ACVIM American College of Veterinary Internal Medicine | ADVANCED CONTINUING EDUCATION

Large Animal Candidate Boot Camp
September 25-28, 2025
Purdue University | West Lafayette, IN.

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Boehringer Ingelheim

DAY 1 Thursday, September 25		
Time (Eastern Time)	**Topic**	**Presenter(s)**
7:30 am	**Shuttle to Brunner Equine Hospital (Purdue University)**	
7:45-8:00 am	**Registration**	
8:00-8:30 am	**Welcome & Introductions**	*Taylor*
8:30-9:00 am	**Tour**	*Taylor*
9:00-9:40 am	**Equine Gastric Ulcer Syndrome** • Understand the differences in pathophysiology between ESGD and EGGD • Assign a score to various gastric lesions • Identify risk factors for development of EGUS • Develop treatment plan for ESGD and EGGD	*Taylor*
9:40-10:20 am	**Guttural Pouch Disease** • Identify important anatomical structures within the guttural pouches • Create differential diagnosis list for guttural pouch empyema • Discuss treatment strategies for *Streptococcus equi* spp. *equi* infection	*Trsan*
10:20-10:40 am	**Break**	
10:40-11:30 am	**Equine Muscle Diseases and Principles of Biopsy** • Identify clinical presentations and indications for muscle biopsy in horses • Understand the significance of different processing techniques for muscle biopsy • Identify the sites for different muscle biopsies and discuss relevance of correct biopsy site • Understand the practical approach to muscle biopsies and prepare for lab-based skills	*Jamieson*

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DAY 1 (continued) Thursday, September 25		
Time (Eastern Time)	**Topic**	**Presenter(s)**
11:30 am-12:15 pm	**Equine Theriogenology for the LAIM Specialist** • Diagnose placentitis • Assess fetal health • Identify safe and proper medications for the pregnant mare • Diagnose and treat peri-partum conditions	*Hayna*
12:15-1:00 pm	**Lunch**	
1:00-5:30 pm (Break 2:30-3:00 pm)	**<u>Labs – 50 minutes per rotation</u>** **Lab 1: Gastroscopy** • Pass gastroscope correctly • Identify relevant anatomical structures include greater and lesser curvatures, cardia, and pylorus • If applicable, score ESGD and/or describe EGGD lesions **Lab 2: Guttural Pouch Endoscopy** • Identify relevant anatomical structures for proper endoscopy of GP • Perform bilateral GP endoscopy • Pass uterine pipette into GP opening using endoscopy guidance **Lab 3: Muscle biopsy** • Review sites for muscle biopsies taken in horses • Understand procedure prep required to safely perform muscle biopsy in horses • Perform or assist with gluteal, SCDM and semimembranosus biopsy • Perform post procedure care for the patient and sample handling • Understand and discuss how to mitigate common pitfalls associated with muscle biopsy **Lab 4: Reproductive Ultrasound** • Measure CTUP with transrectal and transabdominal ultrasound • Identify fetal heartbeat with M-mode ultrasound in pregnant mare	*Taylor, Trsan, Jamieson, Hayna*

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DAY 1 (continued) Thursday, September 25		
Time (Eastern Time)	**Topic**	**Presenter(s)**
5:30-7:30 pm	**Dinner on-site: Career Paths in LAIM**	*Faculty*
7:30 pm	**Shuttle to hotel**	

DAY 2 Friday, September 26		
Time (Eastern Time)	**Topic**	**Presenter(s)**
7:30 am	**Shuttle to Brunner Equine Hospital (Purdue University)**	

8:00-8:50 am	**Ruminant Forestomach Disease**
	• Review anatomy of the ruminant forestomach
	• Understand the pathophysiology and clinical signs of common disorders of the ruminant forestomach
	  ○ Bloat
	  ○ Vagal indigestion
	  ○ Ruminal acidosis
		Bornheim

8:50-9:50 am	**Farm Animal Antimicrobial use** • Understand essential farm animal drug laws for clinical practice • Define ELDU and navigate ELDU decision algorithm • Utilize FARAD to develop meat and milk withdrawals for ELDU • Identify main farm animal antibiotic classes and those with restricted use	*May*

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DAY 2 (continued) Friday, September 26		
Time (Eastern Time)	**Topic**	**Presenter(s)**
9:50-10:10 am	**Break**	
10:10-11:00 am	**Blood Collection and Restraint (Physical & Chemical) in Pet Pigs** • Develop appreciation for pet pig care, husbandry, and common healthy problems • Become proficient with venipuncture in pet pigs • Become familiar with chemical restraint options in pet pigs • Become proficient in the safe handling and restraint of pet pigs	*Ragland*
11:00-12:00 pm	**Small Ruminant Urinary Tract Disorders** • Review predisposing factors for the development of urinary tract obstructions • Identify common uroliths found in ruminants • Review the anatomy of the urinary tract and note common areas of urinary obstruction • Review medical and surgical treatment options for obstructive urolithiasis	*Bornheim*
12:00-1:00 pm	**Lunch: Sanctuary Ethics**	*Ragland*

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1:00-5:30 pm (Break 2:30-3:00 pm)	**Labs – 50 minutes per rotation** **Lab 5: Ruminant Ultrasound** • Develop competence in ruminant point of care/rapid ultrasound (FLASC US) • Identify the 7 sites of a FLASC US in a cow and the normal anatomy at each • Understand expected abnormalities in each location and interpret their clinical significance **Lab 6: Small Ruminant Urethral Process Removal** • Review sedation protocols for urethral process removal • Safely rump sheep for non-sedated restraint and evaluation of the male urinary and reproductive tract • Remove the urethral process from intact or castrated small ruminants **Lab 7: Rumen Fluid Analysis** • Collect rumen fluid from donor cow through cannula • Pass orogastric tube • Determine rumen pH, perform methylene blue reduction test, and assess protozoa diversity and motility **Lab 8: Pig Restraint and Blood Collection +/- ear catheter placement** • Safely handle and restrain pet pigs • Perform venipuncture in pet pigs • Catheterize ear vessels of pet pigs	*Jamieson, Bornheim, May, Ragland*
5:45 pm	**Shuttle to hotel**	

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DAY 3 Saturday, September 27		
Time (Eastern Time)	**Topic**	**Presenter(s)**
7:30 am	**Shuttle to Brunner Equine Hospital (Purdue University)**	
8:00-8:50 am	**Equine Endocrinology** • Understand steps involved in assessment of equine endocrine system • Develop a diagnostic plan for cases at risk of equine endocrine disorders • Create a dietary plan for horses with EMS and PPID • Understand the pharmaceutical management of equine endocrine disorders	*Bertin*
8:50-9:40 am	**Equine Neurologic Exam & CSF Collection** • Understand the steps involved in an equine neurologic evaluation • Localize lesions based on clinical presentation • Describe the equine neurologic gait deficit grading scale • Describe the C1/C2, LS, and AO CSF collection procedures	*Taylor*
9:40-10:00 am	**Break**	

10:00-11:00 am	**Fluid Therapy in Horses**
	• Understand how to calculate fluid deficit, maintenance, and ongoing losses
	• Create fluid therapy plans based on clinical presentation focusing on specific clinical challenges
	  ○ Liver failure
	  ○ Myopathies
	  ○ Post transfusion electrolyte management
	  ○ Hypoproteinemia
	• Perform sodium correction calculations
	• Prepare and calculate needs for isotonic bicarbonate solution
		Jamieson

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DAY 3 (continued) Saturday, September 27		
Time (Eastern Time)	**Topic**	**Presenter(s)**
11:00 am - 12:00 pm	**Equine Ophthalmology** • Interpret abnormalities of an ophthalmological exam and interpret diagnostic test results (fluorescein and Rose Bengal staining, corneal cytology, tonometry, ocular ultrasonography) • Formulate an appropriate treatment, prognosis, prevention, and monitoring plan for common ophthalmic conditions (corneal ulcers, stromal abscesses, uveitis) • Understand indications for sub-palpebral lavage systems and intravitreal injections	*Townsend*
12:00-1:00 pm	**Lunch**	
1:00-5:30 pm (Break 2:30-3:00 pm)	**Labs – 50 minutes per rotation** **Lab 9: Equine Endocrine Case Discussions (BREQ, Fessler)** • Describe testing protocols for common equine endocrine disorders • Interpret results of hormonal testing • Assess the response to management using clinical and clinicopathological data **Lab 10: Equine C1/C2 or L/S CSF Collection** • List the materials needed for each CSF collection • Identify the anatomical landmarks for performing CSF collection • Perform CSF collection on a standing, sedated horse **Lab 11: Equine lateral thoracic vein catheterization** • Identify the lateral thoracic vein with ultrasound in standing horse • Place over-the-wire catheter in the lateral thoracic vein in standing horse • Place epidural catheter in standing sedated horse **Lab 12: Ophthalmology Procedures** • Perform complete equine ophthalmic exam including tonometry, fluorescein staining, collection of cytologic samples, and ocular ultrasonography • Perform auriculopalpebral and frontal nerve blocks • Place dorsal and ventral sub-palpebral lavage systems • Flush the nasolacrimal duct (time permitting)	Bertin, Taylor, Jamieson, Trsan, Stapley, Townsend, Morgan
5:45 PM	**Shuttle to hotel**	

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DAY 4 Sunday, September 28		
Time (Eastern Time)	**Topic**	**Presenter(s)**
7:30 am	**Shuttle to Brunner Equine Hospital (Purdue University)**	
8:00-9:00 am	**Principles of Technical Large Animal Emergency Rescue Training (TLAER)** • Understand and assess common TLAER situations encountered by practitioners and technicians (field and clinical scenarios) • Manage safety and appropriate PPE, consider people positioning, extensions of the arm, physical restraint of recumbent animals, improve recovery times, make efficient decisions and work as a team • Overview of manipulations, equipment and techniques utilized in common scenarios	*Husted*
9:00-9:15 am	**Break**	
9:15-12:30 pm	**Labs – 50 Minutes per rotation** **Lab 13: TLAER** • Perform manipulations (forward assist, backwards drag, sideways slide) of recumbent or trapped large animals, perform vertical lift and slinging from dorsal/lateral/posterior recumbency **Lab 14: Perform Postmortem Procedures** • Perform AO CSF collection, intrathecal lidocaine euthanasia, tracheotomy, renal biopsy, thoracotomy, enucleation, etc.	*Husted, Balser, all*
12:30-1:30 pm	**Lunch and Course Wrap Up**	

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