ACVIM Resident Endoscopy Boot Camp
October 14-17, 2019

C. Wayne McIlwraith Translational Medicine Institute (TMI)
Colorado State University | Fort Collins, CO

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Lab Equipment Sponsored by

Day 1: Monday, October 14, 2019
GI Endoscopy

7:30-7:45 am  Shuttle to TMI
7:45-8:00 am  Registration
8:00-8:30 am  Welcome/Breakfast / Introduction
8:30-9:30 am  Discussion: Esophagus and Foreign Body Removal
              Dr. Mike Leib
              Participants will learn the basic endoscopic techniques for foreign body removal from the esophagus, normal and abnormal endoscopic findings, and various techniques for esophageal foreign body removal.

9:30-10:00 am  Break

10:00 – 11:00 am  Discussion: Gastric and Foreign Body Removal
                  Dr. Mike Leib
                  Participants will learn the basic endoscopic techniques for foreign body removal from the stomach, normal and abnormal gastric endoscopic findings, and various techniques for gastric foreign body removal.
Day 1: Monday, October 14, 2019
GI Endoscopy (continued)

11:00 am – 12:00 pm  
**Discussion:** Upper Intestinal  
*Dr. Mike Leib*  
Participants will learn how to pass through the pyloris for examination of the duodenum, normal and abnormal endoscopic findings and the techniques for obtaining intestinal biopsies.

12:00 – 12:50 pm  
**Discussion:** Large Intestine  
*Dr. Mike Leib*  
Participants will learn techniques for colonic preparation prior to endoscopy, endoscopic techniques for evaluating the colon and ileum, and abnormal pathologic findings of the large intestine.

12:50-1:30 pm  
**Lunch**  
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1:30-5:30 pm  
**Lab 1:** Upper GI Endoscopy  
*Dr. Mike Leib, Dr. David Twedt, Dr. Craig Webb*  
1. Endoscopy of the esophagus, stomach and duodenum  
2. Endoscopic foreign body removal  
3. Wrap up Q and A  
Participants will learn basic endoscopic handling techniques for examination of the esophagus, stomach and duodenum in cadavers.

5:45-7:15 pm  
**Resident Mixer**  
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7:15 pm-  
**Dinner (on own)**
Day 2: Tuesday, October 15, 2019
GI Endoscopy (continued)

7:45-8:00 am  Shuttle to TMI
8:00-8:30 am  Breakfast / Pre-Lab Orientation
8:30–9:30 am  **Discussion:** PEG Tube/ Stricture Management  
*Dr. David Twedt*
Participannts will learn the technique and indications for percutaneous endoscopic gastrotomy tube placement and the techniques for endoscopic treatment of esophageal strictures.

9:30-11:30 am  **Lab 2:** PEG Tubes / Strictures  
*Dr. Mike Leib, Dr. David Twedt, Dr. Craig Webb*
1. GI biopsy techniques  
2. PEG tube placement  
3. Esophageal stricture management  
Participants will perform upper gastrointestinal endoscopy and biopsies, place endoscopic feeding tube and learn how to perform balloon dilation of esophageal strictures in cadavers.

**Break**
*Sponsored by*

11:30 am-12:15 pm  **Lunch**
*Sponsored by*

12:30-5:30 pm  **Lab 3:** Upper and Lower GI Endoscopy  
*Dr. Mike Leib, Dr. David Twedt, Dr. Craig Webb*
1. Upper GI endoscopy (esophagus, stomach and duodenum)  
2. Lower GI endoscopy (colon and ileum)  
3. Foreign Body Removal Colonoscopy  
Participants will perform upper and lower gastrointestinal endoscopy in dogs and remove gastric foreign bodies. Live dog and recovery,

**Break**
*Sponsored by*

5:30-6:00 pm  **Discussion:** Instrument Cleaning and Care  
*Dr. David Twedt and Karl Storz representative*
Participants will learn proper endoscopic care and cleaning.

6:15-8:00 pm  **Group Dinner**
*Sponsored by*
Day 3: Wednesday, October 16, 2019

Urology/Respiratory

7:45-8:00 am  Shuttle to TMI
8:00-8:30 am  Breakfast / Introduction
8:30–10:00 am  Discussion: Respiratory Endoscopy
   Dr. Lynelle Johnson
   Participants will learn respiratory endoscopic techniques including bronchoscopy, laryngoscopy
   and rhinoscopy and normal respiratory anatomy and pathologic findings.

10:00 – 10:15 am  Break
   Sponsored by ROYAL CANIN

10:15–11:15 am  Discussion: Respiratory Endoscopy (continued)
   Dr. Lynelle Johnson

11:15 am-12:30 pm  Lab 4: Bronchoscopy Models
   Dr. Lynelle Johnson, Dr. David Twedt, Dr. Craig Webb
   1. Bronchoscopy technique
   2. Learning bronchoscopic anatomy
   3. Bronchial foreign body removal
   Participants will perform bronchoscopy using models to learn the normal respiratory anatomy.

12:30-1:00 pm  Lunch
   Sponsored by endoscopy support services, inc.

1:00-2:45 pm  Discussion: Cystoscopy
   Dr. Dennis Chew
   Participants will learn endoscopic techniques for lower urinary system evaluation, normal urinary
   anatomy and pathology and biopsy techniques and urethral bulking procedures.

2:45-3:00 pm  Break
   Sponsored by ROYAL CANIN
Day 3: Wednesday, October 16, 2019
Urology/Respiratory (continued)

3:00-4:00 pm    Discussion: Cystoscopy (continued)
                 Dr. Dennis Chew

4:00-5:30 pm    Lab 5: Lower Urinary System Examination
                 Dr. Dennis Chew, Dr. David Twedt, Dr. Craig Webb
                 1. Urethroscopy and cystoscopy in cadavers
                 2. Urethral bulking procedures
                 Participants will learn how to perform urethroscopy and cystoscopy.

6:00-8:30 pm    Group dinner – Brewery Tour & Food Truck

Sponsored by ROYAL CANIN
Day 4: Thursday, October 17, 2019

Urology/Respiratory (continued)

7:45-8:00 am  Shuttle to TMI
8:00-8:30 am  Breakfast / Introduction
8:30 am-12:00 pm  **Lab 6:** Rhinoscopy, Bronchoscopy, Cystoscopy, Urethral Bulking
  *Dr. Dennis Chew, Dr. Lynelle Johnson, Dr. David Twedt, Dr. Craig Webb*
  1. Rhinoscopy
  2. Bronchoscopy
  3. Cystoscopy
  4. Urethroscopy

Participants will perform rhinoscopy and sinoscopy in canine cadavers, perform bronchoscopy and bronchial biopsy and foreign body removal, perform cystoscopy and urethroscopy, perform urethral bulking procedures and laryngoscopy.

**Break**
*Sponsored by ROYAL CANIN*

12:00-12:45 pm  **Lunch**
*Sponsored by endoscopy support services, inc.*

12:45-5:00 pm  **Lab 7:** Cystoscopy, Rhinoscopy, Laryngoscopy and Bronchoscopy
  *Dr. Dennis Chew, Dr. Lynelle Johnson, Dr. David Twedt, Dr. Craig Webb*
  1. Cystoscopy
  2. Rhinoscopy
  3. Laryngoscopy
  4. Bronchoscopy

Participants will perform rhinoscopy, laryngoscopy and bronchoscopy, urethroscopy and cystoscopy; participants will learn to perform bronchial lavage. Live dogs and recovery.

**Break**
*Sponsored by ROYAL CANIN*

5:00-5:30 pm  **Wrap-Up Discussion:** Q&A
  *Dr. Dennis Chew, Dr. Lynelle Johnson, Dr. David Twedt, Dr. Craig Webb*

5:30 pm  **Course Concludes**

6:00-9:00 pm  **Group Dinner**