Veterinary Science
Preparatory Training for the Veterinary Assistant
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Infectious Diseases: Integumentary System

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Objectives

- Discuss some of the infections viruses can cause in the skin
- Discuss some of the infections bacteria can cause in the skin
- Discuss some of the infections parasites can cause in the skin
- Discuss some of the infections fungi can cause in the skin
- Dermatitis – inflammation of skin
- Pruritus – itching
- Alopecia – hair loss
- Pyoderma – purulent (pus) dermatitis
- Exudative dermatitis – moist to dry oozing serum
- Vesicular dermatitis – blisters, lesions (raw, crusts, scabs)
- Zoonotic dermatitis – shared with people
Dermatitis

- Causative agents
  - Bacteria
  - Fungi
  - Viruses
  - Parasites
  - Non-infectious allergens
Bacterial Dermatitis

- Clinical symptoms
  - Pruritus
  - Reddening, thickening of skin
  - Bumps
  - Vesicles
  - Lesions
  - Crusts
  - Scales

- Zoonotic
Fungal Dermatitis

- Dermatophytosis (ringworm)
- Dermatophilosis (rain gall)
Dermatophytosis (Ringworm)

- Clinical symptoms
  - Focal alopecia
  - Circumscribed lesion with raised, red edges
- Zoonotic
- Young animals
- Direct contact from dam to nursing young
- Incubation period – months
- Spontaneous recovery – 3 to 12 months
- Tests – Wood’s lamp (uv light), skin culture
Dermatophilosis (Rain Gall)

- Mechanical vector – biting flies
- Clinical symptoms
  - Exudative dermatitis
  - Paintbrush lesions – crusty bumps
- Tests – skin culture, biopsy
Viral Dermatitis

- Warts
- Pox
Warts

- Viral fibrous tumors
  - Multiple strains of viruses
- Spontaneous recovery – 3 to 12 months
Pox

- Swinepox, fowl pox, cowpox
- Mechanical vector – biting flies
- Clinical symptoms
  - Vesicular dermatitis
Parasitic Dermatitis

- **Arthropods**
  - Biting flies, mosquitoes, gnats
  - Cattle grubs
  - Ticks
  - Fleas
  - Lice
  - Mange mites – sarcoptic, scabies, demodectic
  - Ear mites
Worms
- Habronema
- Onchocerca
- Stephanofilaria