

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	Registration	<i>Lobby</i>
8:00-8:15 am	Welcome and Introductions	<i>Dr. Steve Reed</i>
8:15-9:15 am	Lecture: Neuroanatomy: Important structures and changes <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 	<i>Dr. Jennifer Janes, Dr. Katherine Garrett</i>
9:15-10:05 am	Lecture: Treating trauma and seizures and MRI vs CT in trauma cases <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 	<i>Dr. Tom Divers, Dr. Katherine Garrett</i>
10:05-10:20 am	Break	<i>Lobby</i>
10:20-11:10 am	Lecture: Intervertebral foramen assessment and complicated CT findings <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 	<i>Dr. Katherine Garrett</i>
11:10-12:00 pm	Lecture: Electrodiagnostics <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 	<i>Dr. Monica Aleman</i>



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12:00-1:00 pm	Lunch	



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<p>1:00-6:00 pm (Break 3:15-3:45)</p>	<p>Labs – 1 hour per station with 30-minute break in the middle; rotate through 4 of 6 stations</p> <ul style="list-style-type: none"> • Neurologic exam • Electrodiagnostics • Facet injections and nerve root approaches <ul style="list-style-type: none"> • Identify anatomic landmarks for ultrasound-guided injections of the synovial joints • Identify anatomic landmarks for ultrasound-guided injections of the perineural region of the spinal nerves • Evaluation of the skull/neck on radiographs and CT <ul style="list-style-type: none"> • Review normal radiographic and CT anatomy • Review common pathology found on radiographic and CT examinations 	<p>All</p>
<p>6:00-7:00pm</p>	<p>Welcome Reception</p>	



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DAY 2 Tuesday, October 22, 2024		
Time (Eastern Time)	Topic	Presenter(s) / Location
8:00-8:50am	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>
8:50-9:40 am	Lecture: CVSM: 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>
9:40-10:30am	Lecture: Neuroborreliosis and Botulism <ul style="list-style-type: none"> How to diagnose and treat equine neurologic Lyme disease Identify clinical features, diagnostic options, and treatment strategies for botulism 	<i>Dr. Tom Divers, Dr. Amy Johnson</i>
10:30-10:45 am	Break	
10:30-11:20 am	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>
11:20 am- 12:10pm	Lecture: EPM treatment strategies <ul style="list-style-type: none"> Proper methods for diagnosing equine protozoal encephalopathy Identify the common differential diagnoses for EPM Review the biology of <i>Sarcocystis neurona</i> Discuss the current treatments Discuss potential new treatments 	<i>Dr. Steve Reed</i>

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12:10-1:05 pm	Lunch	
1:05-1:55pm	Lecture: EDM <ul style="list-style-type: none"> • Atypical presentations and new diagnostics • Vitamin E deficiency and supplementation • Compare and contrast the neuromuscular diseases that are associated with vitamin E deficiencies • Create vitamin E supplementation plans for horses with neuromuscular disease 	<i>Dr. Amy Johnson and Carrie Finno</i>
1:55-2:45pm	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>
2:45-3:00pm	Break	
3:00-5:00pm	Interactive labs: <ul style="list-style-type: none"> • Rehabilitation techniques • Neck dissection <ul style="list-style-type: none"> • Become familiar with anatomical structures • Discuss approaches to dissection of the equine vertebral column based on clinical signs or suspected disease • Hands on instruction dissecting articular process joints Neurologic examination (2 groups)	<i>All</i>



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DAY 3 Wednesday, October 23, 2024		
Time (Eastern Time)	Topic	Presenter(s) / Location
8:00-10:00 am	Interactive labs: <ul style="list-style-type: none"> • Rehabilitation techniques • Neck dissection <ul style="list-style-type: none"> • Become familiar with anatomical structures • Discuss approaches to dissection of the equine vertebral column based on clinical signs or suspected disease • Hands on instruction dissecting articular process joints • Neurologic examination (2 groups) 	All
10:00-10:30am	Break	
10:30 am-11:30 am	Neurologic disease in foals <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 	Dr. Tom Divers
11:30-12:30	Lunch	
12:30-3pm	Complicated Cases – Cases submitted by participants and/or lecturers with full signalment, history, videos and imaging for group discussion.	All



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