



## **RESEARCH UNIT I, ENGLISH**

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Bachelor's Degree in Veterinary Medicine and Zootechnics

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## INTRODUCTION

Veterinary medicine is an essential profession that covers a wide range of areas, beyond the care of domestic animals. Its impact extends to various fields of work, contributing significantly to animal welfare, public health, and economic development. Veterinarians play a crucial role in the prevention and control of zoonotic diseases (which can be transmitted from animals to humans), making them key players in protecting public health. In addition, veterinary medicine is also important in animal production, ensuring the well-being of farm animals and optimizing the production of food animal origin.

In other fields, such as scientific research and pharmacology, veterinarians develop and test new treatments, vaccines and medications that not only improve the lives of animals, but also contribute to the advancement of human medicine. In the food industry, their work in quality control and food safety ensures that animal products consumed by the population are safe and of high quality.

Finally, the field of wildlife and environmental conservation is also heavily influenced by veterinarians, who work to preserve endangered species and ensure biodiversity. In this way, the veterinarian contributes to different fields of work, playing a multifaceted role that impacts both animal and human life.

## **The importance of veterinary medicine in different professional fields**

The role of the veterinarian in any of his or her areas of action, whether administration, research, teaching, the production of food of animal origin and the care of small species, assumes a fundamental responsibility for the prevention and control of zoonotic pathogens from the source of origin. In this way, animal health becomes an important axis for public health care.

The veterinarian has the responsibility to implement his or her area of competence, in the One Health approach, which is a philosophy whose orientation is to prevent and treat diseases in animals that affect people's health, in harmony with the environment.

Under this concept, veterinary medicine protects people's health and contributes to guaranteeing public health by preventing diseases from their origin, which affect the world's population.

In addition to the above, veterinarians guarantee food security through food safety, improve animal health by preventing and eradicating diseases in animals, and help manage ecosystems avoiding imbalances due to climate change or invasive species.



## The veterinary medical professional works in areas such as:

Veterinarians diagnose and treat animals using scientific and medical knowledge, skills, practices, and various tools and equipment. What matters most to them is animal welfare and the protection of public health, especially where diseases can be transmitted from animals to people.

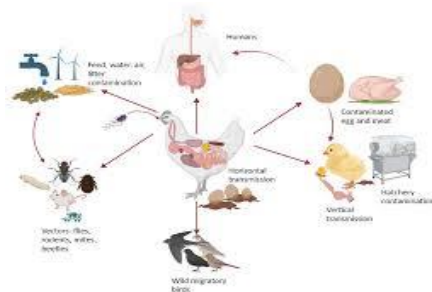
### **Veterinary diagnostic laboratories: pathology, microbiology, parasitology.**

The veterinary clinical diagnostic laboratory provides clinical veterinary diagnostic services in the areas of clinical pathology, molecular diagnosis, immunodiagnostic and histopathology, as well as supporting research aimed at improving the quality of life of animals and public health.



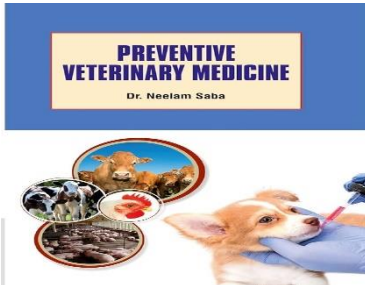
### **Livestock industries: livestock, dairy, meat, poultry, aquaculture (salmonella).**

It is characterized by the raising of cattle with the aim of producing meat and derivatives of the highest quality for human consumption. There are several characteristics that have made this activity important, necessary and responsible for improving the economic rates of several countries such as Mexico.



### **Preventive veterinary medicine.**

Preventive veterinary medicine protects and maintains the health of animals before disease appears, through diet, vaccination and clinical follow-up. It is an indispensable support to guarantee animal welfare and the health of the people who live with them.



### **Veterinary public health.**

Veterinary public health is a component of public health activities dedicated to the application of the knowledge, skills and abilities, or aptitudes of veterinary medicine for the promotion and protection of human health.



### **Animal health and production.**

Animal health: refers to animal diseases, and also to the relationship between animal welfare, human health, food safety and environmental protection. Animal health is important to ensure public health and food supplies.

Animal production: In addition to food production, animal husbandry plays other economic, cultural, and social roles. Animals are a part of agroecosystems.



## Wildlife, zoos, and wildlife rehabilitation centers.

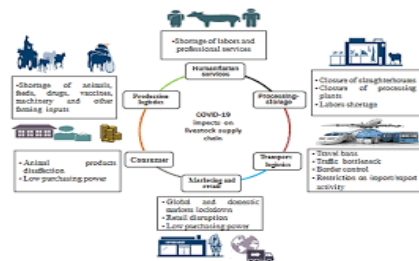
The main goal of rehabilitation is to release an animal back into the wild.

Zoos in wildlife conservation influence environmental education by bringing them closer to nature.



## Economics and administration of livestock companies.

Agricultural companies play a crucial role in the economy of any country, because they represent the economic entities that supply natural resources that make up the food of the population of the country to which they belong.



## Food technology.

This subject studies the composition of food intended for human consumption, its structure and its technological, nutritional and sensory quality, as well as the modifications that food and its components may undergo, at any time or phase of their processing and marketing.



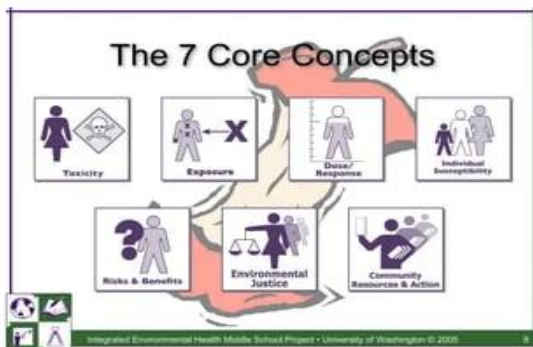
### **Research and university teaching and professional technician.**

Technical-professional education is made up of educational programs aimed at developing skills and abilities for work. In practically all Latin American countries, technical and professional education is an educational modality at the secondary and higher levels.



### **Environmental health.**

Environmental health according to the World Health Organization, is that discipline that includes aspects of human health, including quality of life and social well-being, which are determined by social and psycho-social, environmental, physical factors; chemical and biological.





## **CONCLUSION**

In conclusion, the veterinarian plays a multifaceted and crucial role in various work fields, ranging from the clinical care of domestic animals to the protection of public health, food production and the conservation of biodiversity. Its contribution to disease prevention, animal welfare and economic development highlights its importance in today's society. Additionally, veterinary research drives scientific advances that benefit both animals and humans, reaffirming the relevance of this profession in a world where human, animal, and environmental health are deeply interconnected.

## BIBLIOGRAPHY:

*The importance of veterinary medicine in different professional fields.*

Importance of the Veterinarian in Public Health | National Producer of Veterinary Biologicals | Government | gob.mx

*The veterinary medical professional works in areas such as.*

Occupational Field - College of Veterinary and Livestock Sciences - Chil University

*Domestics animal surgical medical centers.*

<https://www.educaweb.com/profesion/veterinario-636/>

*Veterinary diagnostic laboratories*

[https://www.google.com/url?q=https://www.unilasallista.edu.co/centro-de-laboratorios/laboratorio-de-diagnostico-clinico-veterinario/%23:-:text%3DEI%2520Laboratorio%2520de%2520Diagn%25C3%25B3stico%2520CI%25C3%25ADnico,y%2520de%2520la%2520salud%2520p%25C3%25BAblica.&sa=U&sqi=2&ved=2ahUKEwic1YL44MCIAxWISzABHSwrGjsQFnoECBwQBQ&usg=AOvVaw2SrlsvUSngRwTdPIk\\_xDGE](https://www.google.com/url?q=https://www.unilasallista.edu.co/centro-de-laboratorios/laboratorio-de-diagnostico-clinico-veterinario/%23:-:text%3DEI%2520Laboratorio%2520de%2520Diagn%25C3%25B3stico%2520CI%25C3%25ADnico,y%2520de%2520la%2520salud%2520p%25C3%25BAblica.&sa=U&sqi=2&ved=2ahUKEwic1YL44MCIAxWISzABHSwrGjsQFnoECBwQBQ&usg=AOvVaw2SrlsvUSngRwTdPIk_xDGE)

*Livestock industries.*

<https://www.google.com/gasearch?q=que%20son%20las%20industrias%20pecuarias&source=sh/x/gm2/5>

*Preventive veterinary medicine*

Preventive veterinary medicine for dogs and cats - ADOPTACDMX

Veterinary Public Health

<https://www.google.com/gasearch?q=que%20es%20la%20salud%20publica%20veterinaria&source=sh/x/gm2/>

Health and production....

<https://www.efsa.europa.eu/es/topics/topic/animal-health#:~:text=El%20concepto%20de%20salud%20animal,ambiente%20y%20la%20seguridad%20alimentaria.>

<https://www.fao.org/animal-production/es#:~:text=Adem%C3%A1s%20de%20la%20producci%C3%B3n%20de,parte%20esencial%20de%20los%20agroecosistemas.>

*Wildlife, Zoos, and Wildlife Rehabilitation Centers*

<https://www.google.com/url?q=https://www.intiwarayassi.org/es/our-work/rescate-cuidado-y-rehabilitacion-de-fauna->

silvestre/&sa=U&sqi=2&ved=2ahUKEwi8xIWJv8uIAxWpVTABHarPDMEQFnoECBYQAAQ&usg=AOvVaw3J4qjE-aHTn1HppOvqoVQ

[https://www.google.com/url?q=https://umamexico.com/los-zoologicos-en-la-conservacion-de-la-vida-](https://www.google.com/url?q=https://umamexico.com/los-zoologicos-en-la-conservacion-de-la-vida-silvestre/&sa=U&sqi=2&ved=2ahUKEwi8xIWJv8uIAxWpVTABHarPDMEQFnoECBEQAAQ&usg=AOvVaw33g4FqRG__cdGfWlylc-OH)

[silvestre/&sa=U&sqi=2&ved=2ahUKEwi8xIWJv8uIAxWpVTABHarPDMEQFnoECBEQAAQ&usg=AOvVaw33g4FqRG\\_\\_cdGfWlylc-OH](https://www.google.com/url?q=https://umamexico.com/los-zoologicos-en-la-conservacion-de-la-vida-silvestre/&sa=U&sqi=2&ved=2ahUKEwi8xIWJv8uIAxWpVTABHarPDMEQFnoECBEQAAQ&usg=AOvVaw33g4FqRG__cdGfWlylc-OH)

*Economics and Livestock Business Administration*

<https://www.redalyc.org/journal/141/14152127007/html/>

*Food Technology*

<https://www.google.com/gasearch?q=que%20es%20la%20tecnolog%C3%ADa%20de%20alimentos%20en%20veterinaria&source=sh/x/gm2/5>

University and professional technical research and teaching

[https://siteal.iiep.unesco.org/eje/educacion\\_y\\_formacion\\_tecnica\\_y\\_profesional](https://siteal.iiep.unesco.org/eje/educacion_y_formacion_tecnica_y_profesional)

*Environmental health.*

<https://www.google.com/gasearch?q=que%20es%20la%20salud%20ambiental&source=sh/x/gm2/5>