



EXPANDED DIFFERENTIAL DIAGNOSES: NEURO

Domestic Infectious	<p>Viral</p> <ul style="list-style-type: none"> • Arboviral encephalitides <ul style="list-style-type: none"> ○ Alphaviruses: Western Equine encephalitis, Eastern Equine encephalitis, Venezuelan Equine encephalitis ○ Flaviviruses: West Nile virus • Equine herpesvirus-1 • Rabies <p>Bacterial</p> <ul style="list-style-type: none"> • Tetanus • Botulism • Meningitis • Cerebral/spinal extradural/vertebral abscessation <p>Protozoal</p> <ul style="list-style-type: none"> • Equine Protozoal Myelitis (EPM): <i>Sarcocystis neurona</i>, <i>Neospora hughesi</i>
Non-infectious	<p>Traumatic</p> <ul style="list-style-type: none"> • Skull fracture • Vertebral body fracture • Cerebral hemorrhage/hematoma • Hematoma- vertebral canal • Avulsion: brachial plexus <p>Degenerative/developmental</p> <ul style="list-style-type: none"> • Temporohyoid osteoarthropathy • Cervical Vertebral Myelopathy <ul style="list-style-type: none"> ○ Young: Congenital malformation of vertebral canal/alignment ○ Mature/aged: Degenerative joint disease- articular facets • Equine Degenerative Myelopathy • Equine Motor Neuron Disease • Cholesterol granuloma • Narcolepsy <p>Other</p> <ul style="list-style-type: none"> • Hepatoencephalopathy • Intracarotid injection • Toxicity <ul style="list-style-type: none"> ○ 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*