

2019 MAVT Convention – Session Descriptions

Session Descriptions

A day in the life of a Food Animal Technician: What the future holds - What the typical day for a technician working in a food animal practice is like. This talk will include the description of a typical day, what skills this type of job entails, and as the production medicine field changes, what that could mean for a food animal technician.

Abdominal Radiology Reviews: Seeing the “hidden stuff” - coming soon.

Acute Respiratory Distress Syndrome/ Acute Lung Injury - coming soon.

An Overview of the Neurological Exam: Putting the Puzzle Pieces Together - A discussion of the neurological exam and how it helps guide the neurologist to find where the problem is. We will make sense of all the puzzle pieces to get a clear picture of which part of the neurological system that is affected.

Bad Adrenals: Hypo and Hyperadrenocorticism - coming soon.

Can you feel that? Regional Blocks in Food Animals - Will be discussing types, reasons for use, and techniques used when administering regional blocks in food animal medicine.

Canine Arthroscopy: Understanding for Technicians - A discussion on the use of arthroscopy for the treatments and benefits of the variety of canine diseases.

Common Cancer Side Effects – - coming soon.

Corneal Ulcer Therapy – An in-depth look at a variety of ulcer types, treatment options, and corrective procedures.

Development of a Novel Biomedical Research Model: the Turkey - Turkeys have been routinely studied in regards to their agriculture production purposes but rarely as a biomedical research model. Over the last three years the Tendon and Soft Tissue Biology Laboratory in the Department of Orthopedic Surgery at Mayo Clinic has explored adult tom turkeys as an in-vivo biomedical research model for musculoskeletal applications such as flexor tendon repair, digit replantation and rotator cuff repair. However, there is little published literature for the care and use of turkeys in a laboratory setting. This session will provide information based on experiences regarding selection of proper turkey strain, adequate housing conditions, anesthesia, and postoperative care. The studies described were completed after approval from Mayo Clinic’s Institutional Animal Care and Use Committee.

Do you see what I see: Interactive Cell Identification - Many times, we don’t feel as confident as we should as technicians when we identify structures under the microscope. This session is designed to boost your confidence as you have an opportunity to identify cells, structures, and parasites before the answer is provided. This session will provide an opportunity for review for those seasoned technicians who may need a refresher on microscope identification. We’ll dabble in hematology, cytology, urinalysis, and parasitology during this session.

Enriching Lab animals- A(maze)ing the mice and much more – coming soon.

Even’s Syndrome: Breaking Down ITP and IMHA – coming soon.

How Animal Research Benefits Humans and Animals – Biomedical research is the broad area of science that looks for ways to prevent and treat diseases that cause illness and death in humans and animals. Research animals have helped humans and other animals; we would not be where we are today without animal research.

Laboratory animals have body systems and organs similar to humans and other animals. They are susceptible to the same diseases that affect us; so the data from this research can be directly applied to humans and other animals as well. Every person in the United States has benefited from the results of biomedical research. In this presentation, we are going to explore the link between some of that research and which animals have helped us in certain areas of research.

How do I do that? Minimizing Errors in Clinical Pathology Testing - During this session, we'll discuss ways you can minimize common errors on clinical pathology tests before, during and after the collection process. We'll also talk about how implementing standard operating procedures can improve the quality of your in-house testing and simple steps you can take to ensure your clinic is providing reliable results to your clientele.

Injury Prevention In Performance Dogs - Building Strength In Multiple Planes Of Movement - As the number of dogs participating in performance activities increases, so does the number of sports related injuries. This lecture will address a variety of techniques applied when developing endurance in muscles utilized during various planes of movement. Further, we will discuss sport specific exercises routinely implemented to improve abdominal muscle strength resulting in efficient movement during competition.

Introduction to Cancer – - coming soon.

Introduction to Ocular Diagnostics – A beginner's guide to common ocular diagnostics and technicians' role in the diagnosis and treatment of ocular diseases including specialized restraint techniques.

Ischemia/Reperfusion Injury - coming soon.

Knowing when its time: Helping clients who aren't ready when the pet is. - A significant cause of moral stress for veterinary teams is assisting with end-of-life experiences for suffering pets when pet owners are having difficulty making the decision to euthanize. Veterinary teams are obligated to follow the owner's wishes and are often distressed when the pet's condition seems to warrant euthanasia and the owner isn't ready to move forward. In this session we will discuss why this presents a moral dilemma and how to engage in productive conversations with pet owners who have concerns about euthanasia. We will discuss how to ensure pet owners have the support they need to make appropriate and timely euthanasia decisions. We will also explore concrete actions that teams can take to practice good self-care and team-care when facing circumstances where clients reject the option of euthanasia and opt for natural death for their pet.

Liver Physiology and Disease- coming soon.

Lymphoma - coming soon.

Managing Weight Loss in Cats - Understanding the implications of feline weight loss. Improve your ability to uncover information during your history and assess weight loss. Discussion of therapeutic intervention to manage weight loss in the feline patient.

Milk Culturing 101 and Beyond - The why, when, and how that are associated with milk culturing. Along with descriptions of commonly and not so commonly found mastitis causing bacteria, and tests used to identify them.

My Brain Hurts! Traumatic Brain Injury and Intracranial Pressure - This lecture will discuss how the brain reacts when a traumatic head injury occurs, why increased intracranial pressure is bad, and treatment recommendations.

Oncology Emergencies – coming soon.

Performing and Analyzing Laboratory Tests for the Food Animal Technician - CBC/Profiles. Fecal exams, Total Protein, these are just a few of the laboratory test that a food animal technician will perform. There will be a discussion of these test and a few others, along with how they are used and how to interpret the results.

Phacoemulsification (Cataract surgery) – Case study analysis looking at the technicians' role in cataract surgery and the ways in which this procedure can be used to restore patient vision.

Pills, Pot, Puddles and Pesticides: Neurotoxins in Dogs and Cats - A case-based discussion of commonly seen neurotoxins of dogs and cats focusing on therapies.

Plyometric Training In Dock Diving Dogs - Plyometric exercises are routinely performed under supervision when human athletes are building speed and explosive movement. This lecture will discuss

exercises extrapolated from our human counterparts and incorporated into conditioning programs designed to promote more explosive and powerful movement in Dock Diving competitors.

Practical Fluid Therapy in Food animals - A discussion covering the use of fluid therapy on calves, blocked goats, and dehydrated adult cattle.

Psychology of Pet Loss: Why it matters in the clinic - Losing a pet can be as painful as losing a human family member. In fact, due to its disenfranchised nature, it can be even more difficult to process than other types of losses. Veterinary technicians are on the front-lines of loss in the clinic, playing many roles throughout the process from facilitator to consoler. However, most veterinary professionals report feeling unsure about how to support grieving clients – what do you say, what do you do, how do you help? During this hour, you will learn about the unique psychological elements of pet loss and gain easy-to-implement, customizable and personalized tools to assist your team in helping grieving clients in your practice.

Radiation Therapy – coming soon.

Radical Self-Care for Veterinary Teams: Best practices in a stressful career - Each year, more and more research is published on the prevalence of compassion fatigue and burnout in the veterinary field. For many of us, this empirical evidence validates our personal experiences and acknowledges the unique stressors of this field. But, so often we are stuck at the question of “what’s next?” The idea of self-care is nothing new, and at times the prescriptions for stress-management sound like a broken record. It’s time to look at self-care in a new, realistic, and radical way and learn how to take care of ourselves so that we’re in it for the long haul. This discussion includes ideas for how to make fundamental changes to how you approach self-care so that it isn’t just another item on your to-do list, but rather a transformative and sustainable approach to your work.

Radiology Case Review - coming soon.

Radiology: Positioning & Safety - I will be concentrating on the orthopedic side of radiology positioning.

RECOVER: CPR Overview and hands on application of the RECOVER CPR guidelines.

Seizures: Don’t Panic! - Seizures are scary for clients but they should not be for us veterinary professionals. This lecture will discuss different types of seizures, the common disease processes that cause them, and medications that treat them, so you can keep your cool when others are panicking.

Spinal Cord Disease and Lesion Localization - This lecture takes a closer look at spinal cord disease localization and will discuss common causes of spinal cord disease. By the end of the lecture, everyone will be able to localize a spinal cord lesion with 2 easy steps.

Swine Intubation – Explanation of how to intubate pigs, tips and tricks for this procedure.

The Complete Dental Exam - This session will provide a detailed discussion about how to perform and document a complete oral exam. Also, we will review some fun cases and the treatment provided. Show and tell time!

The perfect Porcine Patient: Tips for sample collection, handling the porcine patient and more! - Anyone that works in a food animal practice will know how difficult the porcine patient may be. This discussion will include some of the commonly used test and procedures that occur with our porcine patients. Also, some tips to help make the farm visit to the porcine patient a perfect one!

The Technician Role in Veterinary dentistry - During this session we will discuss from beginning to end a technician’s role as it pertains to dentistry. A review of the oral cavity, client interview process, room set-up, and instrumentation.

Thoracic Radiology Reviews: Seeing the “hidden stuff” – coming soon.

Veterinary Technicians – Key Drivers in Food Safety – This presentation illustrates the veterinary technician’s broad reach by examining how they helped drive one of the biggest changes in animal agriculture in the last 60years – developing science-based practices that have resulted in the production of healthier pork products. In fact, through these practices:

- The parasite related to trichinosis is virtually eliminated; the risk of trichinosis from US pork is virtually eliminated, too.
- Pigs today have 75% less fat compared to those from the 1950s.
- Understanding the methods by which farmers raise pork to ensure food safety, animal well-being and environmental sustainability.

What am I seeing? Basic Cytology - During this session, methods of identifying cells including cellular anatomy, size, and structures will be covered. We'll focus on ways to minimize artifacts and errors in the preparation and staining of slides as well as the importance of standard operating procedures, microscope maintenance and setup in the process of evaluating hematology and cytology slides.

When you hear hoof beats, think Zebras? An open table discussion on unique and interesting cases - An interactive discussion of interesting cases that have happened throughout a career in food animal medicine.