Veterinary Science
Preparatory Training for the Veterinary Assistant
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Treatment

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Objectives

- Discuss drug and chemical therapy
- Discuss nutritional therapy
- Discuss physical therapy
- Discuss supportive therapy
- Discuss surgical therapy
Definition

Administration or application of remedies to a patient for a disease or injury
Veterinarians
  - Make diagnosis
    - Symptoms
    - Test results
  - Determine remedy
    - Treatment
    - No treatment
Treatment options

- Drug and chemical therapy
- Nutritional therapy
- Physical therapy
- Supportive therapy
- Surgical therapy
- Euthanasia
**Drug and Chemical Therapy**

- **Pharmacokinetics**
  - The branch of pharmacology that studies the fate of drugs and chemicals in the body, as their absorption, distribution, metabolism, and elimination

- **Pharmacodynamics**
  - The branch of pharmacology dealing with the course of action, effect, and breakdown of drugs and chemicals within the body
Administration and application of drugs
- Antibacterial
- Antiviral
- Anti-inflammatory
- Antifungal

Administration and application of chemicals
- Antiparasitic
- Antiseptic
- Anti-neoplastic
Follow label instructions

- Species
- Dose
- Route
  - Oral
  - Topical
  - Parenteral
- Conditions
- Withdrawal time
- Milk discard time
- Cautions
Routes of administration

Oral

- Tablets
- Capsules
- Boluses
- Powders
- Granules
- Liquids
- Pastes
Topical

- Ointments
- Creams
- Solutions
- Powders
Parenteral

- Intramuscular (IM)
- Intravenous (IV)
- Subcutaneous (SQ)
- Intraperitoneal (IP)
- Epidural (ED)
- Intradermal (ID)
- Intracardiac (IC)
- Subconjunctival
- Intramammary (IMM)
- Intrauterine (IU)
Nutritional Therapy

- Complements or replaces drugs and surgery
- Provides nutrients
  - Enteral means
    - Hand, self, or force feeding
  - Parenteral means
    - Under skin
    - In vein
    - In muscle
    - Peritoneal cavity
Physical Therapy

- Complements or replaces drugs and surgery
- Rehabilitation
  - Musculoskeletal diseases
  - Nervous diseases
  - Surgery recovery
- Benefits
  - Improves normal function of muscles and nerves
  - Decreases fluid collection
Supportive Therapy

- Sustains life of a patient
- Includes transfusions
  - Blood
  - Plasma
  - Physiological-electrolyte transfusions
  - Fluids
Surgical Therapy

- Corrections for abnormal conditions
  - Stones
    - Gall bladder
    - Kidney
    - Urethra
    - Urinary Bladder
  - Hairballs
    - Stomach
    - Intestine
Infections
- Amputations
- Drainage tubes
- Abscesses
- Warts
- Tumors