

Advanced Equine Neurology: October 21-23, 2024  
Spy Coast Farm | Lexington, KY

DAY 1 Monday, October 21, 2024		
Time (Eastern Time)	Topic	Presenter(s) / Location
7:30-8:00 am	<b>Registration</b>	<i>Lobby</i>
8:00-8:15 am	<b>Welcome and Introductions</b>	<i>Dr. Steve Reed</i>
8:15-9:15 am	<b>Lecture: Neuroanatomy: Important structures and changes</b> <ul style="list-style-type: none"> <li>Review of normal CNS and applicable PNS anatomy</li> <li>What anatomical structures can be appreciated or not appreciated based on the advanced imaging modality</li> <li>Correlates of imaging and postmortem findings based on disease process</li> </ul>	<i>Dr. Jennifer Janes, Dr. Katherine Garrett</i>
9:15-10:05 am	<b>Lecture: Treating trauma and seizures and MRI vs CT in trauma cases</b> <ul style="list-style-type: none"> <li>Review the indications, including strengths and limitations, for CT and MRI in trauma cases</li> <li>Discuss imaging findings in trauma cases using case examples</li> <li>Pathophysiology of CNS trauma</li> <li>Treatment interventions in CNS trauma</li> <li>Treatment options for controlling seizures</li> </ul>	<i>Dr. Tom Divers, Dr. Katherine Garrett</i>
10:05-10:20 am	<b>Break</b>	<i>Lobby</i>
10:20-11:10 am	<b>Lecture: Intervertebral foramen assessment and complicated CT findings</b> <ul style="list-style-type: none"> <li>Review CT anatomy</li> <li>Review imaging findings in the intervertebral foramen region</li> <li>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</li> </ul>	<i>Dr. Katherine Garrett</i>
11:10-12:00 pm	<b>Lecture: Electrodiagnostics</b> <ul style="list-style-type: none"> <li>To review specific electrodiagnostics for the evaluation of central and peripheral components of the nervous system, neuromuscular junction, and muscle</li> <li>To review electrodiagnostics that aid in the evaluation of motor and sensory function</li> <li>To review evoked potentials (EP) such as visual EP and brainstem auditory EP</li> <li>To review the use of electroencephalography</li> </ul>	<i>Dr. Monica Aleman</i>



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12:00-1:00 pm	<b>Lunch</b>	



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<p>1:00-6:00 pm (Break 3:15-3:45)</p>	<p><b>Labs</b> – 1 hour per station with 30-minute break in the middle; rotate through 4 of 6 stations</p> <ul style="list-style-type: none"> <li>• <b>Neurologic exam</b></li> <li>• <b>Electrodiagnostics</b></li> <li>• <b>Facet injections and nerve root approaches</b> <ul style="list-style-type: none"> <li>• Identify anatomic landmarks for ultrasound-guided injections of the synovial joints</li> <li>• Identify anatomic landmarks for ultrasound-guided injections of the perineural region of the spinal nerves</li> </ul> </li> <li>• <b>Evaluation of the skull/neck on radiographs and CT</b> <ul style="list-style-type: none"> <li>• Review normal radiographic and CT anatomy</li> <li>• Review common pathology found on radiographic and CT examinations</li> </ul> </li> </ul>	<p><i>All</i></p>
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DAY 2 Tuesday, October 22, 2024		
Time (Eastern Time)	Topic	Presenter(s) / Location
8:00-8:50am	<b>Lecture: Forebrain disease</b> <ul style="list-style-type: none"> <li>Treating hepatic encephalopathy and other causes of hyperammonemia</li> <li>Diagnosing uncommon but important causes of encephalitis in horses and keeping them on your diagnostic radar</li> </ul>	<i>Dr. Tom Divers</i>
8:50-9:40 am	<b>Lecture: CVCM: Causes, Diagnostics, treatment and outcomes</b> <ul style="list-style-type: none"> <li>Review of clinical presentations and how it overlaps or differs from other common equine neurologic diseases</li> <li>Pros and cons of advanced imaging modalities in reaching a clinical diagnosis of CVSM</li> <li>Treatment options, prognosis and expectations based on various clinical presentations of CVSM</li> <li>Review of observed orthopaedic pathology that leads to CVSM</li> <li>Update on various contributing factors that can lead to development of CVSM</li> </ul>	<i>Dr. Steve Reed, Dr. Jennifer Janes</i>
9:40-10:30am	<b>Lecture: Neuroborreliosis and Neurotoxins</b> <ul style="list-style-type: none"> <li>How to diagnose and treat equine neurologic Lyme disease</li> </ul>	<i>Dr. Tom Divers, Dr. Amy Johnson</i>
10:30-10:45 am	<b>Break</b>	
10:30-11:20 am	<b>Lecture: Genetics of Neurologic Disease</b> <ul style="list-style-type: none"> <li>Identify when genetic testing should be included in a diagnostic work-up for various conditions</li> <li>Review genetic tests currently available in horses with neurologic disease</li> </ul>	<i>Dr. Carrie Finno</i>
11:20 am- 12:10pm	<b>Lecture: EPM treatment strategies</b>	<i>Dr. Steve Reed</i>
12:10-1:10 pm	<b>Lunch</b>	
1:10-2:00 pm	<b>Lecture: EDM</b> <ul style="list-style-type: none"> <li>Atypical presentations and new diagnostics</li> <li>Vitamin E deficiency and supplementation</li> <li>Compare and contrast the neuromuscular diseases that are associated with vitamin E deficiencies</li> </ul>	<i>Dr. Amy Johnson and Carrie Finno</i>

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	<ul style="list-style-type: none"> <li>• Create vitamin E supplementation plans for horses with neuromuscular disease</li> </ul>	
2:00-2:50 pm	<p><b>Lecture: Sleep disorders</b></p> <ul style="list-style-type: none"> <li>• To review normal sleep in the horse</li> <li>• To review use of electroencephalography and determination of stages of sleep</li> <li>• To learn about disorders of sleep through cases</li> </ul>	<i>Dr. Monica Aleman</i>
2:30-2:45 pm	<b>Break</b>	
2:45-5:00 pm	<p><b>Interactive labs:</b></p> <ul style="list-style-type: none"> <li>• <b>Rehabilitation techniques</b></li> <li>• <b>Neck dissection</b> <ul style="list-style-type: none"> <li>• Become familiar with anatomical structures</li> <li>• Discuss approaches to dissection of the equine vertebral column based on clinical signs or suspected disease</li> <li>• Hands on instruction dissecting articular process joints</li> </ul> </li> <li>• <b>Neurologic examination (2 groups)</b></li> </ul>	<i>All</i>



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<b>DAY 3 Wednesday, October 23, 2024</b>		
<b>Time (Eastern Time)</b>	<b>Topic</b>	<b>Presenter(s) / Location</b>
8:00-11:30 am  (Break 10:10-10:30 am)	<b>Interactive labs:</b> <ul style="list-style-type: none"> <li>• Rehabilitation techniques</li> <li>• Neck dissection</li> <li>• Neurologic examination (2 groups)</li> </ul>	All
11:30 am-12:10 pm	<b>Lunch</b>	
12:10-1:00 pm	<b>Neurologic disease in foals</b> <ul style="list-style-type: none"> <li>• Management of functional dysphagia in neonatal foals</li> <li>• Causes and treatments for hyponatremia in foals</li> <li>• Neurogenic bladder dysfunction in neonatal foals - how to manage</li> </ul>	<i>Dr. Tom Divers</i>
1:00-2:45	<b>Complicated Cases</b> – Cases submitted by participants and/or lecturers with full signalment, history, videos and imaging for group discussion.	All



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