Veterinarians have made critical innovations and discoveries throughout history that have improved animal and human health, our environment, and society.

**INNOVATION**

- Dr. Andre-Joseph Brogniez was an early developer of artificial arms and legs that moved like natural limbs.  
  *Thanks to ongoing developments, amputees can lead active lives.*

- Dr. John Boyd Dunlop glued two strips of rubber together to form a tube and created the first air-filled tire.  
  *With the modern version of inflatable tires, people and animals enjoy a smooth ride.*

- Dr. Tabourin improved the hypodermic syringe.  
  *Now it is easier to give injections to animals and people to treat or prevent disease.*

- Dr. Otto Stader created the reduction splint to treat fractured (broken) bones in dogs.  
  *Versions of this splint are still used today in people and animals to heal broken bones.*
DISCOVERY

• Dr. Edmond Nocard helped to pioneer the field of bacteriology. This led to studies of diseases that can be passed between people and animals, such as cholera and tuberculosis, along with the creation of vaccines for both animals and people.

• Dr. Ralph L. Brinster performed genetic research that led to technologies such as stem cell therapy, human in-vitro fertilization and cloning. This research is used today to investigate various diseases and gene mutations like cancer, heart disease, and infertility.

• Veterinary scientist, Dr. Daniel E. Salmon, discovered the first strain of Salmonella. Finding the cause of a common illness is a critical first step to preventing and curing disease.

• When veterinarians proved insects can transmit disease, research was launched to control typhus, malaria, bubonic plague and yellow fever. The knowledge that insects can spread disease has helped to protect animals and people from many deadly illnesses.

• Dr. Peter Doherty was awarded a Nobel Prize for his discovery about how the body’s immune system protects us from infections. This discovery led to the prevention and treatment of infections in both animals and people.

• Dr. Tracy McNamara, at the Bronx Zoo, was the first person to find that zoo animals and wild birds were dying from the same disease that was infecting people. Once the link between West Nile virus in animals and people was identified, researchers were able to look for ways to prevent and treat it.

• Dr. Robert Taylor successfully implanted two permanent artificial rear legs into a Siberian Husky named Triumph. This breakthrough paves the way for physicians to eventually implant permanent, artificial arms and legs into humans and animals.

Whether they work in private practice, industry, the military, government service, or other ways, veterinarians work daily to improve animal health and welfare.

SERVICE

• Private Practice
  Veterinarians care for our pets and service animals.

• Farm Animal Practice
  Veterinarians protect the health and welfare of livestock to ensure healthy food products.

• Food Safety & Regulatory Medicine
  Veterinarians inspect our meat and many other foods for harmful bacteria.

• Laboratory Animal Medicine
  Veterinarians work in research or in practice, making sure that laboratory animals receive proper care.

• Environmental Science
  Veterinarians monitor our lakes and rivers to keep the water safe.

• Research & Industry
  Veterinarians develop new technologies to detect, prevent and treat animal and human diseases

• Military Veterinary Medicine
  Veterinarians deliver public health programs to foreign countries.

• Zoo Medicine
  Veterinarians work with zoo animals, wildlife, and aquatic species.

• ...and so much more!