

All times are listed in MDT	Wednesday, June 9			
8:00-8:50 am	KEYNOTE ADDRESS & WELCOME  Hacking Darwin: Genetic Engineering and the Future of Life  Jamie Metzl, PhD, JD  Sponsored by Hill's Pet Nutrition			
9:10-10:00 am	Education & Research Rethinking Intern and Resident Selection Processes: A Collaboration with the AAVMC Academic Affairs Committee N. Frank, L. Nelson Sponsored by VSPA  Business, Leadership & Communications Precision Medicine Meets the Future of Veterinary Care Jamie Metzl, PhD, JD		he Future of Veterinary Care	
10:00-10:30 am		BREAK - Virtual	Solutions Center	
	FAIM	Oncology	Cardiology	SAIM
10:30-11:20 am	Heat Stress and the Microbiome of Dairy Cows P. Adkins		Medical and Surgical Achievements in Veterinary Cardiology: The Works and Legacy of Dr. Jim Buchanan M. Oyama, M. Kraus, A. Gelzer, M. Sleeper	IMHA: Debates Arising from Recent Consensus Statements and Systematic Reviews A. Mackin
11:30 am-12:20 pm	Best Food Animal Articles in 2020 S. Depenbrock, M. Chigerwe	Controversial Oncologic Therapeutics: A Panel Discussion C. Johannes, P. Bergman, C. Clifford, K. Weishaar  Sponsored by Elanco Animal Health	Experiences in Physician Training and What They Might Mean for You J. McMillan, P. Barker	Serum TSH: An Essential Tool for Diagnosis and Monitoring of Thyroid Disease in Cats M. Peterson Sponsored by Zomedica
12:20-1:30 pm		BREAK - Virtual	Solutions Center	
1:30-2:20 pm	Case Presentations of Poisonous Plant Toxicosis S. Ensley	A Comparative Oncology Approach to Biomarker and Drug Discovery for Cancer Diagnosis and Treatment in Dogs and Humans A. Leblanc, G. Tawa	*Research Abstracts	Burden Transfer: Using Science to Prevent the Ripple Effects of Client Distress  M. Spitznagel
2:30-3:30 pm	Networking Opportunities  We recognize that within a virtual environment, networking opportunities look different. During this time we will be offering a variety of different ways to connect.			
3:30-4:00 pm	BREAK - Virtual Solutions Center			
	Equ	uine	SAIM	
4:00-5:00 pm	SIG: Equine Endocrinology F. Bertin, E. Norton Sponsored by Boehringer Ingelheim Animal Health		SIG: ISCAID Business Meeting and Update J. Dear, E. Barker	

*Cardiology Research Abstracts			
ACVIM Resident Research Award Eligible			
C01 - Percutaneous Left Atrial Decompression in the Cat: A Pilot Study J. Allen			
C02 - Pre-Procedural Femoral Vessel Ultrasound in Dogs with Patent Ductus Arteriosus: Diameter, Image Quality and Outcome S. Wesselowski			
C03 - Pre-Operative Use of Atenolol in Dogs with Pulmonic Stenosis Undergoing Interventional Procedures S. Gomart			
C04 - Optimizing Fluoroscopic Projections for Canine Pulmonary Valve Intervention as Determined by Electrocardiogram-Gated Cardiac Computed Tomography I-J. Chi			



All times are listed in MDT	Thursday, June 10				
		Equine	SAIM		
8:00-8:50 am	Workshop: Diagnostic Test Selection and Interpretation: Not All B. Burgess, P. Morley	Test Results are Equal	The Impact of COVID-19 on Veterinary Medicine J.S. Weese		
9:00-9:50 am			SARS-CoV-2 in Companion Animals S. Hamer		
9:50-10:30 am		BREAK - Virtual Solu	tions Center		
		LAIM		SAIM	
10:30-11:20 am	Consensus Statement: Equine Herpesvirus-1 P. Lunn, B. Burgess, L. Goehring, G. Hussey, K. Osterrieder, N	. Pusterla, D. Dorman	Therapeutic Targetting of Intestinal Dysbiosis in Diarrheal Dise K. Simpson	ases	
	FAIM	Oncology	Cardiology	Technician	
11:30 am-12:20 pm	Antimicrobial Susceptibility Testing: Thinking Beyond S/I/R A. Kreuder	Compounding Pharmacies for Chemotherapy Agents P. Bergman Sponsored by ImpriMed	*Research Abstracts	Neurology: Diagnostic Testing and Medical Management of Feline Seizures A. Partnow Sponsored by Hill's Pet Nutrition	
12:20-1:30 pm		BREAK - Virtual Solu	tions Center	•	
1:30-2:20 pm	Pain in Large Animals: Clinical Management K. Mama	Stereotactic Radiation Therapy: Making Evidence Based Decisions G. Mauldin Sponsored by PetCure Oncology	New Insights Into MMVD and Heart Failure M. Oyama Sponsored by Ceva Animal Health	SAIM: Anesthesia for E-tubes and Endoscopes: A Balanced Approach C. Kilpatrick Sponsored by Hill's Pet Nutrition	
2:30-3:20 pm	Bovine Leptospirosis: Endemic, Emerging or Re-emerging J. Nally	*Research Abstracts	Diet-associated DCM: Latest Research and Hypotheses L. Freeman	SAIM: Nutritional Management of Hyperlipidemia in Dogs and Cats K. Burns Sponsored by Hill's Pet Nutrition	
3:20-4:00 pm	BREAK - Virtual Solutions Center				
	FAIM	Multispecia	lty	Multispecialty	
4:00-5:00 pm	SIG: Food Animal Internal Medicine (FAIM) C. Luby	SIG: VCCIS - Immune Thrombocytopenia in People: A Translational Perspective J. Bussel Sponsored by Boehringer Ingelheim Animal Health		SIG: SCE Business Meeting P. Lathan, C. Ward, C. Gilor Sponsored by Merck Animal Health	

	*Cardiology Research Abstracts	
*Oncology Research Abstracts	ACVIM Resident Research Award Eligible	
O01 - Canine Cancer Mutations Homologous to Human Hotspots: Precision Medicine Opportunity L. Rodrigues Sponsored by FidoCure	C05 - High-Sensitivity and Point-of-Care Cardiac Troponin I in Apparently Healthy Boxers with and without Ventricular Arrhythmia D. Agarwal	
O02 - Characterization of Tumor-Derived Genomic Alterations and Heterogeneity in Dogs with Cancer by Noninvasive Liquid Biopsy A. Flory Sponsored by Tri-Source Animal Health	C06 - New Bipolar Electrocardiographic Lead Configurations for Specific Evaluation of Atrial Depolarization in Dogs K. Kurogochi	
O03 - L-CHOP in Combination with Monoclonal Antibody (AT-005, Tactress) for Naïve Canine Intermediate/High-Grade, Peripheral T-Cell Lymphoma M. Musser	C07 - Regurgitant Fraction in Dogs with Mitral Regurgitation: Method Comparison, Effects of Pimobendan, and Reproducibility L. Visser	
O04 - Procoagulant Platelet Microparticles Associate with Regional Metastatic Cancer in Dogs N. Jacobsen Sponsored by Tri-Source Animal Health	C08 - Comparison of Echocardiographic Measurements and Cardiac Biomarkers in Healthy Dogs Eating Non-Traditional or Traditional Diets  E. Owens	



All times are listed in MDT	Friday, June 11			
8:00-8:50 am	Equine  Dynamic Upper Airway Dysfunction: Video Analysis and Multimodal Approach F. ter Woort, E. van Erck Westergren	Education & Research Resident Selection: A Discussion of Best Practices A. Cook Sponsored by VSPA		SAIM  Hemostatic Hurdles: An Internist and Criticalist's Approach to the Bleeding Patient  D. LeVine, R. Goggs
9:00-9:50 am		Wellbeing Practicing Authentic Confidence J. Jacobson Sponsored by Hill's Pet Nutrition		
9:50-10:30 am		BREAK - Virtual Solu	tions Center	
10:30-11:20 am		Business, Leadership & Communications Embracing Change and Personal Innovation M. Cary Sponsored by Hill's Pet Nutrition		
	Equine	Neurology	Technician	SAIM
11:30 am-12:20 pm	*Research Abstracts	Clinical Implications of Validating Canine Glioma as a Model for Human Glioma R. José-López	Oncology: PPE Shortages in a Global Pandemic D. DeCormier Sponsored by Hill's Pet Nutrition	Feline Cholelithiasis: Asymptomatic & Symptomatic S. Center
12:20-1:30 pm		BREAK - Virtual Solu	tions Center	
1:30-2:20 pm	Neuromuscular Rehabilitation in Horses With Upper Airway Dynamic Obstruction E. van Erck Westergren	Antisense and mRNA-based Therapies in Canine Degenerative Myelopathy J. Coates, N. Olby	Cardiology: The Coughing Dog: Heart or Lungs? Y. Martinez Pereira Sponsored by Hill's Pet Nutrition	Feline Suppurative Cholangitis/Cholangiohepatitis S. Center
2:30-3:20 pm	Interesting LAIM Papers from the Year C. Sanchez	Myelopathy	SAIM: Helping Owners With Assessing Quality of Life M. Gardner Sponsored by Hill's Pet Nutrition	Assessing Quality of Life in Dogs and Cats S. Robertson Sponsored by Elanco Animal Health
3:20-4:00 pm	BREAK - Virtual Solutions Center			
	Equine	Equine /	Cardiology	SAIM
4:00-5:00 pm	SIG: Equine Emerging and Re-Emerging Diseases: Infectious Disease Updates and Technology for Track and Trace N. Pusterla, K. Corley Sponsored by Merck Animal Health	R. Buhl, G. van Loon	Resuscitating 12 leads ECGs in Horses  Antech Sound Imaging	SIG: Liver Study Group - Small Animal Hepatobiliary Case Discussion C. Leveille-Webster, A. Johnston Sponsored by Nutramax

*Equine Research Abstracts			
ACVIM Resident Research Award Eligible			
E07 - The Insulin-Modified Frequently Sampled Intravenous Glucose Tolerance Test in Healthy Neonatal Foals and Horses			
H. Kinsella 💽			
E31 - Syndecan-1 as a Biomarker of Endothelial Glycocalx Shedding in Adult Horses with Sepsis			
K. Hobbs			
E41 - Comparison of Cerebrospinal Fluid Between Three Collection Sites in Adult Equids with Neurologic Disease			
K. Young			
E48 - Survival Proportions and Risk Factors for Non-Survival in Hospitalized Foals from Ontario, Canada			
S. Bedford 💽			



All times are listed in MDT		Saturday, June 12	
8:00-8:50 am	Business, Leadership & Communications IMPROVe your Conversations for Success D. Stoewen		A Case-based Interactive Session from the Viewpoint of Two Specialists ACVIM & ACVP C. Thompson, J. Veir
9:00-9:50 am	Education & Research  Development of 3D Interactive Anatomical Models From Cadaver CT Contrast Studies  S. Echols, J. Brown, S. Birch		
9:50-10:30 am		BREAK	
10:30-11:20 am	Wellbeing Want to Manage Your Stress? Try This Instead! M. Murray		
	Equine	Neurology	SAIM
11:30 am-12:20 pm			Correcting Scientific Misinformation About Pet Food S. Dru Forrester, J. Larsen Sponsored by Zomedica
12:20-1:30 pm		BREAK	
1:30-2:20 pm	M. McCue	SOTA: New Therapies for Glioma: Targeted Agents & Immunotherapy K. Drummond Sponsored by Tri-Source Animal Health	Troubleshooting the Obstructed SUB M. Dunn
2:30-3:20 pm		Candidate Function: Electrodiagnostics D. Williams	Getting the Most From Your Antimicrobial Susceptibility Data S. Lawhon
3:20-4:00 pm	BREAK		
	Equine	Multispecialty	SAIM
4:00-5:00 pm	S. Witonsky	L. Merrill	SIG: AVHTM: Hematology Potpourri - An Interactive Discussion U. Giger, S. Musulin, A. Hale, B. Davidow, J. Thomason, A. Odunayo Sponsored by Alvedia & Fresenius

*Equine Research Reports
E01 - Cardiac Arrhythmias in 75 Horses Competing in the Cross-Country Phase of Equine Eventing M. Durando
E53 - Inhaled Corticosteroids Influence Pulmonary Microbiome in Severe Equine Asthma
E. Manguin
Sponsored by Boehringer Inglelheim Animal Health
E30 - Investigation of Serum Markers of Hepatic Fibrosis in Horses
J. Potier
E49 - Pharmacokinetics and Antipyretic Efficacy of Acetaminophen in Adult Horses with Experimentally Induced Endotoxemia  M. Mercer
IW. MICHOGI

#### Research Abstract Oral Presentations - On Demand Schedule (SCHEDULE SUBJECT TO CHANGE)

Specialty	Title	Presenter(s)	ACVIM Resident Research Award Eligible	Sponsor
Cardiology	C09 - The Renin-Angiotensin-System Fingerprint® in Healthy Dogs and Dogs with Subclinical Myxomatous Mitral Valve Disease	H. Hammond	✓,	
	C10 - Ambulatory Electrocardiography, Heart Rate Variability, and Pharmacologic Stress Testing in Cats with Subclinical Hypertrophic Cardiomyopathy C11 - Long-Term Outcomes Following Transmembrane Stent Placement for Cor Triatriatum Dexter in 6 Dogs	A. Walker K. Morgan	<b>∀</b> .⁄	
	E08 - Evaluation of an HMGA2 Variant Contribution to Height and Insulin in a Population of Ponies	B. Clark	· /	
	E09 - Cortisol and Adrenocorticotropin (ACTH) Response to Corticotropin-Releasing-Hormone (CRH) Stimulation Tests in Healthy and Hospitalized Foals	K. Johnson	<b>,</b>	
	E10 - Comparison of Proxies of Insulin Sensitivity and Insulin Secretion Between Foals and Adult Horses	H. Kinsella	✓	
Equine	E26 - Immune Cell Population in the Duodenal Mucosal in Asthmatic Horses	C. Loubière	✓	Boehringer Inglelheim Animal Health
	E42 - Magnetic Resonance Imaging of the Normal Equine Pituitary Gland	K. Hobbs	✓	
	E45 - The Comparison of Two Glucose Monitoring Systems for Use in Horses	C. Malik	✓	
	E60 - Effects of Soaked Hay on Lung Function and Inflammation in Horses with Severe Asthma	R. Westerfeld	✓	Boehringer Inglelheim Animal Health
FAIM	F03 - Agglutination and Hemolytic Crossmatches to Determine Transfusion Reaction Differences Between Large and Small Breed Goats	C. Kretsch	✓	
174111	F08 - Serum Haptoglobin Concentrations in Sick Calves	C. Jaramillo	✓	
	N01 - Drug-Drug Interaction Between Cannabidiol and Phenobarbital in Healthy Dogs	C. Doran	✓	
Neurology	N02 - Handheld Raman Spectroscopy for Intraoperative Differentiation of Normal Brain Tissue from Neoplasia in Canine Patients	C. Doran		
	N03 - A Retrospective Evaluation of the Efficacy of Zonisamide in Controlling Seizures in 59 Cats	D. Djani	<b>√</b>	
	N05 - Cervical Locked Facet Injuries in the Dog: Neurologic Signs, Advanced Imaging Findings, Treatment, and Outcomes	C. Woelfel	<b>→</b>	
Oncology	005 - Canine Hepatobiliary Neuroendocrine Neoplasia: An Immunohistochemical and Proteomic Study	E. Sasaki		
SAIM – Gastroenterology	GI01 - Evaluation of Serum Zonulin in Canine Chronic Enteropathies	N. Dinesh	<b>√</b>	
	GI02 - DECiSION Study: Does Endoscopy Change Clinicians' Supportive Interventions Or Not?	M. Chen	✓	
	HM01 - Novel Cold Storage Method Using Platelet Additive Solution to Prolong Storage of Canine Platelet Concentrates	A. Arjoonsingh	<b>√</b>	
0.000	HM02 - Characterization of Post-Transfusional Anti-FEA 1 Alloantibodies in Transfusion-Naive FEA 1 Negative Cats	A. Cannavino	<b>√</b>	
SAIM – Hematology	HM03 - Anticoagulant Effects of Rivaroxaban, Prednisone, Alone and in Combination, in Healthy Dogs	P. Hafner	<b>∀</b>	
	HM04 - The Utility of Thoracic and Abdominal Imaging in Canine Immune-Mediated Hemolytic Anemia HM05 - Validation of the Use of Bedside Agglutination Card for Dal Blood Typing in Dogs	S. Skinner E. Véran	<b>,</b>	
OAIM Lours days		P. Cerna	,	
SAIM - Immunology	IM01 - Antiviral Immune Responses and In Vitro Suppression of FIPV Replication by Novel Liposome-TLR Immune Therapeutic		*	
	NU01 - Diagnostic Yield of Cystoscopy Compared to Ultrasonography for Evaluating Lower Urinary Tract Disorders in Dogs	E. Hsieh	<b>∀</b>	
SAIM - Nephrology/Urology	NU02 - Prophylactic Use of Tetrasodium EDTA in 95 Subcutaneous Ureteral Bypass Devices in 66 Cats  NU03 - Urine Bacterial Culture Growth and Association with Clinical Findings in Cats with Acute Kidney Injury	M. Milligan K. Siu	<b>*</b>	
	NU04 - Reliability of Crit-Line® Monitors in Predicting Hematocrit and Change in Blood Volume During Canine Hemodialysis	W. Vickery	, ,	
SAIM – Pharmacology	P01 - Influence of Feeding on IL-2 Expression and Peak Blood Concentration in Dogs Administered Oral Cyclosporine	M. Pan		
SAIW - Friarmacology	1 01 - Innucrice of Feeling of It-2 Expression and Feak blood Concentration if Dogs Administered Oral Cyclosponite	IVI. I CII		

#### Technician Program - On Demand Session Schedule (SCHEDULE SUBJECT TO CHANGE)

Specialty	Title	Presenter(s)	Sponsor
Cardiology	Anesthesia in Dog & Cats with Cardiac Disease Antiarrhythmic Agents: How They Work and When to Use Them Pericardial Effusion Pathophysiology and Clinical Presentation Recent Advances in Arrhythmia Diagnosis and Management	K. Hohnadel K. McConnell J. Chandlr R. Pariaut	Hill's Pet Nutrition Hill's Pet Nutrition Hill's Pet Nutrition Hill's Pet Nutrition
Equine	Managing Down Horses Myths and Misperceptions in Equine Nutrition	K. McCormick K. Burns	Hill's Pet Nutrition Hill's Pet Nutrition
FAIM	Anemia in Small Ruminants and Camelids	J. Sexton	Hill's Pet Nutrition
Multispecialty	Client Communication Tips for the Veterinary Technician Industry Session: My Patient Won't Take Their Medications – Now What? Compounded Medication Options for Non-compliant Patients: Case Overviews	J. Porter B. Morgan	Hill's Pet Nutrition Best Pet Rx
Neurology	Care of the Recumbent Patient Infectious/Inflammatory Disease of the Brain Managing the Bladder in Neurological Patients Neuromuscular Disease: A Case-based Approach to Care	C. Servies M. Sroufe Z. Hatfield S. Gilliam	Hill's Pet Nutrition Hill's Pet Nutrition Hill's Pet Nutrition Hill's Pet Nutrition
Oncology	A Review of Histiocytic Diseases in Dogs and Cats Ethical Issues in Veterinary Oncology Imaging in Oncology Metronomic Chemotherapy	H. Leeper J. Intile B. Quesnell K. Curran	Hill's Pet Nutrition Hill's Pet Nutrition Hill's Pet Nutrition Hill's Pet Nutrition
Nutrition	Chronic Kidney Disease: Current Recommendations for Nutritional Management  Diet and DCM in Dogs	E. Carlson A. Wortinger	Hill's Pet Nutrition Hill's Pet Nutrition
SAIM	Angiotensin Receptor Blockers in Chronic Kidney Disease Detection of Tick-borne Illness: Diagnostics Beyond the 4DX How to Administer a Fecal Microbiota Transfer Indications, Placements and Aftercare of Ureteral Stents and SUBS Nursing Care for the Critical Patient: A Veterinary Technicians' Role Small Animal Thoracic Radiology: How, Why, When	L. van Vertloo J. Wilson-Hess D. Kingsbury T. Allen J. Porter A. Hespel	Hill's Pet Nutrition
TECHNICIAN CASE REPORTS			
Cardiology	Technician Case Report: Peritoneal-pericardial Diaphragmatic Hernia with an Atypical Cor Triatriatum Dexter in a Young Cat	K. McLaughlin	Hill's Pet Nutrition
Oncology	Technician Case Report: Multiple Cancer Diagnoses - Multiple Modality Treatments	J. Jova	Hill's Pet Nutrition
Nutrition	Technician Case Report: Nutritional Management in the Obese Canine with Concurrent Physical Rehabilitation	S. Verton-Shaw	Hill's Pet Nutrition
SAIM	Technician Case Report: A Case of Chronic Feline Cryptococcosis Technician Case Report: Stem Cell Therapy: Bringing Relief to Chronic Disease	I. Greene E. Shibe	Hill's Pet Nutrition Hill's Pet Nutrition

Specialty Title	Presenter(s)	Sponsor
CARDIOLOGY		
3D Electroanatomic Mapping and Ablation of VT in Boxers with ARVC	A. Gelzer	
Accuracy of Predicting a DCM Diagnosis Without an Echocardiogram in Large Breed Dogs	S. Wesselowski	
Advanced Respiratory Techniques for Treating CHF: Hi-VNI and Mechanical Ventilation	A. Blong	
Cardiac MRI in Veterinary Medicine: Getting Started and Looking Forward	R. Winter; R. Fries	
Comprehensive Renin-Angiotensin-System Profiles: Interpretation And Future Applications	M. Ames	Ceva Animal Health
Effect of Rapamycin on Aging in the Cardiovascular System: Dog Aging Project Substudy	S. Gordon	
Effects of Cardiovascular Disease and its Pharmacotherapy on the RAAS in Cats	J. Ward; J. Mochel	Ceva Animal Health
Gene Therapy for the Treatment of Dogs With Heart Disease	M. Sleeper, S. Gordon	AKC Canine Health Foundation
Knowledge Corner: Experience Ultra, with Case Studies	M. Griffith	Antech Sound Imaging
Optimizing Interventional Inventory in the Catheterization Laboratory	L. Markovic	
Recent Developments in Heartworm Disease	C. Atkins	Ceva Animal Health
Repair of the Myxomatous Mitral Valve: Case Selection and Surgical Technique	P. Bristow, A. Kurosawa	
The Role of Point of Care Ultrasound in Respiratory Distress	T. DeFrancesco	
Trimethylamine-N-oxide (TMAO) and its Potential Implications in Canine Cardiovascular Disease	S. Cavanaugh	
QUINE		
Assessing Renal Function and Renal Injury in Horses: What Are Our Choices?	H. Schott	
Assessment and Use of the VCM Vet <sup>TM</sup> Point of Care Viscoelastic Coagulation Monitoring System in the Horse	P. Wilkins	
Biosecurity: Lessons from WW1	A. Burton	
Neurolocalization and the Differentials it Suggests, Straight from the Horses' Mouth	A. Woolridge, T. Jukier	
NSAID-induced Gastrointestinal Damage: Pathophysiology and Treatment	H. Banse	
The Crossroads Between PPID and Laminitis	D. McFarlane	
Treating Equine Gastric Disease: Are We Entering a New Era?	D. Rendle	
Upper Airway Issues in Sport Horses With Lower Airway Disease: Prevalence, Link and Plan	F. ter Woort	
When Diet and Exercise Are Not Enough: Medical Treatments for Insulin Dysregulation	N. Frank	
Why Renal Physiology Matters: Clinical Consequences	H. Schott	
ACVCP-AAVPT (EQUINE)		
Overview of Drug Testing and Medication Monitoring in Performance Horses	H. Knych	
Pharmacology of Commonly Used Therapeutics in Performance Horses	H. Knych	
/CRS (EQUINE)		
Babies Vs. Foals: Case-based: Antenatal Lung Development	R. Nolen-Walston	
Babies Vs. Foals: Case-based: Postnatal Lung Development	R. Nolen-Walston	
NGAL as a Potential Biomarker for Equine Asthma	S. Hansen	

Specialty	Title	Presenter(s)	Sponsor
FAIM			
	A Novel Concept to Reduce Antimicrobial Use and Improve Health and Welfare in Veal Calves	M. Meylan	
	How to Make a Definitive Diagnosis of Poisonous Plants Toxicosis in Food Animals	S. Ensley	
	Mastitis Control in the UK	P. Down	
	Optimizing Passive Immunity in Beef Calves	L. Gamsjaeger	
	Prevention Of Bovine Respiratory Disease (BRD) Through Vaccination	M. Chamorro	
	Recent Developments In Ruminant Pharmacology	J. Smith	
	Sinusitis in Beef Cattle	K. Simpson, R. Streeter	
	The Influence of Vitamin D on Non-skeletal Health and Breeding Outcomes in Ruminants	R. Mellanby	
	The Remaining Knowledge Gaps on Paratuberculosis	M. Fecteau	
	Urolithiasis In Goats And Sheep	M. Chigerwe	
AAVN-ACV	I (FAIM)		
	A New Look at Hepatic Fetal-Maternal Mineral Assessment	R. Van Saun	
	Fourier-transform Mid-infrared (FTIR) Analysis of Milk for Nutrition and Health Management	D. Barbano	
	Impact of Oxidative Stress on Calves' Immunity	A. Abuelo	
	Milk FTIR Analysis and Its Association With Dairy Cattle Health and Production	K. Bach	
MULTISPEC	IALTY		
	Industry Session: Advancing Diagnostic Options for Chronic Enteropathies in Dogs	J. Johnson	Antech Sound Imaging
	Industry Session: An Internist's Perspective on Anti-NGF	J. Slovak	Zoetis
	Industry Session: Clinical Experiences with ELIAS Cancer Immunotherapy (ECI®)	N. Reyes, J. Bryan, B. Flesner, Z. Wright	ELIAS Animal Health
	Industry Session: Metabolic Reprogramming and Nutrition Intervention in Canine Myxomatous Mitral Valve Disease	J. Li	Purina Institute
	Knowledge Corner: See Your Practice Through Cats Eyes	A. Litster	Zoetis
BUSINESS,	LEADERSHIP & COMMUNICATIONS (MULTISPECIALTY)		
	Communication Tools For Clients And Coworkers	L. Garrett	
	Organized Veterinary Medicine: Why Should I Be Involved? In An Organization Constructed From Lego Bricks, What Piece Would I Be?	D. Kratt	
	Preserving The Bond: What Matters Most To Pet Families When Making A Referral Recommendation? Results From The Latest Collaborative Care Coalition Survey Of Clients Whose Pets Have Been Touched By Cancer	J. Stewart	
	Prioritizing Prioritization	M. Cary	
	The Financial Workings of Internal Medicine	D. Osborne	
	Ways To Use and Improve Nonverbal Communication	L. Garrett	

Specialty	Title	Presenter(s)	Sponsor	
EBVMA (MI	EBVMA (MULTISPECIALTY)			
	Evidence-based Veterinary Medicine: Promises, Pitfalls and Potential	J. Lindenmayer	Zomedica	
	Clinical Applications of Evidence-based Veterinary Medicine	J. Lindenmayer	Zomedica	
EDUCATIO	EDUCATION & RESEARCH (MULTISPECIALTY)			
	Tensions Between Clinical Education and Hospital Operations in Teaching Hospitals	E. Meler		
	Translational Research Training for Veterinary Specialists	L. Trepanier		
	Who We're Choosing, or Who's Choosing Us: Conflicting Residency Trends Across Specialties	S. Morello, J. Genovese	VSPA	
WELLBEIN	G (MULTISPECIALTY)			
	Medical Meaning Making in Grief	R. Wright		
	The One Thing you Didn't Learn in Vet School: How to Feel Better	J. Squires		
	Uncovering the Source of Your Inner Power	M. Murray		
<b>NEUROLO</b>	NEUROLOGY			
	An Introduction to Pedicle Screw Fixation in the Canine Spine	R. Bergman	Neuromed	
	Biomechanics and Methods of Cervical Spinal Fusion	R. Bergman	Neuromed	
	In-clinic Cerebrospinal Fluid Analysis with an Automated Hematology Analyzer	H. Brown	IDEXX	
	Kyphoscoliosis: Clinical Decision Making, Surgical And Medical Management	T. Harcourt-Brown		
	Latest Advances in Neuropathic Pain in Companion Animals	H. Ruel		
	Lysosomal Storage Disease: Not a Rare Diagnosis	D. O'Brien		
	Neuropathology: Candidate Review	J. Kornegay		
	Personalized Medicine in Neuro-Oncology	P. Dickinson		
	Practice and Principles of Neuroanesthesia for Imaging and Neurosurgery	C. Natalini	Hallmarq Veterinary Imaging	
	Seizure Disorders: Updating the Terminology and Dealing with the Tricky Cases	S. Long		
	SOTA: Identifying the Molecular Genetic Causes of Hereditary Neurological Disorders in Dogs and Domestic Cats	D. O'Brien		
	The Gait Game	F. Wininger		
	The Role of Early Imaging in Transsphenoidal Hypophysectomy	T. Owen, A. Chen-Allen, L. Martin		
	Thoracolumbar Myelopathies for the Generalist	F. Wininger		

Specialty	Title	Presenter(s)	Sponsor		
ONCOLOG	ONCOLOGY				
	Autologous Cancer Vaccines	M. Lucroy			
	A Comparative Oncology Approach to Biomarker and Drug Discovery for Cancer Diagnosis and Treatment in Dogs and Humans	A. Leblanc; G. Tawa			
	Delivering Molecular Medicine to Hemangiosarcoma	C. Khanna			
	Interventional Endoscopic Cytoreduction of Nasal Tumors	G. Oechtering			
	Knowledge Corner: Laverdia CA-1, a New Drug for Canine Lymphoma	C. Clifford	Anivive		
	Optimizing eBAT for Treatment of Canine Hemangiosarcoma	A. Borgatti			
	The CXCL-8 Pathway and Downstream Effectors in Feline Oral Squamous Cell Carcinoma	C. Souza			
	The Science Behind High-Dose Intravenous Vitamin C in Cancer	M. Musser			
	Tumor Ablation and Immune System Interplay: A Developing Immunotherapeutic Strategy	N. Dervisis	Tri-Source Animal Health		
	Update on Diagnosis, Treatment and Prognosis of Liver Tumors in Dogs and Cats	C. Souza			
	Urinary Tract Complications of Cancer and Chemotherapy	K. Skorupski	Nutramax		
	Utility of Serial Plasma Nucleosomes Concentrations for Monitoring Treatment Response and Disease Progression in Canine Lymphoma Patie	ents H. Wilson-Robles			
	Validation for Research Studies	M. Hauck			
SAIM					
	A Distressing Situation: Tricks for Stabilizing the Respiratory Patient	A. Blong			
	Advanced Imaging of the Pancreas	A. Marolf			
	Advances in Diagnostics and Therapeutics in Aspiration Pneumonia	A. Vientos-Plotts, C. Reinero			
	Basic Life Support Technique and Prognosis	A. Blong			
	Bronchial stenting in Dogs: Indications and Technique	E. de Madron	Infiniti Medical LLC		
	Brucella in Humans and Dogs	J. S. Weese			
	Clinical Epidemiology: Advanced Medical Literature Interpretation	C. Brookshire, K. Woodruff	Zomedica		
	Clinical Epidemiology: Survival Analyses	C. Brookshire, K. Woodruff			
	CPR Advanced Life Support: Post Cardiac Arrest Care	A. Blong			
	Dosing and Delivery of IsoVue 370	S. Echols, N. Kirk			
	Electrolyte Monitoring in Hospitalized Patients	L. Rahilly			
	Emerging Biomarkers in Chronic Kidney Disease	R. Mack-Gertig	IDEXX		
	Everything you Need to Know to Use Capsule Endoscopy in Dogs	A. Defarges	Infiniti Medical LLC		
	Gastrointestinal Manifestation of Severe SARS-CoV-2 Infection in an Immunocompromised Dog	E. Lennon			
	Glucose Counter-Regulation: Clinical Consequences of Impaired Sympathetic Responses in Diabetic Dogs	C. Gilor	Zomedica		
	How Comparative Cancer Genomics Impacts Clinical Care	E. Karlsson	FidoCure		
	Improving the Outcome in Patients with IMHA and PTE	J. Thomason			

pecialty Title	Presenter(s)	Sponsor
NIM continued		
Industry Session: Clinical Application of Bulk Acoustic Wave Biosensor Technology	A. Cook, A. Wood	Zomedica
Industry Session: Don't Wait for Weight Loss: Managing Weight Loss in Cats with Chronic Kidney Disease	A. Cook	Elanco Animal Health
Industry Session: New Options for Canine Lymphoma	C. Johannes	Elanco Animal Health
Industry Session: One Simple Solution Feeding Dogs with Food and Environmental Allergies	J. MacLeay	Hill's Pet Nutrition
Interventional Management of Tracheal Collapse Veterinary Medicine	A. Berent, C. Weisse	Infiniti Medical LLC
Interventional Management Urethral Obstructions in Veterinary Medicine	A. Berent, C. Weisse	Infiniti Medical LLC
Knowledge Corner: Mononuclear Cell Collection in Dogs- Methods, Safety, and Results	J. Foster	ELIAS Animal Health
Lower GI Endoscopy: Indications and Techniques	A. Jergens	
Metabolic Consequences of Cholestasis in Cats	C. Leveille-Webster	
New Viruses in Canine Gastroenteritis	S. Caddy	
Ophthalmic Manifestations of Endocrine Disease	A. Specht	
Ophthalmic Manifestations of Infectious Disease	A. Specht	
SOTA: Optimization of Ureteral Jet Detection Using Ultrasound	G. Seiler	
SOTA: Using Contrast Enhanced, Elastography and Quantitative Ultrasound in Cats With CKD	G. Seiler	
Understanding and Reducing Caregiver Burden in the Veterinary Client	M. Spitznagel	
Understanding the Relationship Between Dental Disease and Renal Function in Dogs/Cats	J. Hall	Dechra
Upper GI Endoscopy: Indications and Techniques	A. Jergens	
AVN-ACVN (SAIM)		
Assessing the Impact of High Dietary Phosphorus Intake on Renal Health of Adult Cats	J. Stockman	Royal Canin
Diet-associated DCM: Frequently-asked Questions	L. Freeman	
How We Have to Manage Basal Ingredients in Today's New Foods	G. Aldrich	
Implications of Diet as a Contributing Factor to Canine Dilated Cardiomyopathy	G. Aldrich	
BVP (SAIM)		
Hyperadrenocorticism and Hyperaldosteronism in Cats	P. Lathan	Dechra
Nutritional Management Strategies for Challenging GI Cases	C. Torres-Henderson	
Nutritional Support for the Hospitalized Patient	C. Torres-Henderson	
Real World Management of Feline Diabetics	R. Rucinsky	
CVCP-AAVPT (SAIM)		
Antimicrobial Stewardship in Practice	E. Frey	
Controversies in Antimicrobial Therapy	D. Boothe	Dechra
The Impact of Antimicrobials on Microbiota	D. Boothe	Dechra
Common Questions about Antimicrobials	M. Clark	Dechra

Specialty	Title	Presenter(s)	Sponsor	
ASVCP (SAIM)				
	Flow Cytometric Detection of Anti-RBC Antibodies	N. Springer	Zomedica	
	Implications of Using Biological Variation and Population-based Reference Intervals	A. Moore	Zomedica	
	MicroRNA as Cancer Biomarkers	E. Fish	Zomedica	
	Utility of Flow Cytometry in Diagnosing Lymphoma and Leukemia	T. Meichner	ImpriMed	
ASVNU (SA	IM)			
	New Insights in Biomarkers of Urinary Diseases	G. Segev	Hill's Pet Nutrition	
	Pathology of Age-related Changes in Dog and Cat Kidneys: Maldevelopment to Senescence	R. Cianciolo	Hill's Pet Nutrition	
	Proteomics in Acute and Chronic Kidney Injury	L. Pelander	Hill's Pet Nutrition	
	Renal Senescence: Potential Therapeutic Target?	J. Quimby	Hill's Pet Nutrition	
AVHTM (SA	IM)			
	Controversies and Updates on Immunodiagnostics of IMHA	U. Giger		
	Defining Transfusion Reactions: A First Report from the AVHTM Consensus Working Group	J. Thomason		
	Feline Blood Typing 101	M. Blais		
	Novel Transfusion Products	S. Musulin		
CAPC (SAIM)				
	Fecal Diagnostics With New Information on Fecal AI Technology	L. Starkey		
	How Changing Tick-borne Disease Prevalence Affects Diagnostic Testing	L. Kidd		
	Non-morphologic Diagnosis of Intestinal Parasites	D. Bowman		
CGS & LIVE	R (SAIM)			
	Assessing When the Microbiome Needs to be Manipulated	C. Mansfield	Hill's Pet Nutrition	
	Biomarkers of Hepatic Fibrosis and Oxidative Stress in Veterinary Medicine	J. Lidbury	Nutramax	
	Hepatobiliary Biomarkers: A Coagulation Prospective	C. Leveille-Webster		
	How Pancreatitis Research in Animals and Animal Models Guides Clinical Practice	J. Steiner	Nutramax	
	Modulating the Microbiome: Fecal Microbiota Transplantation	J. Winston	Hill's Pet Nutrition	
	Serum Makers of Autoimmunity in Canine Chronic Hepatitis	N. Bexfield		
	The Role of Fatty Acids in the Pathogenesis of Pancreatitis	V. Singh		
	The Role of MicroRNAs as Biomarkers in Canine Liver Disease	R. Mellanby		

Specialty	Title	Presenter(s)	Sponsor
ISCAID (SA	M)		
	Antibiotic Stewardship: An Epidemiologist's Perspective	C. Brookshire	AVO 0 : 11 HI F 1 H
	Flea Borne Bartonellosis: From Sudden Death to Cancer Infectious Disease Screening for Dogs with IMHA	E. Breitschwerdt L. Kidd	AKC Canine Health Foundation
	Leptospirosis in Cats	K. Hartmann	
	Risk of Companion Animal to Human Transmission of Antimicrobial Resistance	C. Pomba	
SCE (SAIM)			
	Clinical and Computed Tomographic Features of Aldosterone Producing Tumors in Cats	C. Souza	Zomedica
	Hyperaldosteronism in People: Pathophysiology, Diagnosis and Treatment	A. Gal	Zomedica
	Hypothyroidism and Myxedema Coma in Veterinary and Human Medicine	C. Ward; P. Lathan, A. Chadwick	Zomedica
	The Effect of Exercise on Diabetes Mellitus in Humans and Animals	A. Bugbee	Zomedica
VCRS (SAIN	1)		
	Canine Pulmonary Fibrosis	B. Corcoran	
	High Flow Oxygen	T. Jagodich	
	Laryngeal Stenting/Tracheal Collapse Registry	E. Rozanski, D. Clarke	
	Tracheal Malformations in Small Dogs	D. Clarke	
VECCS (SA	M)		
	Acupuncture for the ICU Patient	J. Good	
	How Can Internists and Criticalists Work Together?	E. Rozanski	
	Gastric Acid Suppression in ICU	A. Odunayo	
	Neutrophil Extracellular Trap and Sepsis	R. H. L. Li	
	Placement and Maintenance of Central Venous Catheters	A. Odunayo	
	Platelets Function	R. H. L. Li	
	Respiratory Myths That May Be Confusing	E. Rozanski	