Veterinary Science

Preparatory Training for the Veterinary Assistant

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Infectious Diseases: Musculoskeletal & Nervous Systems

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Objectives

- Discuss some of the infections bacteria can cause in the muscular system
- Discuss some of the infections bacteria and viruses can cause in the skeletal system
- Discuss some of the infections viruses can cause in the nervous system
- Discuss some of the infections bacteria can cause in the nervous system
- Discuss some of the infections protozoa can cause in the nervous system
- Discuss some of the infections prions can cause in the nervous system
- Discuss some of the infections fungi can cause in the nervous system

Muscles

- Myositis inflammation of muscle
- Necrotic myositis death of inflamed muscle
- Toxemia toxins in blood

Bacterial Muscle Diseases

- Clostridium chauvoei blackleg
- Clostridium perfringens B, C, D blackgut
- Clostridium sordellii blackneck
- Clostridium septicum malignant edema
- Latency dormant spores
- Recrudescence vegetative bacteria
 - Necrotic myositis
 - Toxemia
 - Sudden death

- Factors of recrusdesence
 - Fast growth, exertion blackleg
 - Diet change, overload blackgut
 - Trauma blackneck
 - Wound malignant edema

Bone Joints

- Arthritis inflammation of bone joint
- Polyarthritis inflammation of multiple joints

Viral Bone Joint Diseases

Goats – caprine arthritis and encephalitis (CAE)

Bacterial Bone Joint Diseases

- Cattle mycoplasmosis
- Swine haemophilosis

Brain and Meninges

- Meningitis inflammation of meninges (brain covering)
- Encephalitis inflammation of brain
- Meningoencephalitis inflammation of meninges and brain

Meningitis and Encephalitis

- Clinical symptoms
 - Depression
 - Blindness
 - Wobbling
 - Paralysis
 - Seizures
 - Delirium
 - Coma

Viral Brain and Meninges Diseases

- Rabies
- Equine encephalomyelitis
- Canine distemper
- Canine parvovirus
- Feline leukemia
- Swine pseudorabies

Bacterial Brain and Meninges Diseases

- Tetanus
- Cattle haemophilosis
- Swine haemophilosis

Protozoal Brain and Meninges Diseases

- Equine protozoal myeloencephalitis (EPM)
- Canine neosporosis
- Dogs and cats toxoplasmosis

Prion Brain and Meninges Diseases

- Bovine spongiform encephalopathy
- Sheep scrapie

Fungal Brain and Meninges Diseases

- Dogs and cats cryptococcosis
- Dogs and cats coccidoidomycosis