

# Veterinary Science

Preparatory Training for the Veterinary Assistant

Floron C. Faries, Jr., DVM, MS



**FAZD CENTER**

NATIONAL CENTER FOR FOREIGN ANIMAL  
AND ZOONOTIC DISEASE DEFENSE



# Infectious Diseases: Digestive System

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# Objectives

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- Discuss some of the infections viruses can cause in the digestive system
- Discuss some of the infections bacteria can cause in the digestive system
- Discuss some of the infections parasites can cause in the digestive system

# Stomach and Intestines

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- Gastroenteritis – inflammation of stomach and intestines (gastrointestinal track)
- Gastritis – inflammation of stomach
- Enteritis – inflammation of small intestine
- Colitis – inflammation of large intestine (colon)

# Gastroenteritis

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- Acute and chronic infections – bacteria, viruses, parasites
- Clinical symptoms
  - Excessive salivation
  - Vomiting
  - Diarrhea
  - Straining
  - Abdominal pain
  - Blood in diarrhea if hemorrhage
  - Dehydration
  - Electrolyte imbalance

# Bacterial Gastroenteritis

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- Salmonellosis
- Enterotoxemia
- Colibacillosis

# Viral Gastroenteritis

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- Rotavirus
- Coronavirus
- Canine parvovirus
- Feline panleukopenia
- Bovine viral diarrhea (BVD)
- Swine transmissible gastroenteritis (TGE)

# Parasitic Gastroenteritis

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- Infection, subclinical disease, clinical disease
- Clinical symptoms
  - Diarrhea
  - Blood in diarrhea if hemorrhage
  - Anemia
  - Emaciation – similar to malnutrition
  - Abdominal pain



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- Flies

- Bots – horses

- Nematodes

- Hairworms – ruminants
- Strongyles – horses
- Hookworms – dogs, cats
- Large roundworms – dogs, cats, pigs, horses, poultry
- Whipworms – dogs, swine

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- Tapeworms – dogs, cats, ruminants, horses
  - Protozoa
    - Coccidia – dogs, cats, ruminants, poultry
    - Trichomonas – dogs
    - Giardia – dogs
    - Hexamita – poultry

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- Laboratory tests demonstrate:
    - Nematode eggs – fecal flotation
    - Tapeworm segments – fecal observation
    - Protozoa cysts – fecal flotation
    - Protozoa motile stages – fecal smear
    - Gross necropsy – lesions, worms
    - Microscopic necropsy – lesions, protozoa

# Liver

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- Hepatitis
- Cirrhosis

# Hepatitis – Cirrhosis

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- Liver flukes – cattle
  - Clinical symptoms
    - Emaciation – similar to malnutrition, GI parasites
    - Anemia
    - Acute liver disease – young cattle
    - Chronic liver disease – older cattle
  - Lab test – fecal sedimentation – fluke eggs

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- Infectious canine hepatitis (ICH) – dogs
    - Clinical symptoms
      - Acute systemic disease (viremia) – liver, kidneys, spleen, lungs