Veterinary Science
Preparatory Training for the Veterinary Assistant

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Clinic Infectious Disease Control

Floron C. Faries, Jr., DVM, MS
Objectives

- Define infection, infestation, disease and zoonosis.
- Explain two means of disease transmission.
- Discuss the routes of entry in animals for infectious agents and parasites.
- Explain prevention and control of infectious and parasitic diseases in a veterinary clinic.
Infection

- Presence of infectious agents
  - Bacteria
  - Viruses
  - Fungi
  - Rickettsiae
- Presence of internal parasites
  - Worms
  - Protozoa
- No presence of clinical symptoms
Infestation

- Presence of external parasites
  - Mites
  - Fleas
  - Lice
  - Ticks
  - Flies

- No presence of clinical symptoms
Disease

- Presence of infectious agents or parasites
- Presence of clinical symptoms
Zoonosis (Zoonoses) (Zoonotic)

- Infections and diseases shared by animals and humans
  - Animal to Animal
  - Animal to Human
  - Human to Animal
  - Human to Human
Means of Transmission: Direct Transmission

- Direct or close contact
  - Aerosol droplets
  - Nasal fluid
  - Ocular fluid
  - Saliva
  - Skin
  - Manure
  - Urine

- Direct or close contact
  - Milk
  - Fetal fluid
  - In utero
  - Genital fluid
  - Blood
  - Carcass
Means of Transmission: Indirect Transmission

- Indirect contact
  - Vectors
    - Ticks
    - Flies
    - Mosquitoes
    - Scavengers
    - People
      - Hands
  - Environment
    - Soil
    - Water
    - Food
    - Air
## Means of Transmission: Indirect Transmission

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- **Needle**
- **Ear tagger**
- **Tattooer**
- **Dehorner**
- **Nose tong**
- **Knife**
- **Bucket**
- **Trough**
- **Bowls**
- **Boots**
- **Clothing**
# Routes of Entry

- Mouth
- Nose
- Eyes
- Skin
- Teats
- Vagina
- Prepuce
- Transplacental
- Venereal
- Blood
Protection Strategy in Clinic

- Prevent and control spread of infectious agents and parasites
  - Animal patients
  - Animal owners
  - Clinic staff
  - Visitors
  - Environment
Prevention and Control Practices

- Hand hygiene
  - Wash hands or use hand sanitizer
    - Handling animal patients
    - Cleaning cages, stalls
    - Handling animal waste, fluids, tissues, carcass
Barrier precautions

- Wear protective clothing (not worn off premises)
  - Disposable gloves
  - Coveralls
  - Clinic coat, jacket, pants
  - Surgical gown, cap, mask
  - Eyeware
  - Rubber boots/foot bath
  - Disposable shoe covers
Isolate contagious animal patients
- Hand hygiene
- Barrier precautions

Utilize cleaning and disinfection
- Read and follow label
- Wear protective clothing
- Avoid skin contact
- Wash hands