

Differential Diagnosis of Cattle Exhibiting Central Nervous Symptoms

Dr. Dallas Horton, *Presiding*

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Approach to the Clinical Diagnosis of Neurologic Diseases of Feedlot Cattle

Dr. William B. Buck:

Differential Diagnosis of CNS Toxicoses in Feedlot Cattle

Drs. Pierson and Young:

Common CNS Diseases of Feedlot Cattle

- a) *Polioencephalomalacia*
- b) *Thromboembolic meningoencephalitis*
- c) *Listeric encephalitis*
- d) *Otitis media or interna*
- e) *Spondylitis*
- f) *Coccidiosis-related encephalopathy*
- g) *Other diseases*

Dr. Stuart Young:

Necropsy Examination and Laboratory Diagnosis in CNS Diseases of Feedlot Cattle

Approach to the Clinical Diagnosis of Neurological Diseases of Feedlot Cattle

Dr. Robert E. Pierson

A. Objectives of a neurological examination

1. Does a neurological deficit exist?
2. Localization of the lesion(s)
 - a. brain
 - b. spinal cord
 - spinal roots, peripheral nerve trunks, autonomic structures

B. What is the nature of the disease?

1. Organic
2. Functional

C. To diagnose neurological diseases of cattle—

- You don't have to be a neurologist —BUT
1. Helps to have an understanding of:

- a. basic neuroanatomy and physiology
- b. knowledge of diseases affecting the nervous system
- c. obtain complete accurate history
- d. thorough physical examination
- e. supportive neurological examination
2. Helps to use logic and reasoning
3. Start with complete physical examination
 - a. rule out "functional" disorders first
 - b. try to determine whether lesion is in brain or cord and what the cause is
4. Rule out the common diseases affecting the nervous system of cattle
5. Necropsy as many animal as possible