Postgraduate Diploma

Surgical and Oncologic Pathology in Small Animals

tech technological university

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Postgraduate Diploma
Surgical and Oncologic Pathology in Small Animals

Course Modality: **Online**
Duration: **6 months.**
Certificate: **TECH - Technological University**
24 ECTS Credits
Teaching Hours: **600 hours.**
Website: www.techtitute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-surgical-oncologic-pathology-small-animals

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01

Introduction

Veterinary oncology is a specialty which has become essential in recent years. This is due to the increased incidence in cancer in small animals. Today, veterinary clinicians must have specialized knowledge to determine the diagnosis and management of cancer in veterinary medicine.

This course offers specialist knowledge in the field of oral oncology in veterinary medicine of small animals, with the aim of determining the best treatment options for the animals.

Become a professional in one of the most in-demand fields of the moment: train in Surgical and Oncologic Pathology in Small Animals with this comprehensive online Postgraduate Diploma"

The Postgraduate Diploma in Surgical and Oncologic Pathology in Small Animals is a response to the needs and demands of veterinary clinicians who, based on the high number of cases they encounter, seek to offer the best service to their patients.

Within veterinary oncology, oral cancer is a common occurrence, although very often it can be hard to identify it and differentiate it from other oral pathologies. Due to its poor prognosis and aggressive nature when it is a malignant neoplasm, it is essential to identify it correctly, differentiate it from other oral conditions that may appear to be oral cancer and treat it in time, since, on certain occasions, early diagnosis can make the difference between life and death.

The teaching team that makes up the Postgraduate Diploma in Surgical and Oncologic Pathology in Small Animals is composed of veterinary professionals who are specialists in the different subjects taught in the course. They have extensive experience both at a teaching and practical level, familiar with university training, teaching courses, degrees and different postgraduate courses related to the veterinary profession, and specifically Surgical and Oncologic Pathology in Small Animals. These lecturers are active professionals, both at university and clinical level, working in leading veterinary centres and participating in various research projects.

The modules developed in the Postgraduate Diploma in Surgical and Oncologic Pathology in Small Animals have been selected with the aim of offering the veterinary clinician the possibility of taking a step further in their future as a specialist in Dentistry and to develop specialized theoretical and practical knowledge to confidently face any oral and maxillofacial procedure that they may encounter in their daily practice.

The advanced knowledge developed in this Postgraduate Diploma is supported by the clinical experience of the authors, as well as scientific articles and publications directly related to the modern day veterinary dentistry sector.

This Postgraduate Diploma provides students with all the theoretical and practical knowledge necessary to safely tackle any oral and maxillofacial procedure in the studied species.

Nowadays, the possibility of coordinating the veterinary clinician's working life with a Postgraduate Diploma is highly valued and valuable, and this course meets this requirement, in terms of teaching quality. The online format allows students to balance their work and academic life, and meets the demands and requirements of the veterinary professional.

This **Postgraduate Diploma in Surgical and Oncologic Pathology in Small Animals** offers you the advantages of a high-level scientific, teaching, and technological course. These are some of its most notable features:

- Latest technology in online teaching software.
- Highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand.
- Practical cases presented by practising experts.
- State-of-the-art interactive video systems.
- Teaching supported by telepractice.
- Continuous updating and recycling systems.
- Self-regulating learning: full compatibility with other occupations.
- Practical exercises for self-evaluation and learning verification.
- Support groups and educational synergies: questions to the expert, debate and knowledge forums.
- Communication with the teacher and individual reflection work.
- Content that is accessible from any fixed or portable device with an Internet connection.
- Supplementary documentation databases are permanently available, even after the course.

A Postgraduate Diploma that will enable you to work in all fields of Veterinary Dentistry with the competence of a high-level professional"

Receive complete and appropriate training in Veterinary Dentistry with this highly effective Postgraduate Diploma and open new paths to your professional progress"

Our teaching staff is made up of professionals from different fields related to this specialty. In this way, we ensure that we provide you with the training update we are aiming for. A multidisciplinary team of professionals trained and experienced in different environments, who will cover the theoretical knowledge in an efficient way, but, above all, will put the practical knowledge derived from their own experience at the service of the course: one of the differential qualities of this course.

This mastery of the subject is complemented by the effectiveness of the methodological design of this Postgraduate Diploma in Surgical and Oncologic Pathology in Small Animals. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your training.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice learning: with the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and consolidate learning in a more realistic and permanent way.

You will be supported by the experience of expert professionals who will contribute their experience in this area to the program, making this training a unique opportunity for professional growth.

02

Objectives

Our objective is to train highly qualified professionals for work experience. An objective that is complemented, moreover, in a global manner, by promoting human development that lays the foundations for a better society. This objective is focused on helping medical professionals reach a much higher level of expertise and control. A goal that, in just six months, you will be able to achieve with a highly intensive and precise course.

If your objective is to broaden your skills set to include new paths of success and development, this is the course for you: training that aspires to excellence"

General Objectives

- Establish the foundations of canine dentistry and establish protocols for action, generating a specific routine for the speciality.
- Develop all aspects of canine dentistry: complete clinical examination, differential diagnoses, specific treatments, surgical technique and prognostics.
- Identify the most frequent pathologies quickly and accurately and prescribe effective and precise treatments.
- Analyze clinical cases objectively and precisely.
- Develop specialized knowledge to examine, diagnose and treat oral pathologies correctly based on the latest advances in the speciality.
- Establish the foundations of feline dentistry and establish protocols for action, generating a specific routine for the speciality.
- Identify the most frequent pathologies quickly and accurately with effective and precise treatments.
- Analyze diseases on the basis of good theory and in an interactive way.
- Generate specialized knowledge to examine, diagnose and treat oral pathologies correctly based on the latest advances in the specialty.
- Develop specialised - advanced knowledge in cancer biology and diagnostic procedure in veterinary oncology.
- Specialise the veterinary professional in veterinary chemotherapy and radiotherapy.
- Examine the types of oral tumours.
- Examine the main surgical pathologies occurring in the oral cavity of dogs and cats.
- Diagnose any type of injury taught in this module.
- Develop specialized and advanced knowledge in order to carry out medical-surgical treatment in each case in an individualised manner.
- Determine the surgical techniques necessary to safely approach oral cavity surgery and thus avoid as many complications as possible.

Specific Objectives

- Establish routine oral examination guidelines and records.
- Carry out preventive dentistry.
- Carry out an in-depth analysis of the dog's oral pathologies.
- Determine instrumentation and general equipment.
- Establish differential diagnoses.
- Generate specialized knowledge on antibiotics and antiseptics.
- Prescribe specific and advanced treatments.
- Establish routine guidelines for conducting an oral examination and records.
- Determine preventive dentistry.
- Carry out an in-depth analysis of the cat's oral pathologies.

- Develop specialized knowledge on Instrumentation and general equipment.
- Determine the differential diagnoses.
- Generate advanced knowledge on Antibiotic and antiseptic prescribing.
- Examine the specific and advanced treatments currently available.
- Determine the management of canine oral melanoma.
- Specialize in the management of canine oral squamous cell carcinoma and in the management of canine oral fibrosarcoma.
- Address in depth the management of feline oral squamous cell carcinoma.
- Examine other less common oral tumours in dogs and cats.
- Develop expertise to establish a correct diagnosis, treatment and prognosis specific to each type of oral neoplasm in dogs and cats.
- Develop specialist knowledge in the field of cheek and lip surgery.
- Recognise any pathology affecting the oral cavity and decide which diagnostic tests and treatment are most appropriate.
- Determine how to deal surgically with the most common tumours of the oral cavity.
- Review the most common salivary gland surgery.
- Precisely determine the surgical technique to be used for different mandibular/maxillary fractures.
- Examine the temporomandibular joint and the pathologies that most frequently affect it.

03

Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.

Our teaching team, experts in Surgical and Oncologic Pathology in Small Animals, will help you to achieve success in your profession"

Management

Saura Alfonseda, José María

- Degree in Veterinary Medicine from the University of Murcia.
- Member of the SEOVE and speaker at several SEOVE Congresses.
- Master's Degree in Dentistry and Maxillofacial Surgery V by the UCM in 2008. .
- Lecturer at the Faculty of Veterinary Medicine of the UAX in subjects such as Animal Physiopathology, Clinical Propaedeutics and Animal Anatomy.
- Senior Veterinarian at the Internal Medicine Service of the Veterinary Hospital Universidad Alfonso X El Sabio (HCV UAX) since 2006.
- Head of the Veterinary Dentistry and Maxillofacial Surgery Service of the HCV UAX since 2009.
- Outpatient Veterinary Dentistry and Maxillofacial Surgery Service (sauraodontovet) since 2013.

Professors

Carrillo Segura, Manuel

- Graduated in Veterinary Medicine from the Alfonso X El Sabio University of Madrid in 2017.
- Rotational internship at the Majadahonda Veterinary Hospital (2017-2018).
- Rotational internship master's degree (2018-2019) at the Hospital Clínico Veterinario UAX.
- Master in Soft Tissue Surgery and Traumatology at the Hospital Clínico Veterinario UAX (2019-2022).
- Practical Teacher of the Degree in Veterinary Medicine at the Alfonso X El Sabio University, in the subject of Surgical Pathology and Surgery.
- Currently, he is an outpatient veterinarian in different clinics in the Community of Madrid.

Yin Chen, Paulo Rogélio

- Specialist in Veterinary Dentistry and Maxillofacial Surgery from the Complutense University of Madrid 2007-2008.
- Degree in Veterinary Medicine from Pontificia Catholic University of Paraná in 2006 (Brazil).
- Specialist Degree in Veterinary Dentistry and Maxillofacial Surgery from the Complutense University of Madrid 2007-2008.
- Advanced Studies Diploma from the Complutense University of Madrid in 2009.
- Member of the Spanish Society of Veterinary Odontology (SEOVE).
- Veterinary surgery and dentistry service of Anicura Velázquez Veterinary Hospital 2010 to present

Dr. Del Castillo Magán, Noemí

- PhD in Veterinary Medicine from the Complutense University of Madrid (2001).
- Degree in Veterinary Medicine from the Complutense University of Madrid (1997).
- Research proficiency from the Complutense University of Madrid.
- Accredited in Oncology by Gevonc Avepa.
- Founding Member and Secretary of Gevonc Avepa.
- Speaker at National Veterinary Oncology Congresses and Courses.
- Member of the European Society of Veterinary Oncology (ESVONC), the Spanish Small Animal Veterinary Association (AVEPA) and the Veterinary Oncology Group (Gevonc-Avepa).
- Head of the Oncology Service of the Hospital Clínico Veterinario de la Universidad Alfonso X El Sabio.
- In 2019 he founded the Ambulate Oncology and Telemedicine service, together with his partner, Oncopets.

Márquez Garrido, Sandra

- Degree in Veterinary from the University of Extremadura, 2018
- Small Animal Rotational Internship at Alfonso X El Sabio University, 2018-2019
- International Oncology Course (Novotech) 2018
- Certification by ESVPS in Oncology (GPCertOncol) 2020
- Emergency Department at Moncan Veterinary Hospital (Madrid), 2018-2020
- Emergency Department in Surbatán Veterinary Clinic (Madrid), 2019-2020
- Collaborator with the Oncology Service of HCV UAX (Madrid), 2019-2020
- Oncopets Outpatient Oncology (Madrid), 2020

De la Riva, Claudia

- Degree in Veterinary Medicine from the University - Alfonso X el Sabio in Madrid in 2013.
- Certified General Practitioner in Oncology (GPcertOncol) by the European School of Veterinary Postgraduate Studies (ESVPS)..
- Certified in traditional Chinese veterinary medicine with a speciality in oncology by the Chi institute of Europe and Florida.
- Member of the Spanish Small Animal Association (AVEPA) and the Veterinary Oncology Group (GEVONC).
- In the process of accreditation in Oncology by GevoncAvepa.
- She has worked in different centres in the community of Madrid as a general and emergency veterinarian from 2015 to the present.

04

Structure and Content

The contents of this program have been developed by the different experts on this course, with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field.

A complete and well-structured program that will take you to the highest standards of quality and success.

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

Module 1. Dentistry in Canine Veterinary

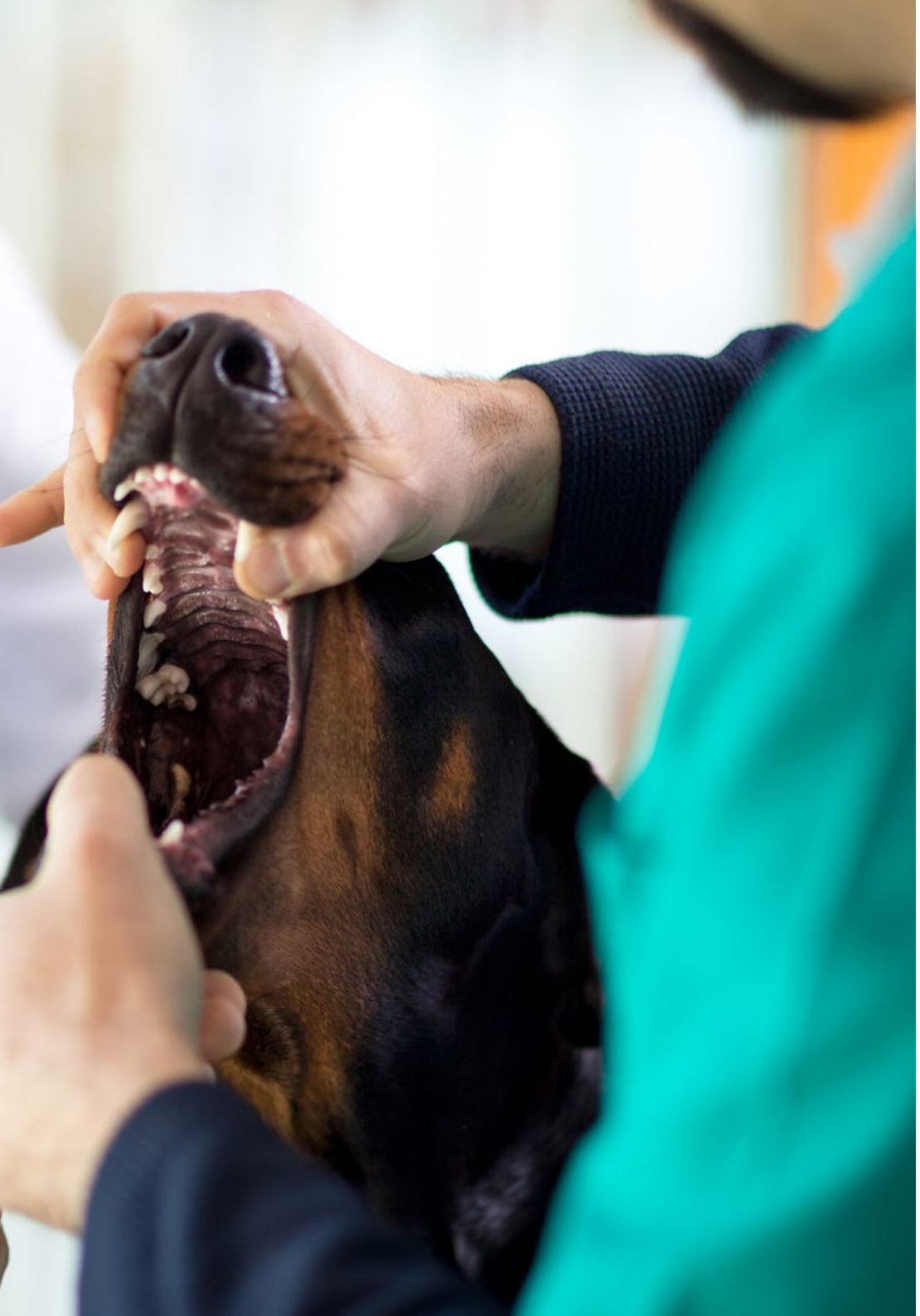
1.1. Veterinary Dentistry
- 1.1.1. History of Veterinary Dentistry
- 1.1.2. Basis and Fundamentals of Veterinary Dentistry

1.2. Equipment and Materials in Veterinary Dentistry
- 1.2.1. Equipment
  - 1.2.1.1. Basic Equipment
  - 1.2.1.2. Specific Equipment
- 1.2.2. Materials
  - 1.2.2.1. Basic Instruments
  - 1.2.2.2. Specific Instruments
  - 1.2.2.3. Fungibles
  - 1.2.2.4. Methods of Oral Impression Preparation

1.3. Oral Examination
- 1.3.1. Medical History
- 1.3.2. Oral Examination with the Patient Awake
- 1.3.3. Oral Examination with Sedated or Anaesthetised Patient
- 1.3.4. Records

1.4. Pediatric Dentistry
- 1.4.1. Introduction
- 1.4.2. Development of the Deciduous Dentition
- 1.4.3. Change of Dentition
- 1.4.4. Deciduous Persistence
- 1.4.5. Supernumerary Teeth
- 1.4.6. Agenesis
- 1.4.7. Dental Fractures
- 1.4.8. Malocclusions

1.5. Periodontal Disease
- 1.5.1. Gingivitis
- 1.5.2. Periodontitis
- 1.5.3. Pathophysiology of Periodontal Disease
- 1.5.4. Periodontal Profilaxia
- 1.5.5. Periodontal Therapy
- 1.5.6. Postoperative Care



1.6. Oral Pathologies
- 1.6.1. Enamel Hypoplasia
- 1.6.2. Halitosis
- 1.6.3. Tooth Wear
- 1.6.4. Dental Fractures
- 1.6.5. Oronasal Fistulas
- 1.6.6. Infraorbital Fistulas
- 1.6.7. Temporomandibular Joint
- 1.6.8. Cranio-Mandibular Osteopathy

1.7. Dental Extraction
- 1.7.1. Anatomical Concepts
- 1.7.2. Indications
- 1.7.3. Surgical Management
- 1.7.4. Flaps
- 1.7.5. Post-Operative Treatment

1.8. Endodontics
- 1.8.1. Basis of Endodontics
- 1.8.2. Specific Materials
- 1.8.3. Indications
- 1.8.4. Diagnosis
- 1.8.5. Surgical Technique
- 1.8.6. Post-Operative Care
- 1.8.7. Complications

1.9. Orthodontics
- 1.9.1. Occlusion and Malocclusion
- 1.9.2. Principles of Orthodontics
- 1.9.3. Orthodontic Treatment
- 1.9.4. Esthetics and Restoration

1.10. Maxillofacial Fractures
- 1.10.1. Emergencies
- 1.10.2. Stabilisation of the Patient
- 1.10.3. Clinical Examination
- 1.10.4. Treatment
  - 1.10.4.1. Conservational Treatment
  - 1.10.4.2. Surgical Management
- 1.10.5. Therapeutics and Postoperative Care
- 1.10.6. Complications

Module 2. Dentistry in Feline Veterinary

2.1. General Basis of Feline Dentistry
- 2.1.1. Introduction
- 2.1.2. Dental Equipment
  - 2.1.2.1. Basic Equipment
  - 2.1.2.2. Specific Equipment

2.2. Materials and Instrumentation for Felines
- 2.2.1. Basic Instruments
- 2.2.2. Specific Instruments
- 2.2.3. Fungibles
- 2.2.4. Methods of Oral Impression Preparation

2.3. Oral Examination and Assessment of the Cat
- 2.3.1. Medical History
- 2.3.2. Oral Examination with the Patient Awake
- 2.3.3. Oral Examination with Sedated or Anaesthetised Patient
- 2.3.4. Registration and Odontogram

2.4. Periodontal Disease
- 2.4.1. Gingivitis
- 2.4.2. Periodontitis
- 2.4.3. Pathophysiology of Periodontal Disease
- 2.4.4. Gingival and Alveolar Bone Retraction
- 2.4.5. Periodontal Profilaxia
- 2.4.6. Periodontal Therapy
- 2.4.7. Postoperative Care

2.5. Feline Oral Pathology
- 2.5.1. Halitosis
- 2.5.2. Dental Traumatism
- 2.5.3. Cleft Palate
- 2.5.4. Dental Fractures
- 2.5.5. Oronasal Fistulas
- 2.5.6. Temporomandibular Joint

2.6. Feline Gingivostomatitis
- 2.6.1. Introduction
- 2.6.2. Clinical Signs
- 2.6.3. Diagnosis
- 2.6.4. Complementary Tests
- 2.6.5. Medical Treatment
- 2.6.6. Surgical Management

2.7. Feline Dental Resorption
- 2.7.1. Introduction
- 2.7.2. Pathogenesis and Clinical Signs
- 2.7.3. Diagnosis
- 2.7.4. Complementary Tests
- 2.7.5. Treatment
- 2.7.6. Treatment

2.8. Dental Extraction
- 2.8.1. Anatomical Concepts
- 2.8.2. Indications
- 2.8.3. Anatomical Particularities
- 2.8.3. Surgical Management
- 2.8.5. Odontosection
- 2.8.4. Flaps
- 2.8.5. Post-Operative Treatment

2.9. Endodontics
- 2.9.1. Basis of Endodontics
- 2.9.2. Specific Materials
- 2.9.3. Indications
- 2.9.4. Diagnosis
- 2.9.5. Surgical Technique
- 2.9.6. Post-Operative Care
- 2.9.7. Complications

2.10. Maxillofacial Fractures
- 2.10.1. Emergencies
- 2.10.2. Stabilisation of the Patient
- 2.10.3. Clinical Examination
- 2.10.4. Treatment
- 2.10.5. Therapeutics and Postoperative Care
- 2.10.6. Complications

Module 3. Oncology in Small Animal Dentistry

3.1. Oral Cancer.
- 3.1.1. Aetiology of Cancer.
- 3.1.2. Cancer Biology and Metastasis.
- 3.1.3. Diagnostic Procedure in Oral Oncology (clinical stage):
  - 3.1.3.1. Oncological Examination.
  - 3.1.3.2. Cytology/Biopsy.
  - 3.1.3.3. Diagnostic Imaging
- 3.1.4. Paraneoplastic Syndromes
- 3.1.5. Oral Cancer Treatment Overview.
  - 3.1.5.1. Surgery
  - 3.1.5.2. Radiotherapy
  - 3.1.5.3. Chemotherapy.
- 3.1.6. Overview of Oral Cancer Prognosis.

3.2. Radiotherapy
- 3.2.1. What is Radiotherapy.
- 3.2.2. Mechanisms of Action.
- 3.2.3. Modalities of Radiotherapy.
- 3.2.4. Side Effects.

3.3. Chemotherapy.
- 3.3.1. Cellular Cycle
- 3.3.2. Cytotoxic Agents
  - 3.3.2.1. Mechanism of Action.
  - 3.3.2.2. Administration.
  - 3.3.2.3. Side Effects.
- 3.3.3. Anti-Angiogenic Therapies.
- 3.3.4. Targeted Therapy

3.4. Electrochemotherapy
- 3.4.1. What is Electrochemotherapy.
- 3.4.2. Mechanism of Action.
- 3.4.3. Indications.

3.5. Benign Oral Tumors
- 3.5.1. Peripheral Odontogenic Fibroma.
- 3.5.2. Acanthomatous Ameloblastoma.
- 3.5.3. Odontogenic Tumours.
- 3.5.4. Osteomas.

3.6. Canine Oral Melanoma.
- 3.6.1. Pathophysiology of Oral Melanoma.
- 3.6.2. Biological Behavior.
- 3.6.3. Diagnostic Procedure.
- 3.6.4. Clinical Status.
- 3.6.5. Management
  - 3.6.5.1. Surgery
  - 3.6.5.2. Radiotherapy
  - 3.6.5.3. Chemotherapy.
  - 3.6.5.4. Other treatments
- 3.6.6. Prognosis

3.7. Canine Oral Squamous Cell Carcinoma.
- 3.7.1. Physiopathology of Canine Oral Squamous Cell Carcinoma.
- 3.7.2. Biological Behavior.
- 3.7.3. Diagnostic Procedure.
- 3.7.4. Clinical Status.
- 3.7.5. Treatment
  - 3.7.5.1. Surgery
  - 3.7.5.2. Radiotherapy
  - 3.7.5.3. Chemotherapy.
  - 3.7.5.4. Other treatments
- 3.7.6. Prognosis

3.8. Canine Oral Fibrosarcoma.
- 3.8.1. Physiopathology of Canine Oral Fibrosarcoma.
- 3.8.2. Biological Behavior.
- 3.8.3. Diagnostic Procedure.
- 3.8.4. Clinical Status.
- 3.8.5. Treatment
  - 3.8.5.1. Surgery
  - 3.8.5.2. Radiotherapy
  - 3.8.5.3. Chemotherapy.
  - 3.8.5.4. Other treatments
- 3.8.6. Prognosis

3.9. Feline Oral Squamous Cell Carcinoma.
- 3.9.1. Physiopathology of Feline Oral Squamous Cell Carcinoma.
- 3.9.2. Biological Behavior.
- 3.9.3. Diagnostic Procedure.
- 3.9.4. Clinical Status.
- 3.9.5. Treatment
  - 3.9.5.1. Surgery
  - 3.9.5.2. Radiotherapy
  - 3.9.5.3. Chemotherapy.
  - 3.9.5.4. Other treatments
- 3.9.6. Prognosis

3.10. Other Oral Tumours.
- 3.10.1. Osteosarcoma.
- 3.10.2. Lymphoma.
- 3.10.3. Mastocytoma.
- 3.10.4. Tongue Cancer.
- 3.10.5. Oral Tumours in Young Dogs.
- 3.10.6. Multilobular Osteochondrosarcoma.

Module 4. Oral Cavity Surgery in Small Animals

4.1. Surgical Pathology and Surgery of the Cheeks and Lips.
- 4.1.1. Chewing Injuries.
- 4.1.2. Lacerations.
- 4.1.3. Lip Avulsion.
- 4.1.4. Necrosis.
- 4.1.5. Cheilitis and Dermatitis.
- 4.1.6. Inappropriate Salivation.
- 4.1.7. Tight Lip.
- 4.1.8. Cleft Lip.

4.2. Surgical Pathology and Tongue Surgery.
- 4.2.1. Congenital Disorders.
- 4.2.2. Infectious Disorders.
- 4.2.3. Trauma.
- 4.2.4. Miscellaneous.
- 4.2.5. Neoplasms and Hyperplastic Lesions.

4.3. Oropharyngeal Disorders.
- 4.3.1. Dysphagia
- 4.3.2. Penetrating Wounds to the Pharynx.

4.4. Surgical Pathology of the Tonsils.
- 4.4.1. Tonsillar Inflammation.
- 4.4.2. Tonsillar Neoplasia.

4.5. Surgical Pathology of the Palate.
- 4.5.1. Congenital Defects of the Palate.
  - 4.5.1.1. Cleft Lip.
  - 4.5.1.2. Paladar hendido.
- 4.5.2. Acquired Defects of the Palate.
  - 4.5.2.1. Oro-Nasal Fistula.
  - 4.5.2.2. Trauma.

4.6. Surgical Pathology of the Salivary Glands in the Dog.
- 4.6.1. Surgical Diseases of the Salivary Glands.
- 4.6.2. Sialocele.
- 4.6.3. Sialoliths.
- 4.6.4. Salivary Gland Neoplasia.
- 4.6.5. Surgical Management

4.7. Oncological Surgery of the Oral Cavity in Dogs and Cats.
- 4.7.1. Sample Collection.
- 4.7.2. Benign Neoplasms.
- 4.7.3. Malignant Neoplasms.
- 4.7.4. Surgical Treatment

4.8. Surgical Pathology of the TMJ.Surgical Pathology of the TMJ.
- 4.8.1. Temporomandibular Joint Dysplasia.
- 4.8.2. Fractures and Dislocations.

4.9. Introduction to Jaw Fractures.
- 4.9.1. Principles of Fracture Repair.
- 4.9.2. Biomechanics of Jaw Fractures.
- 4.9.3. Techniques in the Treatment of Fractures.

4.10. Mandibular Fractures in the Dog and Cat.
- 4.10.1. Fractures of the Jaw.
- 4.10.2. Fractures of the Maxillofacial Region.
- 4.10.3. Common Problems in Fracture Repair.
- 4.10.4. Most Frequent Post-Surgical Complications.

05

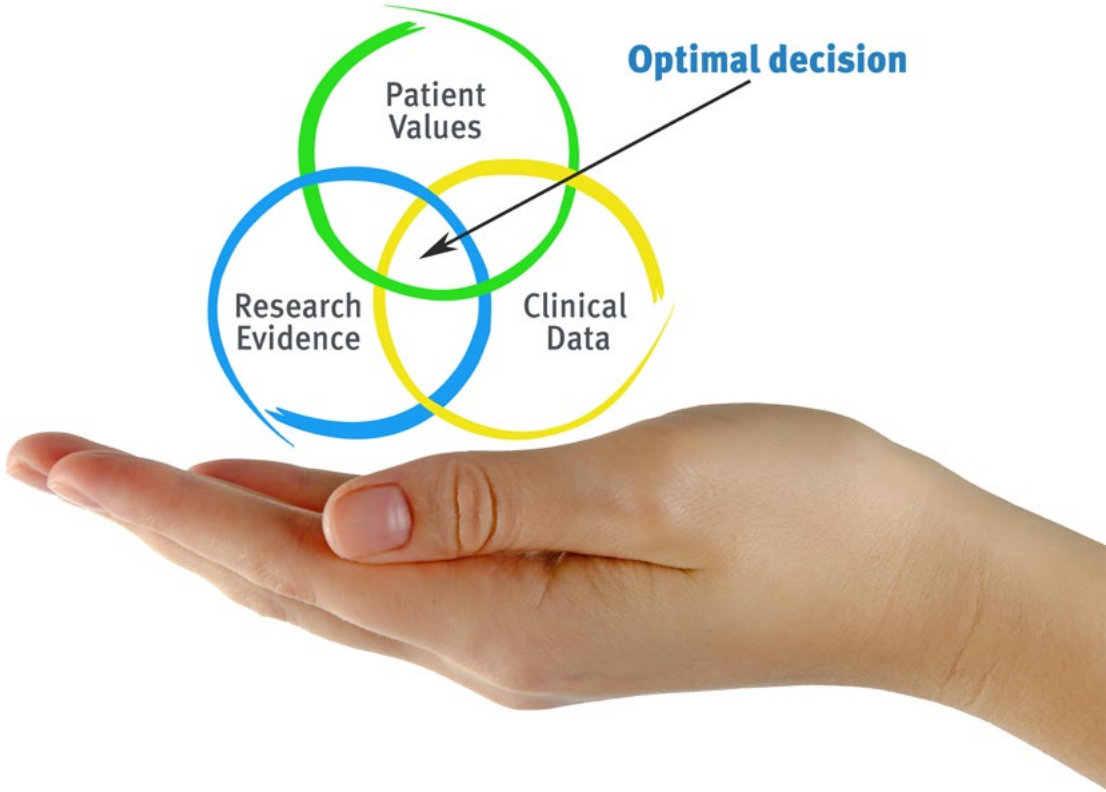
Methodology

Our methodology uses a cyclical learning approach***: Re-learning***. Developed in Harvard, this system became a standard method of teaching in 1924. 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.

Discover Re-learning, 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"

In a given situation, what would you do? Throughout these months, the professional will face multiple simulated clinical cases based on real patients in which he/she will have to investigate, establish hypotheses and finally, resolve the situation. This method ensures specialists learn better as they accept more responsibility and get closer to the reality of their professional future.

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 for success"



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.

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

01 **Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.**

02 **The learning process has a clear focus on practical skills that allow the student to better integrate into the real world.**

03 **Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.**

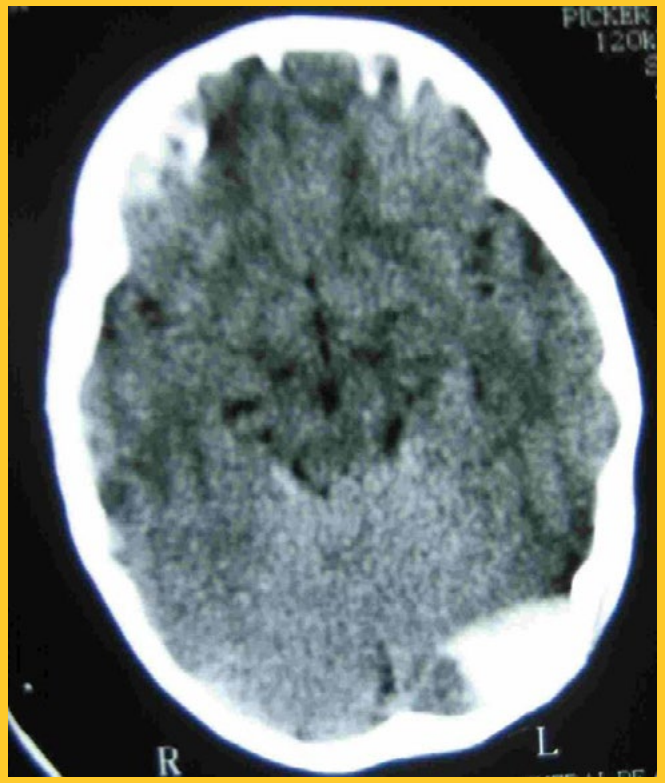
04 **Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the program.**

The student will be able to learn with the advantages of having access to simulated learning environments and the learning-by-observation approach, Learning from an Expert"

An immersive system of knowledge transmission, through participation in resolving real problems and supported by the best audiovisual technology on the educational market.

The Re-learning method, will help you to learn and consolidate what you have learnt in a more efficient way, as well as allowing you to achieve your training goals more quickly and with less effort.

Re-Learning Methodology



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. The teaching quality, the quality of the materials, the structure of the course and the objectives achieved were rated as very positive.

With more than 150,000 professionals trained in this methodology and an international satisfaction level of 8.01, relearning has proven to be at the height of the most demanding evaluation environments.

In our system, 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.

More than 150,000 professionals have been trained with this methodology, achieving unprecedented success. All this in a highly demanding environment, with the highest standards of evaluation and monitoring.

This training will be based, above all, on experience. A process in which you will test the knowledge you will acquire, consolidating and improving it gradually.

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

Study Material

All the teaching materials are specifically created for the course, by specialists who teach on the course, so that the teaching content is highly specific and precise.

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.

Educational Techniques and Procedures on Video

We bring you closer to the latest techniques, to the latest educational advances, to the forefront of current affairs. 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.

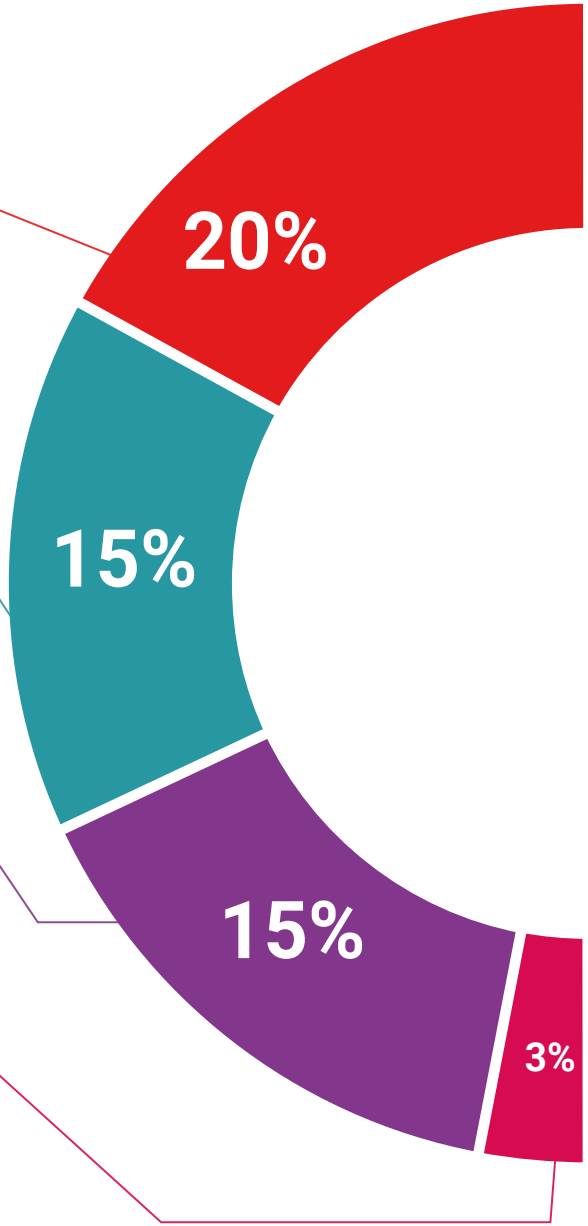
Interactive Summaries

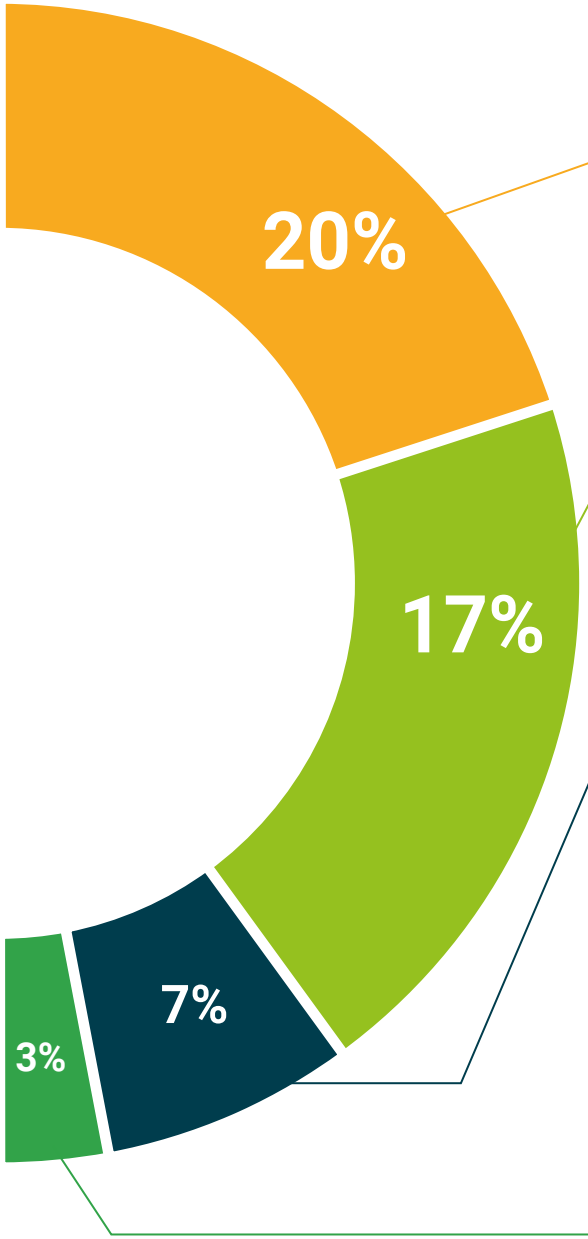
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge. This unique training system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

Additional Reading

By participating in this course you will have access to a virtual library where you will be able to complement and keep your training up-to-date with the latest articles on the subject, consensus documents, international guidelines...

An invaluable resource that you will be able to use even when you finish your course with us.





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 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 your knowledge throughout the program through assessment and self-assessment activities and exercises: so that you can see if you are achieving your goals.

Learning from an expert

Observing an expert performing a task is the most effective way of learning. It is called *Learning from an expert:* a proven way to reinforce knowledge and recall what has been learned. For this reason, we include this type of learning in our course 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 future difficult decisions.

Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.

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Certificate

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.

Include in your training the Postgraduate Diploma in Surgical and Oncologic Pathology in Small Animals: a highly qualified added value for any professional in this field"

This **Postgraduate Diploma in Surgical and Oncologic Pathology in Small Animals** contains the most complete and up-to-date scientific program on the market.

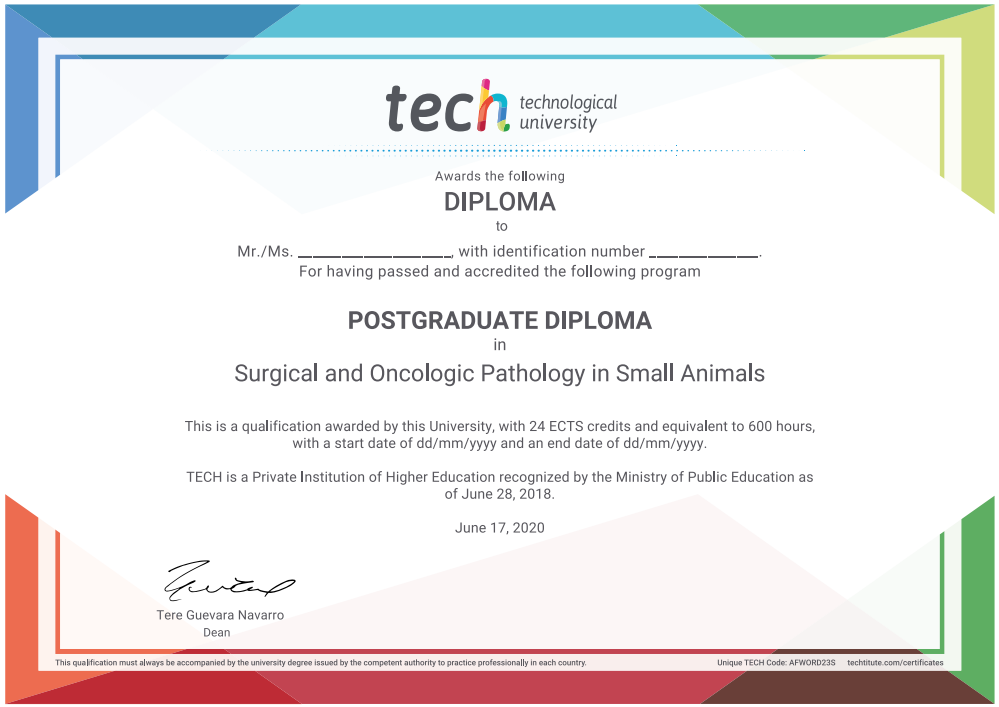
After students have passed the evaluations, they will receive their **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Surgical and Oncologic Pathology in Small Animals**

ECTS: **24**

Official Number of Hours: **600**


tech technological university

Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE DIPLOMA

in

Surgical and Oncologic Pathology in Small Animals

This is a qualification awarded by this University, with 24 ECTS credits and equivalent to 600 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country.

Unique TECH Code: AFWORD23S techtitute.com/certificates

*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.

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Postgraduate Diploma
Surgical and Oncologic Pathology in Small Animals

Course Modality: **Online**

Duration: **6 months.**

Certificate: **TECH - Technological University**

24 ECTS Credits

Teaching Hours: **600 hours.**

Postgraduate Diploma
Surgical and Oncologic Pathology in Small Animals

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