

2016 Hambletonian Continuing Education Seminar*

Hilton Meadowlands Hotel, E. Rutherford, NJ

Friday, August 5, 2016

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 Purina Animal Nutrition*)
Trade Show Opens**

7:45 - 8:00 AM

Exhibit Area

Welcome to Seminar Participants

8:05 – 9:05 AM

Derby West

Update on Equine Leptospirosis: An Underreported Disease (*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 University. From 1987–2010 Dr. Crisman served on the faculty of the VA-MD RCVM where he was a Professor in the Dept. of Large Animal Clinical Sciences and Section Chief of Equine Medicine and Surgery. He is certified in acupuncture by IVAS. Dr. Crisman's primary research interests include immunology, pharmacology, and inflammation associated with equine metabolic syndrome. In 2010, Dr. Crisman joined Veterinary Operations with Zoetis.

The following key points will be discussed:

- Leptospirosis in horses is a bacterial disease that is capable of causing serious and costly health problems.
- Abortion in pregnant mares and equine recurrent uveitis (ERU) that can lead to blindness are two significant clinical manifestations of equine leptospiral infections.
- Of the more than 250 leptospiral serovars identified, *Leptospira interrogans* serovar Pomona is most often associated with leptospirosis infections in horses in North America.

Derby East

New Study: Infectious Upper Respiratory Tract Disease in a Young Racehorse Population (*sponsored by Mid-Atlantic Equine Medical Center*)

Rodney Belgrave, DVM, MS, DACVIM

Dr. Belgrave received his DVM from the Atlantic Veterinary College of Prince Edward Island in 1997. He served his Equine Internship at the Mid-Atlantic Equine Medical Center. He then completed an Equine Internal Medicine residency and MS degree in at Washington State University. Following his residency Dr. Belgrave served on the faculty of the University of Florida's Veterinary Teaching Hospital as a clinical lecturer. He is past president of the NEAEP. His specialty interests include respiratory and neurological disorders, neonatology, and gastroenterology. In 2003, Dr. Belgrave returned to the Mid-Atlantic Equine Medical Center to serve as Staff Internist and Director of the Internal Medicine Department.

Infectious diseases afflicting the upper respiratory tract are a major cause of morbidity in young racehorses as well as other performance horses, leading to interruption of training schedules and poor performance. They can also have a significant economic impact on the equine industry. The results of this study reveal that Equine Herpesviruses 2, 4 and 5 were the most prevalent organisms in upper respiratory tracts of this population of diseased young racehorses. Results of disease

surveillance studies can be used to better understand the types of pathogens afflicting the young racehorse population.

9:10 – 10:10 AM

Derby West

Synovitis and Osteoarthritis Diagnosis and Treatment – the Sooner the Better (sponsored by Merial)

Hoyt Cheramie, DVM, MS, DACVS

Dr. Cheramie received his DVM degree from Louisiana State Univ. in 1993. He practiced in central Kentucky for a year then completed a large animal internship at the Univ. of Tennessee (1995) and a combined Large Animal Surgery Residency and Master's program at the Virginia-Maryland Regional College of Veterinary Medicine (1998). From 1999 to 2007, he practiced performance horse medicine and surgery in the New Orleans, Atlanta and Chicago areas, working on horses in a variety of disciplines. He joined Merial in 2007 as a member of the Equine Veterinary Professional Services team, and now serves as Large Animal Veterinary Services Manager. Over his career, Dr. Cheramie has performed nearly 3,000 gastroscopic examinations across the US and consults globally with veterinarians on the management of EGUS.

Spontaneous joint disease is common in performance horses. Early identification and treatment prior to irreversible changes are important to success and return to or maintenance of long-term performance. Synovitis has been recognized as a critical feature of OA in horses as it produces pain and increased production of mediators that contribute to the OA process. Synovitis and capsulitis are manifested along a subclinical/clinical spectrum as cyclical tissue trauma from routine work creates an ongoing buildup of inflammation through the release of inflammatory mediators associated with the repetitive trauma. Diagnosis of sub-clinical disease is difficult but advances in biomarker analysis may provide clinicians with tools to recognize and treat problems prior to permanent, performance limiting changes developing. This lecture will cover diagnostic modalities geared to early diagnosis and current treatment options.

Derby East

Current Use of Bisphosphonates in Equine Medicine (sponsored by Dechra Animal Health)

Torri Maxwell, DVM

A life-long horsewoman, Dr. Maxwell had a successful 10-year career with 'Hunter Hall of Fame' member and 1968 Olympic equestrian, Carol Hoffman Thompson, before she entered veterinary school. She is a 1999 graduate of Tuskegee University School of Veterinary Medicine. She followed with a private practice internship at Mid-Atlantic Equine Medical Center and a show horse practice in Bucks County, PA. Dr. Maxwell currently works with Dechra Veterinary Products; her area of medical focus is pursuing innovative and unique pharmaceutical therapies for the veterinary industry.

This lecture will include:

- 1) An update on how bisphosphonates are being used in today's equine athlete
- 2) An explanation of the difference between the different bisphosphonates on the market today

10:10 – 10:40 AM

Exhibit Area

Morning Break/Refreshments (sponsored by Centaur Animal Health, Merial, Patterson Veterinary, and Vetoquinol)

10:45 – 11:45 AM

Derby West

The Mystery and Challenge of Upper Limb, Neck and Back Pain – What is Real? (sponsored by Patterson Veterinary)

Michael W. Ross, DVM, DACVS

*Dr. Ross received his DVM from Cornell University. He completed a surgical residency program at New Bolton Center, UPenn, and was appointed to the faculty. He currently serves at New Bolton as Professor of Surgery and Director of the Nuclear Medicine Program, which he developed. His clinical interests include equine gastrointestinal, respiratory and musculoskeletal surgery, with concentration on orthopedic surgery and arthroscopic surgical techniques. Equine lameness diagnosis and management is a clinical focus with emphasis on Standardbred and Thoroughbred racehorses. The 2nd edition of Doctors Ross and Dyson's comprehensive *Diagnosis and Management of Lameness in the Horse* was published in 2010, with a companion website www.rossanddyson.com.*

While many consider it common, pain originating from the upper limb, neck and back remains unusual and is far less common than lameness caused by more typical locations in the distal forelimbs and hindlimbs. Case examples including video segments of gait deficits will be used to discuss authentic sources of pain arising from these areas and to highlight the challenge in diagnosis.

Derby East

Mythbusters – Serum Allergy Testing (sponsored by Purina Animal Nutrition)

Katherine K. Williamson, DVM

Dr. Williamson earned her DVM degree from Iowa State University in 1996. She has a diverse background in equine practice, racetrack regulatory medicine and academia. She has worked in equine practice in Maryland and Oklahoma. Dr. Williamson also served as a research associate in the Comparative Exercise Physiology Laboratory at Oklahoma State University Center for Veterinary Health Sciences, where her work focused on equine and Alaskan husky sled dog exercise physiology research. She is widely published. Dr. Williamson currently holds the position of Equine Technical Services Veterinarian for Purina Animal Nutrition.

Review of the clinical significance and challenges of allergies in horses. Overview of the currently available methods of allergen identification with an emphasis on the limitations of these testing modalities, particularly with regard to food allergen identification and commercial serum allergy testing.

11:50 A – 12:50 P

Derby West

Emerging and Re-emerging Infectious Diseases: The Year in Review (sponsored by Merck Animal Health)

Wendy Vaala, VMD, DACVIM-LA

Dr. Vaala received her VMD from the UPenn. She then served on staff as Assistant Professor of Medicine at New Bolton Center, where she organized the development of a neonatal intensive care program, a high-risk pregnancy program for mares, and supervised the neonatology teaching program. She then worked at two large private practices in NJ, where she established NICU's, equine medical referral services, and foaling programs for mares with high-risk pregnancies. Dr. Vaala joined Intervet, now Merck Animal Health, in 2004, and currently serves as Associate Director of LifeCycle Management – Equine. Her responsibilities include participation in research and development of new equine biologics and pharmaceuticals and continuing education for veterinarians and horse owners.

Catch-up on which equine infectious diseases made headlines over the last 18 months as a result of increased incidence, new treatments and control measures or new diagnostics. Become familiar with resources to help keep you up to date with infectious disease outbreaks and new equine biosecurity guidelines.

Derby East

Veterinary Management of Limb Conformation in the Developing Horse (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 section of surgery 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.

From contraction or laxity to angular limb deformity, conformational defects affect adversely the quality of life, athletic potential and value of young horses. These issues can be surmounted with appropriate management and timely intervention. Their recognition, definition, biomechanics and management techniques (including timing as it relates to age and phases of growth) will be discussed.

12:50 – 2:30 PM

Exhibit Area

Exhibitor Displays and Buffet Lunch (sponsored by Merck Animal Health)

2:30 – 3:30 PM

Derby West

My Horse Behavior Bucket List (sponsored by Wedgewood Pharmacy)

Sue McDonnell, MS, PhD

Dr. McDonnell is a Certified Applied Animal Behaviorist trained in human psychology and equine physiology and behavior. She holds a 1982 master's degree in Psychology from West Chester University and a 1985 PhD in Reproductive Physiology and Behavior from the University of Delaware. For her entire 35-year career she has been at New Bolton Center on the research and clinical faculty, where she founded the Equine Behavior program. Her primary clinical expertise and research is stallion sexual behavior dysfunction, but her interests and skills have spanned multiple aspects of equine behavior and welfare.

Dr. McDonnell will share her top 10 concepts to convey, and questions yet to answer, that are of importance to horse health and veterinary care. Example topics include why some horses hate vets, why veterinary diagnostics so easily miss physical discomfort or medical problems as the root cause of poor performance or behavior changes, and how horses living under natural conditions are relatively free of injury, foot problems, teeth problems, founder, colic, and just about everything else that affects domestically managed horses.

Derby East

It 'Snot' Necessarily Who You Know, but What You Know (sponsored by Boehringer Ingelheim)

Scott Hancock, DVM

Dr. Hancock earned his DVM from Auburn University. After graduation, he worked in rural farm and training center practice in Ohio. He then moved to the Atlanta, Georgia area and built the state's first private full service equine surgical hospital. In 2003, Dr. Hancock was recruited by the CDC to join a team of scientist to create hyperimmune antibodies from horses for treating US citizens against a bio-warfare nerve toxin. The mission was completed with a FDA licensed product. Dr. Hancock's new interest in immunology led him to joining Boehringer-Ingelheim as a professional service veterinarian.

Most equine practitioners have little time to get heavily involved in equine immunology. After 20+ years of very active equine practice, a career detour changed my way of thinking and exposed a new outlook on what immunology has accomplished in both humans and the horses we see and treat. Every equine practitioner can benefit by appreciating this basic science and applying it to everyday practice. The past accomplishments of the early pioneers, along with some updates on advancing technologies will encourage all of us to engage in the science of immunology.

3:35 – 4:35PM
Derby West

Inflammation and the Airways: Slowing Down the Performance Horse – (sponsored by Merck Animal Health)

Peter Morresey, BVSc, MVM, MACVSc, DACT, DACVIM-LA, CVA

Dr. Morresey graduated from Massey University in New Zealand in 1988. After 8 years of mixed veterinary practice, he attended the University of Florida College of Veterinary Medicine for a 2-year all species Theriogenology residency, and subsequently undertook a Large Animal internal medicine residency. He then joined the equine faculty at New Bolton Center as a Field Service clinician. Currently Dr. Morresey is in private referral practice at Rood and Riddle Equine Hospital in Lexington, KY. As the marquee thoroughbred breeding area of the US, caseload includes a large number of compromised neonatal foals, along with general equine medicine including neurological, respiratory and gastrointestinal conditions.

Respiratory disease is a common cause of diminished performance in all horses. When inflammatory in nature, recognition can be delayed and solutions can be elusive. This lecture will provide current thoughts on diagnostic techniques, treatment, and management of horses affected by airway inflammation.

Derby East

A Review of Lower Limb Soft Tissue Injuries and Treatment (sponsored by Centaur Animal Health)

Reese Hand, DVM, DACVS

Dr. Hand received his DVM from Texas A&M College of Veterinary Medicine in 1997. In 1997-1998, he completed an internship at Littleton Large Animal Clinic in CO, followed by a Surgery residency at Texas A&M College of Veterinary Medicine from 1998 to 2001. Following his residency, Dr. Hand stayed on at Texas A&M as an instructor. He then was a partner in a private practice in NV. In 2008, he joined the staff at Equine Sports Medicine & Surgery in Weatherford, TX. Dr. Hand is now the managing partner at ESMS. He specializes in sports medicine and associated surgery, and also concentrates on regenerative therapy and its use in healing soft tissue and orthopedic injuries.

This presentation will focus on:

- Soft tissue injuries – incidence and severity
- Treatment options
- Outcome experience – recovery, rehab, return to use

4:35 – 5:05 PM
Exhibit Area

Afternoon Break/Refreshments (sponsored by 3M Animal Care, Luitpold Animal Health, and Vet-Ray Technology by Sedecal)

5:05 – 6:05 PM
Derby West

Review of the Top Four Neurologic Emergencies (sponsored by Merial)

Amy Johnson, DVM, DACVS

Dr. Johnson received her DVM from Cornell University in 2003. Following an internship at B.W. Furlong and Assoc., she returned to Cornell for a residency in large animal internal medicine. In 2007, she began working as a clinician at New Bolton

Center while concurrently completing a residency in neurology. In 2011, Dr. Johnson became the 3rd veterinarian in the world to obtain board certification in neurology as well as large animal internal medicine. She currently works at New Bolton Center as Asst. Professor of Large Animal Medicine and Neurology. Her research efforts focus on improving diagnosis of equine neurologic disease, and she has special interests in equine protozoal myeloencephalitis (EPM), Lyme neuroborreliosis, and botulism.

Horses are frequently presented with neurologic problems that are alarming to owners and veterinarians alike. This presentation focuses on several of the most common neurologic emergencies, including acute ataxia, abnormal behavior, dysphagia, and vestibular disease. Tips for evaluating and treating affected horses in the field are provided.

Derby East

Vesicular Diseases: USDA Accredited Veterinary Module #5 (sponsored by the USDA)

Anna C. Welsch, DVM

Dr. “AC” Welsch received her DVM from Oklahoma State University in 1990. After graduation she practiced in a small animal hospital and a fiber animal practice in VA. She then moved to Paris to complete a French master’s degree program in Tropical Veterinary Medicine. Her studies took her to as far as Zimbabwe. She returned to the US and began working with the USDA Veterinary Services in 1992. She routinely oversees equine international imports and exports including for the 1996 Olympic Games in Atlanta, GA, the 1993 International World Pairs Driving Championships in Gladstone, NJ, and the 2007 Breeders Cup in Monmouth Park, NJ.

This Module provides an overview of vesicular diseases in livestock and will enable accredited veterinarians to:

- Understand the economic impact of an outbreak
- Name four vesicular diseases of importance in the United States
- Apply biosecurity measures specific for vesicular diseases
- Recognize the clinical signs associated with each vesicular disease
- Know how to report a possible vesicular disease case

Equine veterinarians who wish to maintain their USDA accreditation status must complete 6 hours of APHIS approved supplemental training every 3 years. By attending this course, you will earn 1 USDA APHIS approved credit of CE.