

# 2023 AVMA CONVENTION PROGRAM





# KEYNOTE

## REACHING NEW HEIGHTS WITH MARIANA ATENCIO

**SATURDAY, JULY 15**  
**10:00 AM (Doors open at 9:45 AM)**  
**BELCO THEATRE,**  
**COLORADO CONVENTION CENTER**

Coffee and light breakfast included.

Sponsored by  In partnership with **AVMA LIFE**  
**AVMA PLIT**



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## EXHIBIT HALL

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## EDUCATION PROGRAM

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*All convention attendee photos courtesy of Sara Beugen/Shoot My Events.*

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# CONVENTION EDUCATION PROGRAM COMMITTEE

The AVMA would like to recognize the hard work and dedication of the Convention Education Program Committee (CEPC) for the development of the 2023 convention education program.



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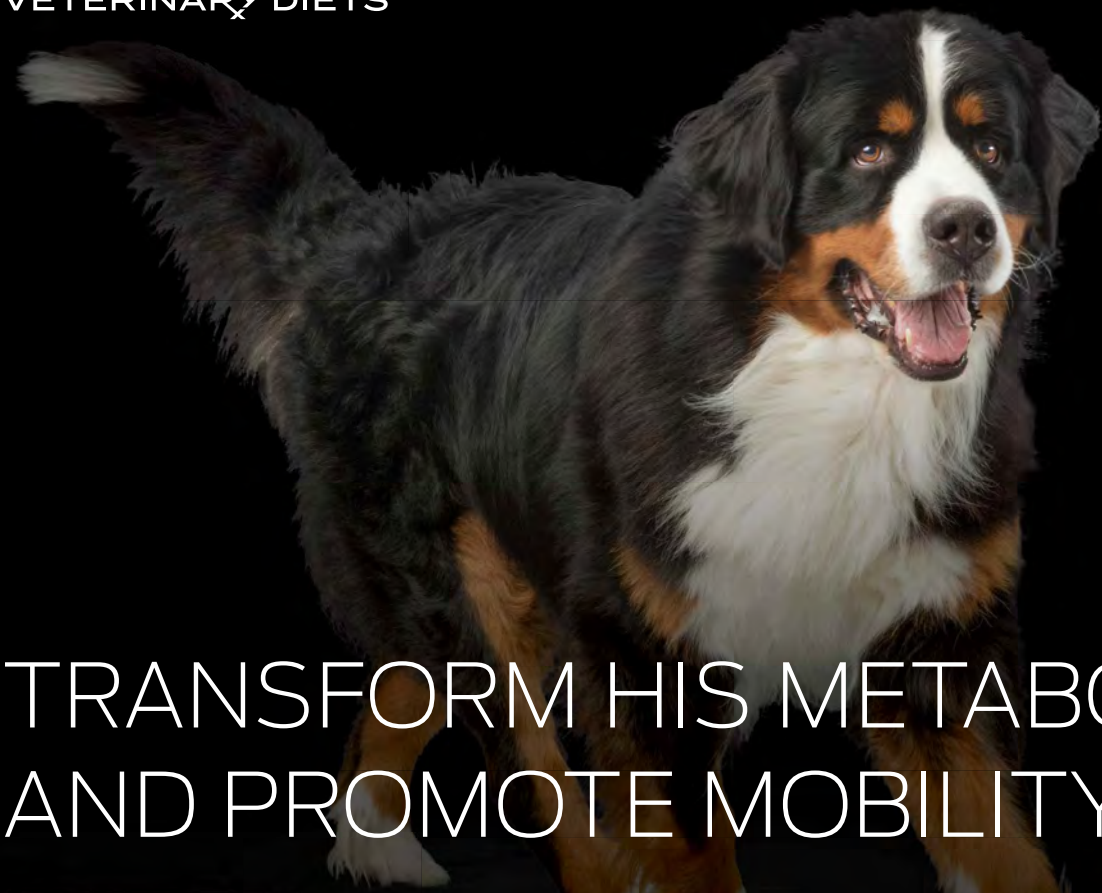
**AVMA BOD CEPC BOD LIAISON**  
Dr. Chuck Lemme

# EDUCATIONAL PROGRAMMING BROUGHT TO YOU

by the AVMA Convention Education Program Committee with additional content provided by...

American Academy of Veterinary Nutrition  
American Association of Avian Pathologists  
American Association of Bovine Practitioners  
American Association of Equine Practitioners  
American Association of Feline Practitioners  
American Association of Food Safety and Public Health Veterinarians  
American Animal Hospital Association  
American Association of Industry Veterinarians  
American Association of Human Animal Bond Veterinarians  
American Association of Small Ruminant Practitioners  
American Association of Swine Veterinarians  
American Association of Veterinarians of Indian Origin  
Association of Asian Veterinary Medical Professionals  
Association of Avian Veterinarians  
American Association of Veterinary Clinicians  
American Holistic Veterinary Medical Association  
American College of Animal Welfare  
American College of Laboratory Animal Medicine  
American College of Veterinary Anesthesia and Analgesia  
American College of Microbiologists Parasitology  
American College of Poultry Veterinarians  
American College of Veterinary Nutrition  
American College of Veterinary Preventive Medicine  
American Society of Laboratory Animal Practitioners  
Association of Shelter Veterinarians  
AVMA Animal Agriculture Liaison Committee  
AVMA Animal Welfare Committee  
AVMA Aquatic Veterinary Medicine Committee  
AVMA Committee on Antimicrobials  
AVMA Committee on Disaster and Emergency Issues  
AVMA Committee on Environmental Issues

AVMA Committee on International Veterinary Affairs  
AVMA Council on Biologic and Therapeutic Agents  
AVMA Council on Public Health and Regulatory Medicine  
AVMA Council on Research  
AVMA Early Career Development Committee  
AVMA Food Safety Advisory Committee  
AVMA Membership and Field Services Division  
AVMA Practice Advisory Panel  
AVMA Steering Committee on Human Animal Interactions  
AVMA Task Force on Veterinary Compounding Legislation  
AVMA Veterinary Economics Strategy Committee  
Banfield Pet Hospital  
BlackDVM Network  
Fix-the-Debt Initiative of AAVMC and AVMA  
Henry Schein Animal Health  
International Veterinary Academy of Pain Management  
Latinx Veterinary Medical Association  
Multicultural Veterinary Medical Association  
National Association for Black Veterinarians  
National Association of Federal Veterinarians  
Native American Veterinary Association  
NAVTA Society of Veterinary Behavior Technicians  
Pride Student Veterinary Medical Community  
Pride VMC  
Society of Theriogenology  
Student American Veterinary Medical Association  
Uniformed Services of the United States  
US Food and Drug Administration  
USDA APHIS Veterinary Services  
Veterinarians as One Inclusive Community for Empowerment  
Veterinary Historical Society  
Women Veterinary Leadership Development Initiative



# TRANSFORM HIS METABOLISM AND PROMOTE MOBILITY



## OM Metabolic Response + Joint Mobility

uses a unique 3:1 protein-to-starch ratio and was shown to reduce body fat while minimizing loss of lean body mass in a 6-month weight loss study.\*



Shown to reduce select pro-inflammatory cytokines after 6 months of weight loss\*



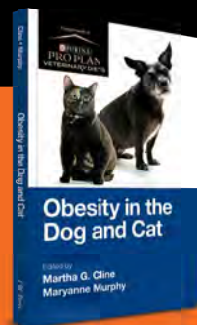
Helps improve select metabolic health indicators



High level of omega-3 fatty acids (EPA) to help nutritionally manage dogs with joint conditions

\*Caloric restriction @25% MER for months 1-4 and @40% MER for months 5-6; on-package feeding instructions reflect 40% restriction. Nestlé Purina PetCare Internal Data (2022).

**LEARN MORE AT BOOTH 901.** Watch a short video to receive a FREE copy of *Obesity in the Dog and Cat* (while supplies last).



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Your Pet, Our Passion.®

# THANK YOU TO OUR SPONSORS

## DIAMOND+



## DIAMOND



## PLATINUM

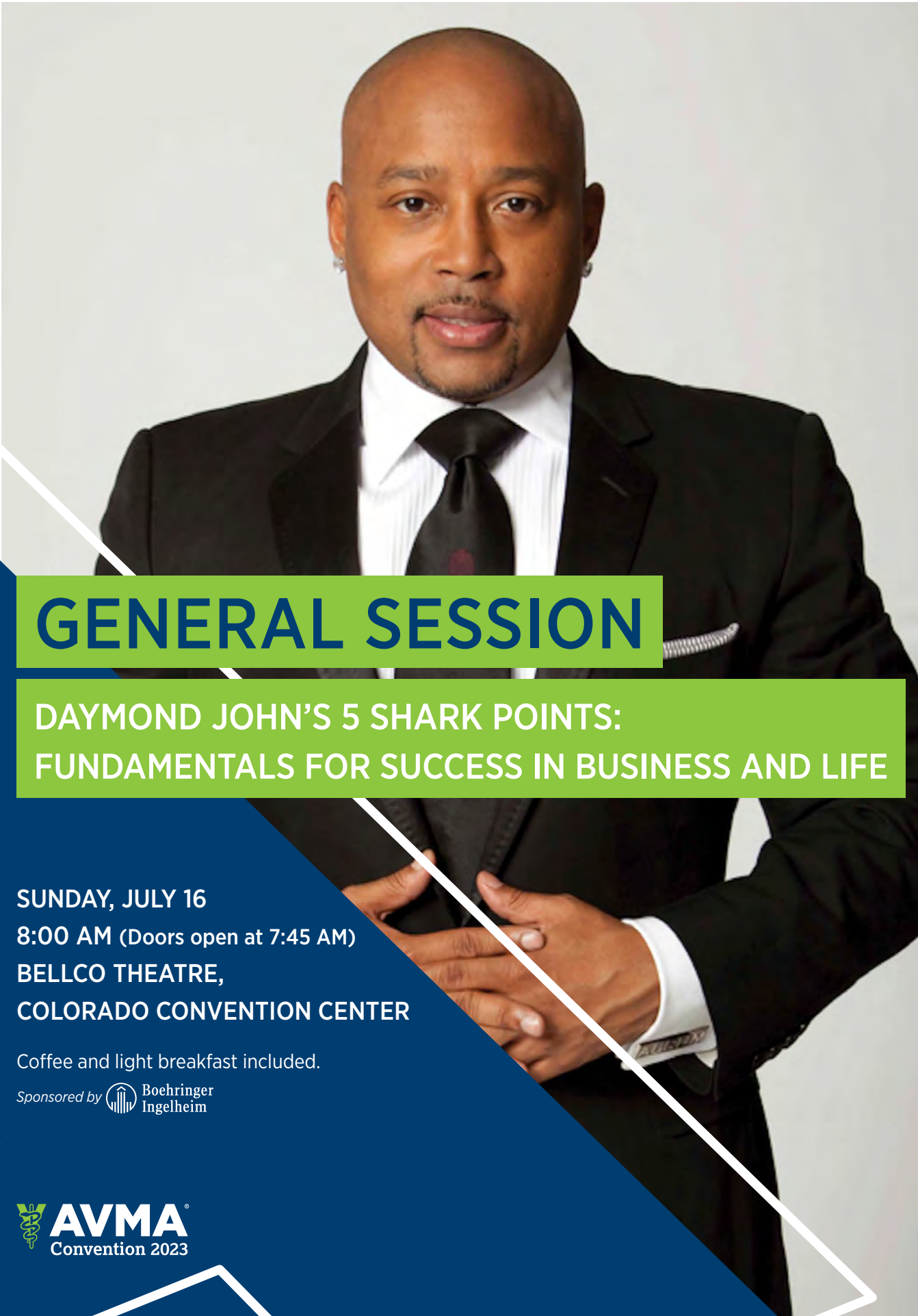


## SILVER



## COPPER





# GENERAL SESSION

DAYMOND JOHN'S 5 SHARK POINTS:  
FUNDAMENTALS FOR SUCCESS IN BUSINESS AND LIFE

SUNDAY, JULY 16  
8:00 AM (Doors open at 7:45 AM)  
BELLCO THEATRE,  
COLORADO CONVENTION CENTER

Coffee and light breakfast included.

Sponsored by Boehringer  
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 **AVMA**  
Convention 2023

# HANDS-ON CE IN LAS VEGAS

 **VITICUSGROUP™  
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## UPCOMING COURSES

- **Aug. 27 - 29**  
Practical Soft Tissue Surgery in the Dog & Cat
- **Sep. 24 - 26**  
Advanced Surgical Procedures for the General Practitioners
- **Oct. 9 - 10**  
Feline Medicine
- **Nov. 9**  
Ophtalmic Examination Techniques



**RESERVE YOUR SEAT TODAY!**  
learn more at [viticusgroup.org/wvc-academy](http://viticusgroup.org/wvc-academy)

# EXHIBIT HALL MAP



CAFE RESTROOMS

# EXHIBITOR LISTING As of 6/9/23

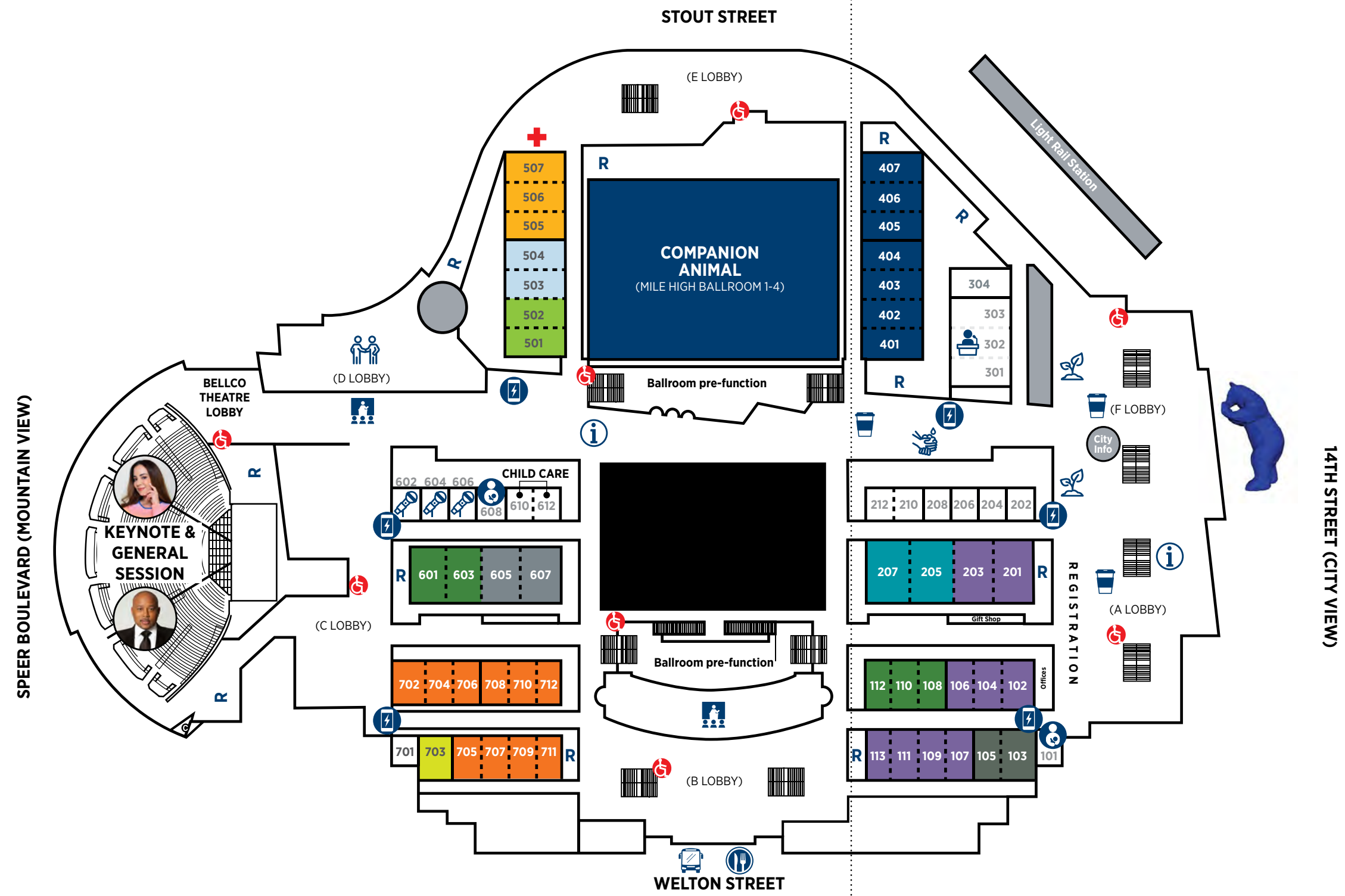
Company Name	Booth Number	Company Name	Booth Number	Company Name	Booth Number
Zi Nova, Inc.	1900	C. SPECIALTIES INC.	604	ezyVet	1531
AAAS Science & Technology Policy Fellowships	2221	Callicrate Banders	434	Feed Real Institute	438
AAHA American Animal Hospital Association	601	Canine Biologics	921	First Financial Bank	804
Ackerman Group	1727	Canine Rehabilitation Institute	621	Frank Griggs Relationship Bond Training	605
Addison Biological Laboratory, Inc.	1034	Cardiac Vet	309	Gateway Services Inc.	1030
AIV, Inc.	1716	CareCredit	1715; 1820	GerMedUSA/GerVetUSA	1807
AKC Reunite	1605	CareVet	1830	GingerLead	723
American Association for Laboratory Animal Science	2119	Caring Pathways	430	Guardian Veterinary Specialists	425
American Association of Feline Practitioners	2120	CashDiscountProgram.com	100	H&O Equipments	1906
American Association of Industry Veterinarians	2023	CBD Dog Health	445	Heska Corporation	938
American Association of Veterinary State Boards	2019	Ceva	702	Hill's Pet Nutrition, Inc.	1107
American College of Veterinary Ophthalmologists	2123	Chi Institute of Chinese Medicine	1538	Hot Dog Warming by Augustine Biomedical	409
American College of Veterinary Preventive Medicine	2126	CHOU2 PHARMA	2006	Hound	1720
American Regent Animal Health	721	Christian Veterinary Mission	2218	Hudson Aquatics Systems LLC	1406
American Society of Laboratory Animal Practitioners	2121	CityVet	402	Humane Farm Animal Care	2130
American Veterinary Group & UrgentVet	1637	Clarius Mobile Health	1803	Huntington Bank Practice Finance	928
Animal Companions of Las Cruces	2127	Community Veterinary Partners	1623	IDEXX Laboratories, Inc.	1601
Animal Dental Care and Oral Surgery	729	Core Imaging	1703	IndeVets	1833
Animal ER Care, LLC	1636	Cornerstone Computer Solutions	1038	Innovative Petcare	805
Animal Health Options	623	Covetrus	1503	Instinct Pet Food	1815
AnimalBiome	420	Cresilon	107	International Association for Animal Hospice and Palliative Care	106
AnimalWiz	501	CuraCore VET & OrthoPets by Dassiet	835	International Veterinary Acupuncture Society	2128
Antech/Sound	415	CVMA	1115	InTouch Practice Communications	822
AOHUA ENDOSCOPY CO., LTD.	622	Dan Scott & Associates Inc.	1508	Jorgensen Laboratories	814
ASPCA Animal Poison Control Center	1628	DaySmart Vet	310	JustFoodForDogs	1528
Association of Asian Veterinary Medical Professionals	2027	Dechra Veterinary Products	900	Kinsey & Company Commercial Real Estate	1932
Atom Physics	607	Dental Focus, LLC	706	Koala Health	202
Aurora Pharmaceutical	825	Destination Pet	441	Lands' End Business Outfitters	447
Auxiliary to the AVMA	1931	Diagnostic Imaging Systems, Inc.	1927	Lap of Love Veterinary Hospice	821
Avid Identification Systems Inc.	907	Digicare Animal Health	1635	Legacy Veterinary Advisors	1529
AVMA Pavilion	1115	Digital	837	Live Oak Bank	820
AVMA Trust	1008; 1015	DNTLworks Animal Health	1804	LLOYD Inc.	608
Banfield Pet Hospital	1007	Doctor Multimedia	1307	LMU - Richard A. Gillespie College of Veterinary Medicine	2220
Bank of America	1535	Dogwood Consulting	428	LubriSynHA Family of Products	602
Bavarian Nordic Inc.	204	Dragon Veterinary	701	MAI Animal Health	709
BCP Veterinary Pharmacy	1923	DVM Consulting & Recruiting	705	McGinley Orthopedics	802
Beyond Just You	1040	AVMA Pavilion	1115	Medi Lazer	301
BioLife Solutions	824	AVMA Trust	1008; 1015	MediLoupes	1722
Bionote	926	Banfield Pet Hospital	1007	MediVet Products	303
BioVision Veterinary Endoscopy	1407	Bank of America	1535	Meds for Vets	440
Black Diamond Radio	1736	Bavarian Nordic Inc.	204	MedVet	1903
Blue Buffalo Co.	815	BCP Veterinary Pharmacy	1923		
Blue River PetCare	1701	Beyond Just You	1040		
BluePearl	1707	BioLife Solutions	824		
Boehringer Ingelheim Animal Health	1301	Bionote	926		
Bold Lead Designs	103	BioVision Veterinary Endoscopy	1407		
Brown's Medical Imaging	1738	Black Diamond Radio	1736		
		Blue Buffalo Co.	815		
		Blue River PetCare	1701		
		BluePearl	1707		
		Boehringer Ingelheim Animal Health	1301		
		Bold Lead Designs	103		
		Brown's Medical Imaging	1738		
		C. SPECIALTIES INC.	604		
		Callicrate Banders	434		
		Canine Biologics	921		
		Canine Rehabilitation Institute	621		
		Cardiac Vet	309		
		CareCredit	1715; 1820		
		CareVet	1830		
		Caring Pathways	430		
		CashDiscountProgram.com	100		
		CBD Dog Health	445		
		Ceva	702		
		Chi Institute of Chinese Medicine	1538		
		CHOU2 PHARMA	2006		
		Christian Veterinary Mission	2218		
		CityVet	402		
		Clarius Mobile Health	1803		
		Community Veterinary Partners	1623		
		Core Imaging	1703		
		Cornerstone Computer Solutions	1038		
		Covetrus	1503		
		Cresilon	107		
		CuraCore VET & OrthoPets by Dassiet	835		
		CVMA	1115		
		Dan Scott & Associates Inc.	1508		
		DaySmart Vet	310		
		Dechra Veterinary Products	900		
		Dental Focus, LLC	706		
		Destination Pet	441		
		Diagnostic Imaging Systems, Inc.	1927		
		Digicare Animal Health	1635		
		Digital	837		
		DNTLworks Animal Health	1804		
		Doctor Multimedia	1307		
		Dogwood Consulting	428		
		Dragon Veterinary	701		
		DVM Consulting & Recruiting	705		
		DVM Match	111		
		dvm360	1902		
		E.I. MEDICAL IMAGING	720		
		Edge Life Technologies, LLC	521		
		Elanco Animal Health	1101		
		Elite Payment Group	101		
		ElleVet Sciences	915		
		EMBARC VETERINARY	1600		
		Enova Illumination	1641		
		EOS Healthcare Marketing	1802		
		Epicur Pharma	1429		
		Equine Sleeve	200		
		Esaothe North America	715		
		EverVet Partners	731		
		EveryCat Health Foundation	2222		
		Evolution Veterinary Specialists	448		
		Ezee Visit Pet Vet Mat	830		

**PULL OUT**

Company Name.....Booth Number

Merck Animal Health.....	1021	Purina Institute.....	1001	Tiki Cat Veterinary Solutions.....	1907
Merck/Merck Publishing Group.....	1003	Purina® Pro Plan® Veterinary Diets.....	901	Total Practice Solutions Group.....	906
Mg Biologics.....	306	QSM Diagnostics.....	722	Tower Realty Partners.....	1539
Midmark Corporation.....	1629	Radiocat.....	520	Tuttnauer USA Co. Ltd.....	620
MidDOG LLC.....	307	Rarebreed Veterinary Partners.....	522	TWC Architecture and Construction.....	1526
MILA International, Inc.....	1700	Rauhaus Freedenfeld & Associates, LLP.....	1708	U.S. Bank and Elavon.....	108
Mission Veterinary Partners.....	509	RealTime Laboratories.....	110	UC Davis School of Veterinary Medicine.....	2229
Mixlab.....	823	Rescue Disinfectants by Virox Technologies.....	1606	Ultralight Optics.....	700
Modern Animal.....	1640	Robson Forensic.....	404	United States Department of Agriculture, Food Safety and Inspection Service.....	2131
Monarch Business Consulting, LLC.....	935	Roo.....	1706	Universal Imaging.....	1006
Morris Animal Foundation.....	829	Rose Micro Solutions.....	909	Universal Surgical Instruments.....	808
Mountain West Veterinary Imaging.....	1904	Royal Canin Veterinary Diet.....	1921	Urban Resource Institute.....	2223
MOVES.....	807	RWE Design Build.....	2026	US Army Veterinary Corps.....	421
Movora.....	1702	RxActuator, Inc.....	1404	USDA APHIS Veterinary Services.....	2326
MSU Veterinary Diagnostic Laboratory.....	1309	Schultz Technology Solutions LLC.....	1527	Varidi.....	2022
MWI Animal Health.....	1801	Scratch Financial.....	1925	VCA.....	800
National Veterinary Associates.....	1022	Scribenote.....	211	VCC.Academy.....	523
Nationwide.....	1607	Sedecal USA, Inc.....	1427	VDI Laboratory.....	524
NAVC Media.....	904	Servet Veterinary Books.....	2002	Vet Health Docs.....	439
NAVTA.....	2118	Shepherd Veterinary Software.....	1914	Vet Receptionists.....	209
NCSU-CCAT.....	2320	Shippo Dental & Specialty Products.....	2000	Vetcetera.....	1901
Neogen Corporation.....	1029	SignalPET.....	1824	VetCor.....	1908
Nest Vet.....	725	Silikal America.....	703	Veteos.....	606
Nextmune US LLC.....	525	Simmons & Associates.....	707	Veterinary Emergency Group.....	1721
Norbrook, Inc.....	406	Snyder Mfg Co.....	809	Veterinary Health Research Centers LLC.....	2322
North Dallas Veterinary Emergency and Specialty Hospital.....	1036	Sontec Instruments Inc.....	1800	Veterinary Hospital Managers Association.....	2029
NorthStar VETS.....	1537	Southern Veterinary Partners.....	615	Veterinary Industry Giving Tree.....	210
Nova Biomedical.....	1026	Specialty Veterinary Pharmacy.....	930	Veterinary Innovative Partners.....	1039
Nutramax Laboratories Veterinary Sciences, Inc.....	1409	SpectraVET Therapeutic Lasers.....	609	Veterinary Practice News.....	941
Ooma, Inc.....	1638	Sploot Veterinary Care.....	839	Veterinary Practice Transition.....	2226
Organized Onboarding.....	1506	Squishface.....	603	Veterinary Roots.....	536
Pala-Tech™ Laboratories, Inc.....	1609	St. Matthew's University School of Veterinary Medicine.....	426	Veterinary System Services.....	437
Patterson Veterinary & Animal Health International.....	939	Standard Process.....	1822	VetiQ Staffing.....	505
Paw Prosper — Help 'Em Up Harness, FitPaws, Respond Systems & Muffin's Halo.....	826	Suburban Surgical Co, Inc.....	1540	VetMatch.....	1718
Pawlicy Advisor.....	831	SunTech.....	625	VetMed Solutions.....	1035
Pawpal Paw Print Keepsakes.....	1028	SurgiTel.....	724	Visbiome Vet.....	806
Pawprint Oxygen.....	102	Suvelto.....	401	ViziSites.....	1733
Peak Therapeutics.....	1828	SynDaver.....	104	Volition Veterinary.....	207
Pet Insurance Review.....	1729	Synovetin OA.....	432	Walking Paws Rehab.....	727
Pet Preferred Diagnostics.....	827	Talkatoo Inc.....	925	Weave.....	929; 1915
Petco + Vetco.....	1827	Tartar Shield Pet Products.....	1621	Wedgewood Pharmacy.....	1100
PetDesk, Vetstoria, WhiskerCloud, and Kontak.....	515	Taylor's Pharmacy.....	708	WellHaven PetHealth.....	436
PetDx.....	548	TekCollect.....	1639	Western Veterinary Partners.....	920
PetIQ.....	444	TeleVet.....	546	Winchester Laboratories, LLLP.....	449
Pets Best.....	1615	Teller Park Veterinary Clinic.....	407	World Aquatic Veterinary Medical Association.....	2227
PetSmart Veterinary Services.....	414	Tempus Recruitment.....	1725	Worldwide Vets.....	2228
PetVet Care Centers.....	1617	Terravet Real Estate Solutions.....	208	YuMOVE ADVANCE 360.....	923
Pieper Veterinary.....	507	The American Kennel Club, Inc.....	2129	Zoetis.....	1415
PKB Animal Health.....	424	The Farmer's Dog.....	1821		
PrideVMC.....	2230	The Greatest Profession.....	2318		
PRN Pharmacal.....	801	The House Call Vet Academy.....	1541		
Project AnimalAid.....	2122	The National Kitten Coalition.....	2021		
ProPartners Wealth, LLC.....	2024	The Vet Recruiter.....	1808		
Provet Cloud.....	506	The Vets.....	1705		
Provide.....	1731	The Wonderpax.....	544		
		Therazoo.....	308		
		Thrive Pet Healthcare.....	435		
		TICA-The International Cat Association.....	2328		

# CONVENTION CENTER MAP



## KEY

- Center for Wellbeing
- Charging stations
- Coffee breaks
- First aid
- Food truck Friday 11 AM - 2 PM
- Hygiene kits
- Information
- Mother's room
- News press room/interview
- Speaker ready room
- Viewing area
- Restrooms
- Shuttle
- Veterinary Career Mix and Mingle

- AVMA programming
- Companion animal
- CVMA
- Food animal/equine
- Practice management
- Professional development
- Public & corporate practice
- Sponsored programs
- Trending topics
- Veterinary technology
- Workshop



# AVMA 2023 SYMPOSIUM

Join us as we discuss weight loss tips, management methods, and more!

**Monday, July 17, 2023 | 1:00 – 5:00 pm**  
**Rooms 201 - 203**

**1:00 – 1:50 pm**



Obesity Prevention & Management

**Valerie J. Parker,**  
 DVM, DACVIM (SAIM, Nutrition)

**3:00 – 3:50 pm**



Flab to Fab – 5 Lessons My Patients Have Taught Me About Defeating the Dreaded Duo (Obesity & Immobility)

**Ross H. Palmer,**  
 DVM, MS, DACVS

**2:00 – 2:50 pm**



Making Nutrition Communication Appetizing: Creative Strategies for “Weight’y Discussions”

**Deborah Linder,**  
 DVM, MS, DACVIM (Nutrition)

**4:00 – 4:50 pm**



Losing Never Felt So Good: An Effective Metabolic Approach

**Jason W. Gagné,**  
 DVM, DACVIM (Nutrition)

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## DIGITAL DISTRICT EVENTS SCHEDULE

### Saturday, July 15

**12:00 – 1:00 PM**

Digital poster presentations  
 CE: 1.00

**2:00 – 3:00 PM**

JAVMArt Jubilee

**3:30 – 4:00 PM**

AVMA Steve Dale Excellence in Veterinary Media Award

### Sunday, July 16

**10:30 – 11:00 AM**

Frederick Douglas Patterson Award recipient interview

**11:00 AM – 12:00 PM**

A DEI break in the day with the Diversity Veterinary Medicine Coalition

**1:00 – 1:50 PM**

Champions of Change: A discussion with two chief diversity officers

**2:00 – 2:30 PM**

Journey for Teams reception

**2:30 – 3:00 PM**

Unsung Heroes presentation



AVMA/ENTITY PROGRAMMING

COMPANION ANIMAL MEDICINE

ROOM 601      ROOM 603      ROOM 103-105      ROOM 108-110-112      ROOM 401-404      ROOM 405-407

7:00 AM

8:00 AM

9:00 AM

10:00 AM

11:00 AM

12:00 PM

HPAI 2022 <i>Louise Dufour-Zavala</i> ID# 1773 CE: 1.00		Snakebite envenomation treatment <i>Kenneth Pawlowski</i> ID# 1780 CE: 1.00		Food hypersensitivity—is there a test? <i>Katherine Doerr</i> ID# 1729 CE: 1.00	Glaucoma in dogs and cats <i>Mary Telle</i> ID# 1513 CE: 1.00
Basic poultry husbandry <i>Rocio Crespo</i> ID# 1774 CE: 1.00	Fish farming 101 for veterinarians <i>Myron Kebus</i> ID# 1689 CE: 1.00	Practical genetics for veterinarians <i>Kathryn Meurs</i> ID# 1781 CE: 1.00	Intro to ASV's 2022 shelter guidelines <i>Lena DeTar</i> ID# 1866 CE: 1.00	Dermatologic emergencies <i>Katherine Doerr</i> ID# 1731 CE: 1.00	Ocular issues of canine endocrine disease <i>Mary Telle</i> ID# 1514 CE: 1.00
Common diseases and treatments <i>Rocio Crespo</i> ID# 1775 CE: 1.00	Demystifying VFDs in aquatic medicine <i>Timothy Kniffen</i> ID# 1844 CE: 1.00		ASV guidelines: Medical and surgical programs <i>Lena DeTar</i> ID# 1867 CE: 1.00	Challenging dermatoses <i>Katherine Doerr</i> ID# 1733 CE: 1.00	Dry eye disease in canine patients <i>Mary Telle</i> ID# 1515 CE: 1.00

COMPANION ANIMAL MEDICINE

FOOD ANIMAL/EQUINE

MILE HIGH BALLROOM 1      MILE HIGH BALLROOM 2      MILE HIGH BALLROOM 3      MILE HIGH BALLROOM 4      ROOM 501      ROOM 502

CHECK THE APP FOR MOST CURRENT SCHEDULE

7:00 AM

8:00 AM

9:00 AM

10:00 AM

11:00 AM

12:00 PM

9:00 - 10:50 AM Optimizing antibiotics in ophthalmology <i>Jennifer Granick</i> ID# 1613 CE: 2.00	How and when is cancer detected in dogs <i>Todd Cohen</i> ID# 1529 CE: 1.00	Practical psychopharmacology—dogs and cats <i>Valli Parthasarathy</i> ID# 1269 CE: 1.00	Common oral pathology in dogs and cats <i>Patrick Vall</i> ID# 1810 CE: 1.00	9:00 - 10:50 AM Top new equine ambulatory research articles <i>Rebecca Funk</i> ID# 1374 CE: 2.00	Small ruminants into small animal practice <i>Michael Pesato</i> ID# 1509 CE: 1.00
	Use of liquid biopsy in the cancer workup <i>Todd Cohen</i> ID# 1537 CE: 1.00	Treating separation anxiety <i>Valli Parthasarathy</i> ID# 1270 CE: 1.00	Basic extraction techniques in dentistry <i>Patrick Vall</i> ID# 1811 CE: 1.00		Toxic plants and small ruminants <i>Michael Pesato</i> ID# 1590 CE: 1.00
Maximizing diagnostics in CKD <i>Rebekah Mack-Gertig</i> ID# 1748 CE: 1.00	Options for degenerative mitral valve disease <i>Brianna Potter</i> ID# 1889 CE: 1.00	Most common feline emergencies <i>Alex Lynch</i> ID# 1349 CE: 1.00	Advanced extractions in veterinary dentistry <i>Patrick Vall</i> ID# 1812 CE: 1.00		Liver flukes meningeal worms and lungworms <i>Michael Pesato</i> ID# 1595 CE: 1.00

FOOD TRUCK FRIDAY 11:00 AM - 2:00 PM

FOOD TRUCK FRIDAY 11:00 AM - 2:00 PM

1:00 PM

2:00 PM

3:00 PM

4:00 PM

5:00 PM

				<b>Dechra</b>	
Annual finance wellness exam <i>Ann Chavent</i> ID# 1794 CE: 1.00	Water quality 101 <i>Jessica Koppien-Fox</i> ID# 1845 CE: 1.00		ASV guidelines: Shelter population management <i>Lena DeTar</i> ID# 1869 CE: 1.00	Advances in veterinary dermatology <i>Katherine Doerr</i> ID# 1734 CE: 1.00	Causes of ocular blindness in small animal <i>Mary Telle</i> ID# 1517 CE: 1.00
	Training opportunities in aquatic medicine <i>Jessica Koppien-Fox</i> ID# 1847 CE: 1.00	<b>Dechra</b>	Shelter environments <i>Jeanette O'Quin</i> ID# 1871 CE: 1.00	Why is Cytopoint or Apoquel no longer working <i>Andrew Simpson</i> ID# 1737 CE: 1.00	Chronic corneal disease in dogs and cats <i>Kevin Snyder</i> ID# 1626 CE: 1.00
	Antibiotic susceptibility testing: S/I/R <i>Jennifer Granick</i> ID# 1411 CE: 1.00		New to the ASV 2022 guidelines <i>Jeanette O'Quin</i> ID# 1872 CE: 1.00	Environmental allergy testing—a review <i>Andrew Simpson</i> ID# 1738 CE: 1.00	Uveitis <i>Kevin Snyder</i> ID# 1629 CE: 1.00
	AVMA resources for antibiotic stewardship <i>Jennifer Granick</i> ID# 1412 CE: 1.00		Art of euthanasia <i>Dani McVety-Leinen</i> ID# 1445 CE: 1.00	Top 10 pitfalls in veterinary dermatology <i>Andrew Simpson</i> ID# 1741 CE: 1.00	SCCEDs: Chronic superficial ulcers in dogs <i>Kevin Snyder</i> ID# 1631 CE: 1.00

Video capsule endoscopy in dogs <i>Tracy Hill</i> ID# 1427 CE: 1.00	Utilizing VHS & VLAs in a primary care <i>Brianna Potter</i> ID# 1890 CE: 1.00	Point of care ultrasound for felines <i>Alex Lynch</i> ID# 1350 CE: 1.00	Antimicrobials in veterinary dentistry <i>Patrick Vall</i> ID# 1813 CE: 1.00	Endocrinology updates for equine practitioner <i>Rebecca Funk</i> ID# 1375 CE: 1.00	Ruminal bloat <i>Andrew Muir</i> ID# 1415 CE: 1.00
Update on prokinetics in dogs and cats <i>Tracy Hill</i> ID# 1428 CE: 1.00	Uses and mis-uses of NT-proBNP <i>William Rausch</i> ID# 1870 CE: 1.00	Fluids and transfusions—feline <i>Alex Lynch</i> ID# 1351 CE: 1.00	Dentistry treatment planning <i>Naomi Hoyer</i> ID# 1814 CE: 1.00	The well foal exam <i>Rebecca Funk</i> ID# 1376 CE: 1.00	Down cow syndrome <i>Andrew Muir</i> ID# 1416 CE: 1.00
Canine urinary incontinence <i>Tracy Hill</i> ID# 1429 CE: 1.00	What we now know about diet-associated DCM <i>William Rausch</i> ID# 1926 CE: 1.00	Vaccine hesitancy in practice <i>Natalie Marks</i> ID# 1784 CE: 1.00	Oral tumors in dogs and cats <i>Naomi Hoyer</i> ID# 1815 CE: 1.00	Small ruminant nutrition <i>Andrea Mongini</i> ID# 1648 CE: 1.00	Calf septic arthritis <i>Andrew Muir</i> ID# 1414 CE: 1.00
Introducing palliative care to your practice <i>Lawren Durocher-Babek</i> ID# 1382 CE: 1.00	Review of feline cardiomyopathy <i>Julie Andrie</i> ID# 1927 CE: 1.00	Uncomplicating canine mast cell tumors <i>Travis Laver</i> ID# 1874 CE: 1.00	Feline considerations in dentistry <i>Naomi Hoyer</i> ID# 1816 CE: 1.00	Intro to feeding small ruminants <i>Andrea Mongini</i> ID# 1905 CE: 1.00	Veterinarian's role in BQA <i>Carla Huston</i> ID# 1418 CE: 1.00

	PRACTICE MANAGEMENT		PROFESSIONAL DEVELOPMENT			PUBLIC AND CORPORATE PRACTICE
	ROOM 205	ROOM 207	ROOM 605	ROOM 607	ROOM 103-105	ROOM 103-105
7:00 AM						
8:00 AM						
9:00 AM	Five things better than a performance review <i>Stephanie Goss</i> ID# 1523 CE: 1.00	Financial & tax planning in practice sales <i>Gary Ackerman</i> ID# 1425 CE: 1.00	Turning difficult clients into dream clients <i>Lauren Smith</i> ID# 1212 CE: 1.00	Career changes in veterinary medicine <i>Adam Christman</i> ID# 1039 CE: 1.00		
10:00 AM	Building team training programs <i>Stephanie Goss</i> ID# 1525 CE: 1.00	More than price in your practice sale <i>Gary Ackerman</i> ID# 1426 CE: 1.00	Getting clients to trust you—stat! <i>Lauren Smith</i> ID# 1214 CE: 1.00	Mastering the art of mindful listening <i>Daniel Stillwell, Addie Reinhard</i> ID# 1047 CE: 1.00		
11:00 AM	Managing employee crisis situations <i>Stephanie Goss</i> ID# 1527 CE: 1.00	Veterinary joint ventures & private equity <i>Gary Ackerman, Edward Guiducci</i> ID# 1439 CE: 1.00	How to discuss finances with clients <i>Lauren Smith</i> ID# 1215 CE: 1.00	Early career wellbeing: Solutions to thrive <i>Addie Reinhard</i> ID# 1048 CE: 1.00		

FOOD TRUCK FRIDAY 11:00 AM - 2:00 PM

1:00 PM	Don't hire more people—optimize <i>Louise Dunn</i> ID# 1486 CE: 1.00	Key issues in associate & manager buy-ins <i>Edward Guiducci</i> ID# 1530 CE: 1.00	Getting to “yes” <i>Lauren Smith</i> ID# 1216 CE: 1.00	Mentoring from good to great <i>Addie Reinhard</i> ID# 1051 CE: 1.00		Access to care <i>Jon Geller</i> ID# 1581 CE: 1.00
2:00 PM	Why not hybrid veterinary teams? <i>Louise Dunn</i> ID# 1488 CE: 1.00	Practice partnerships with owners & buyers <i>Edward Guiducci</i> ID# 1532 CE: 1.00	Why meaningful purpose driven work matters <i>Wendy Hauser</i> ID# 1133 CE: 1.00	Identifying/addressing burnout as vet mentor <i>Daniel Stillwell, Addie Reinhard</i> ID# 1052 CE: 1.00	2:00 - 3:50 PM Human risk factors in veterinary medicine <i>Sean Kaufman</i> ID# 2046 CE: 2.00	
3:00 PM	ROI for new hires <i>Louise Dunn</i> ID# 1492 CE: 1.00	Lease issues for practice owners who sell <i>Edward Guiducci</i> ID# 1533 CE: 1.00	What motivates you? <i>Wendy Hauser</i> ID# 1134 CE: 1.00	3:00 - 4:50 PM QPR training <i>Daniel Stillwell, Addie Reinhard</i> ID# 1057 CE: 2.00		
4:00 PM	What job candidates really want <i>Louise Dunn</i> ID# 1493 CE: 1.00	Legal mistakes in vet practices <i>Edward Guiducci</i> ID# 1528 CE: 1.00	Networking as an introvert <i>Tannetje Crocker</i> ID# 1585 CE: 1.00			
5:00 PM						

PUBLIC AND CORPORATE PRACTICE				SPONSORED CE	
ROOM 702-704-706	ROOM 705-707	ROOM 708-710-712	ROOM 709-711	ROOM 102-104-106	ROOM 107-109-111-113
9:00 - 10:50 AM COVID-19 in animals <i>Danielle Adney, Natalie Wendling</i> ID# 1833 CE: 2.00		Evolution of the human-animal bond part 1 <i>Angela Hughes</i> ID# 1207 CE: 1.00			<b>Boehringer Ingelheim</b> 9:00 - 9:50 AM Logistics of Lyme: Diagnosis treatment and prevention <i>Jane Sykes</i> ID# 5114 CE: 1.00
		Evolution of the human-animal bond part 2 <i>Taylor Rezvani</i> ID# 3018 CE: 1.00	Veterinary One Health <i>Joel Ehrenzweig</i> ID# 2019 CE: 1.00	A diagnostic approach to a common complaint: the coughing dog <i>Brian Scansen</i> ID# 5008 CE: 1.00	10:00 - 10:50 AM Leptospirosis: A new era of diagnosis and prevention <i>Jane Sykes</i> ID# 5115 CE: 1.00
		Evolution of the human-animal bond part 3 <i>Taylor Rezvani</i> ID# 3007 CE: 1.00	One Health for pandemic preparedness <i>John Rossow</i> ID# 2040 CE: 1.00	Staging and a rational use of diagnostic testing for mitral valve disease in dogs <i>Brian Scansen</i> ID# 5102 CE: 1.00	<b>Ceva Animal Health</b> 11:00 - 11:50 AM Canine infectious respiratory disease (CIRD): Answering common questions through case examples and scientific literature <i>Carol Reiner</i> ID# 5116 CE: 1.00
					<b>Rxactuator Inc.</b> 1:00 - 1:50 PM When it hurts everywhere- chronic pain and ketamine review <i>Mandy Pacheco, Danielle Adney, Lindsey Fry, Meaghan Monahan</i> ID# 5103 CE: 1.00

FOOD TRUCK FRIDAY 11:00 AM - 2:00 PM

1:00 - 2:50 PM Chinchilla management and clinical care <i>Lauren Habenicht, Michael Fink, Christina Avena Roman, Daniel Tollin</i> ID# 1839 CE: 2.00	1:00 - 2:50 PM Carbapenem resistance in veterinary medicine <i>Stephen Cole, Caroline Habrun, Amanda Beaudoin, Jennifer Granick, Jordan Mason</i> ID# 1452 CE: 2.00	Evolution of the human-animal bond part 4 <i>Steve Dale</i> ID# 3008 CE: 1.00	USDA module 8 <i>Holly Irish</i> ID# 3062 CE: 1.00	<b>Elanco</b> 1:00 - 1:50 PM It's a zoo out there! Canine parasite zoonotic risks <i>Susan Little</i> ID# 5140 CE: 1.00	2:00 - 2:50 PM Can we impact veterinary chronic pain with ketamine? Clinical applications and ketamine and current research <i>Mandy Pacheco, Danielle Adney, Lindsey Fry, Meaghan Monahan</i> ID# 5104 CE: 1.00
Federal alternatives efforts <i>David Allen</i> ID# 1834 CE: 1.00	Sanctioned horse racing <i>Alina Vale</i> ID# 1584 CE: 1.00	Evolution of the human-animal bond part 5 <i>Steve Dale</i> ID# 3009 CE: 1.00	USDA module 9 <i>Holly Irish</i> ID# 3061 CE: 1.00	2:00 - 2:50 PM Improving perioperative pain management in cats with new drug formulations and assessment tools <i>Sheilah Robertson</i> ID# 5142 CE: 1.00	3:00 - 3:50 PM The knitty gritty of using ketamine for patients with chronic pain demonstration and case discussions <i>Mandy Pacheco, Danielle Adney, Lindsey Fry, Meaghan Monahan</i> ID# 5010 CE: 1.00
Definitions of research <i>Leah Makaron, John Hasenau</i> ID# 1923 CE: 1.00	Unsanctioned racing <i>Angela Pelzel-Mccluskey</i> ID# 1624 CE: 1.00	Street medicine <i>Jon Geller</i> ID# 1518 CE: 1.00	USDA module 34 <i>Holly Irish</i> ID# 3063 CE: 1.00	3:00 - 3:50 PM Essential feline diabetes management: What's new in 2023? <i>J Catharine R Scott-Moncrieff</i> ID# 5141 CE: 1.00	<b>Boehringer Ingelheim</b> 4:00 - 4:50 PM A clinician's toolbox for recognizing and managing osteoarthritis: A review of established and emerging strategies <i>Bryan Torres</i> ID# 5145 CE: 1.00



COMPANION ANIMAL MEDICINE			FOOD ANIMAL/EQUINE		PRACTICE MANAGEMENT
MILE HIGH BALLROOM 2	MILE HIGH BALLROOM 3	MILE HIGH BALLROOM 4	ROOM 501	ROOM 502	ROOM 205
7:00 AM					
8:00 AM					
Congenital heart disease small animal <i>Julie Andrie</i> ID# 1928 CE: 1.00	Feline dermatology – selected topics <i>Domenico Santoro</i> ID# 1559 CE: 1.00	Fractured teeth and sealants in practice <i>Kevin Stepaniuk</i> ID# 1818 CE: 1.00	Equine atopic dermatitis <i>Jeremy Redmond</i> ID# 1440 CE: 1.00	Livestock biosecurity plans <i>Carla Huston</i> ID# 1417 CE: 1.00	Boosting efficiency: Patient scheduling <i>Melissa Cox</i> ID# 1132 CE: 1.00
Update on canine degenerative mitral valve <i>Eva Frantz</i> ID# 1929 CE: 1.00	Diagnostic methods in dermatology <i>Domenico Santoro</i> ID# 1543 CE: 1.00	Pain opening the mouth-abscess vs. myositis <i>Kevin Stepaniuk</i> ID# 1819 CE: 1.00	Equine acute and chronic kidney disease <i>Jeremy Redmond</i> ID# 1776 CE: 1.00	Poultry diseases in small animal practice <i>Christopher Magee</i> ID# 1881 CE: 1.00	Boosting efficiency: Team scheduling <i>Melissa Cox</i> ID# 2700 CE: 1.00
10:00 AM					
<b>KEYNOTE</b> <b>10:00 AM – 12:00 PM</b> <b>BELLCO THEATRE</b>					
11:00 AM					
12:00 PM					

PRACTICE MANAGEMENT	PROFESSIONAL DEVELOPMENT			PUBLIC AND CORPORATE PRACTICE	
ROOM 207	ROOM 605	ROOM 607	ROOM 103-105	ROOM 702-704-706	ROOM 705-707
7:00 AM					
8:00 AM					
Factors determining practice valuations <i>Gary Ackerman</i> ID# 1424 CE: 1.00	8:00 – 9:50 AM Practice financial health & diseases <i>David McCormick</i> ID# 1097 CE: 2.00	Preparing for a non-clinical career <i>Stacy Pritt, Christina Tran</i> ID# 1468 CE: 1.00		USDA module 11 <i>Pete Rolfe</i> ID# 3064 CE: 1.00	National and global food sustainability <i>Mo Salman</i> ID# 1785 CE: 1.00
Recruiting and retaining your next new grad! <i>Jason Szumski</i> ID# 1651 CE: 1.00		Creating your own non-clinical career <i>Stacy Pritt, Christina Tran</i> ID# 1469 CE: 1.00		USDA module 31 <i>Pete Rolfe</i> ID# 3065 CE: 1.00	Sustainable pork production <i>Heather Fowler</i> ID# 1786 CE: 1.00
10:00 AM					
<b>KEYNOTE</b> <b>10:00 AM – 12:00 PM</b> <b>BELLCO THEATRE</b>					
11:00 AM					
12:00 PM					

VISIT THE EXHIBIT HALL 12:00 – 2:00 PM HALL AF					
2:00 PM					
Cardiac emergencies <i>Eva Frantz</i> ID# 1930 CE: 1.00	Fat cat/skinny cat: Feline hepatic lipidosis <i>Stuart Walton</i> ID# 1846 CE: 1.00	Oronasal fistula repair simplified <i>Kevin Stepaniuk</i> ID# 1821 CE: 1.00	Workup of chronic diarrhea in horses <i>Jeremy Redmond</i> ID# 1442 CE: 1.00	Infectious keratoconjunctivitis <i>Ann DiPastina</i> ID# 1670 CE: 1.00	They are talking tech and I don't speak it <i>Nancy Dewitz</i> ID# 1367 CE: 1.00
Update on pulmonary arterial hypertension <i>Kendra Lafauci</i> ID# 1931 CE: 1.00	Liver alone: Cholangitis/ cholangiohepatitis <i>Stuart Walton</i> ID# 1848 CE: 1.00	Staging dental procedures <i>Kevin Stepaniuk</i> ID# 1822 CE: 1.00	Equine gastric ulcers <i>Jeremy Redmond</i> ID# 1777 CE: 1.00	Neurologic diseases <i>Ann DiPastina</i> ID# 1675 CE: 1.00	Exploring practice software <i>Nancy Dewitz</i> ID# 1369 CE: 1.00
Working up the cardiac patient <i>Kendra Lafauci</i> ID# 1932 CE: 1.00	Feel your age: Comorbidities in old cats <i>Stuart Walton</i> ID# 1851 CE: 1.00	Clandestine common dental disease missed <i>Kevin Stepaniuk</i> ID# 1823 CE: 1.00	Dental pain in horses <i>Louise Marron</i> ID# 1476 CE: 1.00	Hyperketonemia in sheep and goats <i>Ann DiPastina</i> ID# 1681 CE: 1.00	They don't want your data, you do <i>Nancy Dewitz</i> ID# 1370 CE: 1.00
5:00 PM					

VISIT THE EXHIBIT HALL 12:00 – 2:00 PM HALL AF					
2:00 PM					
Boosting efficiency: Communication <i>Melissa Cox</i> ID# 3000 CE: 1.00	Emotionally intelligent euthanasia <i>Kathleen Cooney</i> ID# 1422 CE: 1.00	Non-clinical resumes <i>Stacy Pritt, Christina Tran</i> ID# 1470 CE: 1.00	PrideVMC town hall <i>Dane Whitaker, Abigail McElroy</i> ID# 1378 CE: 1.00	How to protect patients in natural disasters <i>Maura Wade</i> ID# 1510 CE: 1.00	Climate change food and vets <i>Michele Pfannenstiel</i> ID# 1787 CE: 1.00
Get your new grad productive fast! <i>Jason Szumski</i> ID# 1659 CE: 1.00	Burnout and vicarious trauma <i>Allison Johanson</i> ID# 1155 CE: 1.00	Acing your non-clinical job interview <i>Stacy Pritt, Christina Tran</i> ID# 1471 CE: 1.00		Operation Ukraine <i>Jon Geller</i> ID# 1522 CE: 1.00	Hazards as a result of climate change <i>Michele Pfannenstiel</i> ID# 1788 CE: 1.00
Externships 101: Make externs fall in love! <i>Jason Szumski</i> ID# 1674 CE: 1.00	Who before how: Entrepreneurship explained <i>Michele Pfannenstiel</i> ID# 1139 CE: 1.00	Search strategies for non-clinical careers <i>Stacy Pritt, Christina Tran</i> ID# 1472 CE: 1.00		HAB considerations- disaster prep & response <i>Todd French</i> ID# 1268 CE: 1.00	USDA FSIS Salmonella initiative <i>Kis Hale</i> ID# 1924 CE: 1.00
5:00 PM					





**NEW**



# THE FIRST AND ONLY FELINE BROAD-SPECTRUM PARASITE PROTECTION THAT KILLS TAPEWORMS



## The One You Want for One-And-Done Monthly Parasite Protection

- ✔ First-of-its-kind formulation includes esafoxolaner—specifically developed for use in cats
- ✔ Easy-to-apply topical solution provides a month of protection
- ✔ Safe for use in kittens as young as 8 weeks, weighing 1.8 lbs or more

Contact your Boehringer Ingelheim Representative to learn more

**IMPORTANT SAFETY INFORMATION:** NexGard® COMBO (esafoxolaner, eprinomectin, and praziquantel topical solution) is for topical use only in cats. Use with caution in cats with a history of seizures or neurologic disorders. The most frequently reported adverse reactions include vomiting, application site reactions, and anorexia. If ingested, hypersalivation may occur. Avoid direct contact with application site until visibly dry. For more information, see full prescribing information or visit NexGardCOMBOclinic.com.

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# NexGard® COMBO (esafoxolaner, eprinomectin, and praziquantel topical solution)

For topical use in cats only

**CAUTION:** Federal law restricts this drug to use by or on the order of a licensed veterinarian.

**Description:** NexGard® COMBO is a topical solution containing esafoxolaner, eprinomectin and praziquantel available in 0.3 mL and 0.9 mL unit applicators to treat cats from 1.8 lbs to 33 lbs. Each mL of NexGard® COMBO contains 12 mg of esafoxolaner, 4 mg of eprinomectin, and 83 mg of praziquantel. Inactive ingredients: dimethyl isosorbide, unstabilized glycerol formal, and butylated hydroxytoluene.

Esafoxolaner is a member of the aryl isoxazoline class of compounds. Its chemical name is 4-[(5S)-5-[3-chloro-5-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-4, 5-dihydro-1,2-oxazol-3-yl]-N-[2-oxo-2-[(2,2,2-trifluoroethyl) amino]ethyl]-1-naphthamide.

Eprinomectin belongs to the avermectin class of anthelmintics and is a mixture of homologous components referred to as eprinomectin B1a and B1b. The chemical name for eprinomectin B1a is (4'R)-acetyl-amino-5-O-demethyl-4'-deoxy-avermectin A<sub>12</sub>. The chemical name for eprinomectin B1b is (4'R)-acetyl-amino-5-O-demethyl-25-de(1-methylpropyl)-4'-deoxy-25-(1-methylethyl) avermectin A<sub>12</sub>.

Praziquantel is a pyrazinoisoquinoline anthelmintic. Its chemical name is 2-(Cyclohexylcarbonyl)-1,2,3,6,7,11b-hexahydro-4H-pyrazino[2,1-a]-isoquinolin-4-one.

**Indications:** NexGard® COMBO is indicated for the prevention of heartworm disease caused by *Dirofilaria immitis* and for the treatment and control of roundworm (fourth stage larval and adult *Toxocara cati*), hookworm (fourth stage larval and adult *Ancylostoma tubaeforme*, adult *Ancylostoma braziliense*), and tapeworm (*Dipylidium caninum*) infections. NexGard® COMBO kills adult fleas (*Ctenocephalides felis*) and is indicated for the treatment and prevention of flea infestations and the treatment and control of *Ixodes scapularis* (black-legged tick) and *Amblyomma americanum* (one star tick) infestations for one month in cats and kittens 8 weeks of age and older, and weighing 1.8 lbs or greater.

**Dosage and Administration:** NexGard® COMBO is dosed at a minimum of 0.055 mL/lb (0.12 mL/kg), which delivers a minimum dose of 0.65 mg/lb (1.44 mg/kg) esafoxolaner, 0.22 mg/lb (0.48 mg/kg) eprinomectin, and 4.53 mg/lb (9.98 mg/kg) praziquantel.

For heartworm disease prevention, apply once monthly for at least three months after last exposure to mosquitoes (see Effectiveness).

Administer the entire contents of a NexGard® COMBO unit applicator topically once a month as specified in the following table:

**Dosing Schedule:**

Cat Weight (lb)	Volume (mL)	Esafoxolaner (mg)	Eprinomectin (mg)	Praziquantel (mg)
1.8-5.5	0.3	3.6	1.2	24.9
5.6-16.5	0.9	10.8	3.6	74.7
16.6-22	0.3 + 0.9	14.4	4.8	99.6
22.1-33	0.9 + 0.9	21.6	7.2	149.4

A veterinarian or veterinary technician should demonstrate or instruct the pet owner regarding the appropriate technique for applying NexGard® COMBO topically to cats and kittens prior to first use.

Keep product in original packaging until ready to use.



- Use scissors to cut the blister along the dotted line.
- Then peel the lid away.
- Remove the applicator from the package and hold it upright. Pull back the plunger slightly.
- Twist and pull off the cap.
- Part the hair on the midline of the neck, between the base of the skull and the shoulder blades until the skin is visible. Place the tip of the applicator on the skin and apply the entire contents directly onto the skin in one spot. The product should be applied to dry skin on an area where the cat cannot lick it off. If the weight of the cat requires a second application, apply the contents in the same manner as described above in the same location.
- Wash hands after use with soap and water.

**Heartworm Prevention:** For the prevention of heartworm disease, NexGard® COMBO should be administered once a month year-round. At a minimum, administration of NexGard® COMBO should start at least 1 month before the cat's first expected exposure to mosquitoes and monthly thereafter until at least 3 months after the cat's last seasonal exposure to mosquitoes (see Effectiveness). If a dose is missed and a 30-day interval between doses is exceeded, administer NexGard® COMBO immediately and resume the monthly dosing schedule. Treatment with fewer than 3 monthly doses may not provide complete heartworm prevention. When replacing another monthly heartworm preventive product in a heartworm prevention program, the first treatment with NexGard® COMBO should be given within one month of the last dose of the former medication. At the discretion of the veterinarian, cats older than 6 months of age may be tested to determine the presence of existing heartworm infection before treatment with NexGard® COMBO. Cats already infected with adult heartworms can be given NexGard® COMBO monthly to prevent further infections.

**Flea Treatment and Prevention:** For the treatment and prevention of flea infestations, the use of NexGard® COMBO may begin at any time of year. NexGard® COMBO should be administered year-round at monthly intervals or begin at least one month before fleas become active. However, an environmental infestation may persist for a short time after beginning treatment with NexGard® COMBO because of the development of adult fleas from eggs that were laid prior to the initiation of treatment.

**Tick Treatment and Control:** For the treatment and control of infestations with *Ixodes scapularis* and *Amblyomma americanum*, the use of NexGard® COMBO may begin at any time of year. NexGard® COMBO should be administered year-round at monthly intervals or begin at least one month before the ticks become active.

**Treatment and Control of Roundworms, Hookworms, and Tapeworms:** NexGard® COMBO provides treatment and control of roundworms (adult and fourth stage larval *Toxocara cati*), hookworms (adult and fourth stage larval *Ancylostoma tubaeforme*, adult *Ancylostoma braziliense*), and tapeworms (*Dipylidium caninum*). For the treatment of hookworm, roundworms and tapeworm infections, NexGard® COMBO should be administered once as a single dose. Monthly use of NexGard® COMBO will control any subsequent infections. Cats may be exposed to and can become infected with roundworms, hookworms, and tapeworms throughout the year, regardless of season or climate.

**Contraindications:** There are no known contraindications for the use of NexGard® COMBO.

**Human Warnings:** Not for human use. Keep this and all drugs out of sight and reach of children.

**Avoid direct contact with application site for 4 hours or until visibly dry.**

**This product may act as a mild to moderate eye irritant.**

Keep product in the original packaging until use. Wash hands after product administration. If the product accidentally gets into the eyes, rinse thoroughly with water. If wearing contact lenses, flush the eyes first with water and then remove the lenses and continue to flush thoroughly with water. In case of accidental ingestion, or if skin or eye irritation occurs, contact a poison control center or physician for treatment advice.

**Precautions:** Esafoxolaner, one of the ingredients in NexGard® COMBO, is a member of the isoxazoline class. This class has been associated with neurologic adverse reactions including tremors, ataxia, and seizures. Seizures have been reported in cats receiving isoxazoline class drugs, even in cats without a history of seizures. Use with caution in cats with a history of seizures or neurologic disorders.

Do not administer orally. Cats may salivate excessively if NexGard® COMBO is accidentally administered orally or is ingested through licking/grooming the application site (see Target Animal Safety).

The safety of NexGard® COMBO has not been tested in breeding, pregnant, or lactating cats.

The safety of NexGard® COMBO has not been tested in kittens less than 8 weeks of age or weighing less than 1.8 lbs (0.8 kg).

**Adverse Reactions:** In a field safety and effectiveness study, which included a total of 201 households and 380 treated cats (244 cats treated with NexGard® COMBO, 136 cats treated with an active control), the safety of NexGard® COMBO was evaluated over a 90-day period through in-clinic physical examinations or through reporting of abnormalities by the owner. The most frequently reported reactions in the NexGard® COMBO and active control groups are presented in the following table.

**Adverse Reactions by Treatment Group**

EVENT	Treatment Group			
	NexGard COMBO		Active Control	
	n <sup>1</sup>	% (n=244)	n <sup>2</sup>	% (n=136)
Vomiting	16	6.56	8	5.88
Application Site Hair Change	9	3.69	0	0.00
Anorexia	7	2.87	4	2.94
Lethargy	6	2.46	5	3.68
Bacterial Skin Infection	4	1.64	1	0.74
Itching	4	1.64	0	0.00
Sneezing	4	1.64	5	3.68
Skin Peeling	3	1.23	2	1.47
Diarrhea	3	1.23	3	2.21
Epiphora	3	1.23	1	0.74
Hypersalivation	3	1.23	0	0.00
Hypothermia	3	1.23	0	0.00
Alopecia	2	0.82	0	0.00
Dermal Thickening	2	0.82	0	0.00
Ear Pruritus	2	0.82	1	0.74
Application Site Redness	2	0.82	0	0.00
Conjunctivitis	1	0.41	1	0.74

<sup>1</sup>Number of cats treated with NexGard® COMBO with the identified abnormality.  
<sup>2</sup>Number of cats treated with Active Control with the identified abnormality.

**Contact Information:** To report suspected adverse events, for technical assistance or to obtain a copy of the SDS, contact Boehringer Ingelheim Animal Health USA Inc. at 1-888-637-4251 or www.nexgardforpets.com.

For additional information about reporting adverse drug experiences for animal drugs, contact FDA at 1-888-FDA-VETS or online at www.fda.gov/reportanimalae.

The Safety Data Sheet (SDS) provides additional occupational safety information. For customer service or to obtain product information, including the SDS, call 1-888-637-4251.

**Clinical Pharmacology:** Mode of Action: Esafoxolaner is a member of the isoxazoline family, shown to bind at a site to inhibit insect and acarine ligand-gated chloride channels, in particular those gated by the neurotransmitter gamma-aminobutyric acid (GABA), thereby blocking pre- and post-synaptic transfer of chloride ions across cell membranes. Prolonged esafoxolaner-induced hyperexcitation results in uncontrolled activity of the central nervous system and death of insects and acarines. The selective toxicity of esafoxolaner between insects/acarines and mammals may be inferred by the differential sensitivity of the insects/acarines' GABA receptors versus mammalian GABA receptors.

Eprinomectin is an endectocide in the macrocyclic lactone class that binds to glutamate gated chloride channels that are present in invertebrate nerve and muscle cells and increases the permeability of the cell membrane to chloride ions that triggers hyperpolarization of the nerve or muscle cell in susceptible parasites, resulting in paralysis and death of the parasite.

Praziquantel's mode of action is not precisely known, but treated tapeworms undergo muscular paralysis accompanied by a rapid influx of calcium ions and the disruption of the tegument.

**Pharmacokinetics:** After a single topical administration to healthy male and female cats of a combined topical formulation containing esafoxolaner (12 mg/mL), eprinomectin (4 mg/mL), and praziquantel (83 mg/mL), at dose volumes of 0.06, 0.12, or 0.24 mL/kg, there was a dose proportional increase in the exposure of each ingredient based on maximum plasma concentration (C<sub>max</sub>) and area under the plasma concentration time curve (AUC). After repeated monthly doses of the combined topical formulation at the target dose of 1.44 mg/kg esafoxolaner, 0.48 mg/kg eprinomectin, and 9.98 mg/kg praziquantel, steady state was reached by the fourth dose for esafoxolaner and after the second dose for eprinomectin and praziquantel. Additionally, modest accumulation was observed for esafoxolaner (approximately 3-fold) and praziquantel (approximately 1.5- to 2-fold) between the first and fifth dose, whereas no accumulation was observed for eprinomectin.

**Effectiveness:** Heartworm Prevention: In well-controlled laboratory studies, NexGard® COMBO (esafoxolaner, eprinomectin, and praziquantel topical solution) was 100% effective in preventing the development of heartworms in cats inoculated with infective larvae of *Dirofilaria immitis* 30 days prior to the first of three consecutive monthly treatments.

**Flea Treatment and Prevention:** In a well-controlled laboratory study, NexGard® COMBO killed >92% of fleas within 24 hours. During subsequent weekly infestations, NexGard® COMBO killed >95.5% of fleas within 24 hours through Day 31 and killed fleas before they could lay eggs. The effectiveness against adult fleas at 24 hours post-infestation in the treated cats virtually eliminated flea egg production (99.8 – 100% control of flea egg production by 24 hours) throughout the remainder of the month.

In a field safety and effectiveness study in the United States, conducted in households with existing flea infestations, the effectiveness of NexGard® COMBO against fleas was 97.8%, 99.6%, and 99.9% when assessed on Days 30, 60, and 90, respectively. Cats with signs of flea allergy dermatitis showed improvement in alopecia, dermatitis/pyodermitis, pruritus, erythema, papules, and scaling, as a direct result of eliminating fleas.

**Tick Treatment and Control:** In well-controlled laboratory studies, NexGard® COMBO demonstrated >95.1% effectiveness against *Ixodes scapularis* 48 hours post-infestation for a month and >95.6% effectiveness against *Amblyomma americanum* 72 hours post-infestation for a month.

**Treatment and Control of Roundworms, Hookworms, and Tapeworms:** In 2 well-controlled laboratory studies, NexGard® COMBO provided 98.9% and 100% effectiveness against natural and/or induced roundworm infections with the dose-limiting gastrointestinal nematode species (adult *Toxocara cati*), respectively. Effectiveness studies against fourth stage larval *Toxocara cati* and hookworms (adult and fourth stage larval *Ancylostoma tubaeforme*, adult *Ancylostoma braziliense*) were conducted with an early formulation. The doses of eprinomectin in this early formulation are equivalent to that of the final formulation of NexGard® COMBO. In well-controlled laboratory studies, NexGard® COMBO provided on average 92.8% effectiveness against natural and/or induced infections with *Dipylidium caninum*.

**Target Animal Safety:** Margin of Safety Study:

NexGard® COMBO was applied topically to healthy kittens (8 to 9 weeks of age) at 1X, 3X, or 5X the maximum exposure dose six times at 28-day intervals; kittens in the control group were dosed with mineral oil. One kitten in the 5X group exhibited recumbency, tremors, hypothermia, ataxia, disorientation, and pupil dilation (responsive to light) 9 hours after the third dose. This kitten received supportive care, including washing the application site, and recovered within 48 hours post-dose. During necropsy, a dark red subcutaneous area (<5 mm diameter) was observed in the treatment site area of three cats in the 5X group, but microscopic examination revealed no histologic abnormalities. No significant changes related to NexGard® COMBO were observed for physical examination, body weight, clinical pathology (hematology, coagulation, and serum chemistry), histopathology, or organ weights.

**Study in Heartworm Positive Cats:** Adult cats, 4.7 to 6.6 months of age, were experimentally infected with adult heartworms (*D. immitis*) by venous transplantation. All cats were negative for heartworm antibody, antigen and microfilariae prior to transplantation. Two weeks after transplantation, immunoserology verified positive antigen and the presence of microfilariae in all enrolled cats. A combination of fipronil, eprinomectin, praziquantel, and (S)-methoprene was applied topically to cats at 1X or 3X the maximum exposure dose once every 28 days for three consecutive treatments; cats in the control group were dosed with mineral oil. One cat in the 1X group exhibited cyanotic mucous membranes and tachypnea for 24 hours following the first treatment. The cat recovered and exhibited no abnormal signs following two subsequent treatments. There was no difference between the treatment groups in the number of adult *D. immitis* recovered at the end of the study.

**Oral Administration Study:** Oral tolerance was evaluated to assess the effects of accidental oral ingestion. Kittens (male and female) ranging in age from 7.4 to 8.9 weeks were orally administered NexGard® COMBO at 1X the maximum exposure dose; kittens in the control group were dosed with saline. Cats were observed for adverse reactions at 1, 2, 3, 4, and 8 hours following administration, then twice a day until Day 14. All 8 cats administered NexGard® COMBO immediately exhibited excessive hypersalivation after oral administration. However, all cats stopped salivating within 1 hour after exposure. No additional health-related observations were seen for the remainder of the study.

**How Supplied:** NexGard® COMBO is packaged as a single dose in 0.3 mL (for cats 1.8-5.5 lb) and 0.9 mL (for cats 5.6-16.5 lb) applicators. Each size applicator is available in cartons containing 1, 3, or 6 applications.

**Storage Information:** Store at 59° – 86°F (15° – 30° C). Brief periods up to 104° F (40° C) are permitted. Protect from light.

Approved by FDA under NADA # 141-570

**Marketed by:** Boehringer Ingelheim Animal Health USA Inc., Duluth, GA 30096  
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AVMA/ENTITY PROGRAMMING		COMPANION ANIMAL MEDICINE			
ROOM 601	ROOM 108-110-112	ROOM 401-404	ROOM 405-407	MILE HIGH BALLROOM 1	MILE HIGH BALLROOM 2
7:00 AM		7:00 AM			
8:00 AM					
9:00 AM					
<p><b>GENERAL SESSION 8:00 – 10:00 AM BELLCO THEATRE</b></p>					
10:00 AM		How to diagnose feline allergies <i>Domenico Santoro</i> ID# 1555 CE: 1.00	Global FAST as part of your physical exam <i>Gregory Lisciandro</i> ID# 1390 CE: 1.00	Managing anesthetic errors <i>Turi Aarnes</i> ID# 1066 CE: 1.00	Treating dogs with noise fears <i>Elizabeth Feltes</i> ID# 1260 CE: 1.00
11:00 AM					
12:00 PM					
<p><b>LUNCH / EXHIBIT HALL BREAK 11:00 AM – 1:00 PM</b></p>					
1:00 PM		Global FAST as part of your physical exam <i>Gregory Lisciandro</i> ID# 3002 CE: 1.00		CPR for the anesthetized patient <i>Turi Aarnes</i> ID# 1067 CE: 1.00	Aggression between household dogs <i>Elizabeth Feltes</i> ID# 1261 CE: 1.00
2:00 PM	Culture <i>Jeremy Keen</i> ID# 1791 CE: 1.00	Interactive assessment of animal welfare <i>Sharon Kuca</i> ID# 1850 CE: 1.00	20-minute derm consult <i>Jacquelyn Campbell</i> ID# 1769 CE: 1.00	Global FAST as part of your physical exam <i>Gregory Lisciandro</i> ID# 3003 CE: 1.00	Anesthesia for caesarean section <i>Turi Aarnes</i> ID# 1068 CE: 1.00
3:00 PM					
<p><b>VISIT THE EXHIBIT HALL 3:00 – 4:00 PM</b></p>					
4:00 PM	Struggling to success <i>Jeremy Keen, Ryan Gibson, Gillian Angliss Glaser, Samantha Scholz, Melissa Terry</i> ID# 1792 CE: 1.00	Swine euthanasia: Factors impacting welfare <i>Scott Kramer</i> ID# 1856 CE: 1.00	Dermatology top 5: Atopy mimickers <i>Jacquelyn Campbell</i> ID# 1772 CE: 1.00	Global FAST as part of your physical exam <i>Gregory Lisciandro</i> ID# 3004 CE: 1.00	Blood pressure and anesthesia <i>Turi Aarnes</i> ID# 1069 CE: 1.00
5:00 PM					

COMPANION ANIMAL MEDICINE		FOOD ANIMAL/EQUINE		PRACTICE MANAGEMENT	
MILE HIGH BALLROOM 3	MILE HIGH BALLROOM 4	ROOM 501	ROOM 502	ROOM 205	ROOM 207
7:00 AM		7:00 AM		7:00 AM	
8:00 AM					
9:00 AM					
<p><b>GENERAL SESSION 8:00 – 10:00 AM BELLCO THEATRE</b></p>					
Orthopedic radiographs <i>Anna Massie</i> ID# 1059 CE: 1.00	Gastroprotectants in dogs and cats <i>Adesola Odunayo</i> ID# 1727 CE: 1.00	Equine oral exam <i>Louise Marron</i> ID# 1562 CE: 1.00	Neonatal care of kids and lambs <i>Jeremy Redmond</i> ID# 1437 CE: 1.00	IT and marketing <i>Nancy Dewitz</i> ID# 1371 CE: 1.00	Rewards for all <i>Jenni George, Mark McGaunn</i> ID# 1189 CE: 1.00
11:00 AM					
12:00 PM					
<p><b>LUNCH / EXHIBIT HALL BREAK 11:00 AM – 1:00 PM</b></p>					
Orthopedic infections <i>Anna Massie</i> ID# 1061 CE: 1.00	1:00 – 2:50 PM Transfusion medicine case based <i>Adesola Odunayo</i> ID# 1726 CE: 2.00	Foreign animal disease risk in North America <i>Scott Dee</i> ID# 1912 CE: 1.00	Leadership: Mentoring the next generation <i>Jenni George</i> ID# 1194 CE: 1.00		
Discoveries in orthopedics <i>Anna Massie</i> ID# 1063 CE: 1.00		Small ruminant blood transfusions <i>Jeremy Redmond</i> ID# 1438 CE: 1.00	Next generation swine biosecurity model <i>Scott Dee</i> ID# 1913 CE: 1.00	Implement telehealth in your practice part 1 <i>Christina Tran, Jessica Trimble</i> ID# 1450 CE: 1.00	Open-book management – financial transparency <i>Mark McGaunn, Jenni George</i> ID# 1195 CE: 1.00
3:00 PM					
<p><b>VISIT THE EXHIBIT HALL 3:00 – 4:00 PM</b></p>					
Weight loss <i>Anna Massie</i> ID# 1064 CE: 1.00	Patient with collapse <i>Adesola Odunayo</i> ID# 1725 CE: 1.00	Diagnostic imaging for equine dentistry <i>Louise Marron</i> ID# 1563 CE: 1.00	How to kick bovine foot disease <i>Brianna Jordan</i> ID# 1878 CE: 1.00	Implement telehealth in your practice part 2 <i>Jessica Trimble, Christina Tran</i> ID# 3001 CE: 1.00	Corporate citizenship <i>Jenni George</i> ID# 1521 CE: 1.00
5:00 PM					

PRACTICE MANAGEMENT	PROFESSIONAL DEVELOPMENT				
ROOM 605	ROOM 205	ROOM 501	ROOM 507	ROOM 605	ROOM 607
7:00 AM					
8:00 AM					
9:00 AM					
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM					
2:00 PM					
3:00 PM					
4:00 PM					
5:00 PM					

**GENERAL SESSION 8:00 – 10:00 AM BELLCO THEATRE**

**LUNCH / EXHIBIT HALL BREAK 11:00 AM – 1:00 PM**

**VISIT THE EXHIBIT HALL 3:00 – 4:00 PM**

The win-win-win with organized vet med  
*Christina Tran, Karryssa Fenderson, Peter Weinstein*  
ID# 1163 CE: 1.00

Self-assessment for your career  
*Gary Vroegindewey*  
ID# 1477 CE: 0.50

10:25 – 10:50 AM  
Career assessment  
*Valerie Ragan*  
ID# 1478 CE: 0.50

1:00 – 1:25 PM  
Federal state and municipal career options  
*Valerie Ragan*  
ID# 1480 CE: 0.50

1:25 – 1:50 PM  
The gift of time  
*Ingrid Pyka*  
ID# 1500 CE: 0.50

2:00 – 2:50 PM  
Resumes CVs cover letters personal brand  
*Valerie Ragan, Stacy Pursell*  
ID# 1484 CE: 1.00

Effective clinical teaching and mentoring  
*Samantha Sander*  
ID# 1709 CE: 1.00

Creating your career roadmap  
*Valerie Ragan*  
ID# 1499 CE: 1.00

Creating inclusive work culture with equity  
*Marie Quicksall, Melody Martinez, Ashleigh Davis-Bergsohn*  
ID# 1511 CE: 1.00

Implicit bias in veterinary medicine  
*Christina Tran*  
ID# 1677 CE: 1.00

A brief history of LGBTQ+ veterinarians  
*Kenneth Gorczyca*  
ID# 1407 CE: 1.00

Mentorship: a bridge to belonging in vet med  
*Cherese Sullivan*  
ID# 1571 CE: 1.00

Reduce risk and taxes in retirement  
*Tom Seeko*  
ID# 1451 CE: 1.00

PROFESSIONAL DEVELOPMENT				PUBLIC AND CORPORATE PRACTICE	
ROOM 103-105	ROOM 401-404	ROOM 503-504	ROOM 709-711	ROOM 702-704-706	ROOM 705-707
7:00 AM					
8:00 AM					
9:00 AM					
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM					
2:00 PM					
3:00 PM					
4:00 PM					
5:00 PM					

**CHECK THE APP FOR MOST CURRENT SCHEDULE**

**GENERAL SESSION 8:00 – 10:00 AM BELLCO THEATRE**

**LUNCH / EXHIBIT HALL BREAK 11:00 AM – 1:00 PM**

Using inclusion for community success  
*Valerie Marcano, Bonnie Price, Alyssa Mages*  
ID# 1632 CE: 1.00

Pain management in small rodents  
*Lonnie Kendall*  
ID# 1840 CE: 1.00

ROOM 108-110-112  
Veterinary staff wellbeing  
*Julie Kerby*  
ID# 1462 CE: 1.00

Gender identity bill of rights in veterinary medicine  
*Ewan Wolff, Dane Whitaker*  
ID# 1716 CE: 1.00

Reframing discussions around accommodations  
*Debra Nickelson, Allison Wolfel, Jessica Hathaway, Caroline Jurney, Erika Lin-Hendel*  
ID# 1505 CE: 1.00

The likeability dilemma for women's leaders  
*Laila Proenca*  
ID# 1644 CE: 1.00

Global instability affects local food safety  
*Riva Ben-Ezra*  
ID# 1789 CE: 1.00

B canis risk assessment and management  
*Jeanette O'Quin*  
ID# 1806 CE: 1.00

2:00 - 2:50 PM  
ADA includes neurodiversity  
*Debra Nickelson, Erika Lin-Hendel*  
ID# 1504 CE: 1.00

Pet food safety and public health  
*Gregory Sean Stapleton*  
ID# 1554 CE: 1.00

Managing K9 parvo outbreaks in shelters  
*Jeanette O'Quin*  
ID# 1807 CE: 1.00

PUBLIC AND CORPORATE PRACTICE		SPONSOR			
ROOM 708-710-712	ROOM 709-711	ROOM 102-104-106	ROOM 107-109-111-113	ROOM 201-203	CE THEATER 1
		<b>Boehringer Ingelheim</b>	<b>Boehringer Ingelheim</b>	<b>Bank of America</b>	
7:00 AM		Recommended approach to the coughing dog with a murmur <i>Lance Visser</i> ID# 5124 CE: 1.00	Are zebras becoming more common? Infectious diseases and parasites on the move <i>Emilio Debess</i> ID# 5125 CE: 1.00	Practice ownership: Debunking the myths being told to associates about ownership <i>Bill Murray</i> ID# 5137 CE: 1.00	
8:00 AM	<b>GENERAL SESSION 8:00 – 10:00 AM BELLCO THEATRE</b>				
9:00 AM					
10:00 AM	Adding resiliency into the food supply chain <i>John Gibbins</i> ID# 1457 CE: 1.00	USDA module 23 <i>Jason Baldwin</i> ID# 3066 CE: 1.00		ROOM 603 2023 AAHA mentoring guidelines <i>Addie Reinhard, Judy Rose Lanier</i> ID# 5019 CE: 1.00	
11:00 AM	<b>LUNCH / EXHIBIT HALL BREAK 11:00 AM – 1:00 PM</b>				
12:00 PM					
1:00 PM	1:00 – 2:50 PM Teaching epidemiology <i>Kimberly Woodruff</i> ID# 1804 CE: 2.00		<b>ElleVet Sciences</b>	<b>Weave</b>	<b>Nationwide</b>
2:00 PM		USDA module 38 <i>Richanne Lomkin</i> ID# 3067 CE: 1.00	CBD & CBDA fundamentals: Mechanism, pharmacokinetics, and quality control <i>Lindsay Elam and Joe Wakshlag</i> ID: 5149 CE: 1.00	Staffing crisis solutions: Powerful tips every veterinary professional should know <i>Adam Christman, Steve Dale, Debbie Boone</i> ID# 5011 CE: 1.00	In the know about noses: Health trends in brachycephalic breeds <i>Emily Tincher, Jules Benson</i> ID# 5014 CE: 1.00
3:00 PM	<b>VISIT THE EXHIBIT HALL 3:00 – 4:00 PM</b>				<b>CareCredit</b>
4:00 PM					
5:00 PM	Mid-21st century ACVPM epidemiology specialty <i>Sean Altekruze</i> ID# 1803 CE: 1.00	USDA module 40 <i>Jason Baldwin</i> ID# 3068 CE: 1.00		A practice worth staying at: Leadership practices that improve retention <i>Josh Vaisman, Erin Casey</i> ID# 5146 CE: 1.00	

SPONSOR		TRENDING TOPICS		VETERINARY TECHNOLOGY	
CE THEATER 2	CE THEATER 3	ROOM 601	ROOM 503-504	ROOM 505	ROOM 506
7:00 AM					
8:00 AM	<b>GENERAL SESSION 8:00 – 10:00 AM BELLCO THEATRE</b>				
9:00 AM					
10:00 AM			Disaster aftermath management <i>Lauren Mack</i> ID# 2036 CE: 1.00	Placement of central & urinary lines <i>Amy Newfield</i> ID# 1919 CE: 1.00	Once bitten twice shy: Pit viper envenomation <i>Kelly Foltz</i> ID# 1099 CE: 1.00
11:00 AM	<b>LUNCH / EXHIBIT HALL BREAK 11:00 AM – 1:00 PM</b>				
12:00 PM					
1:00 PM	<b>Elanco</b>	<b>Rxactuator Inc</b>	<b>LUNCH / EXHIBIT HALL BREAK 11:00 AM – 1:00 PM</b>		
2:00 PM	Essential canine osteoarthritis Pain management in 2023 <i>Denis Marcellin-Little</i> ID# 5143 CE: 1.00	Pain management: The wearable pump - great control <i>James Gaynor</i> ID# 5006 CE: 1.00			
3:00 PM			<b>VISIT THE EXHIBIT HALL 3:00 – 4:00 PM</b>		
4:00 PM					
5:00 PM				Neurologic horse <i>Shana Lemmenes</i> ID# 1019 CE: 1.00	Pediatric nursing hacks <i>Kelly Foltz</i> ID# 1103 CE: 1.00

Sunday

	VETERINARY TECHNOLOGY
	ROOM 507
7:00 AM	
8:00 AM	
9:00 AM	
10:00 AM	Intro to blood banking <i>Jordin Tillison</i> ID# 1086 CE: 1.00
11:00 AM	
12:00 PM	
1:00 PM	
2:00 PM	Intro to transfusion medicine <i>Jordin Tillison</i> ID# 1087 CE: 1.00
3:00 PM	
4:00 PM	Infection control in the ICU <i>Jordin Tillison</i> ID# 1089 CE: 1.00
5:00 PM	

Monday

AVMA/ENTITY PROGRAMMING		
ROOM 603	ROOM 108-110-112	ROOM 709-711
LUNCH / EXHIBIT HALL BREAK 11:00 AM – 1:00 PM		
Veterinary internships <i>Samantha Scholz</i> ID# 1793 CE: 1.00	Calf care & quality assurance program <i>Julia Herman</i> ID# 1858 CE: 1.00	
Veterinary workplace <i>Gillian Angliss Glaser, Nicki Wise</i> ID# 1800 CE: 1.00	Advancing herd health and animal welfare <i>Julia Herman</i> ID# 1859 CE: 1.00	
Communication skills <i>Samantha Scholz</i> ID# 1796 CE: 1.00	Animal welfare and sustainability framework <i>Lily Edwards-Callaway, Sara Place</i> ID# 1854 CE: 1.00	
Welfare of humans and research animals <i>Megan LaFollette</i> ID# 1827 CE: 1.00	Laying hen welfare: Open floor and aviary <i>Alexander Strauch</i> ID# 1855 CE: 1.00	1:00 – 3:50 PM AVMA VFRCPC competencies 3 5 and 7 <i>Michael Neault, Michael Martin</i> ID# 1779 CE: 3.00
Freedom of choice in working animals <i>Taylor Rezvani, Zenithson Ng, Aubrey Fine, Megan LaFollette</i> ID# 1829 CE: 1.00	Turkey-specific welfare <i>Molly Parker</i> ID# 1857 CE: 1.00	
Panel: Communicating the human-animal bond <i>Angela Hughes, Zenithson Ng, Alexander Robb, Teva Stone, Steven Feldman</i> ID# 1830 CE: 1.00	Animal welfare at stock shows and rodeos <i>Valerie Smith</i> ID# 1864 CE: 1.00	
	Equine welfare and the clinician <i>V. Wensley Koch</i> ID# 1852 CE: 1.00	

Monday

COMPANION ANIMAL MEDICINE					
ROOM 401-404	ROOM 405-407	MILE HIGH BALLROOM 1	MILE HIGH BALLROOM 2	MILE HIGH BALLROOM 3	MILE HIGH BALLROOM 4
LUNCH / EXHIBIT HALL BREAK 11:00 AM – 1:00 PM					
Old drugs new tricks <i>Jennifer Reinhart Dungar</i> ID# 1340 CE: 1.00	Ten common poultry presentations <i>Brigetta Allen Hughes</i> ID# 1536 CE: 1.00	Use of vet blue for small animal pneumonia <i>Gregory Lisciandro</i> ID# 1396 CE: 1.00	Surgery of the stomach and pylorus <i>Penny Regier</i> ID# 1313 CE: 1.00	Anesthesia ventilator bootcamp <i>Carrie Schroeder</i> ID# 1398 CE: 1.00	Emergency stabilization for GPS <i>Kaitlyn Boatright</i> ID# 1292 CE: 1.00
RAAS blockade <i>Jennifer Reinhart Dungar</i> ID# 1343 CE: 1.00	Poultry anesthesia and surgery <i>Brigetta Allen Hughes</i> ID# 1539 CE: 1.00	Use of TFAST and Vet BLUE in cats <i>Gregory Lisciandro</i> ID# 1399 CE: 1.00	Surgery of the rectum anus and perineum <i>Penny Regier</i> ID# 1314 CE: 1.00	Anesthesia and analgesia for rabbits <i>Carrie Schroeder</i> ID# 1404 CE: 1.00	Dealing with skin infections <i>Alicia Webb Milum</i> ID# 1759 CE: 1.00
Generic medication use in practice <i>Kaitlyn Boatright, Lauren Forsythe</i> ID# 1356 CE: 1.00	Neurologic examination part 1 <i>Heidi Barnes Heller</i> ID# 1747 CE: 1.00	New: Canine anaphylactic hemoperitoneum <i>Gregory Lisciandro</i> ID# 1401 CE: 1.00	Gastric dilatation and volvulus <i>Penny Regier</i> ID# 1315 CE: 1.00	Ultrasound-guided fascial plane blocks <i>Carrie Schroeder</i> ID# 1406 CE: 1.00	It's not always allergies! Great pretenders <i>Alicia Webb Milum</i> ID# 1760 CE: 1.00
Secondary immunosuppressants <i>Jennifer Reinhart Dungar</i> ID# 1345 CE: 1.00	Neurologic examination part 2 <i>Heidi Barnes Heller</i> ID# 3006 CE: 1.00	Global FAST differences in cats <i>Gregory Lisciandro</i> ID# 1402 CE: 1.00	Intestinal R&A and septic peritonitis <i>Penny Regier</i> ID# 1436 CE: 1.00	Toxicology in urban agriculture <i>Karyn Bischoff</i> ID# 1104 CE: 1.00	It's not always allergies in cats <i>Alicia Webb Milum</i> ID# 1761 CE: 1.00
10 recent advances in veterinary oncology <i>Douglas Thamm</i> ID# 1053 CE: 1.00	Neurologic rehabilitation <i>Michaela Beasley</i> ID# 1752 CE: 1.00	Global FAST for difficult conditions <i>Gregory Lisciandro</i> ID# 1403 CE: 1.00	2:00 – 3:50 PM Rehab therapy for small animal practice <i>Michael Jaffe</i> ID# 1006 CE: 2.00	Pet food safety and recalls <i>Karyn Bischoff</i> ID# 1105 CE: 1.00	Trauma triage: Checklists and pitfalls <i>Kelly Hall</i> ID# 1933 CE: 1.00
Regulation of cannabis and derivatives <i>Lara Maxwell</i> ID# 1623 CE: 1.00	Feline neurologic diseases <i>Michaela Beasley</i> ID# 1755 CE: 1.00	Updates on point-of-care ultrasound <i>Gregory Lisciandro</i> ID# 1405 CE: 1.00		Cyanobacterial toxins <i>Karyn Bischoff</i> ID# 1108 CE: 1.00	My trauma patient is in shock! What now? <i>Kelly Hall</i> ID# 1934 CE: 1.00
The opioid epidemic and veterinary medicine <i>Lara Maxwell</i> ID# 1627 CE: 1.00	Seizure management <i>Michaela Beasley</i> ID# 1756 CE: 1.00	Dispelling the myths of veterinary oncology <i>Douglas Thamm</i> ID# 1055 CE: 1.00	Exotics: What do I do? <i>Alyssa Auge</i> ID# 1998 CE: 1.00	Potentially poisoned neurologic patient <i>Holly Hommerding</i> ID# 1027 CE: 1.00	Trauma cases: From the trenches <i>Kelly Hall</i> ID# 1935 CE: 1.00

	FOOD ANIMAL/EQUINE		PRACTICE MANAGEMENT		PROFESSIONAL DEVELOPMENT	
	ROOM 501	ROOM 502	ROOM 205	ROOM 207	ROOM 605	ROOM 607
7:00 AM						
8:00 AM	External coaptation for equine fractures <i>Hilary Rice</i> ID# 1911 CE: 1.00	Overview of the healthy pet pig <i>Brianna Jordan</i> ID# 1879 CE: 1.00	Coaching reviews & feedback <i>Andrea Crabtree</i> ID# 1658 CE: 1.00	The economic state of the vet profession <i>Clinton Neill</i> ID# 1900 CE: 1.00	Alternative career choices <i>Priscilla Bowers, Danielle Adney, Tangela Williams-Hill, Danielle Alleman</i> ID# 1545 CE: 1.00	How to beat the retention odds <i>Garrett Ryerson, Emily Tincher</i> ID# 1719 CE: 1.00
9:00 AM	Options for laparoscopic surgery in horses <i>Hilary Rice</i> ID# 1920 CE: 1.00	Common procedures and diseases of the pet pig <i>Brianna Jordan</i> ID# 1914 CE: 1.00	Improve your practice culture <i>Andrea Crabtree</i> ID# 1660 CE: 1.00	The language of veterinary care <i>Charlotte McKay</i> ID# 1901 CE: 1.00	Transitioning to a leadership role <i>Eva Evans, Kimberly Ann Therrien</i> ID# 1546 CE: 1.00	Compassionomics for the veterinary team <i>Garrett Ryerson, Katie Reese</i> ID# 1720 CE: 1.00
10:00 AM	Equine field castrations <i>Alison Gardner</i> ID# 1906 CE: 1.00	BSE for cattle <i>Jamie Stewart</i> ID# 1897 CE: 1.00	Tough talks with your team <i>Andrea Crabtree</i> ID# 1663 CE: 1.00	Improving veterinary practice efficiency <i>Frederic Ouedraogo</i> ID# 1902 CE: 1.00	Mid-career choices <i>Makenzie Peterson, Gary Marshall</i> ID# 1547 CE: 1.00	Why your brain tells you lies <i>Debbie Boone</i> ID# 1798 CE: 1.00

LUNCH / EXHIBIT HALL BREAK  
11:00 AM – 1:00 PM

1:00 PM	Equine transpalpebral enucleation <i>Alison Gardner</i> ID# 1907 CE: 1.00	Small ruminant urolithiasis <i>Brianna Jordan</i> ID# 1880 CE: 1.00	4 easy steps toward marketing success part 1 <i>Bill Schroeder</i> ID# 1650 CE: 1.00	1:00 – 2:50 PM Selling to a private buyer is possible <i>Denise Tumblin</i> ID# 1657 CE: 2.00	The power of questions for leaders <i>Michelle Harcha</i> ID# 1594 CE: 1.00	Spectrum of care and client finances <i>Kaitlyn Boatright</i> ID# 1687 CE: 1.00
2:00 PM	Harvesting skin grafts for wounds in horses <i>Alison Gardner</i> ID# 1908 CE: 1.00	BSE for small ruminants <i>Jamie Stewart</i> ID# 1896 CE: 1.00	4 easy steps towards marketing success part 2 <i>Bill Schroeder</i> ID# 3011 CE: 1.00		Productive conflict <i>Michelle Harcha</i> ID# 1603 CE: 1.00	The art and science of the spectrum of care <i>Kaitlyn Boatright</i> ID# 1692 CE: 1.00
3:00 PM	Small ruminant lap AI <i>Clare Scully</i> ID# 1643 CE: 1.00	3:00 – 4:50 PM Updates on MLV use in cattle <i>Jamie Stewart</i> ID# 1898 CE: 2.00	4 easy steps towards marketing success part 3 <i>Bill Schroeder</i> ID# 3012 CE: 1.00	Doctor shortage: Need mid-level practitioner? <i>Denise Tumblin</i> ID# 1655 CE: 1.00	Storytelling for stronger leadership <i>Marnette Falley, Portia Stewart</i> ID# 1607 CE: 1.00	Giving and receiving effective feedback <i>Michelle Harcha</i> ID# 1614 CE: 1.00
4:00 PM	Pregnancy diagnosis in small ruminants <i>Clare Scully</i> ID# 1903 CE: 1.00		4 easy steps towards marketing success part 4 <i>Bill Schroeder</i> ID# 3013 CE: 1.00	Taming high inventory costs <i>Denise Tumblin</i> ID# 1656 CE: 1.00	Four models for work management <i>Marnette Falley, Portia Stewart</i> ID# 1610 CE: 1.00	Mentorship for recruitment and retention <i>Valerie Marcano</i> ID# 1637 CE: 1.00
5:00 PM						

PUBLIC AND CORPORATE PRACTICE				SPONSOR	
ROOM 601	ROOM 702-704-706	ROOM 705-707	ROOM 708-710-712	ROOM 102-104-106	ROOM 103-105
				<b>Ceva Animal Health</b>	
				The allergic patient: What's topical therapy got to do with it? <i>Melissa Hall</i> ID# 5018 CE: 1.00	<b>Colorado VMA</b>
	Dermatophytosis: Outbreaks in shelters <i>Lena DeTar</i> ID# 1808 CE: 1.00	USDA module 19 <i>Maggie Baldwin</i> ID# 3069 CE: 1.00	Resilience in U.S. army veterinarians <i>Teresa Schlanser, Nic Cabano</i> ID# 1841 CE: 1.00	The allergic patient: new insights in skin barrier science <i>Melissa Hall</i> ID# 5112 CE: 1.00	Cannabis and the veterinary profession part 1 <i>James Gaynor</i> ID# 3050 CE: 1.00
What is biodiversity? <i>Susan Vandewoude</i> ID# 1884 CE: 1.00	COVID-19 in small animals: 2019-2022 <i>Lena DeTar</i> ID# 1809 CE: 1.00	USDA module 39 <i>Maggie Baldwin</i> ID# 3070 CE: 1.00	Experience-based neuroplasticity <i>Kelly Lambert</i> ID# 1843 CE: 1.00	<b>Ceva Animal Health</b>	Cannabis and the veterinary profession part 2 <i>James Gaynor</i> ID# 3051 CE: 1.00
Spillover: What is it & why should you care <i>Tristan Burgess</i> ID# 3075 CE: 1.00	Quantifying and communicating clin relevance <i>Rachael Kreisler</i> ID# 1868 CE: 1.00	USDA module 4 <i>Richanne Lomkin</i> ID# 3071 CE: 1.00	Trailblazers in laboratory animal medicine <i>Donna Jarrell, Dondrae Coble, William Watson, Gwendolyn McCormick, Leslie Diaz</i> ID# 1842 CE: 1.00	Understanding the etiology and diagnostic testing for acute canine pancreatitis <i>David Twedt</i> ID# 5004 CE: 1.00	
				10:00 - 10:50 AM Treatment of acute canine pancreatitis in dogs: Are we ready for a paradigm shift? <i>David Twedt</i> ID# 5100 CE: 1.00	

LUNCH / EXHIBIT HALL BREAK  
11:00 AM – 1:00 PM

Clinical relevance of spillover <i>Michael Lappin</i> ID# 3076 CE: 1.00	1:00 – 4:50 PM One Health and avian influenza response <i>Victoria Bowes, Carol Cardona, Michelle Kromm, Sarah Tomlinson, Joni Scheftel, Denise Bonilla, Erika Machtinger, Alec Thompson, Lars Eisen, Colleen Webb</i> ID# 1805 CE: 4.00	1:00 – 4:50 PM Emerging tick-borne diseases <i>Natalie Wendling, Janet Foley, Ann Carpenter, Charles Beard, Denise Bonilla, Erika Machtinger, Alec Thompson, Lars Eisen, Colleen Webb</i> ID# 1873 CE: 4.00	National Park Service Wildlife Health Branch <i>Laurie Baeten</i> ID# 1832 CE: 1.00	<b>Boehringer Ingelheim</b>	<b>Colorado VMA</b>
Wildlife hunting in biodiversity <i>Peregrine Wolff, Marissa Milstein</i> ID# 3077 CE: 1.00			Challenges of working with wildlife <i>Laurie Baeten</i> ID# 1838 CE: 1.00	1:00 - 1:50 PM New ticks in the neighborhood: Evolving risks of h. longicornis and native US species <i>Katie Reif</i> ID# 5134 CE: 1.00	Havoc mayhem & opportunity – post-pandemic <i>Heather Howells</i> ID# 2100 CE: 1.00
Biodiversity, and infectious diseases <i>John Gittleman</i> ID# 3078 CE: 1.00			USDA module 6 <i>Richanne Lomkin</i> ID# 3072 CE: 1.00	2:00 - 2:50 PM Insights from the 2022 American Heartworm Society Symposium: today's discoveries tomorrow's practice <i>Andrew Moorhead</i> ID# 5135 CE: 1.00	Love your veterinary life again <i>Heather Howells</i> ID# 2101 CE: 1.00
Global Health Summit panel discussion <i>Tristan Burgess, John Gittleman, Michael Lappin, Marissa Milstein, Susan Vandewoude, Peregrine Wolff</i> ID# 3079 CE: 1.00			Veterinary careers within CROs <i>Danielle Adney, Mandy Pacheco</i> ID# 1625 CE: 1.00	3:00 - 3:50 PM Feline tick-borne diseases: Timely updates on cytauxzoonosis and more <i>Michael Lappin</i> ID# 5136 CE: 1.00	
				4:00 - 4:50 PM The evolution of veterinary drug compounding: Where are we now and what you should know? <i>Dawn Boothe</i> ID# 5147 CE: 1.00	

Monday

SPONSOR					TRENDING TOPICS
ROOM 107-109-111-113	ROOM 201-203	CE THEATER 1	CE THEATER 2	CE THEATER 3	ROOM 503-504
CHECK THE APP FOR MOST CURRENT SCHEDULE					
<b>Boehringer Ingelheim</b>					
7:00 AM	Alpha-gal and more: How lone star ticks threaten people and pets <i>Scott Commins, Kathryn Reif</i> ID# 5127 CE: 1.00				
8:00 AM	8:00 - 8:50 AM Bartonellosis and beyond: Current understanding of flea-borne zoonotic pathogens in dogs and cats <i>Michael Lappin</i> ID# 5128 CE: 1.00	<b>Boehringer Ingelheim</b>			Vinyl chloride <i>Karyn Bischoff</i> ID# 2000 CE: 1.00
9:00 AM	9:00 - 9:50 AM Zoonotic intestinal parasites: Expert insights on risk and resistance <i>Anne Straily, Jeba Jesudoss Chelladurai</i> ID# 5129 CE: 1.00	Radiographic interpretation of heart disease: How a cardiologist evaluates films <i>Brian Scansen</i> ID# 5132 CE: 1.00			TikTok & veterinary education <i>Jeremy Coleman</i> ID# 2057 CE: 1.00
10:00 AM	10:00 - 10:50 AM Chagas disease: The spreading threat that kissing bugs pose to our patients <i>Sarah Hamer</i> ID# 5130 CE: 1.00				Cat-transmitted sporotrichosis <i>Ian Hennessee</i> ID# 2028 CE: 1.00
11:00 AM		<b>Boehringer Ingelheim</b>	<b>Elanco</b>	<b>Idexx</b>	
12:00 PM		Evidence-based therapies for heart disease in dogs <i>Brian Scansen</i> ID# 5133 CE: 1.00	Not just tired: A new approach to managing anemia in feline CKD <i>Jessica Quimby</i> ID# 5144 CE: 1.00	Adrenal disease: Giving clarity to the confusion <i>Rebekah Mack-Gertig</i> ID# 5017 CE: 1.00	
1:00 PM		<b>Purina Pro Plan Veterinary Diets</b>			Vet techs' role in telemedicine <i>Yui Shapard, Christina Tran</i> ID# 2047 CE: 1.00
2:00 PM		Obesity prevention & management <i>Valerie Parker</i> ID# 5003 CE: 1.00			Transforming the diagnostic ultrasound model <i>Emily Downs, Michelle Sima</i> ID# 2014 CE: 1.00
3:00 PM		2:00 - 2:50 PM Making nutrition communication appetizing: Creative strategies for 'weight'y discussions <i>Deborah Linder</i> ID# 5200 CE: 1.00			Veterinary drug diversion <i>Justin May, Karl Nobert</i> ID# 2020 CE: 1.00
4:00 PM		3:00 - 3:50 PM Flab to fab – 5 lessons my patients have taught me about defeating the dreaded duo – obesity and immobility <i>Ross Palmer</i> ID# 5201 CE: 1.00			Pay equity and family leave in veterinary medicine <i>Laura Pletz</i> ID# 2039 CE: 1.00
5:00 PM		4:00 - 4:50 PM Losing never felt so good: an effective metabolic approach <i>Jason Gagne</i> ID# 5202 CE: 1.00			

VETERINARY TECHNOLOGY		
ROOM 505	ROOM 506	ROOM 507
Stat vs. stable: Triage and critical thinking <i>Brooke Quesnell</i> ID# 1435 CE: 1.00	Leadership in vet med <i>Kimberly Pope-Robinson</i> ID# 1249 CE: 1.00	Under pressure: NIBP <i>Amanda Shelby</i> ID# 1080 CE: 1.00
Equine lameness <i>Shana Lemmenes</i> ID# 1021 CE: 1.00	Dealing with the difficult doctor <i>Jordin Tillison</i> ID# 1091 CE: 1.00	Tech's guide to managing the DKA patient <i>Yvonne Brandenburg</i> ID# 1111 CE: 1.00
Neonatal care <i>Shana Lemmenes</i> ID# 1022 CE: 1.00	Promoting team well-being <i>Kimberly Pope-Robinson</i> ID# 1243 CE: 1.00	Pancreatitis: When exocrine goes haywire <i>Yvonne Brandenburg</i> ID# 1113 CE: 1.00

Monday

LUNCH / EXHIBIT HALL BREAK  
11:00 AM – 1:00 PM

Hypercalcemia <i>Brooke Quesnell</i> ID# 1432 CE: 1.00	Interview skills <i>Kimberly Pope-Robinson</i> ID# 1245 CE: 1.00	Renal disease <i>Yvonne Brandenburg</i> ID# 1114 CE: 1.00
Compassion and cancer <i>Brooke Quesnell</i> ID# 1433 CE: 1.00	Having tough conversations <i>Kimberly Pope-Robinson</i> ID# 1247 CE: 1.00	Capnography <i>Amanda Shelby</i> ID# 1077 CE: 1.00
Chemotherapy administration <i>Brooke Quesnell</i> ID# 1434 CE: 1.00	Leadership and vulnerability <i>Kimberly Pope-Robinson</i> ID# 1248 CE: 1.00	ABCs of ECGs <i>Amanda Shelby</i> ID# 1078 CE: 1.00
Monitoring the anesthetized patient <i>Travis Bruns</i> ID# 1161 CE: 1.00	Forensic photography <i>Allyne Moon</i> ID# 1184 CE: 1.00	The anesthesia machine <i>Lanette Jordan</i> ID# 1221 CE: 1.00

Tuesday

COMPANION ANIMAL MEDICINE	
ROOM 401-404	ROOM 405-407
Immunomodulators for autoimmune disease <i>Lara Maxwell</i> ID# 1636 CE: 1.00	Treatment of neurogenic bladders <i>Michaela Beasley</i> ID# 1757 CE: 1.00
What's new in antiviral therapy? <i>Lara Maxwell</i> ID# 1640 CE: 1.00	Polyradiculoneuropathy <i>Sam Long</i> ID# 1939 CE: 1.00
Novel insulins for diabetes mellitus <i>Arnon Gal</i> ID# 1802 CE: 1.00	Myesthesia gravis in dogs and cats <i>Sam Long</i> ID# 1940 CE: 1.00
	Masticatory myositis <i>Sam Long</i> ID# 1941 CE: 1.00

Tuesday

COMPANION ANIMAL MEDICINE				FOOD ANIMAL/EQUINE	
MILE HIGH BALLROOM 1	MILE HIGH BALLROOM 2	MILE HIGH BALLROOM 3	MILE HIGH BALLROOM 4	ROOM 501	ROOM 502
7:00 AM				7:00 AM	
8:00 AM				8:00 AM	
Blood thirsty poisons <i>Holly Hommerding</i> ID# 1029 CE: 1.00	8:00 – 9:50 AM Veterinary acupuncture: Who what and why <i>Aziza Glass</i> ID# 1015 CE: 2.00	Answering challenging nutrition questions <i>Susan Wynn</i> ID# 1231 CE: 1.00	Reproductive emergencies <i>Jenna Dockweiler</i> ID# 1754 CE: 1.00	Bovine respiratory disease <i>Sarah Raabis</i> ID# 1766 CE: 1.00	Erysipelas outbreak in goats <i>Stephanie Ringler</i> ID# 1300 CE: 1.00
Rodenticide exposures and therapies <i>Holly Hommerding</i> ID# 1031 CE: 1.00		Nutrition of the geriatric dog and cat <i>Susan Wynn</i> ID# 1232 CE: 1.00	Prostate disorders in dogs <i>Jennifer Sones</i> ID# 1711 CE: 1.00	The affect of microbiome on BRD <i>Sarah Raabis</i> ID# 1768 CE: 1.00	Small ruminants antibiotics <i>Kelly Still Brooks</i> ID# 1578 CE: 1.00
Table food threats in our companion pets <i>Holly Hommerding</i> ID# 1034 CE: 1.00	Bird emergency <i>Laila Proenca</i> ID# 1561 CE: 1.00	Raw food: Are the anecdotes on to something? <i>Susan Wynn</i> ID# 1229 CE: 1.00	Vaginal cytology in dogs <i>Jennifer Sones</i> ID# 1712 CE: 1.00	10:00 – 11:50 AM Large animal neurology cases <i>Tanya Applegate, Yvette Nout-Lomas</i> ID# 1778 CE: 2.00	Small ruminant nutrition <i>Kelly Still Brooks</i> ID# 1615 CE: 1.00
Canine genetics in GP <i>Jenna Dockweiler</i> ID# 1753 CE: 1.00	Health outcomes and design <i>Lucas Pantaleon, Heather Lewis</i> ID# 1150 CE: 1.00	GI stasis in rabbits without metoclopramide <i>Laila Proenca</i> ID# 1628 CE: 1.00	Canine parturition <i>Jennifer Sones</i> ID# 1713 CE: 1.00		Kid/lamb processing procedures <i>Kelly Still Brooks</i> ID# 1616 CE: 1.00

PRACTICE MANAGEMENT		PRACTICE MANAGEMENT			
ROOM 205	ROOM 207	ROOM 603	ROOM 605	ROOM 607	ROOM 503-504
7:00 AM		7:00 AM			
8:00 AM		8:00 AM			
Workplace environment as a profit center <i>Tracy Sheffield</i> ID# 1209 CE: 1.00	Communicating “what to expect” effectively <i>Craig Spinks</i> ID# 1696 CE: 1.00		Leading with emotional intelligence <i>Michelle Harcha</i> ID# 1583 CE: 1.00	Turning “off” the veterinarian mind <i>Jennifer Quammen, Ryan Smith</i> ID# 1684 CE: 1.00	Hiring for equity and inclusion <i>Melody Martinez</i> ID# 2059 CE: 1.00
Repairing the toxic practice culture <i>Tracy Sheffield</i> ID# 1210 CE: 1.00	Emotional marketing to pet owners <i>Craig Spinks</i> ID# 1698 CE: 1.00	Providing care during a humanitarian crisis <i>Sarah Wallace</i> ID# 1337 CE: 1.00	When feedback hurts <i>Cynthia Courtney</i> ID# 1710 CE: 1.00	Yes to boundaries no to blocks <i>Laila Proenca</i> ID# 1639 CE: 1.00	
Successful employee management <i>Tracy Sheffield</i> ID# 1564 CE: 1.00	Using video to improve compliance <i>Craig Spinks</i> ID# 1702 CE: 1.00	Beyond mandatory reporting <i>Nicole Forsyth, Amanda Landis-Hanna</i> ID# 1365 CE: 1.00	Mastering cross-cultural communication <i>Melody Martinez, Ashleigh Davis-Bergsohn</i> ID# 1717 CE: 1.00	Triage your personal finances <i>Meredith Jones</i> ID# 1586 CE: 1.00	
Practice manager development <i>Tracy Sheffield</i> ID# 1565 CE: 1.00	Efficiency through automation <i>Craig Spinks</i> ID# 1703 CE: 1.00	Time management for the busy veterinarian <i>Ingrid Pyka</i> ID# 1507 CE: 1.00	Collaborative care <i>Kaitlyn Boatright</i> ID# 1587 CE: 1.00	Taming the student debt monster <i>Meredith Jones</i> ID# 1593 CE: 1.00	Avoiding toxic workplaces <i>Cynthia Courtney</i> ID# 1679 CE: 1.00

# AVMA IS GOING GREEN

by limiting the number of pages used in our printed program guide. More information and access to CE certificates can be found on the AVMA Convention app.

 Located in the App Store and Google Play



# SEE YOU AT OUR SATURDAY SOCIAL EVENTS

## Technician Appreciation Event

6:00 – 7:30 PM  
Saturday, July 15  
Dierks Bentley’s Whiskey Row  
Sponsored by



## Young Professionals Event

6:00 – 7:30 PM  
Saturday, July 15  
Dierks Bentley’s Whiskey Row  
Sponsored by



## Live Life, Love All

7:00 – 9:00 PM  
Saturday, July 15  
Dierks Bentley’s Whiskey Row  
\*Must be 21 years or older to enter  
Sponsored by



	PUBLIC AND CORPORATE PRACTICE			VETERINARY TECHNOLOGY		
	ROOM 702-704-706	ROOM 705-707	ROOM 708-710-712	ROOM 505	ROOM 506	ROOM 507
7:00 AM						
8:00 AM	Drug diversion <i>Simone Godwin</i> ID# 1319 CE: 1.00	USDA module 21 <i>Morgan McCarty</i> ID# 3073 CE: 1.00	Medical countermeasures for emerging threats <i>Danielle Adney</i> ID# 1664 CE: 1.00	Emergency shelter medicine <i>Allyne Moon</i> ID# 1182 CE: 1.00	Anesthetic calculations <i>Lanette Jordan</i> ID# 1219 CE: 1.00	Under pressure: Hypotension/IBP <i>Amanda Shelby</i> ID# 1081 CE: 1.00
9:00 AM	Medication safety education for veterinarians <i>Turi Aarnes, Kelsey Schmuhl, Brittany Sandidge</i> ID# 1459 CE: 1.00	USDA module 29 <i>Morgan McCarty</i> ID# 3074 CE: 1.00	Clinical pathology in animal models <i>Danielle Adney, Cassandra Tansey</i> ID# 1638 CE: 1.00	Zoonotic disease in a shelter environment <i>Allyne Moon</i> ID# 1183 CE: 1.00	Anesthetic respiratory complications <i>Travis Bruns</i> ID# 1159 CE: 1.00	Blood gas interpretation <i>Amanda Shelby</i> ID# 1082 CE: 1.00
10:00 AM	10:00 - 10:25 AM Veterinarians and fungal disease clusters <i>Suzanne Gibbons-Burgener</i> ID# 1257 CE: 0.50		Veterinary guide to navigating outbreaks <i>Danielle Adney, Natalie Wendling, Cassandra Tansey</i> ID# 1662 CE: 1.00	Forensic exam of the live patient <i>Allyne Moon</i> ID# 1185 CE: 1.00	ECG monitoring of the anesthetized patient <i>Travis Bruns</i> ID# 1160 CE: 1.00	Surf's up! Riding the waves of capnography <i>Lanette Jordan</i> ID# 1220 CE: 1.00
11:00 AM			Neuromuscular balance training for MWDs <i>Andrea Henderson</i> ID# 1573 CE: 1.00	Forensic necropsy <i>Allyne Moon</i> ID# 1186 CE: 1.00	Pediatric & geriatric anesthesia <i>Travis Bruns</i> ID# 1162 CE: 1.00	Arterial blood gas interpretation <i>Lanette Jordan</i> ID# 1222 CE: 1.00



# Supporting You and the AVMF REACH Program

We know many of you donate time and services to give your patients the care they need. Because of your support of the Vet Direct program, **we donated \$200,000 to the AVMF REACH** (Reaching Every Animal with Charitable Healthcare) Program, which aims to break down financial barriers to immediate care by offering grants to AVMA members.

Learn more about our support of the AVMF REACH Program  
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**vetmedin<sup>®</sup>-CA1**  
(pimobendan) CHEWABLE TABLETS



You can give your MMVD patients  
**more life to live**

**VETMEDIN<sup>®</sup>-CA1 (pimobendan) can give canines up to 15.6 more months of symptom-free life<sup>1</sup>**

Start managing myxomatous mitral valve disease (MMVD) even earlier at Stage B2 with **VETMEDIN<sup>®</sup>-CA1 (pimobendan)**. It's conditionally approved to **delay the onset of CHF in dogs with Stage B2 preclinical MMVD**.

Give your patients more time, more moments together, and more of everything.  
**With early screening and VETMEDIN-CA1, more time starts now.**



Scan to learn more

1. Keene, BW, Atkins, CE, Bonagura, JD, et al. ACVIM consensus guidelines for the diagnosis and treatment of myxomatous mitral valve disease in dogs. *J Vet Intern Med.* 2019; 33: 1127-1140.

**IMPORTANT SAFETY INFORMATION:** Adverse reactions not related to disease progressing in dogs receiving VETMEDIN<sup>®</sup>-CA1 (pimobendan) included diarrhea, vomiting, pain, lameness, arthritis, urinary tract infection, and seizure. The safe use of VETMEDIN-CA1 has not been evaluated in dogs younger than 6 months of age, dogs with congenital heart defects, dogs with diabetes mellitus or other serious metabolic diseases, dogs used for breeding, or pregnant or lactating bitches. **It is a violation of Federal law to use this product other than as directed in the labeling. Conditionally approved by FDA pending a full demonstration of effectiveness under application number 141-556.** For more information, refer to the package insert.

VETMEDIN<sup>®</sup> is a registered trademark of Boehringer Ingelheim Vetmedica GmbH, used under license.  
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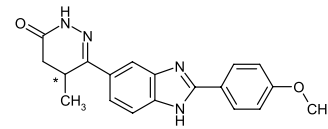
**VETMEDIN<sup>®</sup>-CA1**  
(pimobendan)  
**Chewable Tablets**  
Cardiac drug for oral use in dogs only

**Caution:** Federal law restricts this drug to use by or on the order of a licensed veterinarian. Use only as directed.

**It is a violation of Federal law to use this product other than as directed in the labeling.**

**Conditionally approved by FDA pending a full demonstration of effectiveness under application number 141-556.**

**Description:** VETMEDIN-CA1 (pimobendan) is supplied as oblong half-scored chewable tablets containing 1.25 or 5 mg pimobendan per tablet. Pimobendan, a benzimidazole-pyridazinone derivative, is a non-sympathomimetic, non-glycoside inotropic drug with vasodilatory properties. Pimobendan exerts a stimulatory myocardial effect by a dual mechanism of action consisting of an increase in calcium sensitivity of cardiac myofibrils and inhibition of phosphodiesterase (Type III). Pimobendan exhibits vasodilating activity by inhibiting phosphodiesterase III activity. The chemical name of pimobendan is 4,5-dihydro-6-[2-(4-methoxyphenyl)-1H-benzimidazole-5-yl]-5-methyl-3(2H)-pyridazinone. The structural formula of pimobendan is:



**Indications:** VETMEDIN-CA1 (pimobendan) is indicated for the delay of onset of congestive heart failure in dogs with Stage B2 preclinical myxomatous mitral valve disease (2019 ACVIM Consensus Statement<sup>1</sup>).

Stage B2 preclinical myxomatous mitral valve disease (MMVD) refers to dogs with asymptomatic MMVD that have a moderate or loud mitral murmur due to mitral regurgitation and cardiomegaly.

**Dosage and Administration:** Always provide the Client Information Sheet to the dog owner with each prescription. VETMEDIN-CA1 should be administered orally at a total daily dose of 0.23 mg/lb (0.5 mg/kg) body weight, using a suitable combination of whole or half tablets. The total daily dose should be divided into 2 portions that are not necessarily equal, and the portions should be administered approximately 12 hours apart (i.e., morning and evening). The tablets are scored, and the calculated dosage should be provided to the nearest half tablet increment.

**Contraindications:** Do not administer VETMEDIN-CA1 in cases of hypertrophic cardiomyopathy, aortic stenosis, or any other clinical condition where an augmentation of cardiac output is inappropriate for functional or anatomical reasons.

Do not administer VETMEDIN-CA1 to dogs with Stage A or B1 preclinical MMVD (2019 ACVIM Consensus Statement) due to the risk of cardiac pathology associated with exaggerated hemodynamic responses to VETMEDIN-CA1.

**Warnings:**  
**User Safety Warnings:** Not for use in humans. Keep this and all medications out of reach of children. Consult a physician in case of accidental ingestion by humans.

**Animal Safety Warnings:** Keep VETMEDIN-CA1 in a secure location out of reach of dogs, cats, and other animals to prevent accidental ingestion or overdose.

At 3 and 5 times the recommended dosage, administered over a 6-month period of time, pimobendan caused an exaggerated hemodynamic response in the normal dog heart, which was associated with cardiac pathology (See **Target Animal Safety**).

**Precautions:** For use only in dogs with preclinical MMVD that have a moderate or loud mitral murmur due to mitral regurgitation and cardiomegaly (Stage B2 MMVD, 2019 ACVIM Consensus Statement). A diagnosis of MMVD should be made by means of a comprehensive physical and cardiac examination which should include radiography and echocardiography.

Stage B2 cardiomegaly is diagnosed based on meeting all three of the following criteria:

- Radiographic vertebral heart score (VHS) >10.5, and
  - Echocardiographic left atrium/aorta ratio (LA/Ao ratio) ≥1.6, and
  - Echocardiographic left ventricular internal diastolic diameter normalized to body weight (LVIDDN) ≥1.7.
- Echocardiographic examination is recommended in all cases to diagnose MMVD and confirm cardiomegaly. If therapy is initiated prior to the development of cardiomegaly, treated dogs are at risk for cardiac

pathology associated with exaggerated hemodynamic responses to VETMEDIN-CA1.

If only radiographic examination is possible, cardiomegaly may be diagnosed in cases where the VHS ≥11.5 and the vertebral left atrial size (VLAS) ≥3.0<sup>1,2</sup>. If radiographic cardiomegaly does not meet both of these criteria, an echocardiogram should be performed prior to the initiation of therapy with VETMEDIN-CA1.

VETMEDIN-CA1 has not been evaluated in dogs receiving concomitant heart medications.

The safety of VETMEDIN-CA1 has not been established in dogs with asymptomatic heart disease caused by etiologies other than MMVD. The safe use of VETMEDIN-CA1 has not been evaluated in dogs younger than 6 months of age, dogs with congenital heart defects, dogs with diabetes mellitus or other serious metabolic diseases, dogs used for breeding, or pregnant or lactating bitches.

**Adverse Reactions:** In a controlled multi-center field study, 363 dogs with preclinical MMVD (Stage B2 MMVD, 2019 ACVIM Consensus Statement) received at least one dose of VETMEDIN-CA1 (n=182) or the placebo control chewable tablets (n=181) for up to 1563 days. During this long-term study, dogs were followed until the development of congestive heart failure (CHF). Adverse reactions were seen in both treatment groups with many findings associated with the progression of MMVD and comorbidities consistent with the age of the enrolled dogs.

The median time to the primary endpoint (development of left-sided CHF or cardiac death/euthanasia) was 38% longer in the VETMEDIN-CA1 group. Despite the longer duration on study, the incidence of reported adverse reactions was similar between treatment groups.

Cough was the most frequently reported adverse reaction. This clinical finding is commonly reported in cases of MMVD and the incidence was similar between treatment groups. Lethargy, inappetence, tachypnea, collapse, arrhythmia, and syncope may also be associated with the progression of MMVD and were reported in dogs receiving VETMEDIN-CA1.

Adverse reactions not related to disease progression in dogs receiving VETMEDIN-CA1 included diarrhea, vomiting, pain, lameness, arthritis, urinary tract infection, and seizure.

Mortality rate, regardless of reason, prior to CHF was similar between the VETMEDIN-CA1 and the control groups.

**Contact Information:** To report suspected adverse reactions, to obtain a Safety Data Sheet (SDS), or for technical assistance, contact Boehringer Ingelheim Animal Health USA Inc. at 1-888-637-4251. For additional information about reporting adverse drug experiences for animal drugs, contact FDA at 1-888-FDA-VETS or at <http://www.fda.gov/reportanimalae>.

**Information for Dog Owners:** Always provide the Client Information Sheet with each prescription and review it with the dog owner or person responsible for care of the dog. Advise dog owners about signs of disease progression and possible adverse reactions with use of VETMEDIN-CA1.

**Clinical Pharmacology:** Pimobendan is oxidatively demethylated to a pharmacologically active metabolite which is then conjugated with sulfate or glucuronic acid and excreted mainly via feces. The mean extent of protein binding of pimobendan and the active metabolite in dog plasma is >90%. Following a single oral administration of 0.25 mg/kg VETMEDIN-CA1, the maximal mean (± 1 SD) plasma concentrations (C<sub>max</sub>) of pimobendan and the active metabolite were 3.09 (0.76) ng/mL and 3.66 (1.21) ng/mL, respectively. Individual dog C<sub>max</sub> values for pimobendan and the active metabolite were observed 1 to 4 hours post-dose (mean: 2 and 3 hours, respectively). The total body clearance of pimobendan was approximately 90 mL/min/kg, and the terminal elimination half-lives of pimobendan and the active metabolite were approximately 0.5 hours and 2 hours, respectively.

Plasma levels of pimobendan and active metabolite were below quantifiable levels by 4 and 8 hours after oral administration, respectively. The steady-state volume of distribution of pimobendan is 2.6 L/kg indicating that the drug is readily distributed into tissues. Food decreased the bioavailability of an aqueous solution of pimobendan, but the effect of food on the absorption of pimobendan from VETMEDIN-CA1 is unknown.

In normal dogs instrumented with left ventricular (LV) pressure transducers, pimobendan increased LV dP/dt<sub>max</sub> (a measure of contractility of the heart) in a dose dependent manner between 0.1 and 0.5 mg/kg orally. The effect was still present 8 hours after dosing. There was a delay between peak blood levels of pimobendan and active metabolite and the maximum physiologic response (peak LV dP/dt<sub>max</sub>). Blood levels of pimobendan and active metabolite began to drop before maximum contractility was seen. Repeated oral administration of pimobendan did not result in evidence of tachyphylaxis (decreased positive inotropic effect) or drug accumulation (increased positive inotropic effect). Laboratory studies indicate that the positive inotropic effect of pimobendan may be attenuated by the

concurrent use of a β-adrenergic blocker or a calcium channel blocker.

**Reasonable Expectation of Effectiveness:** A reasonable expectation of effectiveness may be demonstrated based on evidence such as, but not limited to, pilot data in the target species or studies from published literature.

VETMEDIN-CA1 is conditionally approved pending a full demonstration of effectiveness.

Additional information for Conditional Approvals can be found at [www.fda.gov/animalca](http://www.fda.gov/animalca).

A reasonable expectation of effectiveness for VETMEDIN-CA1 is based on results from a multi-site global field study. The study demonstrated a significant delay in the onset of congestive heart failure in dogs with cardiomegaly and heart murmur secondary to Stage B2 MMVD when treated with VETMEDIN-CA1 at the targeted total daily dose of 0.23 mg/lb (0.5 mg/kg) divided into two administrations approximately 12 hours apart.

A total of 363 dogs across various breeds were randomized to treatment. The resulting population evaluated for effectiveness consisted of 353 dogs receiving either pimobendan (VETMEDIN-CA1, n=178) or control product (placebo chewable tablets, n=175).

Dogs ranged between 6 and 17 years of age and weighed between 9 and 33 lbs at enrollment. Dogs were confirmed to have evidence of Stage B2 preclinical MMVD prior to enrollment, including a systolic heart murmur grade of ≥3/6 and evidence of cardiomegaly, including a VHS >10.5, and echocardiographic evidence of LA/Ao ratio ≥1.6 and LVIDDN ≥1.7.

Dogs were ineligible if they were found to have current or previous evidence of cardiogenic pulmonary edema, clinically significant tachyarrhythmias, cardiac disease other than MMVD, significant systemic disease, evidence of pulmonary hypertension (RA:RV gradient > 65 mmHg), were pregnant or lactating female dogs, or if they were treated with prohibited concomitant medications for 14 or more consecutive days.

The primary outcome evaluated was a composite of the development of left-sided CHF or cardiac-related death or euthanasia. Left-sided congestive heart failure was confirmed by radiographic evidence of cardiogenic pulmonary edema. If a dog died in the absence of evidence of a non-cardiac cause of death, prior to radiographic confirmation of pulmonary edema, it was also considered to have reached the primary endpoint. The study was designed to follow individual dogs for up to 3 years or until disease progression into CHF.

At study termination, 41.6% of the dogs in the VETMEDIN-CA1 group had reached the primary endpoint, compared to 50.3% in the control group. The median time to the primary endpoint was 1228 days in the VETMEDIN-CA1 group compared to 761 days in the control group. Thus, administration of VETMEDIN-CA1 to dogs with Stage B2 preclinical MMVD resulted in the prolongation of the preclinical period by 467 days (15.6 months) compared to dogs receiving control product.

**Palatability:** In a laboratory study, the palatability of VETMEDIN-CA1 was evaluated in 20 adult female Beagle dogs offered doses twice daily for 14 days. Ninety percent (18 of 20 dogs) voluntarily consumed more than 70% of the 28 tablets offered. Including two dogs that consumed only 4 and 7% of the tablets offered, the average voluntary consumption was 84.2%.

**Target Animal Safety:** In a laboratory study, pimobendan chewable tablets were administered to 6 healthy Beagles per treatment group at 0 (control), 1, 3, and 5 times the recommended dosage for 6 months. See the table below for cardiac pathology results. The cardiac pathology/histopathology noted in the 3X and 5X dose groups is typical of positive inotropic and vasodilator drug toxicity in normal dog hearts and is associated with exaggerated hemodynamic responses to these drugs. None of the dogs developed signs of heart failure and there was no mortality.

**Incidence of Cardiac Pathology/Histopathology in the Six-month Safety Study**

Severe left ventricular hypertrophy with multifocal subendocardial ischemic lesions	One 3X and two 5X dogs <sup>a</sup>
Moderate to marked myxomatous thickening of the mitral valves	Three 5X dogs
Myxomatous thickening of the chordae tendineae	One 3X and two 5X dogs
Endocardial thickening of the left ventricular outflow tract	One 1X, two 3X and two 5X dogs
Left atrial endocardial thickening (jet lesions) in 2 of the dogs that developed murmurs of mitral valve insufficiency	One 3X and one 5X dog
Granulomatous inflammatory lesion in the right atrial myocardium	One 3X dog

<sup>a</sup> Most of the gross and histopathologic findings occurred in these three dogs

Murmurs of mitral valve insufficiency were detected in one 3X (Day 65) and two 5X dogs (Days 135 and 163). These murmurs (grades II-III of VI) were not associated with clinical signs.

Indirect blood pressure was unaffected by pimobendan at the label dose (1X). Mean diastolic blood pressure was decreased in the 3X group (74 mmHg) compared to the control group (82 mmHg). Mean systolic blood pressure was decreased in the 5X group (117 mmHg) compared to the control group (124 mmHg). None of the dogs had clinical signs of hypotension.

On 24-hour Holter monitoring, mean heart rate was increased in the 5X group (101 beats/min) compared to the control group (94 beats/min). Not counting escape beats, the 3X and 5X groups had slightly higher numbers of isolated ventricular ectopic complexes (VEs). The maximum number of non-escape VEs recorded either at baseline or in a control group dog was 4 VEs/24 hours. At either Week 4 or Week 20, three 3X group dogs had maximums of 33, 13, and 10 VEs/24 hours, and two 5X group dogs had maximums of 22 and 9 VEs/24 hours. One 1X group dog with no VEs at baseline had 6 VEs/24 hours at Week 4 and again at Week 20. Second-degree atrioventricular heart block was recorded in one 3X group dog at Weeks 4 and 20, and in one dog from each of the 1X and 5X groups at Week 20. None of the dogs had clinical signs associated with these electrocardiogram changes.

Treatment was associated with small differences in mean platelet counts (decreased in the 3X and 1X groups), potassium (increased in the 5X group), glucose (decreased in the 1X and 3X groups), and maximum blood glucose in glucose curves (increased in the 5X group). All individual values for these variables were within the normal range. Three 1X and one 5X group dogs had mild elevations of alkaline phosphatase (less than two times normal).

Loose stools and vomiting were infrequent and self-limiting.

**Storage Information:** Store at 20° to 25°C (68° to 77°F), excursions permitted between 15° and 30°C (between 59° and 86°F).

**How Supplied:** VETMEDIN<sup>®</sup>-CA1 (pimobendan) Chewable Tablets: Available as 1.25 and 5 mg oblong half-scored chewable tablets - 50 tablets per bottle.

NDC 0010-4610-01 - 1.25 mg - 50 tablets  
NDC 0010-4612-01 - 5 mg - 50 tablets

**References:**  
<sup>1</sup> Keene, B., et al. (2019) ACVIM consensus guidelines for the diagnosis and treatment of myxomatous mitral valve disease in dogs. *J Vet Intern Med.* 33(3):1127-1540.

<sup>2</sup> Malcolm, E.L., et al. (2018) Diagnostic value of vertebral left atrial size as determined from thoracic radiographs for assessment of left atrial size in dogs with myxomatous mitral valve disease. *J AM Vet Med Assoc.* 253(8):1038-1045.

**Marketed by:** Boehringer Ingelheim Animal Health USA Inc. Duluth, GA 30096

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