

Advanced Equine Neurology: On Demand

Agenda		
Session Duration	Topic	Presenter(s) / Location
60 minutes	<p>Lecture: Neuroanatomy: Important structures and changes</p> <ul style="list-style-type: none"> • Review of normal CNS and applicable PNS anatomy • What anatomical structures can be appreciated or not appreciated based on the advanced imaging modality • Correlates of imaging and postmortem findings based on disease process 	<p><i>Dr. Jennifer Janes, Dr. Katherine Garrett</i></p>
50 minutes	<p>Lecture: Treating trauma and seizures and MRI vs CT in trauma cases</p> <ul style="list-style-type: none"> • Review the indications, including strengths and limitations, for CT and MRI in trauma cases • Discuss imaging findings in trauma cases using case examples • Pathophysiology of CNS trauma • Treatment interventions in CNS trauma • Treatment options for controlling seizures 	<p><i>Dr. Tom Divers, Dr. Katherine Garrett</i></p>
50 minutes	<p>Lecture: Intervertebral foramen assessment and complicated CT findings</p> <ul style="list-style-type: none"> • Review CT anatomy • Review imaging findings in the intervertebral foramen region • Discuss imaging findings in complicated CT cases and potential clinical relevance as well as areas where further research is needed to better define clinical relevance 	<p><i>Dr. Katherine Garrett</i></p>
50 minutes	<p>Lecture: Electrodiagnostics</p> <ul style="list-style-type: none"> • To review specific electrodiagnostics for the evaluation of central and peripheral components of the nervous system, neuromuscular junction, and muscle • To review electrodiagnostics that aid in the evaluation of motor and sensory function • To review evoked potentials (EP) such as visual EP and brainstem auditory EP • To review the use of electroencephalography 	<p><i>Dr. Monica Aleman</i></p>

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50 minutes	Lecture: Forebrain disease <ul style="list-style-type: none"> Treating hepatic encephalopathy and other causes of hyperammonemia Diagnosing uncommon but important causes of encephalitis in horses and keeping them on your diagnostic radar 	<i>Dr. Tom Divers</i>
50 minutes	Lecture: CVCM, Causes, Diagnostics, treatment and outcomes <ul style="list-style-type: none"> Review of clinical presentations and how it overlaps or differs from other common equine neurologic diseases Pros and cons of advanced imaging modalities in reaching a clinical diagnosis of CVSM Treatment options, prognosis and expectations based on various clinical presentations of CVSM Review of observed orthopaedic pathology that leads to CVSM Update on various contributing factors that can lead to development of CVSM 	<i>Dr. Steve Reed, Dr. Jennifer Janes</i>
50 minutes	Lecture: Neuroborreliosis and Neurotoxins <ul style="list-style-type: none"> How to diagnose and treat equine neurologic Lyme disease 	<i>Dr. Tom Divers, Dr. Amy Johnson</i>
50 minutes	Lecture: Genetics of Neurologic Disease <ul style="list-style-type: none"> Identify when genetic testing should be included in a diagnostic work-up for various conditions Review genetic tests currently available in horses with neurologic disease 	<i>Dr. Carrie Finno</i>
50 minutes	Lecture: EPM treatment strategies	<i>Dr. Steve Reed</i>
50 minutes	Lecture: EDM <ul style="list-style-type: none"> Atypical presentations and new diagnostics Vitamin E deficiency and supplementation 	<i>Dr. Amy Johnson and Carrie Finno</i>
50 minutes	Lecture: Sleep disorders <ul style="list-style-type: none"> To review normal sleep in the horse To review use of electroencephalography and determination of stages of sleep To learn about disorders of sleep through cases 	<i>Dr. Monica Aleman</i>

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Session Duration	Topic	Presenter(s) / Location
50 minutes	<p>Neurologic disease in foals</p> <ul style="list-style-type: none"> • Management of functional dysphagia in neonatal foals • Causes and treatments for hyponatremia in foals • Neurogenic bladder dysfunction in neonatal foals - how to manage 	<i>Dr. Tom Divers</i>
90 minutes	<p>Complicated cases – Cases submitted by participants and/or lecturers with full signalment, history, videos and imaging for group discussion.</p>	All