

2018 Hambletonian Continuing Education Seminar*

Hilton Meadowlands Hotel, E. Rutherford, NJ

Friday, August 3, 2018

7:00 AM – 6:05 PM

*Approved for CE credit by the NJ Veterinary Medical Association and the NJAEP

7:00 – 7:45 AM

Exhibit Area

Registration & Continental Breakfast (*sponsored by Triple Crown Nutrition*)

Trade Show Opens

7:45 - 8:00 AM

Exhibit Area

Welcome to Seminar Participants

8:05 – 9:05 AM

Derby West

Regenerative Medicine in the Equine Athlete (*sponsored by Dechra Veterinary Products*)

Joe Manning, DVM

Dr. Manning earned his DVM from Michigan State University in 1991. After several years working in private practice in Colorado, he joined Equine Sports Medicine & Surgery in Weatherford, TX in 2003. While in practice, Dr. Manning completed his MBA at Texas Christian University. That led to an interest and opportunity to become an industry Veterinarian with Merck Animal Health. He joined Dechra in 2015, and currently serves as Veterinary Professional Services Equine Field Veterinarian.

This lecture will focus on the regenerative medicine therapies currently available plus the pros and cons of each. Will also cover common applications and use in the horse.

Derby East

Research Studies of Clinical Interest You May Have Missed (*sponsored by Zoetis*)

Mark Crisman, DVM, MS, DACVIM

Dr. Crisman received his DVM from the University of Warsaw, Poland in 1984. He earned an MS in Veterinary Medicine in 1987 from Washington State Univ. From 1987 –2010 Dr. Crisman served on the faculty of the VA-MD RCVM where he was a Professor in the Department of Large Animal Clinical Sciences, Section Chief of Equine Medicine and Surgery, and Director of the Molecular Diagnostics lab. Dr. Crisman is widely published with his primary research interests including immunology, pharmacology, and inflammation associated with equine metabolic syndrome. In 2010, Dr. Crisman joined Veterinary Operations with Zoetis where he currently serves as Senior Veterinarian, Equine Technical Services and supports the Northeast region.

This discussion will focus on recent publications that may have clinical application including; Leptospirosis, Streptococcus equi, Neorickettsia risticii (PHF), Lyme disease and antibiotics. He will also discuss legal ramifications of rabies vaccination.

9:10 – 10:10 AM

Derby West

Infectious Respiratory Disease: Workup, Management, Prevention and Case Studies (*sponsored by Boehringer Ingelheim*)

Jeremy Frederick, DVM, DACVIM, CVMA

Dr. Frederick received his DVM degree from the Ontario Veterinary College in 2005. This was followed by an internship at the University of Minnesota and a residency at the University of Florida. In 2011, after additional training, he became a Certified Veterinary Acupuncturist. He currently practices Companion Animal Integrative Medicine and Equine Internal and Sports Medicine through his practice Advanced Equine of the Hudson Valley in Fishkill, NY.

Infectious respiratory disease results in loss of use, interrupted training, missed competitions, permanent damage, and (sometimes) permanent damage or death. Specific, rapid diagnosis along with implementation of effective management and prevention strategies are essential for today's equine practitioner.

Derby East

Selecting Effective but Practical Rehab Exercise Programs for Flexor Apparatus Tendinopathy or Desmopathy in Horses (sponsored by Horsepower Technologies)

Carl Kirker-Head, MA, Vet MB, MRCVS, DACVS, DECVS

Dr. Kirker-Head received his degrees from the University of Cambridge, England. He currently serves as the Marilyn M. Simpson Chair in Equine Medicine and a Professor of Large Animal Surgery at the Cummings School of Veterinary Medicine at Tufts University. His clinical and research interests currently focus on rehabilitative interventions for tendinopathy and desmopathy, animal models of orthopedic disease, fracture repair, laminitis, bone and soft tissue mechanics, and orthopedic device development. Dr. Kirker-Head is also the International Chair of AOVET, a pre-eminent educator in veterinary orthopedics.

Functional outcome for horses recovering from flexor apparatus tendinopathy or desmopathy is substantially impacted by the rehabilitation exercise program. Selecting a program that is scientifically valid, practically implementable and affordable is a challenge. Frequently, recommendations are complicated by factors such as a lack of understanding about what we are trying to do and why, limited physical and/or financial resources, and the horse's demeanor. In this presentation, emphasis will be placed on addressing these issues in a manner that best meets the circumstances and yet offers the best functional outcome.

10:10 – 10:40 AM

Exhibit Area

Morning Break/Refreshments (sponsored by Henry Schein Animal Health, Boehringer Ingelheim & Mid-Atlantic Equine Medical Center)

10:45 – 11:45 AM

Derby West

Non-Infectious Respiratory Disease: Workup, Management, Prevention and Case Studies (sponsored by Boehringer Ingelheim)

Jeremy Frederick, DVM, DACVIM, CVMA

(See bio in 9:10 – 10:10 time slot)

Respiratory disease is second only to lameness as a cause of poor performance in horses and non-infectious respiratory disease is more common and insidious than infectious respiratory disease, as it often initially presents in a more subtle fashion. Recognizing, treating and preventing these problems can be challenging but potentially rewarding for both the equine practitioner and the horse owner.

Derby East

Intra-Articular Medications; Review and Evidence-Based Decision Making (sponsored by Mid-Atlantic Equine Medical Center)

Janik Gasiorowski, VMD, DACVS

Dr. Gasiorowski received his VMD from UPenn in 2007. He completed an internship at Rood & Riddle Equine Hospital, followed by a surgical residency at UPenn's New Bolton Center, where he was hired into the surgery section in 2011. Dr. Gasiorowski's clinical interests include orthopedic and minimally invasive surgery, lameness diagnosis and nuclear scintigraphy. Recently, he has focused on the development of surgical techniques in the standing horse. He has presented locally and internationally and is published in the veterinary surgical peer-reviewed literature. He joined Mid-Atlantic Equine Medical Center in 2013 and is an active AOVET faculty member.

Administration of intra-articular medication is commonplace and performed for a variety of reasons. A number of medications are available. Corticosteroids and hyaluronic acid are the most common but use of biological products and hydrogels is increasing. This lecture will cover the indications, mechanisms of action, and advantages and disadvantages of the various options.

11:50 AM – 12:50 PM

Derby West

**Equine Endocrine Diseases . . . or, “Help, My Old Horse Is Fat!”
(sponsored by Merck Animal Health)**

Fairfield Bain, DVM, MBA, DACVIM, DACVP, DACVECC

Dr. Bain earned his DVM from Auburn University in 1983. His academic experience includes serving as a clinical professor of equine internal medicine and equine section head at the Washington State University College of Veterinary Medicine. Dr. Bain gained significant clinical experience at several equine referral hospitals, including Peterson & Smith Equine Hospital and Hagyard Equine Medical Institute. He also spent 12 years as co-owner and VP of a worldwide manufacturer and distributor of hyperbaric oxygen chambers for veterinary applications. He joined Merck Animal Health in 2016, and currently serves as a Technical Services Veterinarian.

With the advancing age of the equine population, diseases of aging (like PPID) are becoming more common, but differentiation from Equine Metabolic Syndrome (EMS) and other endocrine disorders remain a challenge as does their practical management for owners.

Derby East

**The Therapeutic Effect of Forage (sponsored by Standlee Premium
Western Forage)**

Tania Cubitt, PhD

Dr. Cubitt received her MS in Equine Nutrition and Growth from Virginia Tech. She received her PhD in Equine Nutrition and Reproduction also from Virginia Tech, focusing on nutritional effects on ovarian function. Dr. Cubitt currently holds a position as a nutrition consultant with Performance Horse Nutrition, an international equine nutrition consulting company. Her interests are focused on developing feeding strategies for horses with special needs including metabolic syndrome, developmental orthopedic disease, gastric ulcers, and senior horses, as well as feeding the broodmare.

Presentation outline:

- How forages can benefit disease states
 - Obesity
 - Laminitis
 - Sugar sensitivities
 - Ulcers
- Post-operative forage feeding
 - Re-establishing fibrolytic bacteria
- Vitamin E in forages

12:50 – 2:30 PM

Exhibit Area

Exhibitor Displays and Buffet Lunch (sponsored by Merck Animal Health, Evolve BioSystems & Vita Flex)

2:30 – 3:30 PM
Derby West

The Efficacy of Feed Additives and Supplements: What Should You Be Recommending to Clients (sponsored by Purina Animal Nutrition)

Mary Beth Gordon, PhD

Dr. Gordon earned her PhD in Animal Science from Rutgers University. Her graduate research focused on the effects of exercise on the hormonal regulation of appetite in horses and her work was the first to characterize the appetite stimulating hormone, ghrelin, in equine. She is published in numerous scientific journals and has co-authored chapters in textbooks such as Equine Sports Medicine and Surgery. She currently serves as Director of Equine Research & New Product Development for Purina Animal Nutrition. She and her team have completed over 175 research protocols at the Purina Animal Nutrition Center, leading to the creation of 16 new products and 9 reformulated products in the equine market since 2005.

Veterinarians are commonly asked which feed additives and supplements to feed to horses, and horse owners are most likely to follow veterinarians' advice above all other. In addition, the crowded supplement market and multitude of options available can make supplement recommendations by vets difficult at best. Market research has shown that 60-89% of horse owners purchase supplements for their horses, with top choices being vitamin/mineral, joint and hoof supplements, respectively.

But what is the proof behind the efficacy of these supplements and how can you, as veterinary professionals, make sound recommendations to your clients? Relying on research, clear ingredients and inclusion rates, with measurable benefit to the horse is paramount. Further, research in other species is helpful, but may not translate appropriately to horses. This talk will cover several top areas of supplements and feed additives and how you can work with clients on their supplement programs.

Derby East

Common Equine Intra-Oral Tooth Extractions (sponsored by MAI Animal Health)

Scott Marx, DVM

Dr. Marx received his BS degree in Engineering from the US Military Academy at West Point in 1981, then served as an Army officer and paratrooper. In 1995, Dr. Marx graduated from the Colorado State University College of Veterinary Medicine. He was a partner in a mixed animal practice, then started Advance Equine Dentistry in 2000, an equine dentistry exclusive practice performing routine and advanced dental services in Parker, Colorado. Dr. Marx lectures and conducts equine dentistry seminars for veterinarians and veterinary students in the US and internationally.

The equine practitioner frequently encounters teeth that are candidates for extraction. Extraction considerations and techniques for wolf teeth, deciduous teeth (caps), cheek teeth, and geriatrics will be discussed.

3:35 – 4:35PM
Derby West

Burn Injuries in the Horse (sponsored by Merck Animal Health)

Reid Hanson, DVM, DACVS, DACVECC

Dr. Hanson received his DVM degree from the University of Georgia, completed his internship at Cornell University, and his residency in equine surgery at the University of Florida. He was previously an assistant professor at the University of Wisconsin. He gained experience as an equine surgeon and practitioner in Charlottesville, VA for 2 years working on sport and race horses. His clinical interests include equine lameness diagnosis and management; equine gastrointestinal and musculoskeletal surgery, and critical care. He is currently a Professor of Surgery in the Department of Clinical Sciences at Auburn University.

As a first responder to a barn fire, would you know how to treat a burn-compromised horse? The patient's condition should be stabilized as rapidly as possible. Life threatening problems encountered in managing these patients include shock, multi organ system dysfunction, infection, reduced immune-competency and malnutrition. Classification of burns, mechanism of burn injuries, patient evaluation, emergency treatment, inhalation injury, and burn wound management and complications will be discussed.

Derby East

Biosecurity: The Role of the Equine Veterinarian (sponsored by Neogen)

Joe Lyman, DVM

Dr. Lyman received his DVM and MS from the University of Illinois. His graduate research in animal reproduction led him to a standardbred breeding practice in Lexington, KY before entering private ambulatory practice at Lexington Equine Surgery and Sports Medicine, focusing on reproduction and herd health. He joined Neogen Corporation in 2014 as a Professional Services Veterinarian. He now fills the role of Director of Professional Services and Product Development for Neogen where he is actively engaged in seeking out and developing new products and opportunities.

Biosecurity is a frequent topic of discussion as news regularly circulates of high profile infectious disease outbreaks throughout the industry. Unfortunately, regular practice of biosecurity in the equine industry has lagged behind other animal sectors. It is important that biosecurity is practiced consistently and correctly to prevent economically significant infectious disease outbreaks. This talk focuses on the principles of biosecurity within facilities and the role a private practitioner has in limiting the impact of infectious disease.

**Pimlico/Belmont
Room**

Module 3: Overview of Foreign Animal, USDA Program & Reportable Diseases (sponsored by USDA)

Anna C. Welsch, DVM, MS

Dr. "AC" Welsch received her DVM from Oklahoma State University in 1990. After practicing in a small animal hospital and a fiber animal practice, she moved to Paris to complete a Master's in Tropical Veterinary Medicine. Her studies took her as far as Zimbabwe. She returned to the US and began working with the Pan American Health Org. and then the USDA APHIS Veterinary Services, where she has been for 20+ years. Dr. Welsch's duties include import and export oversight of livestock, germplasm and animal products in addition to conducting animal disease investigations in NJ and responding to livestock disease outbreaks across the US and internationally.

This module has been approved expressly to serve as one unit of supplemental training for participants in USDA's National Veterinary Accreditation Program.

Goal is to:

- Increase Accredited Veterinarian awareness and understanding of these diseases and how they impact animal and public health.
- Describe actions Accredited Veterinarians should take if one of these diseases is encountered.
- Provide up to date contact information for state and federal veterinary authorities.

4:35 – 5:05 PM

Exhibit Area

Afternoon Break/Refreshments (sponsored by Luitpold Animal Health & Patterson Veterinary)

5:05 – 6:05 PM
Derby West

Tenoscopy of the Digital Flexor Tendon Sheath in the Equine Patient
(sponsored by Wedgewood Pharmacy)

Petrisor Baia, Dr. Med Vet, MS, DACVS

Dr. Baia earned his Dr. Med. Vet degree in 2004 from Banat's University of Agriculture Sciences & Veterinary Medicine in Romania. He then continued his training in private practice in California and Texas. In 2013 he completed a combined residency program and a MS at Louisiana State University. Dr. Baia spent the next 5 years as the primary surgeon in an equine referral practice in Louisiana. He Moved to NJ in 2018 to join Furlong & Associates as an equine surgeon. His primary interests include orthopedics/minimally invasive surgery as well as sports medicine and diagnostic imaging.

Recent advances in imaging modalities in the equine patient have increased the understanding of digital tendon sheath pathology. That being said, tenoscopy still remains the gold standard modality for diagnosis of intrathecal pathology. In addition, it offers valuable prognostic information and allows for appropriate lesion management if indicated. A review of recent information on diagnostic, therapeutic value, and the outcome associated with the surgical intervention will be discussed.

Derby East

The Use & Interpretation of Serum Amyloid A in Respiratory Disease
(sponsored by Stablelab)

Rodney Belgrave, DVM, MS, DACVIM

Upon graduating from the Atlantic Veterinary College of Prince Edward Island in 1997, Dr. Belgrave completed an internship at the Mid-Atlantic Equine Medical Center in Ringoes, NJ. He then completed an Equine Internal Medicine residency and MS in Veterinary Medicine at Washington State Univ. Dr. Belgrave then served on the faculty of the Univ. of Florida's Veterinary Teaching Hospital as a clinical lecturer. He is a past president of the NEAEP and has presented his research to organizations including the AAEP and the ACVIM. Dr. Belgrave returned to Mid-Atlantic Equine Medical Center in 2003, and currently serves as the Internal Medicine Department Director and a partner.

Serum amyloid A, is a sensitive indicator of inflammation, especially when the inflammatory process is incited by a bacterial presence. This lecture will focus of how to interpret SAA values in cases of infectious and non-infectious respiratory disease, and how to utilize SAA as a monitoring tool to gauge the efficacy of the antimicrobial therapy.