

# Large Animal Candidate Boot Camp October 12-15, 2023 Michigan State University | East Lansing, MI

Premier Sponsor Boehringer Ingelheim

DAY 1 Thursday, October 12		
Time (Eastern Time)	Торіс	Presenter(s)
7:30 am	Shuttle to MSU McPhail Center	
7:45-8:00 am	Registration	
8:00-8:10 am	Welcome & Introductions	Dr. Hal Schott
8:10-8:50 am	Thoracic and Abdominal Ultrasonography	Dr. Michelle Barton
8:50-9:30 am	Gastric and Colonic Ulcers	Dr. Richard Hepburn
9:30-9:50 am	Break	

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Time (Eastern Time)	Торіс	Presenter(s)
9:50-10:40 am	Muscle Disorders – Examination	Dr. Stephanie Valberg
10:40-11:30 am	Muscle Disorders – Examination and Diagnostic Approach	Dr. Stephanie Valberg
11:30-12:20 pm	Neurologic Examination	Dr. Carrie Finno
12:20 – 1:00 pm	Lunch & Learn – Optimizing Ultrasound Imaging	Dr. Scott Giebler

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DAY 1 (continued) Thursday, October 12		
Time (Eastern Time)	Торіс	Presenter(s)
1:00-3:00 pm	<ul> <li>Labs – 60 minutes each rotation         <ul> <li>Lab 1: Ultrasonography</li> <li>Perform an advanced ultrasonographic examination of the equine thorax and abdomen.</li> <li>Identify thoracic (lung, diaphragm) and abdominal (stomach, small and large intestine, liver, spleen, and kidneys) structures.</li> <li>Lab 2: Gastroscopy                 <ul> <li>Identify normal anatomy of the equine stomach: antrum, pylorus, and proximal duodenum.</li> <li>Perform gastroscopy and duodenoscopy on a standing, sedated horse.</li> <li>Obtain gastric and/or duodenal biopsies on a standing, sedated horse.</li> <li>Obtain gastric and/or duodenal biopsies on a standing, sedated horse.</li> <li>Identify muscles from which to collect biopsy samples and how to prepare samples for shipment.</li> <li>Lab 4: Neurologic Exam</li></ul></li></ul></li></ul>	Dr. Michelle Barton, Dr. Richard Hepburn, Dr. Stephanie Valberg, Dr. Carrie Finno
3:00-3:30 pm	Break	

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DAY 1 (continued) Thursday, October 12		
Time (Eastern Time)	Торіс	Presenter(s)
3:30-5:30 pm	Labs – 60 minutes each rotation Lab 1: Ultrasonography Lab 2: Gastroscopy Lab 3: Muscular System Exam Lab 4: Neurologic Exam	Dr. Michelle Barton, Dr. Richard Hepburn, Dr. Stephanie Valberg, Dr. Carrie Finno
5:30-5:45 pm	Break	
5:45-6:30 pm	Tour of MSU Large Animal Veterinary Teaching Hospital	Dr. Hal Schott
6:30-8:30 pm	Dinner – Career Paths in Large Animal Internal Medicine	All
8:30 pm	Shuttle to Hotel	

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DAY 2 Friday, October 13		
Time (Eastern Time)	Торіс	Presenter(s)
7:45 am	Shuttle to MSU McPhail Center	
8:00-8:40 am	Liver – Evaluation and Biopsy	Dr. Michelle Barton
8:40-9:20 am	CVM Neurological Disorders	Dr. Richard Hepburn
9:20-10:00 am	C1C2/LS CSF Collection	Dr. Ana Moreira

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DAY 2 (continued) Friday, October 13		
Time (Eastern Time)	Торіс	Presenter(s)
10:00-10:20 am	Break	
10:20 am - 12:20 pm	<ul> <li>Labs – 60 minutes each rotation         <ul> <li>Lab 5: Liver Biopsy</li> <li>Identify landmarks for ultrasonographic imaging of the liver on the left and right sides of the abdomen.</li> <li>Perform a needle biopsy of the liver on the left and right sides of the abdomen in a standing, sedated horse.</li> <li>Lab 6: LS CSF Collection                 <ul> <li>Know the materials needed for LS CSF collection in the horse.</li> <li>Identify the anatomical landmarks for performing a LS CSF collection.</li> <li>Perform LS CSF collection on a standing, sedated horse.</li> <li>Lab 7 Muscle Biopsy – Client Horses</li></ul></li></ul></li></ul>	Dr. Michelle Barton, Dr. Richard Hepburn, Dr. Stephanie Valberg, Dr. Carrie Finno, Dr. Ana Moreira

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DAY 2 (continued) Friday, October 13		
Time (Eastern Time)	Торіс	Presenter(s)
12:20-1:00 pm	Lunch	
1:00-1:50 pm	Non-CVM Neurological Disorders	Dr. Carrie Finno
1:50-2:40 pm	Vitamin E Related Disorders	Dr. Carrie Finno
2:40-3:30 pm	Unusual Gait Deficits – Neurologic or Not?	Dr. Stephanie Valberg
3:30-3:50 pm	Break	

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DAY 2 (continued) Friday, October 13		
Time (Eastern Time)	Торіс	Presenter(s)
3:50-5:50 pm	Labs – 60 minutes each rotation Lab 5: Liver Biopsy Lab 6: LS CSF Collection Lab 7: Muscle Biopsy Lab 8: C1/C2 CSF Collection	Dr. Michelle Barton, Dr. Richard Hepburn, Dr. Stephanie Valberg, Dr. Carrie Finno, Dr. Ana Moreira
5:50-6:00 pm	Break	
6:00-8:00 pm	Dinner – Discussion: Surviving a LAIM RTP	All
8:00 pm	Shuttle to Hotel	

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# Large Animal Candidate Boot Camp October 12-15, 2023 Michigan State University | East Lansing, MI

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DAY 3 Saturday, October 14		
Time (Eastern Time)	Торіс	Presenter(s)
7:45 am	Shuttle to MSU McPhail Center	
8:00-8:40 am	Cervical Imaging Interpretation	Dr. Richard Hepburn
8:40-9:20 am	CSF Analysis and Interpretation	Dr. Ana Moreira
9:20-10:00 am	Urinary Tract Imaging	Dr. Hal Schott
10:00-10:20 am	Break	

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	DAY 3 (continued) Saturday, October 14	
Time	Торіс	Presenter(s)
(Eastern Time)		
10:20 am - 12:20 pm	<ul> <li>Labs – 60 minutes each rotation         <ul> <li>Lab 8: C1/C2 CSF Collection</li> <li>Know the materials needed for C1/C2 CSF collection in the horse.</li> <li>Identify the anatomical landmarks for performing a C1/C2 CSF collection.</li> <li>Using ultrasonography, identify the site for performing a C1/C2 CSF collection.</li> <li>Perform C1/C2 CSF collection on a standing, sedated horse.</li> </ul> </li> <li>Lab 9: Cervical Imaging         <ul> <li>Identify normal and abnormal radiographic findings in the cervical vertebral column of the horse.</li> <li>Perform measurements of cervical radiographs.</li> <li>Compare utility of cervical radiographs to CT cervical images, including myelographic studies.</li> </ul> </li> <li>Lab 10: Cystoscopy         <ul> <li>Know the materials needed for urethroscopy and cystoscopy in in the male horse.</li> <li>Perform urethroscopy and cystoscopy in a gelding.</li> </ul> </li> <li>Lab 11: Sacrocaudalis Muscle Biopsy         <ul> <li>Identify the anatomical landmarks for performing a sacrocaudalis dorsalis muscle biopsy.</li> <li>Perform muscle biopsies.</li> </ul> </li> </ul>	Dr. Ana Moreira, Dr. Richard Hepburn, Dr. Hal Schott, Dr. Lauren Bookbinder
12:20-1:00 pm	Lunch	

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DAY 3 (continued) Saturday, October 14		
Time (Eastern Time)	Торіс	Presenter(s)
1:00-1:40 pm	Enterocolitis and IBD	Dr. Richard Hepburn
1:40-2:20 pm	Upper Urinary Tract Disorders – AKI and CKD	Dr. Hal Schott
2:20-3:00 pm	Lower Urinary Tract Disorders	Dr. Hal Schott
3:00-3:30 pm	Break	
3:30-5:30 pm	Labs – 60 minutes each rotation Lab 8: C1/C2 CSF Collection Lab 9: Cervical Imaging Lab 10: Cystoscopy Lab 11: Sacrocaudalis Muscle Biopsy	Dr. Ana Moreira, Dr. Richard Hepburn, Dr. Hal Schott, Dr. Lauren Bookbinder
5:30-6:00 pm	Break	
6:00-11:00 pm	Shuttle to MSU Pavilion – Michigan Great Lakes International Draft Horse Show (dinner on own at MSU Pavilion)	

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# Large Animal Candidate Boot Camp October 12-15, 2023 Michigan State University | East Lansing, MI

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DAY 4 Sunday, October 15		
Time (Eastern Time)	Торіс	Presenter(s)
7:45 am	Shuttle to MSU McPhail Center	
8:00-8:30 am	Myelography	Dr. Richard Hepburn
8:30-9:00 am	Alternatives to Pentobarbital Euthanasia	Dr. Lauren Bookbinder
9:00-9:20 am	Break	
9:20-11:50 am	Labs – All Attendees Participate         Lab 12: Miscellaneous Procedures         • Perform AO CSF Collection/Myelogram Demonstration, IV         Anesthesia, Intrathecal Lidocaine Euthanasia, IV KCI         Euthanasia, Post-Mortem Renal Biopsy, Tracheotomy,         Thoracotomy and Other Procedures	Dr. Richard Hepburn, Dr. Hal Schott, Dr. Lauren Bookbinder Dr. Ana Moreira
11:50-12:10	Break	
12:10-1:10 pm	Lunch and Course Wrap Up	

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