

Large Animal Candidate Boot Camp
October 14-17, 2021
Texas A&M University | College Station, TX

DAY 1 Thursday, October 14th		
Time	Topic	Presenter(s)
7:30-8:00 am	Registration	
8:00-8:15 am	Welcome & Introductions	<i>Dr. Keith Chaffin</i>
8:15-9:05 am	Update on Diagnosis and Treatment of Equine PPID <ul style="list-style-type: none"> • Describe the pathophysiology of PPID. • Diagnosis – How to perform and interpret endocrine tests. • Treatment – How to develop treatment plans for PPID. 	<i>Dr. Michelle Coleman</i>
9:05-9:55 am	Updates on Diagnosis and Management of Equine Metabolic Syndrome <ul style="list-style-type: none"> • Describe and select different diagnostic tests available for horses with EMS. • Describe treatment and management options for horses with EMS. 	<i>Dr. Michelle Coleman</i>
9:55-10:15 am	Break	
10:15-10:55 am	Diagnostic Assessment of the Equine Eye <ul style="list-style-type: none"> • Identify the normal anatomic features of the equine eye. • Describe how to perform a complete ophthalmic exam. • Review the most common abnormalities of the equine eye. 	<i>Dr. Erin Scott</i>
10:55-11:55 am	Introduction to Ultrasound Examination of the Larynx <ul style="list-style-type: none"> • Review a normal sonographic anatomy of the equine larynx. • Review the most common sonographic abnormalities of the equine larynx. 	<i>Dr. Virginia Reef</i>
11:55 am-12:45 pm	Lunch	

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DAY 1 (continued) Thursday, October 14th		
Time	Topic	Presenter(s)
12:45-1:45 pm	Lab 1: Setup and collection of data using dynamic endoscopy and exercise ECG <ul style="list-style-type: none"> Perform a dynamic endoscopy and exercising ECG on a horse. 	<i>Dr. Carolyn Arnold,</i> <i>Dr. Mary Durando,</i> <i>Dr. Virginia Reef,</i> <i>Dr. Canaan Whitfield</i>
1:45-2:45 pm	Labs – 30 minutes each on a rotation Lab 2: Examining and interpreting dynamic video-endoscopic images <ul style="list-style-type: none"> Interpret video-endoscopic images and ECGs collected on a horse. Lab 3: Challenges associated with interpreting exercise ECGs <ul style="list-style-type: none"> Interpret video-endoscopic images and ECGs collected on a horse. 	<i>Dr. Carolyn Arnold,</i> <i>Dr. Canaan Whitfield</i> <i>Dr. Mary Durando,</i> <i>Dr. Virginia Reef</i>
3:00-6:00 pm	Labs – 1 hour each on a rotation Lab 4: Bronchoscopy, endoscopic-assisted airway sampling <ul style="list-style-type: none"> Perform tracheal aspirates and bronchoalveolar lavage using bronchoscopic assistance. Lab 5: Preparation and cytologic examination of diagnostic airway samples <ul style="list-style-type: none"> Prepare and microscopically evaluate fluid samples from tracheal washes and bronchoalveolar lavages. Lab 6: Interpreting equine thoracic radiographs <ul style="list-style-type: none"> Interpret equine thoracic radiographs and provide a relevant differential list for radiographic lesion. 	<i>Dr. Keith Chaffin,</i> <i>Dr. Amanda Trimble</i> <i>Dr. Karen Russell</i> <i>Dr. Lindsey Gilmour</i>
6:15 pm	Depart for dinner	
8:00 pm	Return to hotel	

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DAY 2 Friday, October 15 th		
Time	Topic	Presenter(s)
8:00-9:05 am	Contract Negotiation and Business Skills Development	<i>Dr. Jean-Yin Tan</i>
9:05-9:15 am	Break	
9:15 am-12:00 pm	<p>Labs – 40 minutes each on a rotation</p> <p>Lab 7: Examination of the anterior segment of the eye</p> <ul style="list-style-type: none"> • Perform a neuro-ophthalmic examination. • Identify structures of the anterior segment of the eye. • Perform a minimal ophthalmic database. <p>Lab 8: Examination of the posterior segment of the eye</p> <ul style="list-style-type: none"> • Examine the posterior segment of the eye with direct and indirect ophthalmoscopy. <p>Lab 9: Sonographic examination of the eye</p> <ul style="list-style-type: none"> • Perform an ocular ultrasound on a normal horse eye. <p>Lab 10: Subpalpebral lavage systems and drug delivery methods.</p> <ul style="list-style-type: none"> • Perform auriculopalpebral and frontal nerve blocks, flush the nasolacrimal duct and place a subpalpebral lavage system. 	<p><i>Ophtho team</i></p> <p><i>Ophtho team</i></p> <p><i>Dr. Keith Chaffin, Dr. Virginia Reef, Dr. Mary Beth Whitcomb</i></p> <p><i>Ophtho team</i></p>
12:00-1:30 pm	Lunch	

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DAY 2 (continued) Friday, October 15 th		
Time	Topic	Presenter(s)
1:30-6:30 pm	Labs – 1 hour each on a rotation Lab 11: Ultrasonography of the Larynx <ul style="list-style-type: none"> • Perform a sonogram of the normal equine larynx. Lab 12: Inhalant therapy: MDIs, nebulizers, and others <ul style="list-style-type: none"> • Describe aerosol delivery methods and the pros/cons of each approach. • Properly deliver aerosolized medications. Lab 13: Thoracocentesis, indwelling chest tubes, pleural drainage and lavage <ul style="list-style-type: none"> • Place indwelling chest tubes and perform a pleural drainage and pleural lavage. Lab 14: Percutaneous transtracheal wash and lung biopsy <ul style="list-style-type: none"> • Perform a lung biopsy and thoracentesis. Lab 15: Cardiovascular examination <ul style="list-style-type: none"> • Perform a cardiovascular examination on a horse. 	<i>Dr. Virginia Reef, Dr. Gustavo Zannotto</i> <i>Dr. Jean-Yin Tan</i> <i>Dr. Keith Chaffin, Dr. Amanda Trimble</i> <i>Dr. Michelle Coleman, Dr. Wendy Vaala</i> <i>Dr. Mary Durando, Dr. Susan Eades</i>
6:30-8:00 pm	Depart for Group Dinner	
8:00 pm	Return to hotel	

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DAY 3 Saturday, October 16 th		
Time	Topic	Presenter(s)
7:50-8:35 am	How to Perform Echocardiograms <ul style="list-style-type: none"> Review standard views to obtain equine echocardiograms. 	<i>Dr. Mary Beth Whitcomb</i>
8:35-9:20 am	Lab 16: Electrocardiography Reading 1 <ul style="list-style-type: none"> Follow standard protocols to read equine ECGs. 	<i>Dr. Mary Durando</i>
9:20-9:35 am	Break	
9:35 am-12:05 pm	Labs – 65 minutes each on a rotation Lab 17-20: Echocardiography <ul style="list-style-type: none"> Perform an echocardiogram on a horse. 	<i>Dr. Mary Durando, Dr. Susan Eades, Dr. Virginia Reef, Dr. Mary Beth Whitcomb</i>
12:05-1:30 pm	Job Opportunities and Business Skills Panel Discussion & Lunch	<i>Dr. Jean-Yin Tan, Dr. Wendy Vaala</i>
1:30-2:30 pm	Murmurs and Valvular Heart Disease <ul style="list-style-type: none"> Describe how to identify murmurs and valvular heart disease. Discuss treatment options. 	<i>Dr. Virginia Reef</i>
2:30-3:20 pm	How to Treat Cardiac Arrhythmias <ul style="list-style-type: none"> Describe different treatments for cardiac arrhythmias. 	<i>Dr. Virginia Reef</i>
3:20-3:40 pm	Break	
3:40-6:00 pm	Labs – 65 minutes each on a rotation Lab 17-20: Echocardiography <ul style="list-style-type: none"> Perform an echocardiogram on a horse. 	<i>Dr. Mary Durando, Dr. Susan Eades, Dr. Virginia Reef, Dr. Mary Beth Whitcomb</i>
6:15 pm	Depart for Dinner and Social Time in Bryan, TX	

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DAY 4 Sunday, October 17 th		
Time	Topic	Presenter(s)
8:00-8:50 am	Lab 21: Electrocardiography Reading 2 <ul style="list-style-type: none"> • Diagnose the common cardiac arrhythmias. 	<i>Dr. Mary Durando, Dr. Virginia Reef</i>
8:50-9:50 am	Lab 22: How to Obtain Echocardiographic Measurements <ul style="list-style-type: none"> • Perform an echocardiogram measurement. 	<i>Dr. Mary Durando, Dr. Mary Beth Whitcomb</i>
9:50-10:10 am	Break	
10:10-11:10 am	Lab 23: Case Examples of Diagnostic Testing for Equine PPID and EMS	<i>Dr. Michelle Coleman, Dr. Amanda Trimble</i>
11:10-11:30 am	Wrap-up, Q&A, Bon Voyage	<i>Dr. Keith Chaffin, Dr. Michelle Coleman, Dr. Mary Durando, Dr. Susan Eades, Dr. Virginia Reef, Dr. Jean-Yin Tan Dr. Amanda Trimble, Dr. Wendy Vaala, Dr. Mary Beth Whitcomb</i>
11:30 am-1:00 pm	Lunch and Departure	

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Pre-Recorded Lectures (1 hour each; will be provided to registered attendees in advance of the course)

Clinical Applications of Respiratory Function Testing

Dr. Laurent Couetil

- Understand how the disruption of the RT structure will affect its function.
- Learn the basic principles of pulmonary function testing.
- Describe factors affecting measurement of blood gases in patients and interpretation.
- Discuss the principle of pulse oximetry.

Clinical Use of Inhalant Therapy

Dr. Laurent Couetil

- Identify indications for aerosol therapy.
- Describe the main corticosteroids and bronchodilators used to treat equine asthma.
- Understand the principles of antimicrobial aerosol therapy.

Diagnosis and Treatment of IAD/RAO

Dr. Laurent Couetil

- Describe diagnostic criteria for equine asthma (IAD/RAO) based on ACVIM consensus statement.
- Discuss treatment principles for equine asthma.
- Explain the principles of aerosol drug delivery.

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