

2021 RegVet CE*
EDUCATIONAL PROGRAM

Registration details- rmtcnet.com/technical-resources/regvet-ce/

Date	Time	Topic	Description	Speaker Bio
3/2/2021	4:00-5:00 pm ET	Terminology and distinctions: Words matter. Let's make sure we're all speaking the same language.	Dr. Dionne Benson will lead a discussion clarifying terminology used by regulators and laboratories. The use of incorrect or imprecise language can affect laboratory performance and client expectations, and in some cases, impact case outcome. Detection time, Withdrawal Guidance, and Restricted Administration Time are examples of terms that are mistakenly used interchangeably leading to confusion and potentially increased risk of a medication violation.	Dr. Benson is Chief Veterinary Officer for the Stronach Group, with responsibilities for veterinary safety, welfare, and integrity practices and protocols, as well as equine research initiatives for TSG's 1/ST Racing and training brands including Santa Anita Park, Golden Gate Fields, San Luis Rey Downs, Gulfstream Park, Gulfstream Park West, Palm Meadows, Pimlico Race Course, Laurel Park and Bowie Training Center. From 2013-2019 she was the Executive Director and COO for the RMTC. Dr. Benson earned her veterinary degree from the College of Veterinary Medicine at the University of Minnesota and her Juris Doctor (JD) from the William Mitchell College of Law.
3/2/2021	5:00-6:00 pm ET	Knowing your ELISA from your LC-MS/MS: Why It Matters	Dr. Scott Stanley will provide a history of the evolution of analytical methods applied in horseracing; an explanation of current methods and instruments; and a look forward at methods in development.	Dr. Stanley is a Professor at the University of Kentucky (UK) Gluck Equine Research Center and Director of UK's Equine Analytical Chemistry Laboratory. He earned his Ph.D. in Toxicology from the University of Kentucky. Previously, he was Chief Chemist at the Kenneth L. Maddy Equine Analytical Chemistry Laboratory, the CHRB's Official Drug Testing Laboratory. Dr. Stanley has published over 150 research papers on equine anti-doping methods, veterinary pharmacokinetics, toxicology and veterinary drug compounding.
3/16/2021	4:00-5:00 pm ET	From Finish Line to Fed-Ex: Recognizing key elements of sample integrity at the racetrack	Ms. Leasa Johnson will discuss strategies for identifying horses for testing--in- and out-of competition, sample collection and processing protocols to maintain a defensible chain of custody. She will identify Test Barn best practices as well as activities that create risk for successful challenge of findings, and discuss specific examples where case outcomes were impacted by protocols at the racetrack.	Ms. Johnson has been Chief Investigator for the New Mexico Racing Commission since 2004. Prior to that she served in the New Mexico Office of the Inspector General and the United States Air Force Office of Special Investigations. She has served on the Board of the Organization of Racing Investigators. She has provided training for investigators in other racing jurisdictions on topics ranging from race fixing; Out of Competition Testing programs; illegal, unapproved medications; and search and seizure of electrical devices.
3/16/2021	5:00-6:00 pm ET	At the laboratory--sample accession to a final report	Brendan Heffron will describe the protocols employed by laboratories to ensure the integrity of the testing process--starting with the sample's arrival at the laboratory and ending with the retention of a sample following the issuance of a final report to the client. He will guide participants through a Certificate Analysis that records every contact with the sample after its accession.	Mr. Heffron is Principal Analytical Forensic Toxicology Specialist at the Analytical Forensic Testing Laboratory in Chicago, IL with 10 years of equine testing laboratory experience. He has authored and co-authored articles in peer-reviewed journals on topics such as sample testing methodology and drug metabolism. Mr. Heffron earned his Master of Science degree in Forensic Science from the University of Illinois, Chicago. Mr. Heffron is a full member of the Society of Forensic Toxicologists and a professional member of the Association of Official Racing Chemists.
3/30/2021	4:00-5:00 pm ET	Screening analysis and Confirmatory Analysis	Ms. Petra Hartmann will discuss the process of screening analysis: performing sample extractions, the mass spectral database and how it can impact results, and why pharmacokinetic data helps establish database requirements. She will discuss the risks of overinterpreting 'suspicious on screening', and the importance of blinded testing. She will provide an overview of the confirmatory analysis process and identify distinctions between analyses applied to threshold and non-threshold substances.	Ms. Hartmann is Laboratory Director for Drug Testing Services at Industrial Laboratories Co. and has over 32 years' experience in veterinary drug testing. She received her Master of Science degree in Pharmacy/Forensic Drug Chemistry at the University of Florida. Ms. Hartmann is a fellow member of the Association of Official Racing Chemists. Under her direction, Industrial Laboratories has published multiple articles related to equine drug testing and has developed a comprehensive drug screening program that has led to the detection of several novel drug findings.
3/30/2021	5:00-6:00 pm ET	Hair Testing: What can it do for you?	Dr. Ben Moeller will discuss the importance of sample preparation and how the process can impact analytical results. He will discuss why substances are amenable to hair testing, and why others are not, and the current scope of substances detectable by hair testing. He will also discuss its limitations and offer strategies for adding hair analysis to your testing program.	Dr. Moeller is an Assistant Professor at the University of California Davis School of Veterinary Medicine. He manages the Chemistry Section of the KL Maddy Equine Analytical Chemistry Laboratory. He received his undergraduate degree in Biochemistry and Molecular Biology and Doctorate in Pharmacology and Toxicology from UC Davis. He is board-certified by the American Board of Toxicology and a member of the Association of Racing Chemists.
4/13/2021	4:00-5:00 pm ET	Laboratory Accreditation: What is it and why does it matter?	Dr. Hardy will explain the standards for ISO 17025, RMTC, and International Federation of Horseracing Authorities' laboratory accreditation. He will also discuss the strengths and weaknesses of external and internal quality assurance programs (QAP)--single blind and double-blind, and passed-sample exchanges--that are used to monitor laboratory capabilities. He will explain the role of the RMTC's Horseracing Testing Laboratory Committee and provide participants guidance on interacting with their laboratories with respect to contractual or QAP performance.	Dr. Hardy has been the supervising official racing veterinarian for Indiana Grand Racing & Casino since 2013 and has held combined duties as a commission veterinarian for the Indiana Horse Racing Commission for two of those years. Prior to that, Dr. Hardy worked as commission veterinarian for the Kentucky Horse Racing Commission (KHRC) and continues to provide veterinary support for the KHRC on various nationally televised racing events. He is a member of the Breeders' Cup Veterinary Panel. Dr. Hardy serves on the RMTCM's Horseracing Testing Laboratory Committee that oversees the RMTC's Laboratory Accreditation program.
4/13/2021	5:00-6:00 pm ET	Soliciting Laboratories for Split Sample Analysis	Dr. Travis Mays will discuss Best Practices for soliciting split sample analysis, including the scope and nature of information that should be provided to the laboratory in the solicitation, and what should not. He will also provide guidance on what the regulator and/or affected licensee should expect from split sample analysis and how interlaboratory variabilities can impact the results of split sample analysis.	Dr. Mays is Section Head of Analytical Chemistry (Drug Testing & Toxicology) at the Texas A&M Veterinary Medical Diagnostic Laboratory (TVMDL). Dr. Mays received his Master of Science degree in Toxicology and his doctorate in Pharmacology from Texas A&M University. He has over 16 years of analytical chemistry experience with TVMDL and is a member of the Association of Official Racing Chemists and the American Academy of Veterinary Pharmacology and Therapeutics.

2021 RegVet CE*
EDUCATIONAL PROGRAM

Registration details- rmtcnet.com/technical-resources/regvet-ce/

Date	Time	Topic	Description	Speaker Bio
4/27/2021	4:00-5:00 pm ET	Population surveillance and Intelligence gathering through strategic sampling in- and out-of competition	Dr. Rick Arthur will discuss intelligence gathering through review of treatment reports, reconciliation of treatment records with out of competition testint results, and discuss investigative strategies when the laboratory issues a report of finding. He will also provide guidance on investigating potential sources of exposure through environmental substances or unintended exposure through incidental contact with human medications or substances of abuse.	Dr. Arthur was appointed Equine Medical Director at the UC Davis School of Veterinary Medicine assigned to the California Horse Racing Board in 2006 following 30 years of private racetrack practice. He is a past president of the American Association of Equine Practitioners and has over 30 peer-reviewed publications or book chapters and numerous national and international presentations of equine racetrack practice, medication regulation and drug testing. He serves on the Grayson Jockey Club Research Advisory Committee, and the International Federation of Horseracing Authorities Welfare and Prohibited Substances and Practices Committees.
4/27/2021	5:00-6:00 pm ET	"Expanded" testing by your laboratory	Dr. Lynn Hovda will discuss strategies for applying non-typical, or expanded scope of testing to conduct population surveillance for emergence of new doping threats or in a targeted manner in response to specific intelligence. This discussion will focus on ehancing communications between the laboratory, the regulatory veterinarian, and the Stewards or Judges to identify expanded testing needs and what testing resources are available--not only for primary, but also split sample analysis.	Dr. Hovda has been Chief Commission Veterinarian for the Minnesota Racing Commission since 1994. She graduated from North Dakota State University with a degree in pharmacy, and the University of Minnesota with a degree in veterinary medicine. Dr. Hovda is a diplomate of the American College of Veterinary Internal Medicine. She is an adjunct Clinical Professor at the University of Minnesota College of Veterinary Medicine, where she teaches toxicology. She has co-authored numerous lay and scientific publications and book chapters, and edited toxicology sections in both small and large animal textbooks.
5/11/2021	4:00-5:00 pm ET	Unknowns, misbranded drugs, and mystery elixirs and unusual laboratory findings: Implications for racing integrity and horse health	Dr. Scollay will present results of analysis of unknowns, confiscated substances and discuss how the information can assist racing regulators. She will introduce information on novel substance detections from 2019 and 2020 by AORC laboratories. She will also discuss the collection and analysis of non-typical analyses (e.g.environmental samples, feed, supplements, nutraceuticals. Other issues to be discussed include: Recognizing unapproved substances in vehicle searches or barn inspections and the RMTC's program to fund analysis of unknown substances or label comparison of products of interest offers w/r/t anlysis--unknowns and label comparisons	Dr. Scollay, Executive Director and COO of the RMTC and former Equine Medical Director for the Kentucky Horse Racing Commission, is a member of the American Association of Equine Practitioners serving on its Racing Committee, Professional Conduct and Ethics Committee, Infectious Disease Committee. In 2020 she received the AAEP's Distinguished Service Award. She is a member of the International Group of Specialist Racing Veterinarians, the European Horseracing Scientific Liaison Committee, and the International Federation of Horseracing Authorities' Technical Advisory and Prohibited Substances Committees. She serves as veterinary consultant to the Jockey Club Equine Injury Database. She received her Doctor of Veterinary Medicine from the University of Illinois.
5/11/2021	5:00-6:00 pm ET	Emerging substances or practices of interest in human and equine sport	A moderated panel discussion on the similarities and differences on threats to safety and integrity in equine and human sport; the concept of participant welfare in the regulation of substances or medical practices and what obligations a regulator has to athletes and non-participants.	Panel Members: Dr. Schumacher has been involved with the United States Equestrian Federations Equine Drugs and Medications Program for the last 20 years, first as a testing technician and testing veterinarian, and since 2006 as the Chief Administrator of the Equine Drugs and Medications program. Dr. Schumacher has served as a member of the FEI Veterinary Committee, currently serves as a member of the FEI List Group. He was responsible for the Equine Drug Testing at the 2010 World Equestrian Games and was the Integrity Advisor for the 2018 World Equestrian Games; Dr. Schumacher received his Doctorate in Veterinary Medicine and PhD from The Ohio State University. Dr. Arthur (see above) , USADA representative (to be announced) , Moderator: Dr Scollay (see above).
5/25/2021	4:00-5:00 pm ET	Update on Federal Legislation	Mr. Alex Waldrop will present an overview of recently approved federal legislation, The Horseracing Integrity and Safety Act, and its potential impact on the activities of individual state racing regulatory authorities. To the extent possible he will provide updates on the Authority and Committee appointments or other relevant events and their impact on racing's stakeholder organizations.	Mr. Waldrop is President and CEO of the National Thoroughbred Racing Association (NTRA) with responsibility for matters including federal legislative advocacy, racing safety and integrity, marketing and promotion, and management of issues of national significance to Thoroughbred racing. He is Chairman of the Board of Directors of the RMTC, and serves on the American Horse Council. Mr. Waldrop is a former partner and Chair of Wyatt Tarrant & Combs' Equine, Gaming & Entertainment Practice Group. He served as President and GM of Churchill Downs from 1999 to 2002.
5/25/2021	5:00-6:00 pm ET	Medication Control Strategies in Human Sport	The US AntiDoping Agency (USADA) features prominently in the recently passed federal bill, The Horseracing Integrity and Safety Act. The protocols applied to medication control in human sport--including out of competition testing strategies, registration of athletes' locations, certification of supplements, and Therapeutic Use Exemptions for medication use represent differences from protocols applied in horse racing.	USADA representative (To be announced)

2021 RegVet CE*
EDUCATIONAL PROGRAM

Registration details- rmtcnet.com/technical-resources/regvet-ce/

Date	Time	Topic	Description	Speaker Bio
6/8/2021	4:00-5:00 pm ET	Administration Studies: Why we perform them, and what they tell us.	Dr. Heather Knych will describe the components of pharmacokinetic (absorption, distribution, metabolism and elimination) and pharmacodynamic administration studies including study horse(s) selection and horse management protocols to maximize relevance to the general population, drug dose and route of administration, sampling intervals and duration of sample collection, analytes targeted in analysis of blood/urine/hair samples. She will discuss the limitations of field studies, the pitfalls of assigning 'effect' or 'lack of effect' to a specific concentration, and the importance of identifying relevant metabolites for the control of a specific substance.	Dr. Knych is Professor of Clinical Veterinary Pharmacology and Head of the Pharmacology Section at the K.L. Maddy Equine Analytical Pharmacology Laboratory at the School of Veterinary Medicine, University of California Davis. Dr. Knych earned her DVM and PhD in Pharmacology and Toxicology from the University of California, Davis and followed this with a residency in Veterinary Pharmacology. She is a board certified Clinical Veterinary Pharmacologist with an extensive publication record in the areas of pharmacokinetics and pharmacodynamics of drugs in performance horses, with an emphasis on anti-inflammatories and analgesic agents and in equine drug metabolism and pharmacogenomics.
6/8/2021	5:00-5:30 pm ET	Establishing consistency: The Path Forward	Dr. Scott Stanley will discuss harmonizing the control of non-threshold substances through laboratory testing--domestically and internationally. He will present an expanded discussion of screening limits and the difference between screening limits and thresholds and the impact for regulators and laboratories.	Dr. Stanley (see above).
6/8/2021	5:30-6:00 pm ET	Updates to Model Rules and Uniform Classification of Foreign Substances	Dr. Mary Scollay will present an update on changes to the ARCI's Model Rules and its Uniform Classification of Foreign Substances, a discussion of proposals and considerations for breed-specific rules, and overview of independently enacted house rules relating to equine safety, medication and doping control, and racing integrity.	Dr. Scollay (see above).
6/22/2021	4:00-6:00 pm ET	Soundness assessment: Case videos	Dr. Will Farmer will moderate a discussion where participants review videos of horses in motion, consider patient histories, and render assessments for fitness to race, or requirements for expanded evaluation of racehorses demonstrating gait abnormalities. The goal of this exercise is to promote consistency in clinical assessment and determination of a horse's fitness to race, as well as establishing criteria for allowing a horse to regain eligibility to race after a diagnosis of injury or unsoundness.	Dr. Farmer is the Equine Medical Director for Churchill Downs, Inc. charged with promoting equine safety and welfare at all of CDI's racetrack holdings including Churchill Downs, Fairgrounds, Arlington Park, and Presque Isle Downs. Prior to joining CDI Dr. Farmer was the Chief Racing Veterinarian for the Kentucky Horse Racing Commission and an Official Veterinarian with the California Horse Racing Board. Since 2010, Dr. Farmer has been a member of the panel veterinarians for the Breeders' Cup Championships. In 2017, Dr. Farmer organized and implemented an international out-of-competition testing program for Breeders' Cup championship event.