

Resident Endoscopy & Laparoscopy Boot Camp
March 21-25, 2022
Colorado State University | Fort Collins, CO

Monday, March 21, 2022 GI Endoscopy		
Time	Topic	Presenter(s)
7:15-8:00 am	Registration, Welcome & Introduction	
8:00-9:00 am	Endoscope Anatomy, Handling and Set Up <ul style="list-style-type: none"> • Recognize basic endoscope anatomy • Be familiar with how to hold and advance the endoscope. • Be familiar with how to set up endoscope and endoscopy room prior to a procedure. • Be able to assess and troubleshoot common endoscopy set up problems. 	<i>Dr. David Twedt</i>
9:00-10:00 am	Technique and Normal Anatomy of the Esophagus and Stomach <ul style="list-style-type: none"> • Recognize the normal endoscopic anatomy of the esophagus and stomach. • Apply proper techniques when performing an esophagoscopy and gastroscopy. • Apply proper techniques when collecting endoscopic biopsy samples from the appropriate locations within the stomach. 	<i>Dr. Michael Leib</i>
10:00-10:15 am	Break	
10:15-11:15 am	Pyloric Entry, Duodenal Anatomy and Biopsy Techniques <ul style="list-style-type: none"> • Recognize the normal endoscopic anatomy of the pylorus and duodenum. • Apply proper techniques when performing a duodenoscopy. • Apply proper techniques when collecting endoscopic biopsy samples from the duodenum using the “turn and suction technique” and flexure technique. 	<i>Dr. Michael Leib</i>
11:15 am-12:15 pm	GI Foreign Body Instrumentation and Removal Techniques <ul style="list-style-type: none"> • Recall common types and locations of GI foreign bodies. • Be familiar with the types of endoscopic retrieval instruments available. • Explain techniques that can be utilized for endoscopic removal of GI foreign bodies. 	<i>Dr. Michael Matz</i>
12:15-1:00 pm	Lunch	

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Monday, March 21, 2022 GI Endoscopy		
Time	Topic	Presenter(s)
1:00-5:45 pm	Lab 1: Endoscopic Manipulation <ul style="list-style-type: none"> • Apply proper techniques on how to handle the endoscope and how to pass it through the upper gastrointestinal tract. • Be familiar with normal endoscopic anatomical landmarks. • Apply proper techniques on how to transverse the pylorus and examine the duodenum. • Apply proper techniques on how to remove esophageal and gastric foreign bodies using various endoscopic instruments. 	<i>Dr. Michael Leib, Dr. Michael Matz, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>
6:00-8:00 pm	Offsite – Welcome Reception	

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Tuesday, March 22, 2022 GI Endoscopy (continued)		
Time	Topic	Presenter(s)
7:30-8:00 am	Arrival, Pre-Lab Orientation	
8:00-9:00 am	Colon Prep Techniques and Normal Colon and Ileal Anatomy <ul style="list-style-type: none"> • Recognize the normal endoscopic anatomy of the colon, cecum, and ileum. • Apply proper techniques when performing a colonoscopy. • Apply proper techniques when collecting endoscopic biopsy samples from the ileum, cecum and colon. • Apply proper techniques when preparing an animal for colonoscopy resulting in appropriate mucosal visualization and a clear ileal effluent. 	<i>Dr. Michael Leib</i>
9:00-10:00 am	Endoscopic Special Techniques <ul style="list-style-type: none"> • Be familiar with the etiology and clinical aspects of esophageal strictures. • Describe the techniques of endoscopic treatment of esophageal strictures. • Explain the theory and placement of esophageal balloon/feeding tubes. • Be familiar with how to place percutaneous endoscopic placed gastrostomy tubes (PEG). 	<i>Dr. David Twedt, Dr. Craig Webb</i>
10:00-10:15 am	Break	
10:15 am-12:00 pm	Lab 2: PEG/Stricture Management <ul style="list-style-type: none"> • Apply proper techniques on how to perform PEG tube placement. • Be familiar with balloon/esophageal feeding tube placement. • Be familiar with how to perform endoscopic esophageal dilation using balloon dilators. 	<i>Dr. Michael Leib, Dr. Michael Matz, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>
12:00-12:45 pm	Lunch	
12:45-5:30 pm	Lab 3: Upper and Lower GI Endoscopy <ul style="list-style-type: none"> • Apply proper techniques when performing upper GI endoscopy. • Be familiar with the technique of duodenal entry and examination. • Apply proper techniques when performing a colonoscopy and how to identify the ileum. • Apply proper techniques when removing esophageal and gastric foreign bodies using various forceps, snares and baskets. 	<i>Dr. Michael Leib, Dr. Michael Matz, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>

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Tuesday, March 22, 2022 GI Endoscopy (continued)		
Time	Topic	Presenter(s)
5:30-6:00 pm	GI Wrap-Up / Q&A	Dr. Mike Leib, Dr. Mike Matz, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb
6:15-8:15 pm	Offsite - Group Dinner	

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Wednesday, March 23, 2022 Respiratory/Urinary		
Time	Topic	Presenter(s)
7:30-8:00 am	Arrival, Pre-Lab Orientation	
8:00-10:00 am	Bronchoscope Handling, Technique and Anatomy of Trachea and Lungs <ul style="list-style-type: none"> • Properly handle, insert and "drive" a flexible endoscopy into all lobes of the canine lung model or live animal. • Recognize errors in handling that commonly damage these instruments. • Know the differences in technique, ranked cost and potential diagnostic value between a TTW, a "blind" BAL and endoscopic BALf collection. 	<i>Dr. Lynelle Johnson</i>
10:00-10:15 am	Break	
10:15 am-12:15 pm	Lab 4: Bronchoscopy Models <ul style="list-style-type: none"> • Be familiar with how to handle and pass the bronchoscope into lung models. • Explain normal bronchoscopic anatomy. • Apply proper techniques when removing bronchial foreign bodies. 	<i>Dr. Julie Byron, Dr. Lynelle Johnson, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>
12:15-1:00 pm	Lunch	
1:00-3:00 pm	Cystoscopy Equipment, Techniques, Normal Anatomy, Lesions, and Urethral Bulking Procedures <ul style="list-style-type: none"> • Develop a plan for cystoscopy that allows the vestibule, vagina, urethra, bladder and ureteral openings in the bladder to be systematically examined. • Identify ectopic ureters that terminate within the urethra and abnormal anatomical structures such as masses and strictures. • Describe to a client how urethral bulking procedures through the cystoscope can help reduce urinary incontinence in female dogs. 	<i>Dr. Julie Byron,</i>
3:00-3:15 pm	Break	
3:15-5:30 pm	Lab 5: Lower Urinary System Examination <ul style="list-style-type: none"> • Be familiar with how to handle and pass a rigid cystoscope into the urethra. • Identify the ureteral openings. • Recognize normal vaginal anatomy. 	<i>Dr. Julie Byron, Dr. Lynelle Johnson, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>
5:45-7:45 pm	Offsite - Group Dinner	

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Thursday, March 24, 2022 Respiratory/Urinary (continued)		
Time	Topic	Presenter(s)
7:30-8:00 am	Arrival, Pre-Lab Orientation	
8:00-10:00 am	Rhinoscopy and Laryngoscopy Instrumentation Technique and Normal Anatomy <ul style="list-style-type: none"> • Be familiar with the "5 Fold View" of the normal canine anterior nasal cavity. • Apply proper techniques when performing rigid anterior rhinoscopy and identify major anatomic septal and turbinate structures. • Be familiar with both flexible and the 120 degree rigid telescope to view the posterior nasopharynx, including the limitations of both. • Identify all normal laryngeal structures, the ideal laryngoscopic view as well as the normal dose and response to doxapram. 	<i>Dr. Lynelle Johnson</i>
10:00-10:15 am	Break	
10:15 am-12:15 pm	Lab 6: Respiratory/Urinary <ul style="list-style-type: none"> • Examine the nasal cavity as well as the posterior nasopharynx. • Be familiar with how to trephine the frontal sinus and how to examine the sinus. • Be familiar with how to pass a flexible endoscope in the male dog to examine the urethra and urinary bladder. • Refine their skills in female cystoscopy. 	<i>Dr. Julie Byron, Dr. Lynelle Johnson, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>
12:15-1:00 pm	Lunch	
1:00-5:00 pm	Lab 7: Respiratory/Urinary <ul style="list-style-type: none"> • Examine and determine normal laryngeal function. • Apply proper techniques when performing bronchoscopy in the normal dog and recognize normal anatomy. • Apply proper techniques when performing cystoscopy in the normal female dog and identify all anatomical landmarks • Apply proper techniques when performing vaginoscopy as part of the urinary examination. • Endoscopically place submucosal 'collagen' in the urethra to control incontinence. 	<i>Dr. Julie Byron, Dr. Lynelle Johnson, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>
5:00-5:30 pm	Respiratory and Urinary Wrap-Up / Q&A	<i>Dr. Julie Byron, Dr. Lynelle Johnson, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>
5:45-7:00 pm	Dinner on own	

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Friday, March 25, 2022 Laparoscopy		
Time	Topic	Presenter(s)
7:30-8:00 am	Arrival, Pre-Lab Orientation	
8:00-9:00 am	Laparoscopic Equipment and Technique <ul style="list-style-type: none"> Recognize indications and technique of diagnostic laparoscopy. Be familiar with how to perform a liver biopsy. Be familiar with how to perform a kidney biopsy. Be familiar with how to perform a pancreatic biopsy. 	<i>Dr. David Twedt</i>
9:00-10:00 am	Laparoscopic Organ Biopsy <ul style="list-style-type: none"> Describe how perform a liver biopsy and cholecystocentesis. Explain how to perform a laparoscopic directed kidney needle biopsy. Describe to perform a pancreatic biopsy using different biopsy instruments. 	<i>Dr. David Twedt</i>
10:00-10:15 am	Break	
10:15 am-12:30 pm	Lab 8: Laparoscopic Trainers <ul style="list-style-type: none"> Be familiar with how to handle the laparoscope and grasping instruments. Gain proficiency in performing several laparoscopic skills to obtain dexterity. Be familiar with how to set up and white balance the laparoscope. 	<i>Dr. Sarah Shropshire, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>
12:30-1:15 pm	Lunch	
1:15-4:30 pm	Lab 9: Laparoscopy <ul style="list-style-type: none"> Be familiar with how to perform diagnostic laparoscopy. Gain proficiency in using various biopsy instruments. Be familiar with proper techniques to obtain liver, kidney and pancreatic biopsies. Be familiar with how to perform a cholecystocentesis. 	<i>Dr. Sarah Shropshire, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>
4:30-5:00 pm	Laparoscopy Wrap-Up / Q&A	<i>Dr. Sarah Shropshire, Dr. Todd Tams, Dr. David Twedt, Dr. Craig Webb</i>
5:00 pm	Course Concludes	
5:15 – 7:15 pm	Offsite - Group Dinner (optional)	

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