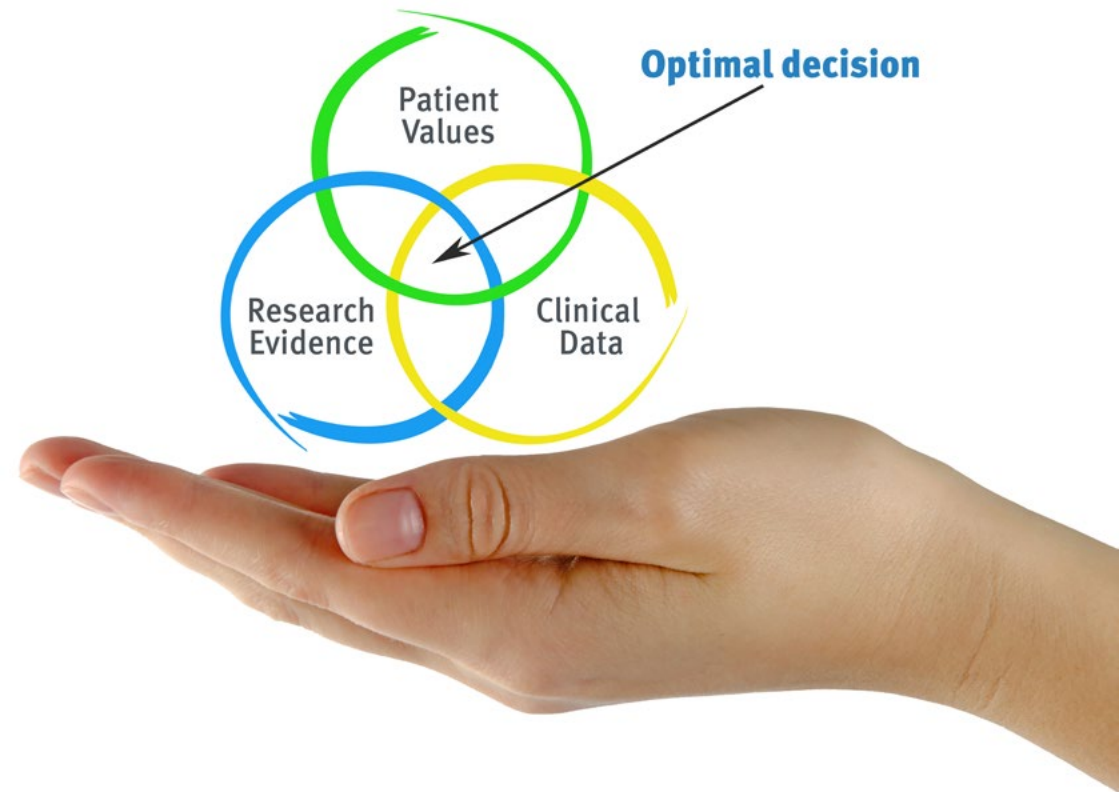
1. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real 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.



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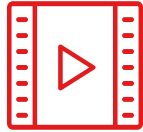
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This program offers the best educational material, prepared with professionals in mind:



#### Study Material

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

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



#### Latest Techniques and Procedures on Video

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



#### Interactive Summaries

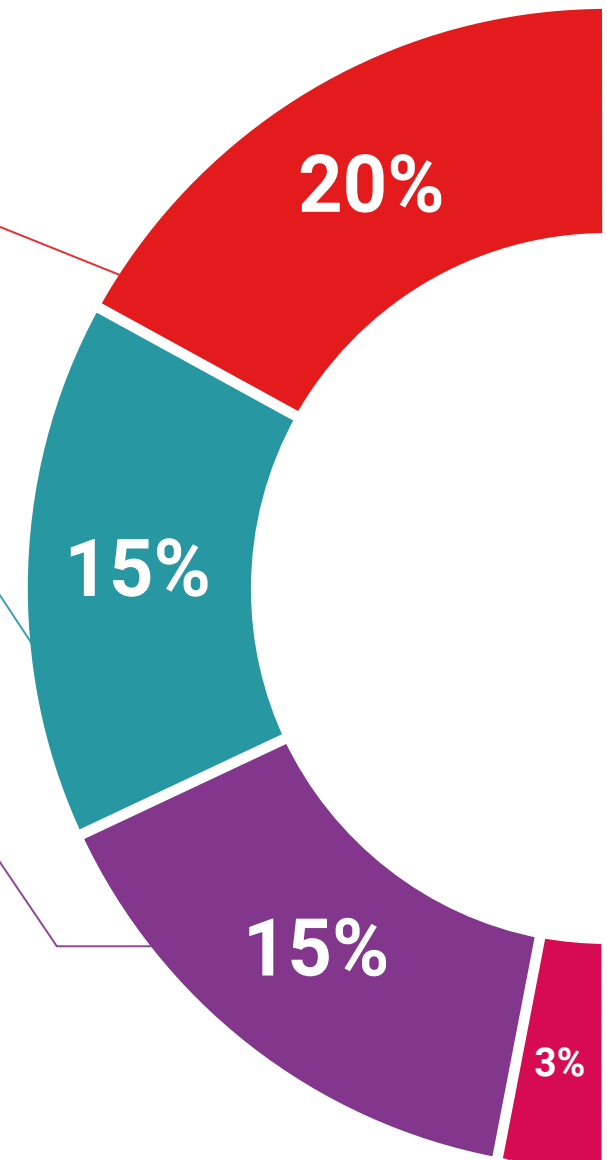
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

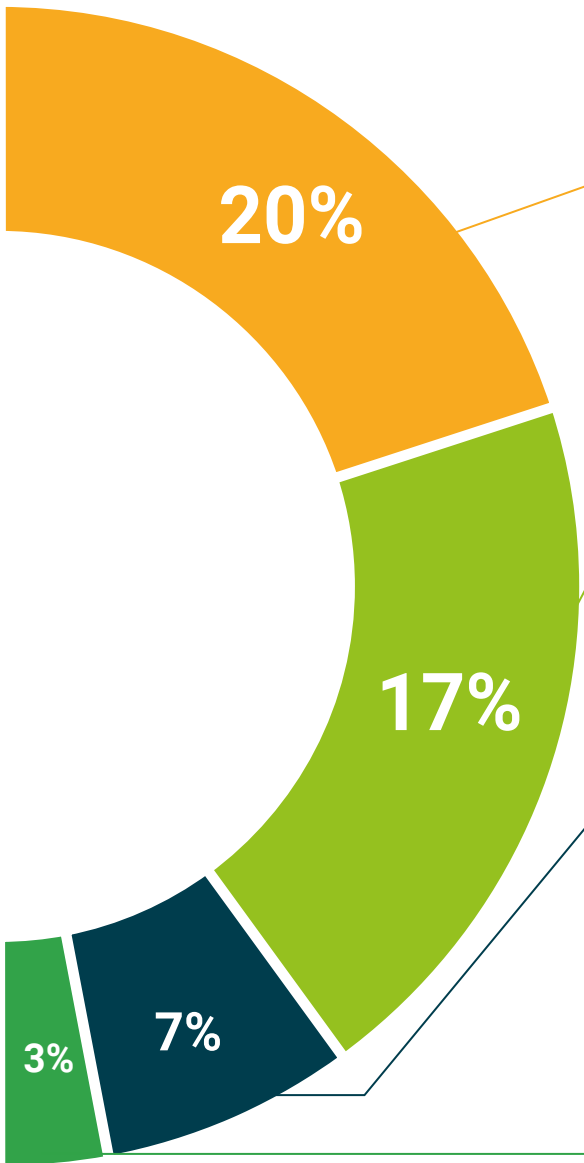
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

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





**Expert-Led Case Studies and Case Analysis**

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 Certificate in Head and Neck Surgery in Small Animals 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 Head and Neck Surgery in Small Animals** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** diploma issued by **TECH Technological University** via tracked delivery\*.

The diploma 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 Head and Neck Surgery in Small Animals**

Official N° of Hours: **150h**.



\*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

online training

development languages

virtual classroom

**tech** technological  
university

**Postgraduate Certificate**  
Head and Neck Surgery  
in Small Animals Animals

- » Modality: online
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- » Dedication: 16h/week
- » Schedule: at your own pace
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## Head and Neck Surgery in Small Animals