

# Veterinary Science

Preparatory Training for the Veterinary Assistant

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**FAZD CENTER**

NATIONAL CENTER FOR FOREIGN ANIMAL  
AND ZOONOTIC DISEASE DEFENSE



# Miscellaneous Non-Infectious Diseases

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# Objectives

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- Describe diseases of the endocrine system
- Describe stress disorders
- Discuss heat exhaustion and heat exertion
- Discuss types of burns, cuts, fractures, and sprains

# Stress

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## ■ Causes

- Pregnancy
- Birthing
- Milking
- Weaning
- Shipping
- Commingling
- Working
- Hot Weather
- Cold Weather

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## ■ Effects

- Reduction of health
- Reduction of production
- Reduction of growth
- Reduction of resistance
- Reduction of usability
- Reduction of normal behavior

# Physical Disorders

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- Hyperthermia (heat stroke, heat exertion)
  - Hot, humid, poorly ventilated environment
  - Sun overexposure
  - High body temperature
  
- Heat exhaustion
  - Hard work in intense heat

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## ■ Burns

- Sun rays
- Chemicals
- Hot liquids and objects
- Fire flames
- Friction
- Electricity

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- Hypothermia

- Cold weather

- Low body temperature
    - Frost bite/skin burn

- Trauma

- Soft tissue wounds – open, puncture
  - Bone fractures
  - Tendon, ligament sprains



# Endocrine Disorders

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- High level of hormones
- Low level of hormones
- Imbalance of hormones
  
- Hyperfunctions of endocrine glands
- Hypofunctions of endocrine glands

# Cardiovascular Disorders

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- Circulatory shock
  - Reduction in blood volume
    - Bleeding
    - Burns
    - Intestinal obstruction
    - Prolonged urination
    - Persistent vomiting
    - Persistent diarrhea
    - Heart failure
    - Infectious diseases instead of non-infectious diseases

# Digestive Disorders

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- Alimentary canal from mouth to anus
  - Trauma
  - Excess gas
  - Obstruction
  - Displacement
  - Tumors

# Urinary Disorders

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- Kidneys, ureters, bladder, urethra
  - Trauma
  - Obstruction
  - Kidney failure
  - Tumors

# Neoplasms

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- Tumors
  - Benign
  - Malignant (cancer) – metastasize (metastasis)