

2024 Hambletonian Continuing Education Seminar *

Hilton Meadowlands Hotel, E. Rutherford, N.J.

Friday, August 2, 2024

7:00 am – 6:05pm

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



7:00-7:45 AM Registration & Continental Breakfast (*Sponsorship*)

Exhibit Area Trade Show Opens

7:45 – 8:00 AM Welcome Seminar Participants

Exhibit Area

8:05 – 9:05 AM

**Derby East Health Management of US Senior Horses
*(Sponsored by Rutgers Equine Science Center)***

***Alisa C. Herbst* BSc, PhD**

Dr. Herbst received her BSc in Equine Management from Nuertingen-Geislingen University (Germany) in 2016. During her undergraduate studies she also contributed to research on equine airways diseases (Purdue University, Indiana) and wastage of Standardbred horses (Massey University, New Zealand). In 2021 she received her PhD in Veterinary Science with specialization in equine immunology from the University of Kentucky. Her dissertation research was concerned with immune function and muscle mass in senior horses. She currently holds a postdoctoral associate position at the Rutgers Equine Research Center where she is continuing her research on muscle mass, immune function, and the senior horse.

This session will provide insights into the health and management of US senior (15+ years) horses. The presentation is based on findings from at least three scientific articles that resulted from a nation-wide senior horse survey study with ~3,000 participants. Various topics will be discussed including reasons and risk factors for horse retirement, exercise management of senior horses, owner-reported signs of declined health and medical conditions affecting senior horses, risk factors for prevalent medical conditions, routine health care practices and risk factors for low routine

health care, medical treatments provided for various conditions, the role of consultation with a veterinarian in medical decision making, and insights into management and health of the particular group of competing senior horses.

Derby West

Updates on Equine Endocrine Disease

(Sponsored by Boehringer Ingelheim)

Julie Settlage, DVM, MSc Vet Ed, CCFP, CBC, DACVS-LA

Julie Settlage, DVM, MSc Vet Ed, CCFP, CBC, DACVS-LA is a graduate of Virginia Maryland College of Veterinary Medicine. She completed her surgical residency at Marion duPont Scott Equine Medical Center in Leesburg Virginia. She held several leadership roles at Virginia Tech, including Section Chief of Large Animal Medicine and Surgery and University Attending Veterinarian, prior to joining Boehringer Ingelheim Animal Health in 2020. Clinically Dr. Settlage enjoys treating the entire equine athlete and surgical puzzles.

This lecture will review current literature and recent additions to testing and management of equine PPID and EMS.

9:10-10:10 AM

Derby East

Equine Protozoal Myeloencephalitis: update

(Sponsored by Merck Animal Health)

Philip van Harreveld DVM, MS, DACVS-LA

Dr. van Harreveld received his Doctor of Veterinary Medicine from North Carolina State University in 1996. In 1997, he completed a one-year internship in equine medicine and surgery at Kansas State University. After developing a strong interest in equine surgery, Dr. van Harreveld completed an equine surgery residency, as well as a Master's degree in clinical sciences at Kansas State University. In 2001, Dr. van Harreveld was certified by the American College of Veterinary Surgeons in equine surgery. Prior to joining Merck Animal Health, Dr. van Harreveld founded and operated Vermont Large Animal Clinic, an equine field service and surgical referral hospital in the Burlington, VT area for over 22 years.

Overview of the disease, diagnostics considerations, treatment options and update on current causative organisms.

Derby West

You Look Tense: What You Need to Know about

Equine Muscle Disorders

(Sponsored by Shreiber School of Veterinary Science)

Elizabeth Perry, DVM, MS, DACVIM (LAIM)

Dr. Perry is the Clinical Assistant Professor for the Large Animal Field Service of the

Shreiber School of Veterinary Medicine of Rowan University. She earned her DVM at Western University of Health Sciences in Pomona, California. After that, she completed two internships, with the first at Humphrey Giacobuzzi and Associates Equine Hospital in southern California, and her rotating internship at Virginia Tech Marion DuPont Scott Equine Medical Center outside of Washington D.C. She completed her residency at Kansas State University and joins Rowan University as a board-certified equine internist.

Equine myopathy encompasses a broad diagnosis including etiologies of both exertional and non-exertional myopathies. In this lecture, you'll gain a deeper understanding of select genetic, infectious, immune-mediated, nutritional and toxic causes of myopathies as well as gain practical knowledge about clinical signs, diagnosis and treatment options.

Seminar Room **USDA Accredited Module # 4: Preventing Disease Introduction and Spread**

(Sponsored by the United States Department of Agriculture)

Alison Stout DVM

Dr. Alison Stout grew up in New Jersey. She pursued her undergraduate degree in Animal Sciences and Agricultural Education at Cornell University. Following undergrad, she spent two years working in an equine immunology laboratory. Her primary work focused on Equine Herpesvirus. Dr. Stout received her DVM from Cornell University in 2017.

This seminar describes key practices to prevent and minimize disease exposure to animals and humans. Information includes review of types of personal protective equipment (PPE) and levels of use, cleaning and disinfection protocols, and types of disinfectants. Instructions on reading and interpreting disinfectant labels are included. Selection and implementation of best biosecurity practices in various animal settings.

10:10 -10:40 AM

Exhibit Area

Morning Break/Refreshments

10:45- 11:45 AM

Derby East

Leaky Gut Syndrome

(Sponsored by Triple Crown Nutrition)

Dr. Robert Bray PhD

Dr. Bray's experience as an equine/animal nutritionist is from many years as a professor, scientist, consultant and lifelong horseman. His knowledge and passion in equine nutrition led him to formulate a popular line of horse feeds in 2004. Dr. Bray is Professor Emeritus in Animal & Veterinary Sciences of California State Polytechnic University, Pomona. He received his Ph.D. in

animal nutrition from the University of Maryland and conducted his Ph.D. research at the Non-ruminant Animal Nutrition Laboratory, Beltsville Agricultural Research Center, USDA.

How the loss of Intestinal Barrier Function may play a more critical roll in animal health challenges. Although Leaky Gut is a relatively new concern, symptoms have long been a challenge for veterinarians to directly diagnose. The talk will discuss the pathophysiology of barrier function break-down before diving into the implications of Leaky Gut in three specific areas of concern; Allergies, Chronic GI Upset, and Asthma.

**Derby West What is “Practice Culture” and Why does it matter?
(sponsored by Decade One)**

Dr. Chrissie Schneider DVM, MS, DABVP (Equine Practice)

Dr. Chrissie Schneider is a Senior Equine Professional Services Veterinarian at Merck Animal Health. Prior to joining Merck Animal Health in 2020, Dr. Schneider was in clinical equine practice for 11 years –including an equine internship, an American Board of Veterinary Practitioners residency at The Ohio State University and six years as an associate at an equine-exclusive ambulatory practice in central Ohio. Dr. Schneider is board certified in equine practice by the American Board of Veterinary Practitioners.

A common goal for members of the equine veterinary community is making equine practice a fulfilling and sustainable career. Practice owners want to be able to attract new associates and retain the associates they have for the health and legacy of their practice. Associate veterinarians want and need a practice environment that allows and encourages them to have a full life -both professionally and personally. A healthy practice culture is the foundation for all the aforementioned goals. This presentation will describe the building blocks that make up a practice's culture -a sometimes confusing and elusive idea.

11:50-12:50 AM

**Derby East What I Didn't Learn in Vet School: Case-Based Clinical Anatomy!
(Sponsored by First Choice Marketing)**

James A. Orsini, DVM, Dipl. ACVS & Alexandra Scharf, DVM, PhD, DACVR, DACVR-EDI

James A. Orsini is an Associate Professor of Surgery, School of Veterinary Medicine,

University of Pennsylvania. Dr. Orsini received his DVM from Cornell University and completed his internship, surgery residency, and fellowship/lectureship training at the University of Pennsylvania's New Bolton Center campus. He is board certified in surgery by the American College of Veterinary Surgeons with a special interest and expertise in orthopedic and reconstructive surgery, and laminitis, amongst other surgery areas. He has published extensively on equine pediatric surgery, antimicrobials, laminitis, gastric ulcers, pain, and anti-inflammatory medications with several hundred publications. He is co-editor of Equine Emergencies with Dr. Nora Grenager, with the 5th edition in production.

Dr. Scharf completed her undergraduate at Cornell University, followed by her doctoral studies and DVM at the University of Georgia. She then completed rotating internships in large and small animal medicine followed by a diagnostic imaging residency at the Ohio State University. She received her board certification with the American College of Veterinary Radiology in 2023 and her certification for equine diagnostic imaging specialty in 2024.

Anatomy of course does not change but our understanding of anatomy and its clinical significance does. Anatomical nomenclature is continually modified by Nomina Anatomica Veterinaria (NAV), and most recently in 2017, improving our understanding of relationships between organs, anatomical regions, and distinct body parts as they relate to one another. Our journey will take you on a trip through parts of equine anatomy that we may vaguely remember as being part of the horse, but the clinical significance never completely understood. The "trip" uses case-based examples to enhance your knowledge and confidence in equine practice.

Derby West

**Appropriate parasitological tools for monitoring anthelmintic resistance in equine
(Sponsored by Parasight Systems)**

Manigandan LeJeune BVSc&AH, MVsc, PhD, DipACVM (Parasitology)

Dr. Mani Lejeune is the Director of Clinical Parasitology and Molecular Diagnostic Labs at the Cornell Animal Health Diagnostic Center. He is also an Associate Professor of Practice at the Department of Population Medicine and Diagnostic Sciences. Dr. Lejeune is a Diplomate of the American College of Veterinary Microbiologists with certification in Veterinary Parasitology. His research interests include studying parasite biodiversity and developing diagnostics for parasite detection and disease diagnosis.

This presentation highlights the looming threat of anthelmintic resistance in equines and the research work to identify the appropriate classical diagnostic tools to monitor the existence or the emergence of this threat in managed equine populations. The usefulness of the Fecal Egg Count Reduction Test (FECRT) offered at Cornell Animal Health Diagnostic Center (AHDC) will also be discussed.

12:50- 2:50 PM

Exhibit area

Exhibitor Displays and Buffett Lunch

2:50-3:50 PM

Derby East

Will We Move to Standard IVF in The Horse?

(Sponsored by First Choice Marketing)

Katrin Hinrichs DVM, PhD, DACT

Dr. Katrin Hinrichs is the Harry Werner Endowed Professor of Equine Medicine and Chair of the Department of Clinical Studies - New Bolton Center at the School of Veterinary Medicine, University of Pennsylvania. She obtained her DVM from the University of California, Davis and her PhD from the University of Pennsylvania. Dr. Hinrichs' laboratory has pioneered research into equine assisted reproduction, producing the first cloned horse in North America and developing the first successful program for in vitro production of equine blastocysts via intracytoplasmic sperm injection (ICSI) in the US. Her research has led to methods for shipment of immature oocytes and for biopsy and cryopreservation of equine embryos, now utilized worldwide, and most recently, the first efficient protocol for standard in vitro fertilization in the horse.

In vitro embryo production, currently performed via intracytoplasmic sperm injection (ICSI), has become an important tool in equine reproductive management. Our laboratory recently developed the first repeatable protocol for standard in vitro fertilization (IVF) in the horse, providing excellent fertilization and blastocyst production rates. This raises the question of whether standard IVF may be utilized clinically, in place of ICSI. Performance of ICSI entails multiple manipulations of the mature oocyte that are potentially detrimental, while standard IVF avoids these steps. Thus it is possible that IVF could provide higher embryo production rates, or pregnancy or foaling rates after transfer to recipient mares, than does ICSI. If so, IVF would be a desirable clinical procedure in equine reproductive management. However, our published protocol for IVF utilized only freshly collected semen, and for clinical cases, it is important that the procedure works effectively with frozen-thawed semen. In the last year, we have developed methods to use frozen-thawed semen for IVF. The observed benefits and limitations to use of IVF for clinical embryo production will be discussed in this presentation.

Derby West

Practical Uses of Acupuncture You Can Take Home

(Sponsored by International Veterinary Acupuncture Society)

Quinley Koch, MAg, DVM, IVCA, CVA

Dr. Quinley Koch received her bachelor's from Fort Hays State University in 2002 and received her Master of Agriculture from Texas A & M in 2005. She graduated from Oklahoma State University Veterinary Program in 2010. She achieved certification with the International Veterinary Chiropractic Association in 2012 and completed the International Veterinary Acupuncture Society's Certification in Veterinary Acupuncture in 2016. She started her own integrative practice in 2012 and is now

almost exclusively practicing integrative medicine. She is currently an equine case instructor for the USIVAS Certification Course in Veterinary Acupuncture.

The lecture will give you a down and dirty basis of acupuncture then go into cases. These cases will include practical uses that you can take home with you as well as advanced cases to demonstrate the benefits of an acupuncture treatment.

3:55-4:55 PM

Derby East

All Stressed Out, What's the problem

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 40 plus-year career she has been at New Bolton Center on the research and clinical faculty, where she founded the Equine Behavior program.

This talk will discuss sources of stress for modern domestically managed horses and practical recommendations for reducing those stresses. As examples, strategies and protocols for low-stress weaning, low-stress emergency loading for transport, and low-stress lay-ups will be presented for discussion.

Derby West

Advanced Field Case Management Scenarios 2.0
(Sponsored by Merck Animal Health)

Dr. Philip van Harreveld DVM, MS, DACVS-LA

(See biography from 9:10-10:10am lecture)

Practical approach to evaluating and testing Vit E deficiencies in horses, how to incorporate blood and abdominal fluid lactate results when managing the equine acute abdomen, and how to avoid common pitfalls when suturing / managing lacerations.

4:55-5:05 PM

Exhibit Area

Afternoon Break/Refreshments

5:05 – 6:05 PM

Derby East

In Sickness and In Health: The Marriage of Clinical Anatomy and Diagnostic Imaging

James A. Orsini, DVM, Dipl. ACVS & Alexandra Scharf, DVM, PhD, DACVR, DACVR-EDI

(See Biography from 11:50-12:50pm Lecture)

Understanding and applying normal clinical anatomy and imaging techniques are fundamental in better interpreting abnormal findings in clinical cases. The lecture builds on normal clinical anatomy and imaging of common musculoskeletal problem areas affecting the equine athlete, and "marrying" these with real-world lameness problems. The goal is to enhance your clinical expertise in using different diagnostic imaging modalities and maximizing the benefits of each in clinical practice.

Derby West

Low stress Handling of Equine Patients

Dr. Cade Torcivia, VMD, MSc, CAAB

Dr. Cade Torcivia, VMD, MSc, CAAB, currently serves as the Teaching and Research Associate at University of Pennsylvania's New Bolton Center in Kennett Square, Pennsylvania. Following graduation from the University of Pennsylvania School of Veterinary Medicine in 2017, they completed a Havemeyer fellowship in equine behavior research at New Bolton Center under the mentorship of Dr. Sue McDonnell. From 2018-2020, they completed a fellowship in laminitis research at New Bolton Center under the mentorship of Dr. Andrew van Eps.

This talk will discuss ways in which we can help reduce equine stress during veterinary visits and some methods for behavior modification to address common veterinary procedure aversion.