



Universidad del Sureste

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1. What is Veterinary Medicine and why is it important?

Veterinary medicine is the application of medicine, but in animals, it is concerned with preventing, diagnosing, and treating diseases, disorders, and injuries in animals. It is important because it protects not only the health of animals, but also contributes to ensuring public health, preventing outbreaks, avoiding the spread of diseases that threaten animals and people (zoonoses).



2. Relationship of veterinary medicine with human medicine

Most of the infectious diseases that appear, including bioterrorist agents, are zoonoses. Zoonoses can by definition infect animals and humans. By their nature, human medicine and veterinary medicine are complementary and synergistic in facing, controlling, and preventing species-to-species infections for zoonotic diseases. Collaboration and communication between human medicine and veterinary medicine has been very limited over the past few decades.

3. There are different areas in veterinary medicine

Veterinary medicine is a broad field that encompasses a variety of specialties, each dedicated to the care and health of different animal species. The main areas are: Dermatology, Surgery, Ophthalmology, Anesthesiology, Animal Behavior, Physiology, among others.



❖ **Veterinary dermatology:** it is the discipline that is responsible for diagnosing and treating skin pathologies in animals. It is essential to ensure hygiene control by using products in accordance with the characteristics of the animal, maintain their basic daily care and protect them from sun exposure. It is important because we can avoid skin diseases, as well as avoid parasites that the animal can produce.

- ❖ **Animal Surgery:** is an essential branch of veterinary medicine dedicated to diagnosing and treating various conditions that affect animals through surgical procedures. Many life-threatening conditions or cause significant pain can only be effectively treated through surgical interventions. Surgery allows internal problems to be corrected, malignant tumors to be eliminated and lesions to be repaired, contributing significantly to the longevity and quality of life of the animals.



- ❖ **Animal ophthalmology:** It is responsible for the study of eye diseases through medical and surgical treatments. It is very important since the veterinarian specialized in the eyes and eyelids can diagnose and treat pathologies related to the eyeball and all its structures, as well as presenting anomalies in the eyelids or glands involved in the process of tear secretion in order to achieve optimal eye function of the animal.

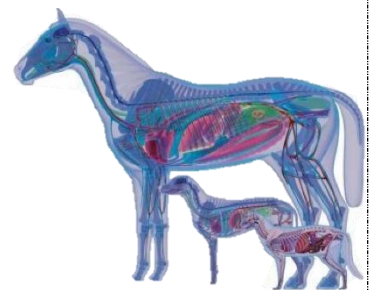
- ❖ **Animal anesthesiology :** is a crucial discipline in modern veterinary practice, playing a fundamental role in the care and treatment of non-human patients. Through the administration of anesthetics and specialized supervision, veterinary anesthesiologists seek to ensure the comfort and safety of animals during surgical procedures, diagnostics, and other medical treatments. Animal anesthesiology is very important since the application of anesthesia goes beyond simply introducing temporal inconsistency. It is a comprehensive process that involves careful evaluation of the animal, the appropriate choice of anesthetic agents, and constant monitoring to suit the individual needs of each animal. With the aim of providing due control in the intervention that is carried out.





❖ **Animal behaviour:** It refers to the observation and analysis of the actions of animals, both alone and in interaction with others. It is very essential to understand the needs and well-being of animals, since through the behavior of the animal we can identify clues to their physical and emotional health, in order to offer them a better quality of life. It is very important to have knowledge of animal behavior to address different situations, from the handling of pets in the clinic to the treatment of wild species. Understanding the animal's behavior allows you to advise owners on fostering positive and healthy interactions between their pets and their environment.

❖ **Animal physiology:** It focuses on the study of the normal functions of animal tissues, organs, and systems, as well as how these processes are regulated and controlled to maintain the internal balance of the organism. It is in charge of studying the functions of the animal's body in its best state, it is very important to be able to diagnose and prevent diseases, in order to improve the welfare of animals.



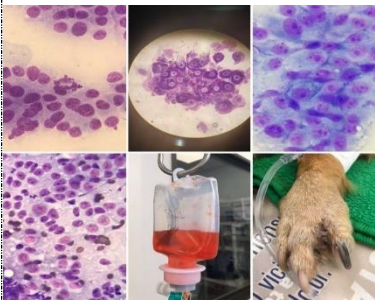
NUTRICION ANIMAL

❖ **Veterinary nutrition:** It is a discipline that is responsible for studying and providing adequate food for animals so that they maintain their health and well-being. It is very important that they have an adequate diet so that they have a better development and a better quality of life, so it is very important that they have a complete and balanced diet, that they contain all the necessary nutrients (proteins, carbohydrates, vitamins, fats and minerals), in an adequate amount for the animal. Diet depends on the species, age, size, physical activity and state of health. Veterinary nutrition is very important because the food is according to the need of the animal so that it has a better use and has a better benefit.

❖ **Veterinary Orthopedics and Veterinary Traumatology:** **veterinary orthopedics** is a specialty that is

responsible for correcting or avoiding deformities or traumas of the musculoskeletal system of animals, through orthopedic surgery, appliances or body exercises. It is necessary to perform an orthopedic evaluation in order to determine which

therapeutic options are the most suitable for the case that arises. Veterinary **traumatology** deals with fracture problems of varying degrees of complexity and joint problems such as ligament ruptures, or dislocations or congenital alterations. Different osteosynthesis interventions (surgical treatment of bone fractures) are performed, using external or internal fixation. It is important that the musculoskeletal system of animals is essential for their mobility and general well-being. So that the animal does not have deficiencies in its mobility or in some cases permanent disability.



❖ **Veterinary Oncology:** is the branch of the profession responsible for identifying, treating and preventing abnormal growth of animal cells and tissues (malignant and benign tumors). It is important to do periodic check-ups on the animal, to be able to detect bumps from physical examinations or by performing more complex tests such as biopsies or CT scans.

Veterinary cardiology: It is a specialty that is responsible for the prevention, diagnosis and treatment of heart disease among others. It is important to carry out prevention, to promote healthy habits and regular check-ups to detect and treat possible malignant causes early.



= Conclusion =

It is very important to know, to know each of the veterinary specialties because thanks to the knowledge we have, we will be able to face the different situations that patients (animals) present to us and thus have a good diagnosis and know how to keep control, either in their feeding or care. Veterinary medicine is something very beautiful since we can interact with most animals and know what the problem is, how cases may arise where we have to prevent or cure if that is the case either by surgical interventions or through pharmaceutical treatment, the importance of each specialty varies because some are based on the appearance of the animal, others in food, among others, but all have as their objective the well-being of the animal and that it has a more beautiful and pleasant life.

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