



EXPANDED DIFFERENTIAL DIAGNOSES: NEURO

Domestic Infectious

Viral

- Arboviral encephalitides
 - Alphaviruses: Western Equine encephalitis, Eastern Equine encephalitis, Venezuelan Equine encephalitis
 - Flaviviruses: West Nile virus
- Equine herpesvirus-1
- Rabies

Bacterial

- Tetanus
- Botulism
- Meningitis
- Cerebral/spinal extradural/vertebral abscessation

Protozoal

- Equine Protozoal Myelitis (EPM): *Sarcocystis neurona*, *Neospora hughesi*

Non-infectious

Traumatic

- Skull fracture
- Vertebral body fracture
- Cerebral hemorrhage/hematoma
- Hematoma- vertebral canal
- Avulsion: brachial plexus

Degenerative/developmental

- Temporohyoid osteoarthropathy
- Cervical Vertebral Myelopathy
 - Young: Congenital malformation of vertebral canal/alignment
 - Mature/aged: Degenerative joint disease- articular facets
- Equine Degenerative Myelopathy
- Equine Motor Neuron Disease
- Cholesterol granuloma
- Narcolepsy

Other

- Hepatoencephalopathy
- Intracarotid injection
- Toxicity
 - Plant
 - Locoweed
 - Strychnine
 - Ryegrass staggers
 - Chemical



- Organophosphates
- Hypocalcemia
- Hypomagnesemia
- Uremia
- Verminous encephalitis
- Moldy corn (Leukoencephalomalacia)

**Foreign Animal
Disease**

(Developed by Kathy K. Seino DVM, Ph.D.)

Infectious

Viral

- Borna Virus
- Hendra Virus
- Japanese Encephalitis Virus
- Kunjin Virus
- Louping Ill Virus
- Main Drain Virus
- Murray Valley Virus
- Nipah Virus
- Powassan Virus
- Semliki Forest Virus
- Snowshoe Hare Virus

Protozoal

- *Balamuthia mandrillaris*
- *Trypanosoma evansi*