

# Postgraduate Certificate

## Prevention and Management of Infectious Pathologies in Small Animals



## Postgraduate Certificate Prevention and Management of Infectious Pathologies in Small Animals

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

Official N° of hours: **150 h.**

Website: [www.techtitute.com/pk/veterinary-medicine/postgraduate-certificate/prevention-management-infectious-pathologies-small-animals](http://www.techtitute.com/pk/veterinary-medicine/postgraduate-certificate/prevention-management-infectious-pathologies-small-animals)

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# 01

# Introduction

Undoubtedly, the most relevant point regarding infectious diseases in small animals is their prevention. This comprehensive program addresses the methods of prevention, vaccination and deworming used in different situations during the development of daily clinical activity in small animals. The most up-to-date and complete deep dive into the latest developments in this field. With the quality of The World's Largest Online University.







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*A complete update in the prevention of infectious diseases in small animals, with the most interesting developments in the sector”*

The World Health Organization has recently reiterated: "prevention is better than cure". In the 21st century, the focus of medicine is changing. Until a few decades ago, the predominant approach was curative medicine as opposed to preventive medicine, which focused on the diagnosis and treatment of established diseases. However, at this time, both coexist in a complementary way, and thanks to the design of a program based on prophylactic measures developed by the scientific community, preventive medicine is being consolidated due to its great relevance in the health of all living beings.

Knowledge in prevention of the different infectious diseases affecting small animals is essential due to multiple factors: the increasingly close contact of humans with companion animals, as well as the existence of zoonotic diseases of bidirectional transmission between both species, in addition to the fact that climate change is already a reality.

This not only implies a destruction of the environment and an increase in global temperature, but also greater globalization in terms of the distribution and transmission of diseases.

Therefore, the One Health concept has acquired a crucial role in the health of living beings. It is in our hands to deepen in the necessary knowledge to preserve the health of animals and, consequently, that of human beings.

Throughout the topics that make up this program, we will not only compile and develop the latest recommendations published on this subject, but we will also provide a practical response to situations that are not so conventional, but highly prevalent in day-to-day clinical practice.

This **Postgraduate Certificate in Prevention and Management of Infectious Pathologies in Small Animals** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ The latest technology in online teaching software
- ◆ A 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
- ◆ Autonomous 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
- ◆ Complementary documentation databases that are permanently available, even after the program



*Zoonoses in both directions, studied in the light of new research and advances in this sector, in the field of veterinary medicine for dogs and cats"*

“

*An educational program based on the best working methods of the online educational panorama, revolutionary in the veterinary field”*

Its teaching staff includes professionals belonging to the field of veterinary medicine, who bring to this training the experience of their work, in addition to recognized specialists from prestigious reference societies and 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 education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program.

For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced psychology experts.

*This Postgraduate Certificate comes with the best didactic 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 objective of this program is to provide veterinary medicine professionals with a high-quality resource that allows them to be fully up to date, integrating into their theoretical and practical knowledge the latest advances and developments in the treatment of small animals in the field of infectious diseases.







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*A boost to your education that will allow you to work under the One Health paradigm and offer your patients and their owners a better and their owners a better and safer quality of life"*



## General Objectives

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- ◆ Compile the fundamental knowledge and skills related to the prevention of infectious diseases in small animals
- ◆ Adequately establish vaccination protocols for the most common infectious pathologies and their adaptation according to the intrinsic conditions of each patient
- ◆ Delve into the prophylactic methods available for the prevention of vector diseases
- ◆ Develop methods for the prevention of external and internal parasitosis in small animals
- ◆ Determine the importance of establishing an individual protocol adapted to the needs and/or characteristics of each patient
- ◆ Offer the most up-to-date prophylactic methods, according to the latest studies in this field



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







## Specific Objectives

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- ♦ Analyze the differences in vaccination and deworming protocols in patients with high and low risk of disease
- ♦ Address the management of patients with acute or chronic pathologies, and establish clear criteria for vaccination and deworming
- ♦ Determine prophylactic methods against infectious diseases in patients under medical treatment
- ♦ Assess the necessary methods of prevention of infectious diseases in special physiological conditions, such as gestation and lactation, and their safety in these conditions
- ♦ Present the factors involved in immunization failures in small animals
- ♦ Identify expected versus undesirable adverse reactions to vaccination and their management
- ♦ Examine the factors involved in the prevention of vector-borne diseases and methods of prevention depending on the vector-borne agent
- ♦ Propose deworming protocols according to the age of the animal, its health status and surrounding environmental conditions
- ♦ Determine the correct sanitary management in canine and feline kennels.
- ♦ Develop the methods of action in force in relation to companion animals in disaster situations



03

# Course Management

The quality of the process has one of its pillars in the excellence of the teaching staff. For this reason, we choose our teachers from among the best in the most advanced countries in this area of work. Thanks to this, you will have the opportunity to learn from the best qualified professionals. Experts, who will put their real experience at the service of the program and who, in addition, have proven to have the best teaching qualifications. For the sake of quality, which is the hallmark of our identity.



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*A teaching staff chosen from among the best in the industry, which will allow you to learn in a realistic way, with a complete, practical and current vision of the work in this field of veterinary medicine”*

## Management



### Ms. Pérez-Aranda Redondo, María

- Head of the Dermatology Service at Symbiosis Center of Veterinary Specialties. Veterinarian at North Aljarafe Veterinary Center
- Dermatology and Diagnostic Cytology Service Manager
- Veterinary clinic of the Canitas Veterinary Center in East Seville
- Responsible for the Dermatology and Cytological Diagnosis Service of all Canitas Veterinary Centers
- Honorary Collaborator of the Department of Animal Medicine and Surgery in Dermatology
- Collaborating Student of the Department of Animal Medicine and Surgery in Dermatology



## Professors

### Dr. Laura López Cubillo

- ◆ Degree in Veterinary Medicine, Complutense University Madrid
- ◆ Postgraduate course in Diagnostic Imaging in small animals by the CEU Cardenal Herrera University of Valencia
- ◆ Attendance to congresses, courses and conferences on Internal Medicine, Feline Medicine, Diagnostic Imaging and Emergency and Intensive Care at national level
- ◆ Currently, resident at the Diagnostic Imaging Service of the Complutense Veterinary Hospital of Madrid
- ◆ Responsible for the Emergency Department at Gattos Feline Clinical Center Hospital
- ◆ Resident in the Internal Medicine, Diagnostic Imaging and Emergency Department at Gattos Feline Clinical Center Hospital
- ◆ Rotating internship at Gattos Hospital Feline Clinical Center

### Dr. Cigüenza del Ojo, Pablo

- ◆ Onkos Director
- ◆ Clinical Veterinarian
- ◆ Degree in Veterinary Medicine from the Complutense University of Madrid Diploma in Cytological Diagnosis of Dogs and Cats from the UCM
- ◆ Professional Master's Degree in Small Animal Clinical Oncology by Improve
- ◆ General Practitioner in Oncology by the European Veterinary School of Postgraduate Studies (EVSPS)

### Mr. Melgarejo Torres, Cristian David

- ◆ University Professor Technical University of Marketing and Development. Department of Veterinary Sciences. San Lorenzo, Paraguay
- ◆ AGROFIELD S.R.L. Clinical and surgical care to dogs and cats. Branch Manager
- ◆ Veterinary Doctor. National University of Asuncion
- ◆ Professional Master's Degree in Animal and Veterinary Sciences. University of Chile
- ◆ PhD student Autonomous University of Barcelona
- ◆ Processing of COVID-19 Samples. National Animal Health and Quality Service (SENACSA)

### D. Borrás, Pablo Jesús

- ◆ Head of the Infectious, Parasitic Diseases and Traveler's Medicine Service at Panda Veterinary
- ◆ Teacher of Parasitology, Parasitic Diseases, Parasitic Diseases in animal production, Parasitic Diseases in large animal clinics, Parasitic Zoonoses
- ◆ Postgraduate Courses at FVET (UBA)
- ◆ Parasitology for Biotherium Technicians
- ◆ Degree in Veterinary Medicine from the School of Veterinary Sciences, University of Buenos Aires, Argentina of Buenos Aires
- ◆ Magister in Prevention and Control of Zoonosis at the Northeast University of Buenos Aires
- ◆ Specialist in Infectious and Parasitic Diseases of Small Animals by the Professional Council of Veterinary Doctors (CPMV)

04

# Structure and Content

This program has been designed with a specific teaching model that successfully combines the intensity of a comprehensive and complete study with a highly flexible way of learning. A knowledge journey that addresses each and every area of professional development that the veterinarian needs in the field of small animal infectious diseases.





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*A unique teaching model that reconciles distance education with practical learning, allowing the professional to progress in their healthcare capacity by studying with the best teaching program on the online market”*



## Module 1. Vaccination and Prevention

- 1.1. Vaccination in Dogs I
  - 1.1.1. Types of Vaccines
  - 1.1.2. Canine Vaccination Protocol. Primovaccination and Revaccination.
  - 1.1.3. Vaccination Under Special Conditions
  - 1.1.4. Action Protocol
  - 1.1.5. Vaccine Reactions
  - 1.1.6. Immunization Failures. Factors Involved
- 1.2. Vaccination in Dogs II
  - 1.2.1. Essential Vaccines
  - 1.2.2. Complementary Vaccines
  - 1.2.3. Non-Recommended Vaccines
- 1.3. Vaccination in Cats I
  - 1.3.1. Feline Vaccination Protocol
  - 1.3.2. Vaccination Under Special Conditions
  - 1.3.3. Action Protocol
  - 1.3.4. Vaccine Reactions. Expected and Undesirable
  - 1.3.5. Immunization Failures. Factors Involved
- 1.4. Vaccination in Cats II
  - 1.4.1. Essential Vaccines
  - 1.4.2. Complementary Vaccines
  - 1.4.3. Non-Recommended Vaccines
- 1.5. Preventive Management of Vector-Borne Diseases
  - 1.5.1. Importance of Vector-Borne Disease Management
  - 1.5.2. Factors Involved
  - 1.5.3. Classification of Vector-Borne Diseases According to the Type of Vector Responsible for Vectors
- 1.6. Preventive Management of External and Internal Parasitosis in Dogs
  - 1.6.1. Importance of Parasitosis Prevention
  - 1.6.2. Factors Involved
  - 1.6.3. Classification of Parasitic Diseases According to the Agent
    - 1.6.3.1. Ectoparasites
    - 1.6.3.2. Endoparasites
  - 1.6.4. Relevance of Combination Therapy







- 1.7. Preventive Management of External and Internal Parasitosis in the Cat
  - 1.7.1. Importance of Parasitosis Prevention
  - 1.7.2. Factors Involved
  - 1.7.3. Classification of Parasitic Diseases According to the Agent
    - 1.7.3.1. Ectoparasites
    - 1.7.3.2. Endoparasites
  - 1.7.4. Relevance of Combination Therapy
- 1.8. Sanitary Management of Kennels
  - 1.8.1. Characteristics of the Facilities
  - 1.8.2. Cleaning. Order and Products to be Used
  - 1.8.3. Vaccination Programs
  - 1.8.4. Deworming Programs
  - 1.8.5. Sanitary Vacuum. Why, When and How to Perform it
- 1.9. Sanitary Management of Cat Catteries
  - 1.9.1. Characteristics of the Facilities
  - 1.9.2. Cleaning. Order and Products to be Used
  - 1.9.3. Vaccination Programs
  - 1.9.4. Deworming Programs
  - 1.9.5. Sanitary Vacuum. Why, When and How to Perform it
- 1.10. Disaster Management
  - 1.10.1. Main Types of Disasters
    - 1.10.1.1. Meteorological Disasters
    - 1.10.1.2. Natural Disasters
    - 1.10.1.3. Biological Disasters Pandemics
  - 1.10.2. Preventive Measures
    - 1.10.2.1. Census of Animals
    - 1.10.2.2. Preparation and Organization of Facilities to be Used as Shelter
    - 1.10.2.3. Personnel and Means of Transport
    - 1.10.2.4. Current Legislation in Force in Cases of Catastrophes in Relation to Companion Animals

# 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. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching 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

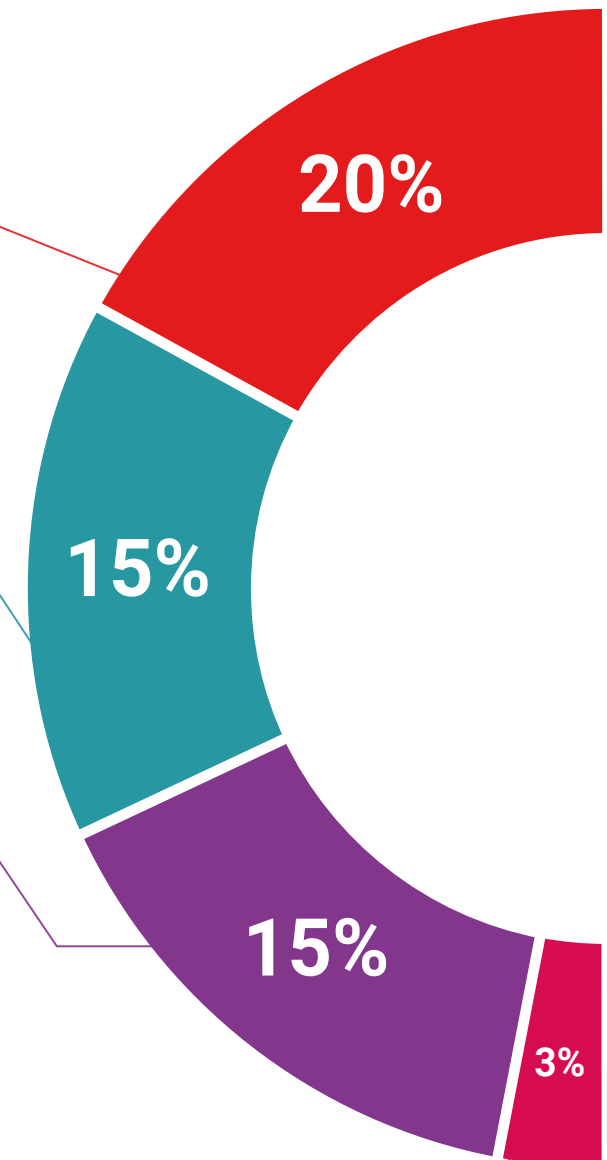
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 Certificate in Prevention and Management of Infectious Pathologies 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 Prevention and Management of Infectious Pathologies 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** issued by **TECH Technological University** via tracked delivery\*.

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

Title: **Postgraduate Certificate in Prevention and Management of Infectious Pathologies in Small Animals**  
Official N° of Hours: **150 h.**



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



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



**Postgraduate Certificate**  
Prevention and Management  
of Infectious Pathologies in  
Small Animals

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Official Nº of hours: 150 h..

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