



## **2017 MVTA Conference - Lecture and Lab Descriptions**

**Heather Carter, LVT, VTS (ECC)**

### **The Anesthesia Basics**

This talk will help the future anesthetist build a solid foundation of anesthesia basics. We will define and explain how the anesthesia machine works and how to prepare for an anesthetic case.

### **Answers to Frequently Asked Anesthetic Questions**

Are there aspects of anesthesia that have always puzzled you? For example, why do we put water on the tongue to improve the SPO<sub>2</sub>? Why do some patients waking up? Why is capnography so important? After this talk you will have the answers to all these questions!

### **Anesthetic Pharmacology**

What is the difference between a partial mu agonist and a pure mu agonist? When is one opioid preferred over another? This talk will discuss and explain the pharmacology of the anesthetic agents we use every day.

### **Anesthetic Complications and Emergencies**

We strive to prevent anesthetic emergencies every day. In the event of an emergency, we want to be equipped to know when and how to respond. In this talk we will discuss how to appropriately anticipate and manage anesthetic emergencies.

### **Cardiology- the ABC's of the PQRST**

Understanding the origin of the heartbeat can help the anesthetist know when to treat bradycardia or tachycardia. This talk will breakdown the PQRST and show examples of common arrhythmias.

### **Advanced Methods to Treat Hypotension**

Low blood pressure is one of the most common anesthetic complications we combat. We will spend this hour discussing causes of hypotension and what to do when a fluid bolus doesn't work.

**Jeff Backus, CVT, VTS (ECC)**

### **It's Shocking How Much Technicians Should Know About Shock!**

In this lecture, we'll explore the pathophysiology of shock, the stages and types of shock, and current treatment modalities. There is an emphasis placed on the role the veterinary technician plays in the



successful outcome of treating shock. We'll talk about shock doses of fluids, medications used, and the importance of vital signs monitoring in the shock patient.

### **Tick-Tock: Nursing management of the CHF patient**

The CHF patient is one that is commonly managed in dogs and cats. Often, these patients compensate well for a period of time with medical management. When decompensation occurs, these patients are in a fight for their life and the triage and treatment by the veterinary technician can be paramount to survival. This lecture will explore the common heart diseases of dogs and cats that lead to a state of congestive heart failure, including valvular disease, myocardial disease, thrombosis, and dysrhythmia. We'll look at common diagnostic tests and treatments, focusing on medical management of the compensated patient, and the critical management of the decompensated patient. This lecture will include ultrasonographic images, videos of respiratory patterns and ECG's, and images of thoracic radiography.

### **A Toxic Challenge: How and When to Treat Common Toxicities**

Toxicity is a common presenting complaint in a hospital setting. Almost anything can be considered toxic if the right amount is ingested. In this lecture, we'll explore a few common toxins looking at how much is too much and how do we treat, because not all toxins are created equal!

### **A Pain (Management) in the...**

We'll discuss the pain pathway and common pain relief modalities from opioids to adjuncts, class by class. We will look at pain scales and discuss at length common behavioral and physiological responses to pain, emphasizing the role of the veterinary technician in recognizing pain.

### **The Ins and Outs of Fluid Therapy**

This lectures explores fluid therapy in the small animal patient. We discuss fluid compartments and losses, and tailoring a fluid plan to each individual patient. We discuss many fluid types including balanced and unbalanced electrolyte solutions and why one choice may be more appropriate for a particular patient. We'll also discuss the types and uses of colloids. We'll also discuss perfusion parameter and dehydration assessments, and dosing for patients in shock.

### **Turn Your Brain On When You Turn Your Patients Brain Off**

This lecture focuses on the common parameters of anesthesia monitoring, including ECG, SpO2, etCO2, NIBP, and body temperature. While stressing the importance of those values, will discuss the importance of the trend and emphasize the monitoring of parameters the machine can't provide data on-such as eye position, reflexes, mm/CRT, etc., driving home the fact that there is no better anesthesia monitor than a knowledgeable technician with a stethoscope.



## **Lynda Vermillion , CVT, VTS (SAIM)**

### **Now That You Bring it Up: GI Pathology**

Clients often call describing symptoms of vomiting after eating, or thinking that their pet is constipated. This presentation focuses on the differences between vomiting and regurgitation, diarrhea and constipation and the pathophysiology involved.

### **Can You Just Give Him That Shot, Doc?: GI Symptoms Causes & Diagnosis**

Just like in human medicine, veterinary clients seem to expect that “magic shot” or pill to cure what ails their pet. Explaining to clients that symptoms can have many different causes that may require different diagnostics as well as different treatments can go a long way to providing cost-effective care.

### **Let Me Catch My Breath: Lower Airway Disease in Dogs & Cats**

This presentation will touch on the various symptoms associated with lower airway disease and the diagnostic testing involved in finding the cause. Bronchitis (infectious vs chronic) and feline asthma will be discussed.

## **Amy Newfield, CVT, VTS (ECC)**

### **What Am I Look At?: Thoracic Radiology Review**

Technicians are taught how to take radiographs, not what they are looking at. This lecture will review how to view a radiograph and know what you are looking at. Common disease processes that you may see in the thoracic cavity will be shown. Technicians will be able to identify emergent issues so that patients can receive faster treatment.

### **What Am I Look At?:Abdominal Radiology Review**

Technicians are taught how to take radiographs, not what they are looking at. This lecture will review how to view a radiograph and know what you are looking at. Common disease processes that you may see in the abdomen will be shown. Technicians will be able to identify emergent issues so that patients can receive faster treatment.

### **Radiology Case Review**

After discussing how to interpret radiographs, this lecture discusses the importance of radiology safety, positioning and then showcases several cases to test the attendees newest skill.



## **LABS:**

### **MORNING: CPR:**

**Samantha Kowalski, CVT, VTS (ECC, SAIM) & Robyn Heater, CVT, VTS (ECC)**

**1/2 day**

With the release of the first ever veterinary specific CPR guidelines in June 2012, many now wonder what the current recommendations are. This lecture will focus on the most up to date recommendations for CPR. Participants will learn about CPR and get to practice using fake demo models.

### **MORNING: IV Catheters:**

**Jessica Boyle, CVT, VTS (SAIM) & Emily Parker**

**1/2 day**

Want to know how to place a central line? Need to practice your peripheral IV catheter skills? Want to learn how to place an IV catheter? This Hands-On lab is for you! With sponsorship from MILA this lab will allow you hands on practice to learn how to place central lines (single and multi-lumen, through-the-needle, peel away, and Seldinger methods), PICC lines and peripheral lines. Participants will be able to rotate around stations with an instructor at each station. Fake animal models will be used so that you will get a “flash” and be able to go through all the steps.